

Tide Tables 2011

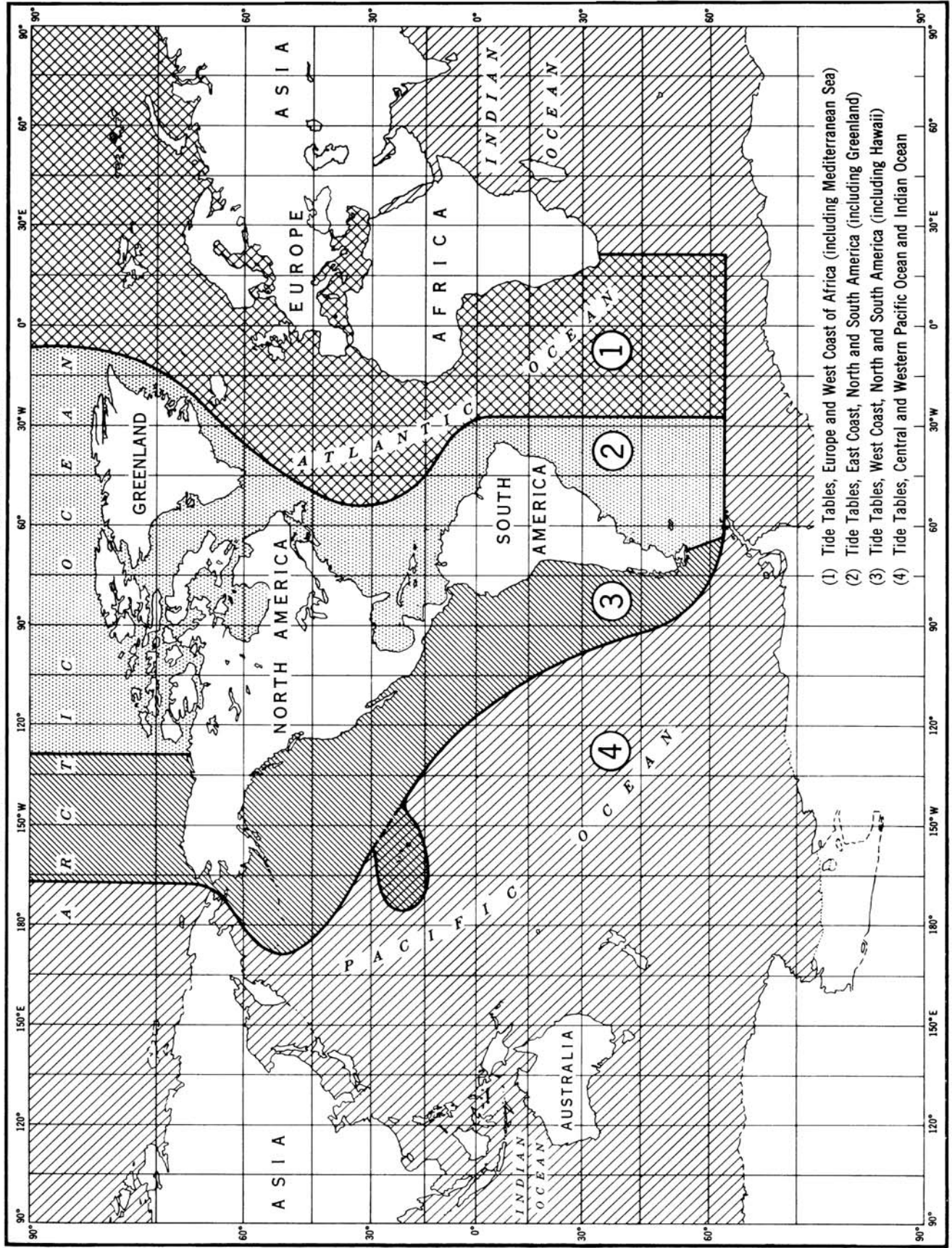
HIGH AND LOW WATER PREDICTIONS

Central and Western Pacific Ocean and Indian Ocean



Tide Tables 2011 – Central and Western Pacific Ocean and Indian Ocean

INDEX OF TIDE TABLE COVERAGE



- (1) Tide Tables, Europe and West Coast of Africa (including Mediterranean Sea)
- (2) Tide Tables, East Coast, North and South America (including Greenland)
- (3) Tide Tables, West Coast, North and South America (including Hawaii)
- (4) Tide Tables, Central and Western Pacific Ocean and Indian Ocean

Tide Tables 2011 HIGH AND LOW WATER PREDICTIONS

Central and Western Pacific Ocean and Indian Ocean

Issued 2010

SOURCES OF ADDITIONAL INFORMATION

THE NATIONAL OCEAN SERVICE IS NO LONGER PRINTING AND DISTRIBUTING THE TIDE AND TIDAL CURRENT TABLES

Tide and Tidal current data continue to be updated, generated and published by the NOAA/National Ocean Service; however, the printing and distribution in book-form is now done by the Federal Aviation Administration and several private companies working from information provided by NOS.

NOS now offers two vehicles for obtaining predictions. First, the complete set of Tables as camera-ready page-images will be available on CD-ROM. The CD-ROM vehicle is primarily intended for use by federal or private printers who wish to print in book-form the full set of Tables for distribution to resellers and the general public. Second, for domestic tide reference stations, limited predictions are available on the NOS, Center for Operational Oceanographic Products and Services (CO-OPS), web site, (<http://tidesandcurrents.noaa.gov/>).

In addition to predictions, the web site provides updated information on the status of the Tables as they are finalized each year. Notices concerning the most recent Table updates and publication cut-off dates are included.

For the names of companies printing and distributing the Tables, please call or write to:

National Ocean Service
Oceanographic Division, N/OPS3
1305 East-West Highway
Silver Spring, MD 20910
301-713-2815, fax 301-713-4500

PUBLICATIONS:

United States Coast Pilots and Nautical Charts may be ordered from:

FAA, National Aeronautical Charting Office
Distribution Division, AJW-3550
10201 Good Luck Road
Glenn Dale, MD 20769-9700
(301) 436-8301
(800) 638-8972 toll free, U.S. Only
<http://www.naco.faa.gov/>

A list of authorized sales agents is published in the Nautical Chart Catalogs or may be obtained on request from the National Ocean Service. The publications may also be purchased across-the-counter at the NOAA, Distribution Branch office listed above.

TECHNICAL ASSISTANCE:

*Technical questions relating to **tide and current predictions**, as well as requests for **special predictions**, should be addressed to:*

National Ocean Service
Oceanographic Division, N/OPS3
1305 East-West Highway
Silver Spring, MD 20910
(301) 713-2815

SOURCES OF ADDITIONAL INFORMATION

Technical questions relating to ***actual tide observations, tidal datums, and other information necessary for engineering projects*** should be addressed to:

National Ocean Service
Oceanographic Division, N/OPS3
1305 East-West Highway
Silver Spring, MD 20910
(301) 713-2877

Technical questions relating to *other publications and nautical charts* should be addressed to:

National Ocean Service
Customer Affairs Branch
1315 East-West Highway.
Silver Spring, MD 20910
(301) 713-2729

WEBSITES

Center for Operational Oceanographic Products and Services
(PORTS[®] * Predictions * Observations * Bench Marks * Tides Online * Great Lakes Online)

<http://tidesandcurrents.noaa.gov>

Coastal Services Center - <http://www.csc.noaa.gov>

Marine Chart Division - <http://www.nauticalcharts.noaa.gov>

Ocean Predictions Center - <http://www.opc.ncep.noaa.gov>

National Centers for Environmental Predictions - <http://www.ncep.noaa.gov>

National Climatic Data Center - <http://www.ncdc.noaa.gov>

National Data Buoy Center - <http://www.ndbc.noaa.gov>

National Geodetic Survey - <http://www.ngs.noaa.gov>

National Geophysical Data Center - <http://www.ngdc.noaa.gov>

National Ocean Service - <http://www.nos.noaa.gov>

National Oceanic and Atmospheric Administration - <http://www.noaa.gov>

National Oceanographic Data Center - <http://www.nodc.noaa.gov>

National Weather Service - <http://www.nws.noaa.gov>

U.S. Coast Guard - <http://www.uscg.mil>

U.S. Geological Survey - <http://www.usgs.gov>

U.S. Naval Observatory - <http://www.usno.navy.mil>

U.S. Naval Oceanographic Office - <https://oceanography.navy.mil>

CORRECTIONS:

Corrections to this publication, after the date of printing, may appear in the Notice to Mariners. They may also appear in the Local Notice to Mariners, published weekly, by the various United States Coast Guard Districts.

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IMPORTANT NOTICES

For the most part, tide predictions for U.S. reference stations are based upon analyses of tide observations for periods of at least one year. Since the extremes of meteorological conditions have been excluded from the analyses and predictions, the predicted tidal heights should be considered as those expected under average weather conditions. During times when weather conditions differ from what is considered average for the area, the mariner must take note of the corresponding differences between predicted levels and those actually observed. Generally, prolonged onshore winds or a low barometric pressure can produce higher levels than predicted, while the opposite can result in lower levels than those predicted. Exclusive of weather conditions, the astronomical tide is subject to range variations which should be noted. Decreased ranges may be expected near the times when the Moon is in apogee (apogean tides) or in quadrature (neap tides), and increased ranges may be expected when the Moon is in perigee (perigean tides) or in a new or full position (spring tides). A larger diurnal range may also result when the Moon is in its maximum declination (tropic tides). The actual range will depend upon the extent to which combinations of these positions reinforce or detract one from the other. The effect of these astronomical lineups is included in the predictions and may be apparent upon inspection.

The mariner may be kept aware of the times of these astronomical events by referring to the astronomical data listed in this book. He should realize, however, that there is generally a time lag from a few hours to several days from the time of the astronomical event to the time of the resultant tide. During times of storm surges or when extreme weather conditions are imminent, the mariner should closely follow local weather forecasts as they relate to the effects upon the tide levels.

DAYLIGHT-SAVING TIME IS NOT USED IN THIS PUBLICATION. All daily tide predictions and predictions compiled by the use of Table 2 data are based on the standard time meridian indicated for each location. Predicted times may be converted to daylight-saving times, where necessary, by adding 1 hour to these data. In converting times from the Astronomical Data on the inside back cover, it should be noted that daylight-saving time is based on a meridian 15° east of the normal standard meridian for a particular place.

Predicted heights for all reference stations in table 1 are given in both feet and centimeters. Predicted values from the use of table 2 and 3 will be in the English system, but can be converted to metric units by the use of table 6.

The daily tide predictions for the Philippine locations, JOLO, LEGASPI PORT, and SAN FERNANDO HARBOR do not appear in this publication. Daily tide predictions for the Philippine locations are normally supplied to the National Ocean Service by the Bureau of Coast and Geodetic Survey, Republic of the Philippines in accordance with cooperative arrangements for the exchange of tidal predictions. Their predictions were not forwarded in time to appear in this publication. Those predictions usually appear on pages 172 through 175 and 188 through 195. These pages have been omitted from this publication.

NOS, in partnership with other agencies and institutions, has established a series of Physical Oceanographic Real Time Systems (PORTS[®]) in selected areas. These PORTS[®] sites provide constantly updated information on tide and tidal current conditions, water temperature, and weather conditions. This information is updated every six minutes. PORTS[®] sites are currently in operation at several major harbors with future sites to be added. The information is accessible through a computer data connection or by a voice response system at the following numbers:

| PORTS [®] SITES | VOICE ACCESS | INTERNET ACCESS |
|--------------------------|-----------------------------|--|
| CHERRY POINT | 888-817-7794 | www.tidesandcurrents.noaa.gov |
| CHESAPEAKE BAY | 866-CH-PORTS (866-247-6787) | " |
| DELAWARE RIVER & BAY | 866-30-PORTS (866-307-6787) | " |
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| LOWER MISSISSIPPI RIVER | 888-817-7767 | " |
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IMPORTANT NOTICES

| PORTS® SITES | VOICE ACCESS | INTERNET ACCESS |
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| NARRAGANSETT BAY | 866-75-PORTS (866-757-6787) | “ |
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| SABINE NECHES | 888-257-1859 | “ |
| SAN FRANCISCO BAY | 866-SB-PORTS (866-727-6787) | “ |
| SOO LOCKS | 301-713-9596 | “ |
| TACOMA | 888-60-PORTS (888-607-6787) | “ |
| TAMPA BAY | 866-TB-PORTS (866-827-6787) | “ |

INTRODUCTION

Tide tables for the use of mariners have been published by the National Ocean Service (formerly the Coast and Geodetic Survey) since 1853. For a number of years these tables appeared as appendixes to the annual reports of the Superintendent of the Survey, and consisted of detailed instructions enabling the mariner to make his own prediction of tides as the occasion arose.

The first tables to give predictions for each day were those for the year 1867. They gave the times and heights of high waters only and were published in two separate parts, one for the Atlantic coast and the other for the Pacific coast of the United States. Together they contained daily predictions for 19 stations and tidal differences for 124 stations. A few years later predictions for the low waters were also included, and for the year 1896 the tables were extended to include the entire maritime world, with full predictions for 70 ports and tidal differences for about 3,000 stations.

The tide tables are now issued in four volumes, as follows: Europe and West Coast of Africa (including the Mediterranean Sea); East Coast of North and South America (including Greenland); West Coast of North and South America (including the Hawaiian Islands); Central and Western Pacific Ocean and Indian Ocean. Together, they contain daily predictions for 270 reference ports and differences and other constants for about 6,000 stations.

This edition of the Tide Tables, Central and Western Pacific Ocean and Indian Ocean contains full daily predictions for 95 reference stations and differences and other constants for more than 1,932 stations. It also contains a table for obtaining the approximate height of the tide at any time, a table of local mean time of sunrise and sunset for every 5th day of the year for different latitudes, a table for the reduction of local mean time to standard time, a table for converting feet to centimeters, a table of the Greenwich mean time of the Moon's phases, apogee, perigee, greatest north and south and zero declination, and the time of the solar equinoxes and solstices, and a glossary of terms.

Up to and including the tide tables for the year 1884, all the tide predictions were computed by means of auxiliary tables and curves constructed from the results of tide observations at the different ports. From 1885 to 1911, inclusively, the predictions were generally made by means of the Ferrel tide-predicting machine. From 1912 to 1965, inclusively, they were made by means of the Coast and Geodetic Survey tide predicting machine No. 2. Since 1966, predictions have been made by electronic computer.

In the preparation of these tables all available observations were used. In some cases, however, the observations were insufficient for obtaining final results, and as further information becomes available it will be included in subsequent editions. All persons using these tables are invited to send information or suggestions for increasing their usefulness to the National Ocean Service, Oceanographic Division, 1305 East-West Highway, N/OPS3, Silver Spring, Maryland 20910, U.S.A.

In accordance with cooperative arrangements between the National Ocean Service and the authorities listed below, predictions for the following stations appear in this issue:

Hydrographic Office, Japan.—O. Paramushir Island, Kamaisi, Yokohama, Kobe, Kure, Moji, Sasebo, and Naha.

Hydrographic Department, Admiralty, England.—Musi River, Surabaja Strait, Kutei River entrance, Barito River, Shatt al Arab, Mina Salman, Aden, Karachi, Dar es Salaam, Dreger Harbor, Mina Al Ahmadi, Musay'id Outer Channel Entrance, Mina Jebel Ali, Manila, Cebu and Davao.

Department of Lands and Survey, New Zealand.—Wellington and Auckland.

Geodetic and Research Branch, Survey of India, India.—Mergui, Rangoon, Sagar, Madras, Colombo, Bombay, and Suez.

Service Hydrographique, France.—Do Son, Mui Vung Tau.

Hydrographic Department, Thailand.—Bangkok Bar.

Maritime Headquarters, Republic of South Africa.—Durban.

Instituto Hidrografico, Portugal.—Beira.

INTRODUCTION

Hydrographic Office, Australia.—Sydney, Darwin, Port Phillip, Townsville, Brisbane Bar, Port Adelaide, Port Lincoln, and Port Hedland.

Port of Singapore Authority.—Singapore.

National Mapping & Resource Information Authority, Republic of the Philippines.—Legaspi Port, San Fernando Harbor, Jolo.

National Marine Data and Information Service, Peoples Republic of China.—Hong Kong, Dalian, Qinhuangdao, Tanggu, Yantai, Qingdao, Lianyungang, Wusong, Zhongjun, Kanmen, Xiamen, Shantou, Huangpu, Haikou, and Beihai.

Marine Meteorological Center, Central Weather Bureau, Taiwan.—PengHu, Keelung.

LIST OF REFERENCE STATIONS

| Name of station | Page | Datum below mean sea-level | Updated | Data Series |
|---|------|----------------------------------|---------|---------------------|
| Aden, Yemen..... | 360 | 4.4 | | |
| Apia, Samoa Islands | 252 | 1.6 | | |
| Auckland, New Zealand | 268 | 5.8 | | |
| Bangkok Bar, Thailand..... | 140 | 7.7 | | |
| Barito River, Borneo | 168 | 4.3 | | |
| Beihai, China..... | 128 | 8.4 | | |
| Beira, Mozambique..... | 372 | 11.4 | | |
| Belawan Channel, Sumatra..... | 148 | 4.9 | | |
| Bombay, India | 328 | 8.2 | | |
| Brisbane Bar, Australia | 284 | 4.0 | | |
| Cebu, Philippines | 180 | 2.4 | | |
| Ch'ang Chiang Approach, China | 92 | 9.7 | | |
| Chuuk, Moen Island, Caroline Islands | 204 | 3.56 | 2003 | 6 years (1981-1986) |
| Colombo, Sri Lanka | 324 | 1.2 | | |
| Dalian, China | 60 | 5.3 | | |
| Dar Es Salaam, Tanzania | 368 | 5.0 | | |
| Darwin, Australia | 276 | 13.5 | | |
| Davao, Philippines | 176 | 2.5 | | |
| Diego Garcia Island..... | 380 | 2.70 | | |
| Djakarta, Java | 156 | 2.0 | | |
| Do Son, Vietnam | 132 | 6.1 | | |
| Dreger Harbor, New Guinea | 272 | 3.8 | | |
| Durban, South Africa..... | 376 | 3.6 | | |
| Guam, Mariana Islands | 196 | 1.4 | 2002 | 5 years (1994-2000) |
| Haikou, China..... | 124 | 4.9 | 2002 | 5 years (1994-1998) |
| Hilo, Hawaii Island, Hawaii..... | 240 | 1.19 | 2002 | 5 years (1994-1998) |
| Hong Kong, China..... | 120 | 4.5 | | |
| Honolulu, Hawaii | 228 | 0.8 | 2003 | 5 years (1996-2000) |
| Huangpu, China | 116 | 5.1 | | |
| Inch'on, Korea | 52 | 15.2 | | |
| Jolo, Philippines** | 172 | 1.1 | | |
| Johnston Island..... | 244 | 1.07 | 2002 | 5 years (1994-1998) |
| Kahului, Maui Island, Hawaii..... | 236 | 1.16 | 2002 | 5 years (1994-1998) |
| Kamaisi, Japan..... | 16 | 2.8 | | |
| Kanmen, China..... | 96 | 10.8 | | |
| Karachi, Pakistan | 332 | 5.4 | | |
| Keelung (Chi-lung Chiang), Taiwan..... | 112 | 1.9 | | |
| Kobe, Japan..... | 24 | 3.1 | | |
| Kure, Japan..... | 32 | 6.6 | | |
| Kutei River Entrance, Borneo..... | 164 | 4.6 | | |
| Kwajalein Atoll, Marshall Islands..... | 216 | 3.0 | 2001 | 5 years (1994-1998) |
| Legaspi Port, Philippines** | 192 | 2.4 | | |
| Lianyungang, China..... | 80 | 9.5 | | |
| Madras, India | 320 | 2.1 | | |
| Malakal Harbor, Palau Islands | 200 | 3.6 | | |
| Manila, Philippines | 184 | 1.6 | | |
| Mergui, Burma | 308 | 9.1 | | |
| Mina Al Ahmadi, Kuwait..... | 340 | 5.64 | | |
| Mina Jebel Ali, United Arab Emirates..... | 356 | 3.34 | | |
| Mina Salman, Bahrain | 348 | 4.2 | | |

LIST OF REFERENCE STATIONS Cont.

| Name of station | Page | Datum below mean sea-level | Updated | Data Series |
|--|------|----------------------------------|---------|---------------------|
| Moji, Japan..... | 36 | 4.6 | | |
| Moku O Loe, Oahu Island, Hawaii | 232 | 1.07 | 2002 | 4 years (1993-1996) |
| Mui Vung Tau, Vietnam | 136 | 7.9 | | |
| Musay'id Outer Channel Entrance, Qatar | 352 | 3.84 | | |
| Musi River, Sumatra..... | 152 | 6.2 | | |
| Naha, Japan | 44 | 3.9 | | |
| Namp'O-Hang, Korea | 56 | 10.0 | | |
| Nawiliwili, Kauai Island, Hawaii..... | 224 | 0.85 | 2002 | 4 years (1993-1996) |
| O. Paramushiru, Kuril Islands..... | 8 | 3.8 | | |
| Otomari, Sakhalin Island | 4 | 2.4 | | |
| Pago Pago, American Samoa | 260 | 1.34 | 2002 | 3 years (1989-1991) |
| Papeete Harbor, Tahiti Island..... | 248 | 0.73 | 2003 | 5 years (1994-1998) |
| PengHu (Ma-Kung Kang), Pescadores .. | 108 | 5.1 | | |
| Pohnpei Harbor, Caroline Island..... | 208 | 2.3 | | |
| Port Adelaide, Australia | 296 | 4.9 | | |
| Port Hedland, Australia | 304 | 10.0 | | |
| Port Lincoln, Australia | 300 | 2.9 | | |
| Port Phillip, Australia..... | 292 | 2.9 | | |
| Pusan, Korea | 48 | 2.1 | | |
| Qingdao (Da Gang), China | 76 | 7.8 | | |
| Qinhuangdao, China | 64 | 3.0 | | |
| Rangoon, Burma | 312 | 10.2 | | |
| Ras at Tannurah, Saudi Arabia | 344 | 4.1 | | |
| Sagar, India | 316 | 9.7 | | |
| Sakate, Japan | 28 | 3.3 | | |
| San Fernando Harbor, Philippines**..... | 188 | 1.0 | | |
| Sand Island, Midway Islands | 220 | 0.65 | 2002 | 5 years (1994-1998) |
| Sasebo, Japan | 40 | 5.4 | | |
| Shantou, China | 104 | 4.5 | | |
| Shatt al Arab, Iraq | 336 | 5.7 | | |
| Singapore, Malaysia | 144 | 5.2 | | |
| Suez, Egypt | 364 | 3.7 | | |
| Surabaja Strait, Java | 160 | 3.6 | | |
| Suva, Suva Harbor | 256 | 2.15 | 2003 | 8 years (1990-1997) |
| Sydney, Australia | 288 | 3.0 | | |
| Tanggu, China | 68 | 7.9 | | |
| Townsville, Australia | 280 | 5.2 | | |
| Wake Island..... | 212 | 1.17 | 2002 | 5 years (1994-1998) |
| Wellington, New Zealand | 264 | 2.9 | | |
| Wusong, China..... | 84 | 6.6 | | |
| Xiamen, China..... | 100 | 10.8 | | |
| Yamato Wan, Matsuwa To..... | 12 | 2.6 | | |
| Yantai, China..... | 72 | 4.8 | | |
| Yokohama, Japan | 20 | 3.8 | | |
| Zhongjun, China..... | 88 | 7.4 | | |

*New Reference Station.

**Daily predictions for this station were omitted.

Each datum figure above represents the difference in elevation between the local mean sea (or river) level and the reference level from which the predicted heights in table 1 were calculated.

TABLE 1.—DAILY TIDE PREDICTIONS

EXPLANATION OF TABLE

This table contains the predicted times and heights of the high and low waters for each day of the year at a number of places which are designated as *reference stations*. By using tidal differences from table 2, one can calculate the approximate times and heights of the tide at many other places which are called *subordinate stations*. Instructions on the use of the tidal differences are found in the explanation of table 2.

High water is the maximum height reached by each rising tide, and low water is the minimum height reached by each falling tide. High and low waters can be selected from the predictions by the comparison of consecutive heights. Because of diurnal inequality at certain places, however, there may be a difference of only a few tenths of a foot between one high water and low water of a day, but a marked difference in height between the other high water and low water. Therefore, in using the Tide Tables it is essential, to note carefully the heights as well as the times of the tides.

Time.— The kind of time used for the predictions at each reference station is indicated by the time meridian at the bottom of each page.

Datum.— The datum from which the predicted heights are reckoned is the same as that used for the charts of the locality. In this table a datum approximating to mean low water springs, Indian spring low water, or the lowest possible low water is generally use. The depression of the datum below mean sea level for each of the reference stations of this volume is given on the preceding page.

Depth of water.— The nautical charts published by the United States and other maritime nations show the depth of the water as referred to a low water datum corresponding to that from which the predicted tidal heights are reckoned. To find the actual depth of water at any time, the height of the tide should be added to the charted depth. If the height of the tide is negative—that is, if there is a minus sign (–) before the tabular height—the height should be subtracted from the charted depth. For any time between high and low water, the height of the tide may be estimated from the heights of the preceding and following tides, or table 3 may be used. The reference stations in table 1 contain the heights in centimeters as well as feet.

Variation in sea level.— Changes in winds and barometric conditions cause variations in sea level from day to day. In general, with onshore winds or a low barometer the heights of both the high and low waters will be higher than predicted, while with offshore winds or a high barometer they will be lower. There are also seasonal variations in sea level, but these variations have been included in the predictions for each station. At ocean stations the seasonal variation in sea level is usually less than half a foot.

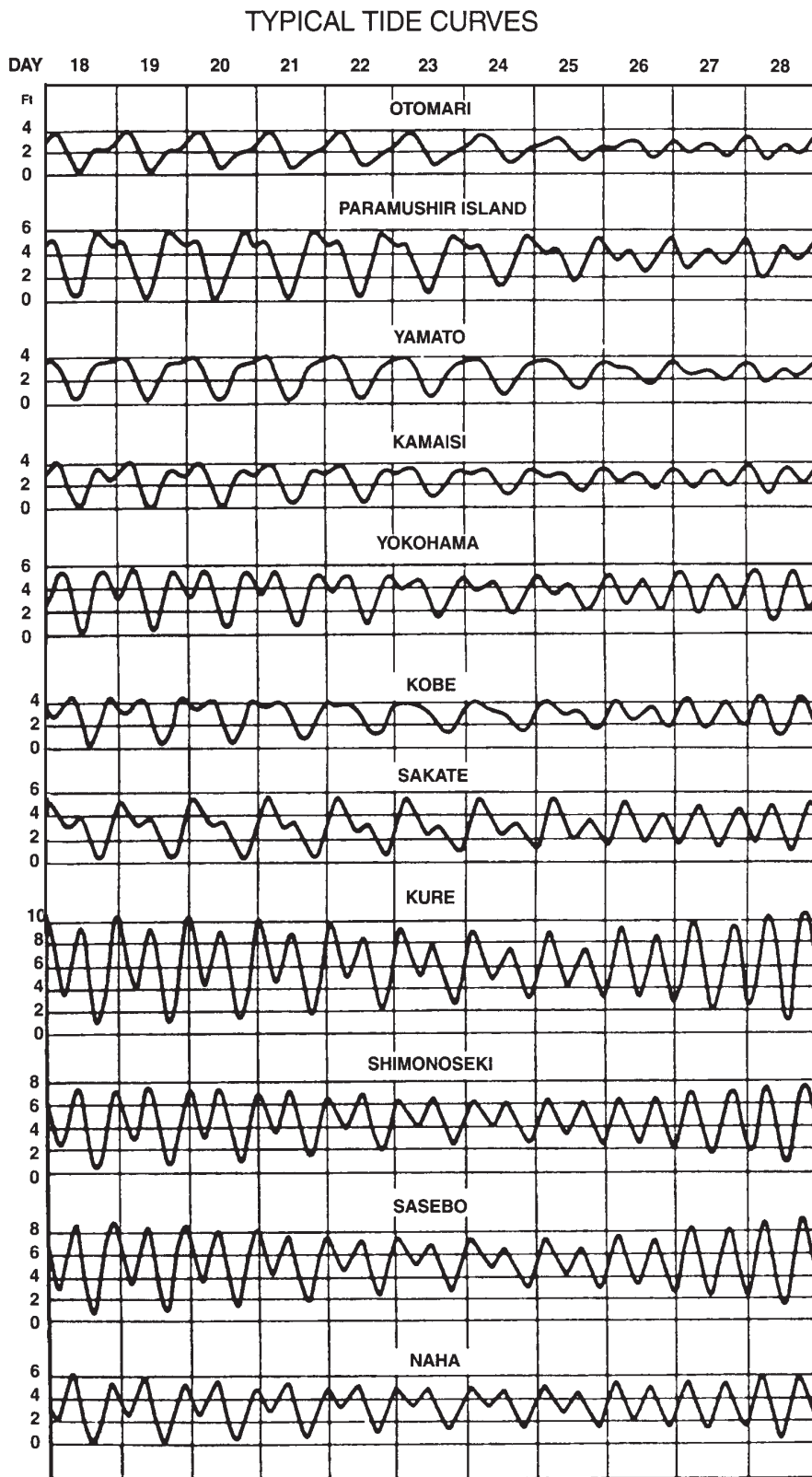
At stations on tidal rivers the average seasonal variation in river level due to freshets and droughts may be considerably more than a foot. The predictions for these stations include an allowance for this seasonal variation representing average freshet and drought conditions. Unusual freshets or droughts, however, will cause the tides to be higher or lower, respectively, than predicted.

Number of tides.— There are usually two high and two low waters in a day. Tides follow the Moon more closely than they do the Sun, and the lunar or tidal day is about 50 minutes longer than the solar day. This causes the tide to occur later each day, and a tide that has occurred near the end of one calendar day will be followed by a corresponding tide that may skip the next day and occur in the early morning of the third day. Thus, on certain days of each month only a single high or a single low water occurs. At some stations, during portions of each month, the tide becomes diurnal—that is, only one high and one low water will occur during the period of a lunar day.

Relation of tide to current.— In using these tables of tide predictions bear in mind that they give the times and heights of high and low waters and not the times of turning of the current or slack water. For stations on the outer coast there is usually a small difference between the time of high or low water and the beginning of ebb or flood current, but for places in narrow channels, landlocked harbors, or on tidal rivers,

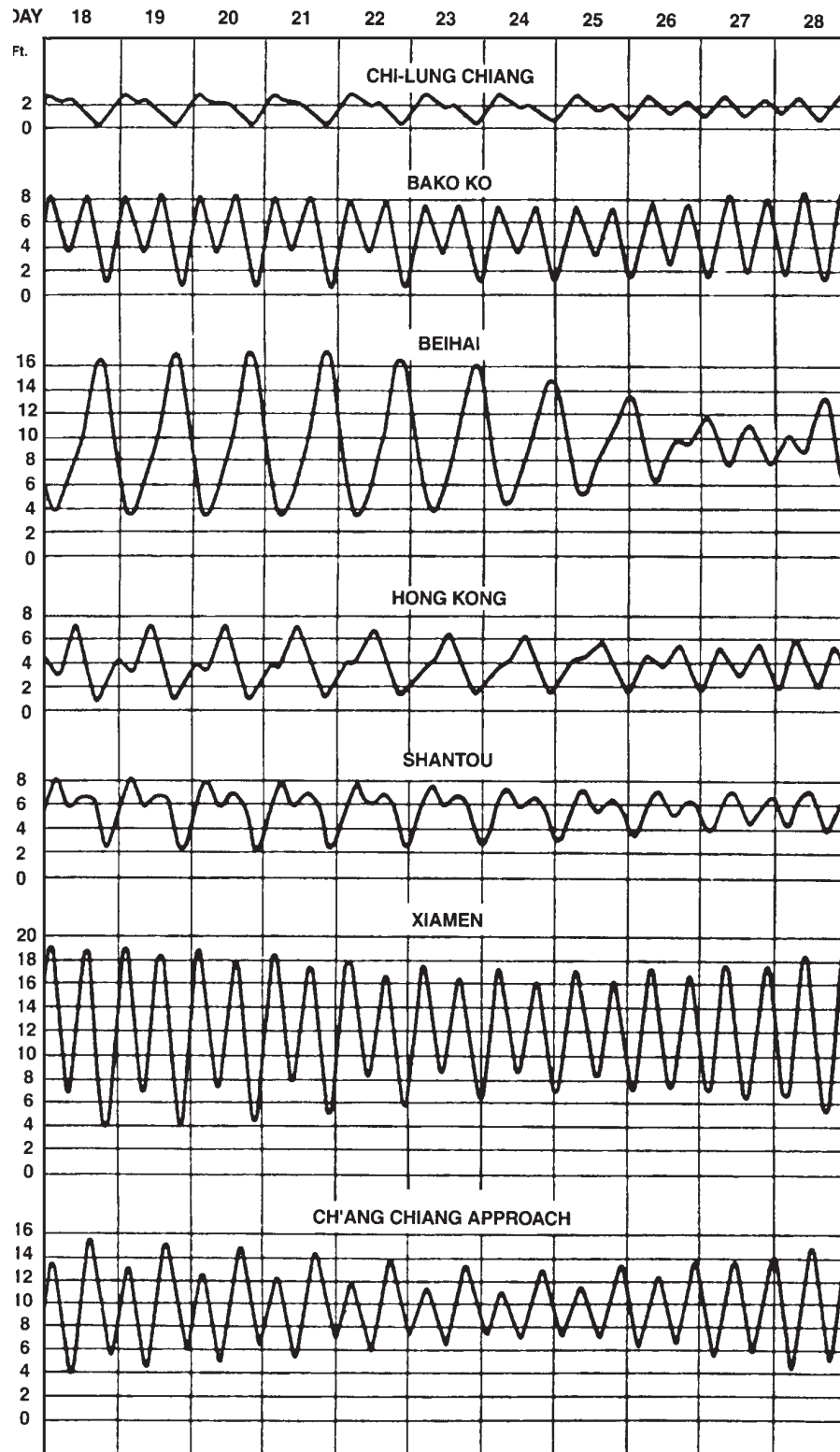
the time of slack water may differ by several hours from the time of high or low water stand. The relation of the times of high and low water to the turning of the current depends upon a number of factors, so no simple or general rule can be given. For the predicted time of slack water, and other current data, reference should be made to the Tidal Current Tables prepared by the National Ocean Service, for the Atlantic and the Pacific coast of North America and Asia.

Typical tide curves.— The principal variations in the tide are illustrated by the curves for 25 stations on pages 3, 3a and 3b. These stations are on the Japan and China coasts, but similar variations will be found in other localities. The tide at Pusan is uniformly semidiurnal with the variations following the Moon's phase. The tides for the remainder of the group exhibits considerable inequality. By reference to the curves it is seen that where the inequality is large the tide at some places becomes diurnal around the times of the Moon's maximum declination, whereas at other places there is just a few tenths of a foot difference between the heights of successive high and low waters. It is essential therefore in using tide tables to carefully note the heights as well as the times of the tide.



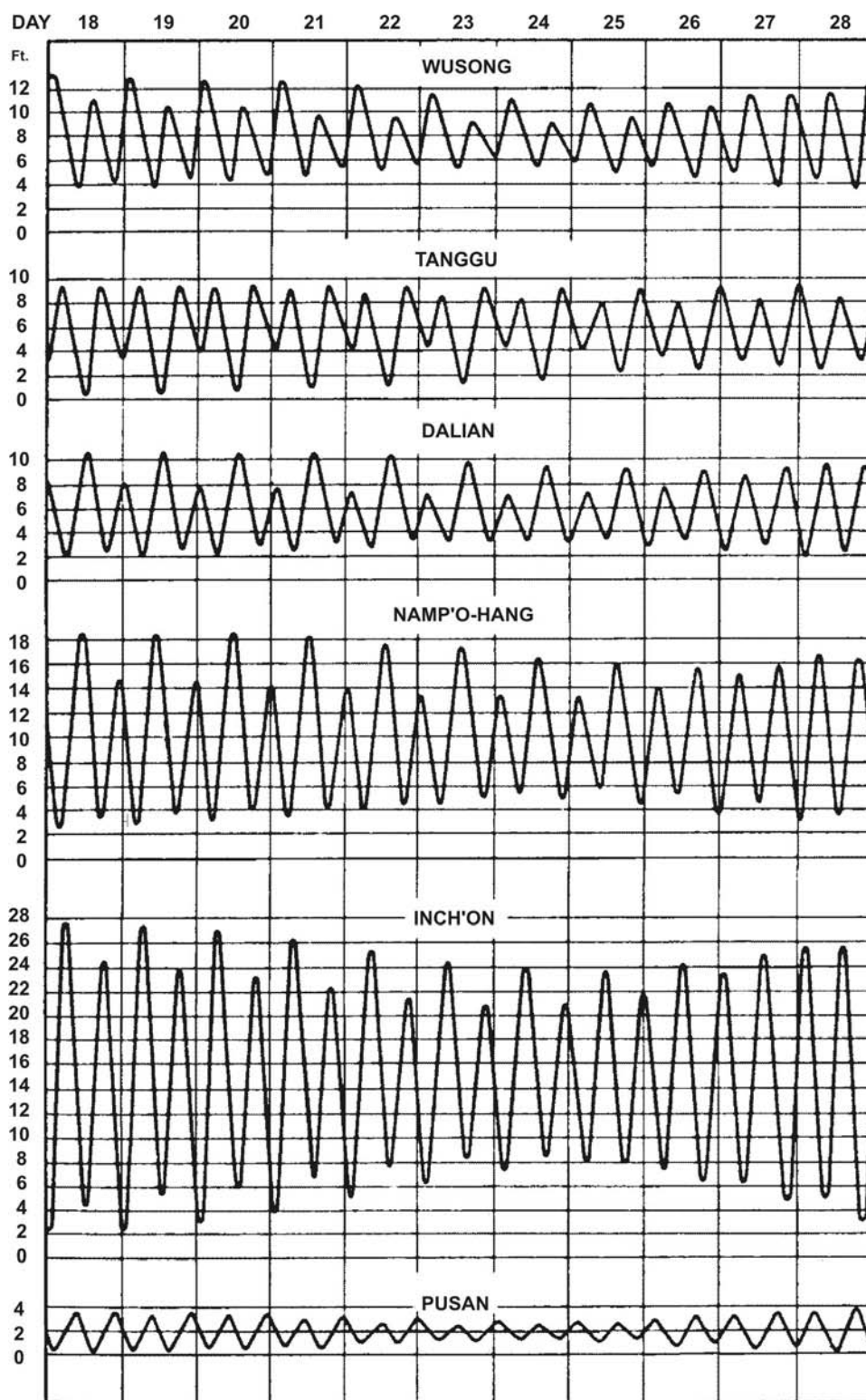
Lunar Data: On Equator, 12th; full Moon, 16th; maximum south declination, 20th; last quarter, 24th; on Equator, 27th; new Moon, 31st.

TYPICAL TIDE CURVES



Lunar Data: On Equator, 12th; full Moon, 16th; maximum south declination, 20th; last quarter, 24th; on Equator, 27th; new Moon, 31st.

TYPICAL TIDE CURVE



Lunar Data: On Equator, 12th; full Moon, 16th; maximum south declination, 20th; last quarter, 24th; on Equator, 27th; new Moon, 31st.

Otomari, Sakhalin Island, 2011

Times and Heights of High and Low Waters

| January | | | | February | | | | March | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|------|--------|-----|----------|-----------------|--------|-----|-------|----|-----------------|------|------|-----|--------|-----------------|------|-----|-----|----|-----------------|------|-----|-----|--|-----------------|------|-----|----|--|-----------------|------|-----|-----|--|
| Time | | Height | | Time | | Height | | Time | | Height | | Time | | Height | | | | | | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | | | | | | |
| 1 Sa | 1338 | 4.5 | 137 | | 16 Su | 2219 | 1.1 | 34 | | 1 Tu | 2345 | 0.8 | 24 | | 16 W | 2312 | 0.6 | 18 | | 1 Tu | 1435 | 3.8 | 116 | | 16 W | 2159 | 0.8 | 24 | | 16 W | 1327 | 3.6 | 110 | |
| 2 Su | 1438 | 4.7 | 143 | | 17 M | 2259 | 0.8 | 24 | | 2 W | 0637 | 2.5 | 76 | | 17 Th | 0607 | 2.4 | 73 | | 2 W | 0544 | 2.3 | 70 | | 17 Th | 0506 | 2.2 | 67 | | 17 Th | 0738 | 2.1 | 64 | |
| 3 M | 1534 | 4.8 | 146 | | 18 Tu | 2336 | 0.6 | 18 | | 3 Th | 0633 | 2.6 | 79 | | 18 F | 0601 | 2.6 | 79 | | 3 Th | 0830 | 2.2 | 67 | | 18 F | 0738 | 2.1 | 64 | | 18 F | 1449 | 3.7 | 113 | |
| 4 Tu | 1624 | 4.9 | 149 | | 19 W | 1605 | 4.8 | 146 | | 4 F | 0011 | 0.8 | 24 | | 19 Sa | 0612 | 2.8 | 85 | | 4 F | 0943 | 1.9 | 58 | | 19 Sa | 0918 | 1.7 | 52 | | 19 Sa | 1555 | 3.7 | 113 | |
| 5 W | 0028 | 0.6 | 18 | | 20 Th | 0709 | 2.6 | 79 | | 5 Sa | 0633 | 2.6 | 79 | | 20 Su | 0630 | 3.1 | 94 | | 5 Sa | 1623 | 3.8 | 116 | | 20 Su | 1120 | 0.8 | 24 | | 20 Su | 1746 | 3.4 | 104 | |
| 6 Th | 0100 | 0.7 | 21 | | 21 F | 0716 | 2.7 | 82 | | 6 Su | 0715 | 3.1 | 94 | | 21 M | 0653 | 3.5 | 107 | | 6 Su | 2335 | 1.0 | 30 | | 21 M | 1214 | 0.4 | 12 | | 21 M | 1838 | 3.1 | 94 | |
| 7 F | 0128 | 0.9 | 27 | | 22 Sa | 0731 | 2.9 | 88 | | 7 M | 1020 | 2.2 | 67 | | 22 Tu | 0720 | 3.8 | 116 | | 7 M | 0534 | 2.6 | 79 | | 22 Tu | 1306 | 0.3 | 9 | | 22 Tu | 2359 | 1.5 | 46 | |
| 8 Sa | 0154 | 1.1 | 34 | | 23 Su | 1249 | 2.0 | 61 | | 8 Tu | 1320 | 1.7 | 52 | | 23 W | 1401 | 1.0 | 30 | | 8 Tu | 1034 | 1.6 | 49 | | 23 W | 1929 | 2.7 | 82 | | 23 W | 0605 | 3.8 | 116 | |
| 9 Su | 0217 | 1.3 | 40 | | 24 M | 1352 | 1.9 | 58 | | 9 W | 1929 | 3.6 | 110 | | 24 Th | 2007 | 3.0 | 91 | | 9 W | 1234 | 1.1 | 34 | | 24 Th | 1850 | 3.2 | 98 | | 24 Th | 1306 | 0.3 | 9 | |
| 10 M | 0236 | 1.5 | 46 | | 25 Tu | 1502 | 1.8 | 55 | | 10 Th | 2002 | 3.2 | 98 | | 25 F | 2100 | 2.4 | 73 | | 10 Th | 1850 | 3.2 | 98 | | 25 F | 2022 | 2.3 | 70 | | 25 F | 1929 | 2.7 | 82 | |
| 11 Tu | 0251 | 1.8 | 55 | | 26 W | 1628 | 1.7 | 52 | | 11 F | 2002 | 3.2 | 98 | | 26 Sa | 2100 | 2.4 | 73 | | 11 F | 0042 | 1.5 | 46 | | 26 Sa | 2022 | 2.3 | 70 | | 26 Sa | 1929 | 2.7 | 82 | |
| 12 W | 0301 | 2.0 | 61 | | 27 Th | 1827 | 1.6 | 49 | | 12 Sa | 2036 | 2.8 | 85 | | 27 Su | 2209 | 2.0 | 61 | | 12 Sa | 0641 | 3.4 | 104 | | 27 Su | 2120 | 1.9 | 58 | | 27 Su | 1458 | 0.4 | 12 | |
| 13 Th | 0304 | 2.1 | 64 | | 28 F | 2040 | 1.4 | 43 | | 13 Su | 2036 | 2.8 | 85 | | 28 M | 2209 | 2.0 | 61 | | 13 Su | 1311 | 1.0 | 30 | | 28 M | 1957 | 2.7 | 82 | | 28 M | 1458 | 0.4 | 12 | |
| 14 F | 0245 | 2.2 | 67 | | 29 Sa | 2155 | 1.1 | 34 | | 14 M | 2114 | 2.5 | 76 | | 29 Tu | 2209 | 2.0 | 61 | | 14 M | 1504 | 1.0 | 30 | | 29 Tu | 1957 | 2.7 | 82 | | 29 Tu | 2120 | 1.9 | 58 | |
| 15 Sa | 1208 | 4.0 | 122 | | 30 Su | 2241 | 0.9 | 27 | | 15 Tu | 2114 | 2.5 | 76 | | 30 W | 2209 | 2.0 | 61 | | 15 Tu | 1504 | 1.0 | 30 | | 30 W | 2120 | 1.9 | 58 | | 30 W | 1458 | 0.4 | 12 | |
| | 2131 | 1.5 | 46 | | 31 M | 2316 | 4.4 | 134 | | | | | | | | | | | | 15 Tu | 1957 | 2.7 | 82 | | 31 Th | 2221 | 1.2 | 37 | | 31 Th | 1458 | 0.4 | 12 | |
| | | | | | | | | | | | | | | | | | | | | 15 Tu | 1957 | 2.7 | 82 | | 31 Th | 2221 | 1.2 | 37 | | 31 Th | 1458 | 0.4 | 12 | |

Time meridian 165° E. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to the chart datum of soundings.

O. Paramushiru (Zaliv Tukharka), Kuril Islands, 2011

Times and Heights of High and Low Waters

| January | | | | February | | | | March | | | | | | | | | | | | | | | | | | | |
|-----------------|--------|--------|-----|-----------------|--------|--------|-----|-----------------|--------|--------|-----|-----------------|--------|--------|-----|-----------------|--------|-----|-----|-----------------|--------|-----|-----|-----------------|--------|-----|-----|
| Time | | Height | | Time | | Height | | Time | | Height | | Time | | Height | | | | | | | | | | | | | |
| | h m | ft | cm | | h m | ft | cm | | h m | ft | cm | | h m | ft | cm | | | | | | | | | | | | |
| 1 Sa | 0331 | 4.8 | 146 | 16 Su | 1113 | 5.9 | 179 | 1 Tu | 0459 | 5.5 | 167 | 16 W | 0442 | 5.4 | 166 | 1 Tu | 0324 | 5.2 | 158 | 16 W | 0257 | 5.2 | 157 | | | | |
| | 0520 | 4.8 | 145 | | 1959 | 0.7 | 21 | | 0823 | 5.2 | 160 | | 0900 | 4.9 | 149 | | 0641 | 5.0 | 152 | | 0739 | 4.5 | 138 | | | | |
| | 1118 | 5.8 | 178 | | | | | | 1228 | 5.6 | 172 | | 1313 | 5.4 | 166 | | 1103 | 5.4 | 164 | | 1200 | 5.1 | 154 | 1200 | 5.1 | 154 | |
| | 1948 | 0.8 | 23 | | | | | | 2104 | 0.7 | 20 | | 2118 | 1.0 | 31 | | 1940 | 1.3 | 40 | | 1940 | 1.3 | 40 | 1953 | 1.7 | 52 | |
| 2 Su | 0438 | 5.2 | 159 | 17 M | 0502 | 5.4 | 165 | 2 W | 0521 | 5.6 | 172 | 17 Th | 0504 | 5.5 | 168 | 2 W | 0355 | 5.3 | 161 | 17 Th | 0328 | 5.2 | 158 | 17 Th | 0842 | 4.1 | 124 |
| | 0701 | 5.1 | 156 | | 0734 | 5.3 | 162 | | 0939 | 5.0 | 152 | | 0955 | 4.5 | 137 | | 0819 | 4.7 | 144 | | 0842 | 4.1 | 124 | | | | |
| | 1201 | 5.8 | 177 | | 1204 | 5.8 | 177 | | 1345 | 5.5 | 169 | | 1434 | 5.4 | 165 | | 1239 | 5.2 | 160 | | 1340 | 5.1 | 154 | | 1340 | 5.1 | 154 |
| | 2038 | 0.4 | 13 | | 2050 | 0.5 | 14 | | 2152 | 0.7 | 20 | | 2205 | 1.1 | 34 | | 2039 | 1.4 | 42 | | 2051 | 1.9 | 57 | | 2051 | 1.9 | 57 |
| 3 M | 0520 | 5.5 | 169 | 18 Tu | 0529 | 5.6 | 172 | 3 Th | 0543 | 5.7 | 174 | 18 F | 0525 | 5.5 | 169 | 3 Th | 0419 | 5.3 | 163 | 18 F | 0353 | 5.2 | 159 | 18 F | 0928 | 3.5 | 108 |
| | 0839 | 5.3 | 161 | | 0911 | 5.3 | 161 | | 1031 | 4.6 | 141 | | 1038 | 4.0 | 122 | | 0919 | 4.3 | 131 | | 0928 | 3.5 | 108 | | | | |
| | 1249 | 5.8 | 177 | | 1307 | 5.7 | 174 | | 1458 | 5.5 | 168 | | 1544 | 5.4 | 166 | | 1409 | 5.2 | 160 | | 1500 | 5.2 | 159 | | 1500 | 5.2 | 159 |
| | 2125 | 0.2 | 6 | | 2138 | 0.3 | 10 | | ● 2236 | 0.8 | 23 | | ○ 2248 | 1.3 | 41 | | 2131 | 1.5 | 46 | | 2142 | 2.1 | 64 | | 2142 | 2.1 | 64 |
| 4 Tu | 0553 | 5.8 | 177 | 19 W | 0554 | 5.8 | 177 | 4 F | 0604 | 5.7 | 175 | 19 Sa | 0546 | 5.6 | 170 | 4 F | 0442 | 5.4 | 164 | 19 Sa | 0416 | 5.2 | 160 | 19 Sa | 1008 | 3.0 | 90 |
| | 0955 | 5.3 | 161 | | 1017 | 5.1 | 155 | | 1113 | 4.2 | 128 | | 1117 | 3.5 | 106 | | 1503 | 3.8 | 115 | | 1606 | 5.4 | 165 | | 1606 | 5.4 | 165 |
| | 1346 | 5.7 | 175 | | 1416 | 5.6 | 172 | | 1605 | 5.5 | 167 | | 1646 | 5.5 | 168 | | 1523 | 5.3 | 163 | | 2228 | 2.4 | 72 | | 2228 | 2.4 | 72 |
| | ● 2209 | 0.1 | 2 | | 2223 | 0.3 | 10 | | 2317 | 1.0 | 31 | | 2328 | 1.6 | 50 | | 2217 | 1.7 | 52 | | 2217 | 1.7 | 52 | | 2217 | 1.7 | 52 |
| 5 W | 0622 | 5.9 | 181 | 20 Th | 0617 | 5.9 | 179 | 5 Sa | 0625 | 5.7 | 175 | 20 Su | 0606 | 5.6 | 170 | 5 Sa | 0503 | 5.4 | 165 | 20 Su | 0439 | 5.3 | 162 | 20 Su | 1045 | 2.4 | 73 |
| | 1053 | 5.1 | 155 | | 1106 | 4.8 | 145 | | 1153 | 3.7 | 113 | | 1155 | 3.0 | 90 | | 1042 | 3.2 | 98 | | 1074 | 5.6 | 170 | | 1074 | 5.6 | 170 |
| | 1446 | 5.6 | 172 | | 1522 | 5.5 | 169 | | 1705 | 5.4 | 166 | | 1743 | 5.5 | 168 | | 1626 | 5.5 | 167 | | 2308 | 2.7 | 82 | | 2308 | 2.7 | 82 |
| | 2251 | 0.1 | 3 | | ○ 2304 | 0.5 | 15 | | 2355 | 1.4 | 42 | | 2355 | 1.4 | 42 | | ● 2259 | 2.0 | 60 | | ○ 2308 | 2.7 | 82 | | ○ 2308 | 2.7 | 82 |
| 6 Th | 0648 | 6.0 | 183 | 21 F | 0640 | 5.9 | 179 | 6 Su | 0646 | 5.7 | 175 | 21 M | 0005 | 2.0 | 62 | 6 Su | 0524 | 5.4 | 166 | 21 M | 0501 | 5.4 | 164 | 21 M | 1123 | 1.9 | 57 |
| | 1140 | 4.8 | 147 | | 1149 | 4.3 | 132 | | 1232 | 3.2 | 98 | | 0627 | 5.6 | 172 | | 1120 | 2.7 | 82 | | 1123 | 1.9 | 57 | | | | |
| | 1546 | 5.5 | 169 | | 1625 | 5.5 | 167 | | 1803 | 5.4 | 164 | | 1234 | 2.5 | 75 | | 1723 | 5.6 | 170 | | 1757 | 5.7 | 173 | | 1757 | 5.7 | 173 |
| | 2332 | 0.3 | 8 | | 2344 | 0.8 | 23 | | | | | | 1838 | 5.4 | 166 | | 2337 | 2.3 | 71 | | 2346 | 3.1 | 93 | | 2346 | 3.1 | 93 |
| 7 F | 0713 | 6.0 | 183 | 22 Sa | 0702 | 5.9 | 179 | 7 M | 0031 | 1.8 | 55 | 22 Tu | 0039 | 2.5 | 77 | 7 M | 0545 | 5.5 | 168 | 22 Tu | 0523 | 5.5 | 167 | 22 Tu | 1201 | 1.4 | 44 |
| | 1223 | 4.5 | 136 | | 1229 | 3.9 | 119 | | 0707 | 5.7 | 175 | | 0648 | 5.7 | 173 | | 1158 | 2.2 | 66 | | 1201 | 1.4 | 44 | | | | |
| | 1646 | 5.4 | 165 | | 1725 | 5.3 | 163 | | 1312 | 2.7 | 83 | | 1314 | 2.0 | 62 | | 1817 | 5.6 | 171 | | 1848 | 5.7 | 174 | | 1848 | 5.7 | 174 |
| | | | | | | | | | 1900 | 5.2 | 160 | | 1933 | 5.3 | 162 | | | | | | | | | | | | |
| 8 Sa | 0011 | 0.6 | 18 | 23 Su | 0022 | 1.1 | 35 | 8 Tu | 0105 | 2.3 | 71 | 23 W | 0112 | 3.0 | 92 | 8 Tu | 0013 | 2.8 | 84 | 23 W | 0021 | 3.4 | 105 | 23 W | 0547 | 5.6 | 170 |
| | 0737 | 5.9 | 181 | | 0724 | 5.8 | 178 | | 0728 | 5.8 | 176 | | 0710 | 5.7 | 175 | | 0606 | 5.6 | 170 | | 0547 | 5.6 | 170 | | | | |
| | 1306 | 4.0 | 123 | | 1310 | 3.4 | 104 | | 1354 | 2.3 | 70 | | 1356 | 1.7 | 52 | | 1236 | 1.7 | 53 | | 1240 | 1.1 | 34 | | 1240 | 1.1 | 34 |
| | 1746 | 5.2 | 159 | | 1824 | 5.2 | 159 | | 2000 | 5.1 | 154 | | 2032 | 5.2 | 157 | | 1910 | 5.5 | 169 | | 1940 | 5.6 | 172 | | 1940 | 5.6 | 172 |
| 9 Su | 0048 | 1.0 | 32 | 24 M | 0058 | 1.7 | 51 | 9 W | 0138 | 2.9 | 88 | 24 Th | 0144 | 3.5 | 107 | 9 W | 0047 | 3.2 | 97 | 24 Th | 0055 | 3.8 | 116 | 24 Th | 0612 | 5.7 | 173 |
| | 0801 | 5.9 | 180 | | 0745 | 5.8 | 178 | | 0750 | 5.8 | 178 | | 0733 | 5.8 | 177 | | 0629 | 5.7 | 173 | | 0612 | 5.7 | 173 | | | | |
| | 1349 | 3.6 | 109 | | 1352 | 3.0 | 90 | | 1439 | 1.9 | 59 | | 1442 | 1.4 | 44 | | 1317 | 1.4 | 43 | | 1320 | 0.9 | 28 | | 1320 | 0.9 | 28 |
| | 1847 | 5.0 | 153 | | 1925 | 5.0 | 153 | | 2105 | 4.9 | 148 | | 2139 | 5.0 | 152 | | 2004 | 5.4 | 166 | | 2034 | 5.5 | 169 | | 2034 | 5.5 | 169 |
| 10 M | 0125 | 1.6 | 48 | 25 Tu | 0132 | 2.2 | 68 | 10 Th | 0209 | 3.4 | 105 | 25 F | 0214 | 4.0 | 121 | 10 Th | 0120 | 3.6 | 111 | 25 F | 0130 | 4.1 | 126 | 25 F | 0639 | 5.7 | 174 |
| | 0823 | 5.9 | 179 | | 0807 | 5.8 | 178 | | 0813 | 5.9 | 179 | | 0759 | 5.8 | 178 | | 0653 | 5.7 | 175 | | 0639 | 5.7 | 174 | | | | |
| | 1434 | 3.1 | 94 | | 1437 | 2.5 | 76 | | 1528 | 1.6 | 50 | | 1532 | 1.3 | 40 | | 1359 | 1.2 | 37 | | 1404 | 0.9 | 26 | | 1404 | 0.9 | 26 |
| | 1951 | 4.8 | 145 | | 2029 | 4.8 | 146 | | 2222 | 4.7 | 143 | | ● 2259 | 4.9 | 148 | | 2103 | 5.3 | 161 | | 2132 | 5.4 | 164 | | 2132 | 5.4 | 164 |
| 11 Tu | 0200 | 2.2 | 67 | 26 W | 0204 | 2.8 | 86 | 11 F | 0238 | 4.0 | 121 | 26 Sa | 0245 | 4.4 | 134 | 11 F | 0152 | 4.0 | 123 | 26 Sa | 0206 | 4.4 | 135 | 26 Sa | 0708 | 5.7 | 173 |
| | 0846 | 5.8 | 178 | | 0830 | 5.9 | 179 | | 0839 | 5.9 | 180 | | 0828 | 5.8 | 178 | | 0719 | 5.8 | 176 | | 0708 | 5.7 | 173 | | | | |
| | 1523 | 2.6 | 80 | | 1525 | 2.1 | 64 | | 1622 | 1.4 | 43 | | 1627 | 1.2 | 38 | | 1446 | 1.1 | 34 | | 1451 | 1.0 | 29 | | 1451 | 1.0 | 29 |
| | 2104 | 4.5 | 138 | | ● 2144 | 4.6 | 140 | | ● 2144 | 4.6 | 140 | | ● 2144 | 4.6 | 140 | | 2211 | 5.1 | 156 | | ● 2238 | 5.2 | 160 | | ● 2238 | 5.2 | 160 |
| 12 W | 0233 | 2.9 | 87 | 27 Th | 0235 | 3.4 | 105 | 12 Sa | 0000 | 4.7 | 142 | 27 Su | 0041 | 4.9 | 148 | 12 Sa | 0225 | 4.4 | 134 | 27 Su | 0249 | 4.6 | 141 | 27 Su | 0743 | 5.5 | 169 |
| | 0910 | 5.8 | 178 | | 0854 | 5.9 | 180 | | 0306 | 4.4 | 135 | | 0322 | 4.7 | 144 | | 0748 | 5.7 | 175 | | 0743 | 5.5 | 169 | | | | |
| | 1614 | 2.2 | 66 | | 1618 | 1.7 | 53 | | 0909 | 5.9 | 180 | | 0903 | 5.7 | 175 | | 1537 | 1.1 | 35 | | 1543 | 1.1 | 35 | | 1543 | 1.1 | 35 |
| | ● 2231 | 4.4 | 133 | | 2315 | 4.5 | 137 | | 1721 | 1.2 | 38 | | 1729 | 1.2 | 38 | | 2331 | 5.0 | 153 | | 2351 | 5.2 | 157 | | 2351 | 5.2 | 157 |
| 13 Th | 0306 | 3.5 | 106 | 28 F | 0304 | 4.0 | 122 | 13 Su | 0945 | 5.8 | 178 | 28 M | 0229 | 5.0 | 153 | 13 Su | 0306 | 4.7 | 142 | 28 M | 0350 | 4.7 | 144 | 28 M | 0828 | 5.3 | 163 |
| | 0935 | 5.9 | 179 | | 0920 | 5.9 | 180 | | 1824 | 1.1 | 35 | | 0432 | 5.0 | 151 | | 0822 | 5.6 | 172 | | 0828 | 5.3 | 163 | | | | |
| | 1710 | 1.7 | 53 | | 1715 | 1.4 | 43 | | | | | | 0951 | 5.6 | 170 | | 1634 | 1.2 | 38 | | 1642 | 1.4 | 43 | | 1642 | 1.4 | 43 |
| | | | | | | | | | | | | | 1835 | 1.3 | 39 | | ● 2259 | 4.9 | 148 | | ● 2259 | 4.9 | 148 | | ● 2259 | 4.9 | 148 |
| 14 F | 0020 | 4.4 | 133 | 29 Sa | 0117 | 4.6 | 140 | 14 M | 1034 | 5.7 | 174 | 15 Tu | 0420 | 5.3 | 162 | 14 M | 0102 | 5.0 | 153 | 29 Tu | 0059 | 5.1 | | | | | |

O. Paramushiru (Zaliv Tukharka), Kuril Islands, 2011

Times and Heights of High and Low Waters

| April | | | | May | | | | June | | | | | | | | | | | | | | | | | | | | | |
|-----------------|------|-----|--------|-----|-----------------|------|-----|--------|----|-----------------|------|-----|--------|----|-----------------|------|------|-----|--|-----------------|------|------|-----|--|-----------------|------|------|-----|--|
| | Time | | Height | | | Time | | Height | | | Time | | Height | | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | | | | | | |
| 1 F | 0300 | 5.2 | 157 | | 16 Sa | 0232 | 5.1 | 156 | | 1 Su | 0205 | 5.2 | 159 | | 16 M | 0141 | 5.3 | 162 | | 1 W | 0158 | 5.5 | 169 | | 16 Th | 0152 | 5.6 | 170 | |
| | 0852 | 3.3 | 101 | | | 0858 | 2.5 | 76 | | | 0904 | 1.7 | 51 | | | 0910 | 1.0 | 30 | | | 0959 | 0.0 | 1 | | | 1009 | -0.2 | -6 | |
| | 1435 | 5.0 | 153 | | | 1522 | 5.1 | 155 | | | 1603 | 5.2 | 158 | | | 1641 | 5.3 | 163 | | | 1802 | 5.8 | 176 | | | 1823 | 5.8 | 177 | |
| | 2102 | 2.5 | 75 | | | 2111 | 3.1 | 95 | | | 2118 | 3.7 | 114 | | | 2125 | 4.3 | 131 | | | 2231 | 4.9 | 149 | | | 2249 | 5.0 | 152 | |
| 2 Sa | 0326 | 5.2 | 157 | | 17 Su | 0259 | 5.2 | 158 | | 2 M | 0234 | 5.3 | 161 | | 17 Tu | 0213 | 5.4 | 165 | | 2 Th | 0237 | 5.6 | 170 | | 17 F | 0240 | 5.5 | 169 | |
| | 0933 | 2.7 | 83 | | | 0938 | 1.9 | 57 | | | 0943 | 1.1 | 34 | | | 0950 | 0.5 | 15 | | | 1039 | -0.2 | -6 | | | 1051 | -0.3 | -9 | |
| | 1545 | 5.3 | 161 | | | 1624 | 5.4 | 164 | | | 1700 | 5.5 | 168 | | | 1733 | 5.6 | 172 | | | 1842 | 5.9 | 181 | | | 1857 | 5.9 | 180 | |
| | 2152 | 2.8 | 84 | | | 2201 | 3.4 | 104 | | | 2209 | 4.0 | 123 | | | 2218 | 4.5 | 138 | | | 2322 | 4.9 | 149 | | | 2339 | 4.9 | 148 | |
| 3 Su | 0350 | 5.2 | 159 | | 18 M | 0326 | 5.3 | 161 | | 3 Tu | 0303 | 5.4 | 164 | | 18 W | 0246 | 5.5 | 168 | | 3 F | 0319 | 5.5 | 169 | | 18 Sa | 0330 | 5.4 | 166 | |
| | 1012 | 2.1 | 64 | | | 1016 | 1.3 | 40 | | | 1022 | 0.6 | 19 | | | 1030 | 0.1 | 4 | | | 1119 | -0.3 | -8 | | | 1131 | -0.2 | -7 | |
| | 1644 | 5.5 | 168 | | | 1718 | 5.6 | 172 | | | 1750 | 5.8 | 176 | | | 1819 | 5.9 | 179 | | | 1920 | 6.0 | 183 | | | 1928 | 5.9 | 180 | |
| | 2237 | 3.1 | 93 | | | 2245 | 3.7 | 113 | | | 2254 | 4.3 | 131 | | | 2306 | 4.7 | 143 | | | | | | | | | | | |
| 4 M | 0414 | 5.3 | 162 | | 19 Tu | 0352 | 5.4 | 164 | | 4 W | 0333 | 5.5 | 167 | | 19 Th | 0321 | 5.5 | 169 | | 4 Sa | 0009 | 4.8 | 147 | | 19 Su | 0026 | 4.6 | 141 | |
| | 1049 | 1.6 | 48 | | | 1054 | 0.9 | 26 | | | 1101 | 0.3 | 9 | | | 1109 | -0.1 | -3 | | | 0403 | 5.5 | 167 | | | 0423 | 5.3 | 162 | |
| | 1737 | 5.7 | 174 | | | 1808 | 5.8 | 178 | | | 1837 | 5.9 | 181 | | | 1902 | 6.0 | 182 | | | 1159 | -0.2 | -6 | | | 1210 | 0.0 | 0 | |
| | 2317 | 3.4 | 103 | | | 2326 | 4.0 | 122 | | | 2337 | 4.5 | 137 | | | 2351 | 4.8 | 146 | | | 1955 | 6.0 | 182 | | | 1957 | 5.9 | 179 | |
| 5 Tu | 0439 | 5.4 | 165 | | 20 W | 0419 | 5.5 | 167 | | 5 Th | 0404 | 5.5 | 169 | | 20 F | 0358 | 5.5 | 169 | | 5 Su | 0056 | 4.7 | 142 | | 20 M | 0111 | 4.3 | 132 | |
| | 1127 | 1.1 | 34 | | | 1132 | 0.5 | 16 | | | 1139 | 0.1 | 2 | | | 1148 | -0.2 | -5 | | | 0451 | 5.3 | 162 | | | 0519 | 5.1 | 156 | |
| | 1828 | 5.8 | 177 | | | 1857 | 5.9 | 180 | | | 1923 | 6.0 | 182 | | | 1943 | 6.0 | 183 | | | 1239 | 0.1 | 2 | | | 1249 | 0.4 | 11 | |
| | 2355 | 3.7 | 113 | | | | | | | | | | | | | 2028 | 5.9 | 180 | | | 2025 | 5.8 | 177 | | | | | | |
| 6 W | 0504 | 5.5 | 168 | | 21 Th | 0005 | 4.3 | 130 | | 6 F | 0018 | 4.6 | 141 | | 21 Sa | 0036 | 4.8 | 145 | | 6 M | 0143 | 4.4 | 135 | | 21 Tu | 0158 | 4.0 | 121 | |
| | 1205 | 0.8 | 24 | | | 0448 | 5.6 | 170 | | | 0438 | 5.6 | 170 | | | 0438 | 5.5 | 167 | | | 0543 | 5.1 | 155 | | | 0618 | 4.9 | 148 | |
| | 1917 | 5.8 | 177 | | | 1211 | 0.3 | 10 | | | 1219 | 0.0 | 1 | | | 1228 | 0.0 | -1 | | | 1318 | 0.5 | 14 | | | 1328 | 0.9 | 26 | |
| | | | | | | 1944 | 5.9 | 180 | | | 2007 | 5.9 | 181 | | | 2022 | 6.0 | 182 | | | 2059 | 5.8 | 177 | | | 2051 | 5.7 | 174 | |
| 7 Th | 0031 | 4.0 | 123 | | 22 F | 0043 | 4.5 | 136 | | 7 Sa | 0101 | 4.7 | 143 | | 22 Su | 0123 | 4.7 | 142 | | 7 Tu | 0234 | 4.1 | 124 | | 22 W | 0246 | 3.5 | 107 | |
| | 0530 | 5.6 | 171 | | | 0518 | 5.6 | 170 | | | 0514 | 5.5 | 168 | | | 0521 | 5.3 | 163 | | | 0642 | 4.8 | 146 | | | 0723 | 4.6 | 139 | |
| | 1244 | 0.6 | 19 | | | 1251 | 0.3 | 9 | | | 1259 | 0.2 | 5 | | | 1308 | 0.2 | 7 | | | 1358 | 1.0 | 30 | | | 1406 | 1.4 | 44 | |
| | 2008 | 5.7 | 175 | | | 2032 | 5.8 | 178 | | | 2050 | 5.9 | 179 | | | 2059 | 5.8 | 178 | | | 2129 | 5.7 | 173 | | | 2117 | 5.6 | 171 | |
| 8 F | 0107 | 4.3 | 131 | | 23 Sa | 0124 | 4.6 | 140 | | 8 Su | 0148 | 4.7 | 142 | | 23 M | 0213 | 4.5 | 136 | | 8 W | 0328 | 3.6 | 111 | | 23 Th | 0337 | 3.0 | 92 | |
| | 0558 | 5.6 | 172 | | | 0551 | 5.5 | 169 | | | 0554 | 5.3 | 163 | | | 0610 | 5.1 | 155 | | | 0751 | 4.5 | 136 | | | 0837 | 4.3 | 130 | |
| | 1326 | 0.6 | 18 | | | 1332 | 0.4 | 13 | | | 1341 | 0.5 | 14 | | | 1349 | 0.7 | 20 | | | 1439 | 1.6 | 49 | | | 1444 | 2.1 | 64 | |
| | 2100 | 5.6 | 172 | | | 2121 | 5.7 | 174 | | | 2133 | 5.7 | 175 | | | 2135 | 5.7 | 174 | | | 2157 | 5.6 | 170 | | | 2142 | 5.5 | 169 | |
| 9 Sa | 0145 | 4.5 | 137 | | 24 Su | 0210 | 4.6 | 141 | | 9 M | 0241 | 4.5 | 138 | | 24 Tu | 0309 | 4.2 | 127 | | 9 Th | 0424 | 3.1 | 96 | | 24 F | 0431 | 2.5 | 77 | |
| | 0629 | 5.6 | 171 | | | 0628 | 5.4 | 165 | | | 0640 | 5.1 | 156 | | | 0709 | 4.8 | 146 | | | 0915 | 4.2 | 127 | | | 1006 | 4.0 | 123 | |
| | 1409 | 0.7 | 21 | | | 1416 | 0.7 | 22 | | | 1424 | 0.9 | 27 | | | 1432 | 1.2 | 36 | | | 1521 | 2.3 | 69 | | | 1522 | 2.8 | 84 | |
| | 2156 | 5.5 | 167 | | | 2211 | 5.5 | 169 | | | 2214 | 5.6 | 170 | | | 2209 | 5.6 | 170 | | | 2225 | 5.5 | 168 | | | 2208 | 5.5 | 169 | |
| 10 Su | 0230 | 4.6 | 141 | | 25 M | 0306 | 4.6 | 140 | | 10 Tu | 0343 | 4.3 | 130 | | 25 W | 0410 | 3.8 | 115 | | 10 F | 0520 | 2.6 | 80 | | 25 Sa | 0526 | 2.0 | 61 | |
| | 0705 | 5.5 | 167 | | | 0713 | 5.2 | 157 | | | 0740 | 4.8 | 146 | | | 0823 | 4.4 | 135 | | | 1058 | 4.0 | 122 | | | 1153 | 4.0 | 122 | |
| | 1457 | 1.0 | 29 | | | 1504 | 1.1 | 34 | | | 1511 | 1.4 | 43 | | | 1517 | 1.8 | 55 | | | 1607 | 3.0 | 90 | | | 1603 | 3.4 | 105 | |
| | 2255 | 5.3 | 163 | | | 2259 | 5.4 | 165 | | | 2253 | 5.4 | 166 | | | 2241 | 5.5 | 167 | | | 2253 | 5.5 | 167 | | | 2235 | 5.5 | 169 | |
| 11 M | 0329 | 4.7 | 142 | | 26 Tu | 0416 | 4.4 | 134 | | 11 W | 0452 | 3.9 | 119 | | 26 Th | 0511 | 3.3 | 100 | | 11 Sa | 0615 | 2.0 | 62 | | 26 Su | 0621 | 1.4 | 44 | |
| | 0749 | 5.2 | 160 | | | 0814 | 4.9 | 148 | | | 0901 | 4.4 | 135 | | | 1000 | 4.1 | 126 | | | 1254 | 4.1 | 125 | | | 1354 | 4.2 | 129 | |
| | 1550 | 1.3 | 40 | | | 1557 | 1.6 | 48 | | | 1603 | 2.0 | 60 | | | 1607 | 2.4 | 74 | | | 1700 | 3.6 | 109 | | | 1651 | 4.0 | 123 | |
| | 2354 | 5.2 | 160 | | | 2345 | 5.3 | 162 | | | 2330 | 5.3 | 163 | | | 2312 | 5.4 | 164 | | | 2323 | 5.5 | 167 | | | 2305 | 5.5 | 169 | |
| 12 Tu | 0448 | 4.5 | 138 | | 27 W | 0534 | 4.0 | 123 | | 12 Th | 0558 | 3.4 | 104 | | 27 F | 0609 | 2.7 | 83 | | 12 Su | 0707 | 1.4 | 44 | | 27 M | 0714 | 1.0 | 29 | |
| | 0852 | 5.0 | 151 | | | 0944 | 4.5 | 138 | | | 1050 | 4.2 | 128 | | | 1154 | 4.1 | 124 | | | 1442 | 4.5 | 136 | | | 1540 | 4.7 | 142 | |
| | 1651 | 1.7 | 52 | | | 1658 | 2.1 | 64 | | | 1702 | 2.6 | 78 | | | 1703 | 3.1 | 94 | | | 1805 | 4.2 | 127 | | | 1800 | 4.6 | 139 | |
| | | | | | | | | | | | | | | | | 2343 | 5.3 | 163 | | | 2355 | 5.5 | 167 | | | 2340 | 5.6 | 170 | |
| 13 W | 0045 | 5.2 | 158 | | 28 Th | 0026 | 5.2 | 159 | | 13 F | 0005 | 5.3 | 161 | | 28 Sa | 0701 | 2.1 | 64 | | 13 M | 0756 | 0.9 | 27 | | 28 Tu | 0805 | 0.5 | 15 | |
| | 0616 | 4.2 | 128 | | | 0643 | 3.5 | 108 | | | 0655 | 2.8 | 86 | | | 1346 | 4.3 | 131 | | | 1603 | 4.9 | 149 | | | 1645 | 5.1 | 155 | |
| | 1030 | 4.7 | 142 | | | 1141 | 4.4 | 133 | | | 1247 | 4.3 | 130 | | | 1809 | 3.7 | 112 | | | 1924 | 4.6 | 140 | | | 1934 | 4.9 | 150 | |
| | 1758 | 2.1 | 64 | | | 1805 | 2.6 | 79 | | | 1809 | 3.1 | 95 | | | | | | | | | | | | | | | | |
| 14 Th | 0127 | 5.1 | 156 | | 29 F | 0102 | 5.2 | 158 | | 14 Sa | 0038 | 5.2 | 160 | | 29 Su | 0015 | 5.4 | 164 | | 14 Tu | 0030 | 5.5 | 169 | | 29 W | 0020 | 5.6 | 170 | |
| | 0725 | 3.7 | 113 | | | 0737 | 3.0 | 90 | | | 0744 | 2.2 | 66 | | | 0749 | 1.5 | 45 | | | 0842 | 0.4 | 13 | | | 0853 | 0.1 | 4 | |
| | 1227 | 4.6 | 140 | | | 1331 | 4.5 | 137 | | | 1425 | 4.6 | 139 | | | 1515 | 4.7 | 143 | | | 1700 | 5.3 | 161 | | | 1727 | 5.4 | 165 | |
| | 1909 | 2.5 | 75 | | | 1915 | 3.1 | 93 | | | 1919 | 3.6 | 110 | | | 1921 | 4.2 | 127 | | | 2042 | 4.9 | 149 | | | 2103 | 5.1 | 154 | |
| 15 F | 0202 | 5.1 | 156 | | 30 Sa | 0135 | 5.2 | 157 | | 15 Su | 0109 | 5.3 | 161 | | 30 M | 0047 | 5.4 | 165 | | 15 W | 0109 | | | | | | | | |

O. Paramushiru (Zaliv Tukharka), Kuril Islands, 2011

Times and Heights of High and Low Waters

| July | | | | August | | | | September | | | | | | | | | | | | | | | |
|---------------------|------|--------|-----|-----------------|------|--------|-----|-----------------|------|--------|-----|-----------------|------|--------|-----|-----------------|------|-----|-----|-----------------|------|-----|-----|
| Time | | Height | | Time | | Height | | Time | | Height | | Time | | Height | | | | | | | | | |
| | h m | ft | cm | | h m | ft | cm | | h m | ft | cm | | h m | ft | cm | | | | | | | | |
| 1 F ● | 0202 | 5.5 | 168 | 16 Sa | 0229 | 5.3 | 163 | 1 M | 0414 | 5.2 | 157 | 16 Tu | 0455 | 5.1 | 156 | 1 Th | 0012 | 1.9 | 58 | 16 F | 0015 | 1.2 | 36 |
| | 1022 | -0.2 | -7 | | 1035 | 0.0 | -1 | | 1128 | 0.6 | 17 | | 1139 | 1.2 | 36 | | 0626 | 5.2 | 158 | | 0658 | 5.3 | 162 |
| | 1832 | 5.7 | 175 | | 1830 | 5.6 | 171 | | 1840 | 5.4 | 166 | | 1822 | 5.3 | 161 | | 1224 | 2.3 | 70 | | 1232 | 3.0 | 92 |
| | 2307 | 4.9 | 148 | | 2320 | 4.5 | 136 | | | | | | | | | | 1823 | 5.2 | 160 | | 1803 | 5.2 | 160 |
| 2 Sa | 0259 | 5.4 | 165 | 17 Su | 0333 | 5.2 | 160 | 2 Tu | 0008 | 3.4 | 104 | 17 W | 0010 | 2.7 | 81 | 2 F | 0051 | 1.5 | 45 | 17 Sa | 0054 | 0.9 | 26 |
| | 1103 | -0.2 | -6 | | 1116 | 0.1 | 3 | | 0514 | 5.1 | 155 | | 0552 | 5.1 | 155 | | 0720 | 5.1 | 155 | | 0750 | 5.2 | 159 |
| | 1900 | 5.8 | 177 | | 1853 | 5.6 | 171 | | 1206 | 1.0 | 29 | | 1216 | 1.6 | 49 | | 1257 | 2.8 | 84 | | 1305 | 3.4 | 104 |
| | 2354 | 4.6 | 139 | | | | | | 1901 | 5.4 | 165 | | 1842 | 5.3 | 161 | | 1845 | 5.3 | 162 | | 1828 | 5.3 | 163 |
| 3 Su | 0357 | 5.3 | 162 | 18 M | 0003 | 4.1 | 124 | 3 W | 0047 | 2.9 | 89 | 18 Th | 0049 | 2.2 | 66 | 3 Sa | 0132 | 1.1 | 35 | 18 Su | 0136 | 0.7 | 21 |
| | 1143 | 0.0 | 0 | | 0435 | 5.2 | 157 | | 0613 | 5.0 | 151 | | 0648 | 5.0 | 152 | | 0816 | 5.0 | 151 | | 0846 | 5.1 | 155 |
| | 1926 | 5.8 | 176 | | 1155 | 0.4 | 12 | | 1242 | 1.4 | 43 | | 1250 | 2.1 | 63 | | 1330 | 3.2 | 98 | | 1339 | 3.8 | 115 |
| | | | | | 1916 | 5.6 | 171 | | 1922 | 5.4 | 165 | | 1903 | 5.3 | 163 | | 1909 | 5.4 | 164 | | 1854 | 5.4 | 164 |
| 4 M | 0038 | 4.2 | 129 | 19 Tu | 0044 | 3.6 | 110 | 4 Th | 0128 | 2.4 | 74 | 19 F | 0130 | 1.7 | 53 | 4 Su | 0216 | 0.9 | 28 | 19 M | 0220 | 0.6 | 19 |
| | 0456 | 5.2 | 157 | | 0535 | 5.0 | 152 | | 0711 | 4.8 | 146 | | 0745 | 4.9 | 148 | | 0918 | 4.8 | 146 | | 0948 | 4.9 | 150 |
| | 1222 | 0.3 | 10 | | 1233 | 0.8 | 25 | | 1316 | 1.9 | 59 | | 1323 | 2.6 | 79 | | 1401 | 3.6 | 111 | | 1414 | 4.1 | 124 |
| | 1951 | 5.7 | 174 | | 1938 | 5.5 | 169 | | 1943 | 5.4 | 166 | | 1925 | 5.4 | 165 | | 1934 | 5.4 | 165 | | 1924 | 5.3 | 163 |
| 5 Tu | 0121 | 3.8 | 116 | 20 W | 0126 | 3.1 | 96 | 5 F | 0211 | 2.0 | 61 | 20 Sa | 0213 | 1.4 | 43 | 5 M | 0304 | 0.8 | 25 | 20 Tu | 0309 | 0.7 | 21 |
| | 0555 | 4.9 | 150 | | 0634 | 4.8 | 147 | | 0812 | 4.6 | 140 | | 0846 | 4.7 | 142 | | 1030 | 4.6 | 141 | | 1059 | 4.8 | 147 |
| | 1300 | 0.8 | 24 | | 1309 | 1.3 | 40 | | 1349 | 2.5 | 77 | | 1354 | 3.1 | 95 | | 1434 | 4.0 | 123 | | 1457 | 4.3 | 131 |
| | 2015 | 5.6 | 172 | | 2000 | 5.5 | 169 | | 2005 | 5.5 | 167 | | 1949 | 5.4 | 166 | | 2004 | 5.4 | 165 | | 1959 | 5.2 | 160 |
| 6 W | 0205 | 3.3 | 102 | 21 Th | 0209 | 2.7 | 81 | 6 Sa | 0258 | 1.6 | 49 | 21 Su | 0300 | 1.1 | 35 | 6 Tu | 0357 | 0.8 | 25 | 21 W | 0403 | 0.9 | 26 |
| | 0657 | 4.7 | 143 | | 0736 | 4.6 | 140 | | 0921 | 4.4 | 134 | | 0956 | 4.5 | 137 | | 1158 | 4.6 | 139 | | 1217 | 4.8 | 145 |
| | 1336 | 1.3 | 41 | | 1343 | 1.9 | 58 | | 1419 | 3.1 | 94 | | 1424 | 3.6 | 110 | | 1514 | 4.3 | 132 | | 1600 | 4.4 | 135 |
| | 2038 | 5.6 | 171 | | 2022 | 5.5 | 168 | | 2029 | 5.5 | 168 | | 2015 | 5.5 | 167 | | 2039 | 5.3 | 162 | | 2044 | 5.1 | 154 |
| 7 Th | 0252 | 2.9 | 88 | 22 F | 0255 | 2.2 | 68 | 7 Su | 0348 | 1.3 | 40 | 22 M | 0352 | 1.0 | 30 | 7 W | 0456 | 0.9 | 28 | 22 Th | 0505 | 1.1 | 33 |
| | 0805 | 4.4 | 134 | | 0844 | 4.4 | 133 | | 1043 | 4.2 | 129 | | 1123 | 4.4 | 134 | | 1335 | 4.6 | 141 | | 1328 | 4.8 | 145 |
| | 1412 | 2.0 | 60 | | 1416 | 2.5 | 77 | | 1448 | 3.6 | 111 | | 1454 | 4.0 | 123 | | 1621 | 4.5 | 137 | | 1738 | 4.4 | 133 |
| | 2102 | 5.6 | 170 | | 2045 | 5.5 | 169 | | 2055 | 5.5 | 169 | | 2044 | 5.5 | 167 | | 2044 | 5.5 | 167 | | 2126 | 5.2 | 157 | 2154 | 4.8 | 146 |
| 8 F ● | 0342 | 2.4 | 73 | 23 Sa | 0345 | 1.8 | 55 | 8 M | 0443 | 1.0 | 32 | 23 Tu | 0449 | 0.9 | 27 | 8 Th | 0602 | 1.0 | 31 | 23 F | 0613 | 1.3 | 41 |
| | 0921 | 4.2 | 127 | | 1003 | 4.2 | 127 | | 1231 | 4.3 | 130 | | 1317 | 4.5 | 136 | | 1443 | 4.8 | 145 | | 1418 | 4.8 | 146 |
| | 1446 | 2.6 | 80 | | 1447 | 3.1 | 96 | | 1515 | 4.1 | 125 | | 1528 | 4.4 | 134 | | 1817 | 4.5 | 137 | | 1915 | 4.1 | 124 |
| | 2126 | 5.6 | 170 | | 2110 | 5.6 | 170 | | 2125 | 5.5 | 169 | | 2120 | 5.4 | 164 | | 2238 | 4.9 | 150 | | 2337 | 4.6 | 140 |
| 9 Sa | 0435 | 1.9 | 58 | 24 Su | 0439 | 1.4 | 43 | 9 Tu | 0543 | 0.9 | 26 | 24 W | 0552 | 0.9 | 26 | 9 F | 0710 | 1.1 | 34 | 24 Sa | 0722 | 1.6 | 48 |
| | 1054 | 4.0 | 123 | | 1142 | 4.1 | 125 | | 2202 | 5.5 | 167 | | 1505 | 4.7 | 142 | | 1521 | 4.8 | 147 | | 1453 | 4.8 | 147 |
| | 1520 | 3.3 | 100 | | 1517 | 3.7 | 113 | | 1646 | 4.6 | 141 | | 1646 | 4.6 | 141 | | 1956 | 4.2 | 129 | | 2020 | 3.6 | 110 |
| | 2151 | 5.6 | 170 | | 2136 | 5.6 | 170 | | | | | | 2209 | 5.2 | 160 | | | | | | | | |
| 10 Su | 0531 | 1.4 | 44 | 25 M | 0536 | 1.0 | 32 | 10 W | 0645 | 0.7 | 21 | 25 Th | 0657 | 0.8 | 25 | 10 Sa | 0019 | 4.8 | 145 | 25 Su | 0123 | 4.6 | 140 |
| | 1249 | 4.1 | 125 | | 1353 | 4.3 | 130 | | 2253 | 5.3 | 163 | | 1548 | 4.9 | 148 | | 0813 | 1.2 | 38 | | 0825 | 1.8 | 54 |
| | 1554 | 3.9 | 118 | | 1542 | 4.2 | 129 | | 1903 | 4.7 | 142 | | 1903 | 4.7 | 142 | | 1548 | 4.9 | 149 | | 1521 | 4.8 | 147 |
| | 2219 | 5.6 | 170 | | 2207 | 5.6 | 170 | | 2323 | 5.1 | 154 | | 2323 | 5.1 | 154 | | 2057 | 3.8 | 115 | | 2107 | 3.1 | 93 |
| 11 M | 0627 | 1.0 | 31 | 26 Tu | 0635 | 0.8 | 23 | 11 Th | 0746 | 0.6 | 17 | 26 F | 0759 | 0.8 | 25 | 11 Su | 0154 | 4.8 | 146 | 26 M | 0248 | 4.8 | 145 |
| | 1504 | 4.4 | 135 | | 2246 | 5.5 | 169 | | 1636 | 5.0 | 153 | | 1614 | 5.0 | 151 | | 0909 | 1.4 | 42 | | 0919 | 2.0 | 62 |
| | 1634 | 4.4 | 134 | | | | | | 1954 | 4.8 | 146 | | 2037 | 4.4 | 134 | | 1612 | 4.9 | 150 | | 1546 | 4.9 | 149 |
| | 2252 | 5.6 | 171 | | | | | | | | | | | | | | 2142 | 3.2 | 99 | | 2147 | 2.5 | 75 |
| 12 Tu | 0723 | 0.6 | 19 | 27 W | 0733 | 0.5 | 15 | 12 F | 0005 | 5.2 | 159 | 27 Sa | 0055 | 5.0 | 151 | 12 M | 0311 | 4.9 | 150 | 27 Tu | 0355 | 5.0 | 153 |
| | 1633 | 4.9 | 148 | | 1650 | 5.0 | 152 | | 0842 | 0.5 | 15 | | 0856 | 0.9 | 26 | | 0957 | 1.6 | 48 | | 1007 | 2.3 | 70 |
| | 1805 | 4.8 | 147 | | 1851 | 5.0 | 151 | | 1658 | 5.2 | 157 | | 1637 | 5.0 | 153 | | 1635 | 5.0 | 151 | | 1609 | 4.9 | 150 |
| | 2332 | 5.6 | 170 | | 2338 | 5.4 | 166 | | 2117 | 4.6 | 139 | | 2134 | 4.0 | 121 | | 2222 | 2.7 | 82 | | 2225 | 1.9 | 57 |
| 13 W | 0815 | 0.3 | 9 | 28 Th | 0828 | 0.3 | 9 | 13 Sa | 0128 | 5.1 | 156 | 28 Su | 0221 | 5.0 | 151 | 13 Tu | 0416 | 5.1 | 155 | 28 W | 0453 | 5.2 | 160 |
| | 1710 | 5.2 | 158 | | 1712 | 5.2 | 159 | | 0932 | 0.5 | 15 | | 0946 | 1.0 | 30 | | 1041 | 1.9 | 57 | | 1050 | 2.6 | 80 |
| | 2003 | 5.0 | 153 | | 2044 | 4.9 | 150 | | 1720 | 5.2 | 159 | | 1659 | 5.1 | 154 | | 1656 | 5.0 | 152 | | 1633 | 5.0 | 153 |
| | | | | | | | | | 2210 | 4.2 | 127 | | 2217 | 3.5 | 106 | | 2259 | 2.1 | 65 | | 2303 | 1.3 | 41 |
| 14 Th | 0023 | 5.5 | 168 | 29 F | 0045 | 5.3 | 163 | 14 Su | 0246 | 5.1 | 155 | 29 M | 0333 | 5.0 | 153 | 14 W | 0513 | 5.2 | 160 | 29 Th | 0546 | 5.4 | 165 |
| | 0905 | 0.1 | 2 | | 0918 | 0.2 | 6 | | 1018 | 0.6 | 19 | | 1030 | 1.2 | 36 | | 1121 | 2.2 | 67 | | 1129 | 3.0 | 90 |
| | 1739 | 5.4 | 166 | | 1734 | 5.3 | 163 | | 1741 | 5.2 | 160 | | 1720 | 5.1 | 155 | | 1718 | 5.1 | 155 | | 1656 | 5.1 | 156 |
| | 2131 | 5.0 | 152 | | 2155 | 4.7 | 143 | | 2253 | 3.7 | 112 | | 2256 | 2.9 | 89 | | 2337 | 1.6 | 49 | | 2340 | 0.9 | 28 |
| 15 F ○ | 0124 | 5.4 | 166 | 30 Sa | 0159 | 5.2 | 160 | 15 M | 0354 | 5.1 | 155 | 30 Tu | 0435 | 5.1 | 156 | 15 Th | 0606 | 5.3 | 162 | 30 F | 0637 | 5.5 | 167 |
| | 0951 | -0.1 | -2 | | 1005 | 0.2 | 6 | | 1100 | 0.9 | 26 | | 1111 | 1.5 | 45 | | 1157 | 2.6 | 79 | | 1206 | 3.3 | 101 |
| | 1805 | 5.6 | 170 | | 1757 | 5.4 | 165 | | 1801 | 5.2 | 160 | | 1740 | 5.1 | 156 | | 1740 | 5.2 | 157 | | 1721 | 5.2 | 160 |
| | 2232 | 4.8 | 146 | | 2245 | 4.3 | 132 | | 2332 | 3.2 | 97 | | | | | | | | | | | | </ |

Yamato Wan, Matsuwa To, Kuril Islands, 2011

Times and Heights of High and Low Waters

| January | | | | February | | | | March | | | | | | | | | | | | | | | | | | | | | |
|-----------------|--------|------|-----|----------|-----------------|------|-----|-------|--------|-----------------|------|------|--------|-----|-----------------|------|-----|-----|-----|-----------------|------|-----|-----|-----|-----------------|------|-----|-----|-----|
| Time | Height | | | Time | Height | | | Time | Height | | | Time | Height | | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | |
| 1 Sa | 1153 | 4.3 | 131 | 0 | 16 Su | 1109 | 4.0 | 122 | 0 | 1 Tu | 1323 | 4.1 | 125 | 9 | 16 W | 1233 | 4.0 | 122 | 0 | 1 Tu | 1150 | 3.8 | 116 | 24 | 16 W | 1035 | 3.8 | 116 | 24 |
| | 2115 | 0.4 | 12 | | | 2054 | 0.7 | 21 | | | 2241 | 0.3 | 9 | | | 2203 | 0.4 | 12 | | | 2130 | 0.8 | 24 | | | 2028 | 0.8 | 24 | |
| 2 Su | 1240 | 4.3 | 131 | 3 | 17 M | 1156 | 4.1 | 125 | 12 | 2 W | 1436 | 4.0 | 122 | 12 | 17 Th | 1404 | 4.0 | 122 | 12 | 2 W | 1333 | 3.7 | 113 | 27 | 17 Th | 1238 | 3.7 | 113 | 27 |
| | 2206 | 0.1 | 3 | | | 2143 | 0.4 | 12 | | | 2321 | 0.4 | 12 | | | 2246 | 0.4 | 12 | | | 2218 | 0.9 | 27 | | | 2125 | 0.9 | 27 | |
| 3 M | 1335 | 4.4 | 134 | 0 | 18 Tu | 1256 | 4.2 | 128 | 3 | 3 Th | 0759 | 3.3 | 101 | 101 | 18 F | 0701 | 3.3 | 101 | 94 | 3 Th | 0631 | 3.2 | 98 | 98 | 18 F | 0521 | 3.1 | 94 | 94 |
| | 2251 | 0.0 | 0 | | | 2228 | 0.1 | 3 | | | 1005 | 3.2 | 98 | | | 0946 | 3.1 | 94 | | | 0936 | 3.0 | 91 | | | 0902 | 2.9 | 88 | |
| | | | | | | | | | | | 1539 | 4.0 | 122 | | | 1525 | 4.0 | 122 | | | 1458 | 3.6 | 110 | | | 1431 | 3.6 | 110 | |
| | | | | | | | | | | | 2355 | 0.5 | 15 | | | 2325 | 0.5 | 15 | | | 2257 | 1.0 | 30 | | | 2212 | 1.1 | 34 | |
| 4 Tu | 1432 | 4.3 | 131 | 3 | 19 W | 1401 | 4.3 | 131 | 0 | 4 F | 0747 | 3.2 | 98 | 98 | 19 Sa | 0646 | 3.2 | 98 | 82 | 4 F | 0620 | 3.1 | 94 | 94 | 19 Sa | 0508 | 3.1 | 94 | 94 |
| | 2333 | -0.1 | -3 | | | 2309 | 0.0 | 0 | | | 1108 | 3.0 | 91 | | | 1054 | 2.7 | 82 | | | 1032 | 2.7 | 82 | | | 1006 | 2.4 | 73 | |
| | | | | | | | | | | | 1634 | 3.9 | 119 | | | 1636 | 3.9 | 119 | | | 1604 | 3.6 | 110 | | | 1559 | 3.6 | 110 | |
| | | | | | | | | | | | | | | | | | | | | | 2329 | 1.2 | 37 | | | 2252 | 1.4 | 43 | |
| 5 W | 1527 | 4.3 | 131 | 0 | 20 Th | 1505 | 4.3 | 131 | 0 | 5 Sa | 0025 | 0.7 | 21 | 21 | 20 Su | 0001 | 0.8 | 24 | 24 | 5 Sa | 0619 | 3.1 | 94 | 94 | 20 Su | 0510 | 3.2 | 98 | 98 |
| | | | | | | 2347 | 0.0 | 0 | | | 0747 | 3.2 | 98 | | | 0646 | 3.3 | 101 | | | 1113 | 2.4 | 73 | | | 1057 | 1.8 | 55 | |
| | | | | | | | | | | | 1155 | 2.8 | 85 | | | 1150 | 2.2 | 67 | | | 1700 | 3.6 | 110 | | | 1714 | 3.6 | 110 | |
| | | | | | | | | | | | 1724 | 3.7 | 113 | | | 1744 | 3.8 | 116 | | | 2357 | 1.4 | 43 | | | 2328 | 1.8 | 55 | |
| 6 Th | 0010 | 0.0 | 0 | 0 | 21 F | 0827 | 3.4 | 104 | 104 | 6 Su | 0051 | 0.9 | 27 | 27 | 21 M | 0032 | 1.2 | 37 | 37 | 6 Su | 0623 | 3.2 | 98 | 98 | 21 M | 0520 | 3.4 | 104 | 104 |
| | 1618 | 4.2 | 128 | | | 1027 | 3.3 | 101 | | | 0751 | 3.2 | 98 | | | 0654 | 3.4 | 104 | | | 1148 | 2.1 | 64 | | | 1145 | 1.2 | 37 | |
| | | | | | | 1608 | 4.3 | 131 | | | 1237 | 2.5 | 76 | | | 1243 | 1.7 | 52 | | | 1749 | 3.5 | 107 | | | 1823 | 3.6 | 110 | |
| | | | | | | | | | | | 1811 | 3.6 | 110 | | | 1850 | 3.6 | 110 | | | | | | | | 2357 | 2.2 | 67 | |
| 7 F | 0044 | 0.2 | 6 | 6 | 22 Sa | 0024 | 0.1 | 3 | 3 | 7 M | 0114 | 1.2 | 37 | 37 | 22 Tu | 0059 | 1.6 | 49 | 49 | 7 M | 0021 | 1.6 | 49 | 49 | 22 Tu | 0536 | 3.7 | 113 | 113 |
| | 0905 | 3.4 | 104 | 104 | | 0815 | 3.4 | 104 | 104 | | 0756 | 3.2 | 98 | 98 | | 0706 | 3.6 | 110 | 110 | | 0628 | 3.2 | 98 | 98 | | 1233 | 0.7 | 21 | 21 |
| | 1141 | 3.3 | 101 | 101 | | 1140 | 3.1 | 94 | 94 | | 1318 | 2.2 | 67 | 67 | | 1336 | 1.3 | 40 | 40 | | 1222 | 1.8 | 55 | 55 | | 1930 | 3.5 | 107 | 107 |
| | 1705 | 4.0 | 122 | 122 | | 1709 | 4.1 | 125 | 125 | | 1858 | 3.4 | 104 | 104 | | 1957 | 3.3 | 101 | 101 | | 1836 | 3.4 | 104 | 104 | | | | | |
| 8 Sa | 0115 | 0.4 | 12 | 12 | 23 Su | 0058 | 0.4 | 12 | 12 | 8 Tu | 0134 | 1.5 | 46 | 46 | 23 W | 0120 | 2.1 | 64 | 64 | 8 Tu | 0042 | 1.9 | 58 | 58 | 23 W | 0022 | 2.5 | 76 | 76 |
| | 0909 | 3.3 | 101 | 101 | | 0816 | 3.4 | 104 | 104 | | 0802 | 3.3 | 101 | 101 | | 0724 | 3.9 | 119 | 119 | | 0635 | 3.3 | 101 | 101 | | 0557 | 4.0 | 122 | 122 |
| | 1237 | 3.1 | 94 | 94 | | 1244 | 2.7 | 82 | 82 | | 1359 | 2.0 | 61 | 61 | | 1432 | 1.0 | 30 | 30 | | 1256 | 1.5 | 46 | 46 | | 1321 | 0.4 | 12 | 12 |
| | 1751 | 3.8 | 116 | 116 | | 1811 | 3.8 | 116 | 116 | | 1948 | 3.2 | 98 | 98 | | 2113 | 3.0 | 91 | 91 | | 1922 | 3.3 | 101 | 101 | | 2038 | 3.3 | 101 | 101 |
| 9 Su | 0143 | 0.7 | 21 | 21 | 24 M | 0128 | 0.8 | 24 | 24 | 9 W | 0150 | 1.8 | 55 | 55 | 24 Th | 0132 | 2.5 | 76 | 76 | 9 W | 0059 | 2.2 | 67 | 67 | 24 Th | 0039 | 2.8 | 85 | 85 |
| | 0915 | 3.3 | 101 | 101 | | 0823 | 3.4 | 104 | 104 | | 0811 | 3.4 | 104 | 104 | | 0747 | 4.1 | 125 | 125 | | 0644 | 3.4 | 104 | 104 | | 0623 | 4.2 | 128 | 128 |
| | 1331 | 2.8 | 85 | 85 | | 1346 | 2.3 | 70 | 70 | | 1443 | 1.8 | 55 | 55 | | 1531 | 0.8 | 24 | 24 | | 1331 | 1.3 | 40 | 40 | | 1411 | 0.3 | 9 | 9 |
| | 1837 | 3.5 | 107 | 107 | | 1916 | 3.5 | 107 | 107 | | 2044 | 2.9 | 88 | 88 | | 2254 | 2.8 | 85 | 85 | | 2011 | 3.2 | 98 | 98 | | 2155 | 3.2 | 98 | 98 |
| 10 M | 0208 | 1.0 | 30 | 30 | 25 Tu | 0155 | 1.3 | 40 | 40 | 10 Th | 0200 | 2.1 | 64 | 64 | 25 F | 0120 | 2.7 | 82 | 82 | 10 Th | 0112 | 2.4 | 73 | 73 | 25 F | 0046 | 3.0 | 91 | 91 |
| | 0923 | 3.3 | 101 | 101 | | 0835 | 3.6 | 110 | 110 | | 0822 | 3.6 | 110 | 110 | | 0815 | 4.2 | 128 | 128 | | 0656 | 3.6 | 110 | 110 | | 0653 | 4.3 | 131 | 131 |
| | 1425 | 2.6 | 79 | 79 | | 1450 | 1.8 | 55 | 55 | | 1533 | 1.6 | 49 | 49 | | 1637 | 0.7 | 21 | 21 | | 1409 | 1.2 | 37 | 37 | | 1505 | 0.3 | 9 | 9 |
| | 1927 | 3.3 | 101 | 101 | | 2030 | 3.1 | 94 | 94 | | 2155 | 2.7 | 82 | 82 | | | | | | | 2106 | 3.0 | 91 | 91 | | | | | |
| 11 Tu | 0228 | 1.4 | 43 | 43 | 26 W | 0214 | 1.8 | 55 | 55 | 11 F | 0157 | 2.4 | 73 | 73 | 26 Sa | 0849 | 4.3 | 131 | 131 | 11 F | 0118 | 2.6 | 79 | 79 | 26 Sa | 0727 | 4.3 | 131 | 131 |
| | 0931 | 3.3 | 101 | 101 | | 0851 | 3.8 | 116 | 116 | | 0837 | 3.7 | 113 | 113 | | 1752 | 0.7 | 21 | 21 | | 0712 | 3.7 | 113 | 113 | | 1603 | 0.5 | 15 | 15 |
| | 1524 | 2.3 | 70 | 70 | | 1559 | 1.5 | 46 | 46 | | 1632 | 1.4 | 43 | 43 | | | | | | | 1452 | 1.1 | 34 | 34 | | | | | |
| | 2025 | 2.9 | 88 | 88 | | 2203 | 2.7 | 82 | 82 | | | | | | | | | | | | 2221 | 2.9 | 88 | 88 | | | | | |
| 12 W | 0243 | 1.8 | 55 | 55 | 27 Th | 0218 | 2.2 | 67 | 67 | 12 Sa | 0858 | 3.8 | 116 | 116 | 27 Su | 0931 | 4.2 | 128 | 128 | 12 Sa | 0108 | 2.8 | 85 | 85 | 27 Su | 0805 | 4.1 | 125 | 125 |
| | 0940 | 3.4 | 104 | 104 | | 0913 | 4.0 | 122 | 122 | | 1742 | 1.2 | 37 | 37 | | 1914 | 0.8 | 24 | 24 | | 0732 | 3.8 | 116 | 116 | | 1709 | 0.7 | 21 | 21 |
| | 1628 | 2.1 | 64 | 64 | | 1713 | 1.1 | 34 | 34 | | | | | | | | | | | | 1544 | 1.0 | 30 | 30 | | | | | |
| | 2143 | 2.6 | 79 | 79 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 Th | 0248 | 2.1 | 64 | 64 | 28 F | 0941 | 4.2 | 128 | 128 | 13 Su | 0927 | 3.9 | 119 | 119 | 28 M | 1026 | 4.0 | 122 | 122 | 13 Su | 0758 | 3.9 | 119 | 119 | 28 M | 0849 | 3.9 | 119 | 119 |
| | 0953 | 3.6 | 110 | 110 | | 1832 | 0.9 | 27 | 27 | | 1900 | 1.0 | 30 | 30 | | 2030 | 0.8 | 24 | 24 | | 1646 | 1.0 | 30 | 30 | | 1823 | 1.0 | 30 | 30 |
| | 1739 | 1.8 | 55 | 55 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 F | 1011 | 3.7 | 113 | 113 | 29 Sa | 1017 | 4.3 | 131 | 131 | 14 M | 1007 | 4.0 | 122 | 122 | 14 M | 0831 | 4.0 | 122 | | | | | | | | | | | |

Yamato Wan, Matsuwa To, Kuril Islands, 2011

Times and Heights of High and Low Waters

| July | | | | August | | | | September | | | | | | | | | | | | | | | |
|-----------------|--------|------|-----|-----------------|--------|-----|-----|-----------------|--------|-----|------|-----------------|--------|------|-----|-----------------|------|-----|-----|-----------------|------|-----|-----|
| Time | Height | | | Time | Height | | | Time | Height | | | Time | Height | | | | | | | | | | |
| | h | m | cm | h | m | ft | cm | h | m | ft | cm | h | m | ft | cm | | | | | | | | |
| 1 F | 0203 | 4.2 | 128 | 16 Sa | 0305 | 4.3 | 131 | 1 M | 0353 | 4.1 | 125 | 16 Tu | 0518 | 3.7 | 113 | 1 Th | 0019 | 1.6 | 49 | 16 F | 0042 | 1.4 | 43 |
| | 1112 | 0.1 | 3 | | 1153 | 0.0 | 0 | | 1205 | 0.3 | 9 | | 1235 | 1.0 | 30 | | 0634 | 3.6 | 110 | | 0720 | 3.3 | 101 |
| ● | | | | | | | | | 1949 | 3.3 | 101 | | 1924 | 3.2 | 98 | | 1236 | 1.8 | 55 | | 1243 | 2.3 | 70 |
| 2 Sa | 0251 | 4.2 | 128 | 17 Su | 0402 | 4.2 | 128 | 2 Tu | 0454 | 4.0 | 122 | 17 W | 0025 | 2.4 | 73 | 2 F | 0109 | 1.2 | 37 | 17 Sa | 0116 | 1.2 | 37 |
| | 1149 | 0.0 | 0 | | 1229 | 0.2 | 6 | | 1238 | 0.5 | 15 | | 0608 | 3.6 | 110 | | 0742 | 3.4 | 104 | | 0809 | 3.2 | 98 |
| | | | | | 2045 | 3.3 | 101 | | 1949 | 3.3 | 101 | | 1300 | 1.3 | 40 | | 1258 | 2.2 | 67 | | 1257 | 2.5 | 76 |
| | | | | | 2329 | 3.2 | 98 | | | | | | 1930 | 3.2 | 98 | | 1851 | 3.9 | 119 | | 1832 | 3.6 | 110 |
| 3 Su | 0340 | 4.3 | 131 | 18 M | 0455 | 4.0 | 122 | 3 W | 0023 | 2.6 | 79 | 18 Th | 0105 | 2.1 | 64 | 3 Sa | 0202 | 0.8 | 24 | 18 Su | 0153 | 1.1 | 34 |
| | 1225 | 0.0 | 0 | | 1302 | 0.4 | 12 | | 0556 | 3.8 | 116 | | 0657 | 3.4 | 104 | | 0856 | 3.1 | 94 | | 0903 | 3.1 | 94 |
| | | | | | 2046 | 3.3 | 101 | | 1308 | 0.9 | 27 | | 1321 | 1.7 | 52 | | 1311 | 2.6 | 79 | | 1304 | 2.7 | 82 |
| | | | | | | | | | 1955 | 3.4 | 104 | | 1938 | 3.3 | 101 | | 1914 | 4.1 | 125 | | 1848 | 3.7 | 113 |
| 4 M | 0431 | 4.2 | 128 | 19 Tu | 0029 | 3.0 | 91 | 4 Th | 0121 | 2.2 | 67 | 19 F | 0145 | 1.8 | 55 | 4 Su | 0259 | 0.6 | 18 | 19 M | 0234 | 1.0 | 30 |
| | 1259 | 0.1 | 3 | | 0546 | 3.8 | 116 | | 0701 | 3.5 | 107 | | 0747 | 3.2 | 98 | | 1031 | 2.9 | 88 | | 1015 | 2.9 | 88 |
| | 2119 | 3.4 | 104 | | 1331 | 0.7 | 21 | | 1334 | 1.4 | 43 | | 1338 | 2.0 | 61 | | 1305 | 2.8 | 85 | | 1256 | 2.8 | 85 |
| | | | | | 2053 | 3.3 | 101 | | 2005 | 3.6 | 110 | | 1948 | 3.4 | 104 | | 1943 | 4.3 | 131 | | 1909 | 3.8 | 116 |
| 5 Tu | 0008 | 3.3 | 101 | 20 W | 0123 | 2.7 | 82 | 5 F | 0220 | 1.8 | 55 | 20 Sa | 0228 | 1.6 | 49 | 5 M | 0401 | 0.6 | 18 | 20 Tu | 0322 | 1.0 | 30 |
| | 0523 | 4.0 | 122 | | 0636 | 3.5 | 107 | | 0812 | 3.1 | 94 | | 0843 | 3.0 | 91 | | 2017 | 4.3 | 131 | | 1934 | 3.9 | 119 |
| | 1332 | 0.3 | 9 | | 1356 | 1.1 | 34 | | 1354 | 1.9 | 58 | | 1349 | 2.3 | 70 | ● | | | | | | | |
| | 2120 | 3.4 | 104 | | 2100 | 3.3 | 101 | | 2021 | 3.8 | 116 | | 2000 | 3.5 | 107 | | | | | | | | |
| 6 W | 0119 | 3.0 | 91 | 21 Th | 0216 | 2.5 | 76 | 6 Sa | 0323 | 1.4 | 43 | 21 Su | 0315 | 1.5 | 46 | 6 Tu | 0512 | 0.6 | 18 | 21 W | 0420 | 1.0 | 30 |
| | 0621 | 3.7 | 113 | | 0728 | 3.3 | 101 | | 0938 | 2.8 | 85 | | 0952 | 2.8 | 85 | | 2059 | 4.2 | 128 | | 2006 | 3.9 | 119 |
| | 1403 | 0.7 | 21 | | 1417 | 1.5 | 46 | ● | 1402 | 2.3 | 70 | | 1348 | 2.5 | 76 | | | | | ● | | | |
| | 2127 | 3.4 | 104 | | 2109 | 3.4 | 104 | | 2042 | 4.0 | 122 | | 2017 | 3.7 | 113 | | | | | | | | |
| 7 Th | 0230 | 2.6 | 79 | 22 F | 0310 | 2.2 | 67 | 7 Su | 0432 | 1.1 | 34 | 22 M | 0410 | 1.4 | 43 | 7 W | 0631 | 0.7 | 21 | 22 Th | 0530 | 1.0 | 30 |
| | 0726 | 3.4 | 104 | | 0827 | 3.0 | 91 | | 2109 | 4.2 | 128 | | 2039 | 3.8 | 116 | | 2153 | 4.1 | 125 | | 2049 | 3.8 | 116 |
| | 1431 | 1.2 | 37 | | 1433 | 1.8 | 55 | | | | | ● | | | | | | | | | | | |
| | 2137 | 3.6 | 110 | | 2120 | 3.5 | 107 | | | | | | | | | | | | | | | | |
| 8 F | 0345 | 2.2 | 67 | 23 Sa | 0409 | 2.0 | 61 | 8 M | 0547 | 0.8 | 24 | 23 Tu | 0516 | 1.2 | 37 | 8 Th | 0750 | 0.7 | 21 | 23 F | 0646 | 1.0 | 30 |
| | 0847 | 2.9 | 88 | | 0941 | 2.7 | 82 | | 2145 | 4.3 | 131 | | 2107 | 3.9 | 119 | | 2317 | 3.8 | 116 | | 2203 | 3.6 | 110 |
| | 1452 | 1.7 | 52 | ● | 1439 | 2.2 | 67 | | | | | | | | | | | | | | | | |
| | 2152 | 3.7 | 113 | ● | 2134 | 3.6 | 110 | | | | | | | | | | | | | | | | |
| 9 Sa | 0504 | 1.7 | 52 | 24 Su | 0514 | 1.7 | 52 | 9 Tu | 0706 | 0.6 | 18 | 24 W | 0632 | 1.1 | 34 | 9 F | 0856 | 0.8 | 24 | 24 Sa | 0756 | 1.0 | 30 |
| | 1042 | 2.5 | 76 | | 1145 | 2.5 | 76 | | 2231 | 4.3 | 131 | | 2148 | 3.9 | 119 | | | | | | | | |
| | 1456 | 2.2 | 67 | | 1410 | 2.4 | 73 | | | | | | | | | | | | | | | | |
| | 2212 | 4.0 | 122 | | 2152 | 3.7 | 113 | | | | | | | | | | | | | | | | |
| 10 Su | 0622 | 1.2 | 37 | 25 M | 0624 | 1.4 | 43 | 10 W | 0820 | 0.5 | 15 | 25 Th | 0747 | 0.9 | 27 | 10 Sa | 0107 | 3.6 | 110 | 25 Su | 0013 | 3.5 | 107 |
| | 2239 | 4.2 | 128 | | 2217 | 3.8 | 116 | | 2333 | 4.2 | 128 | | 2247 | 3.9 | 119 | | 0949 | 0.9 | 27 | | 0854 | 1.1 | 34 |
| | | | | | | | | | | | | | | | | | 1750 | 3.1 | 94 | | 1642 | 3.1 | 94 |
| | | | | | | | | | | | | | | | | | 2122 | 2.9 | 88 | | 2052 | 2.8 | 85 |
| 11 M | 0735 | 0.8 | 24 | 26 Tu | 0734 | 1.2 | 37 | 11 Th | 0923 | 0.4 | 12 | 26 F | 0850 | 0.8 | 24 | 11 Su | 0242 | 3.6 | 110 | 26 M | 0213 | 3.4 | 104 |
| | 2316 | 4.3 | 131 | | 2251 | 3.9 | 119 | | | | | | | | | 1031 | 1.1 | 34 | | 0943 | 1.3 | 40 | |
| | | | | | | | | | | | | | | | | 1743 | 3.1 | 94 | | 1633 | 3.1 | 94 | |
| | | | | | | | | | | | | | | | | 2218 | 2.6 | 79 | | 2149 | 2.3 | 70 | |
| 12 Tu | 0840 | 0.4 | 12 | 27 W | 0835 | 0.9 | 27 | 12 F | 0052 | 4.1 | 125 | 27 Sa | 0014 | 3.9 | 119 | 12 M | 0354 | 3.5 | 107 | 27 Tu | 0344 | 3.5 | 107 |
| | | | | | 2338 | 4.0 | 122 | | 1015 | 0.3 | 9 | | 0941 | 0.6 | 18 | | 1106 | 1.3 | 40 | | 1024 | 1.6 | 49 |
| | | | | | | | | | | | | | | | | 1746 | 3.1 | 94 | | 1635 | 3.2 | 98 | |
| | | | | | | | | | | | | | | | | ● | 2300 | 2.2 | 67 | ● | 2236 | 1.7 | 52 |
| 13 W | 0003 | 4.4 | 134 | 28 Th | 0927 | 0.6 | 18 | 13 Sa | 0213 | 4.0 | 122 | 28 Su | 0148 | 3.9 | 119 | 13 Tu | 0453 | 3.5 | 107 | 28 W | 0500 | 3.5 | 107 |
| | 0936 | 0.1 | 3 | | | | | | 1058 | 0.4 | 12 | | 1024 | 0.6 | 18 | | 1136 | 1.5 | 46 | | 1100 | 1.9 | 58 |
| | | | | | | | | | 1930 | 3.3 | 101 | | 1827 | 3.2 | 98 | | 1752 | 3.2 | 98 | | 1645 | 3.4 | 104 |
| | | | | | | | | | 2146 | 3.2 | 98 | | 2133 | 3.0 | 91 | | 2336 | 1.9 | 58 | | 2322 | 1.1 | 34 |
| 14 Th | 0100 | 4.4 | 134 | 29 F | 0038 | 4.1 | 125 | 14 Su | 0324 | 3.9 | 119 | 29 M | 0310 | 3.9 | 119 | 14 W | 0545 | 3.5 | 107 | 29 Th | 0609 | 3.6 | 110 |
| | 1027 | 0.0 | 0 | | 1012 | 0.4 | 12 | | 1135 | 0.6 | 18 | | 1103 | 0.7 | 21 | | 1202 | 1.8 | 55 | | 1130 | 2.3 | 70 |
| | | | | | | | | | 1918 | 3.2 | 98 | ● | 1814 | 3.2 | 98 | | 1759 | 3.3 | 101 | | 1701 | 3.7 | 113 |
| | | | | | | | | | 2253 | 2.9 | 88 | | ● | 2236 | 2.6 | 79 | | | | | | | |
| 15 F | 0203 | 4.4 | 134 | 30 Sa | 0144 | 4.1 | 125 | 15 M | 0424 | 3.8 | 116 | 30 Tu | 0422 | 3.8 | 116 | 15 Th | 0009 | 1.6 | 49 | 30 F | 0008 | 0.6 | 18 |
| | 1112 | -0.1 | -3 | | 1053 | 0.2 | 6 | | 1207 | 0.8 | 24 | | 1138 | 1.0 | 30 | | 0633 | 3.4 | 104 | | 0715 | 3.5 | 107 |
| ○ | | | | | | | | | 1919 | 3.2 | 98 | | 1814 | 3.2 | 98 | | 1224 | 2.1 | 64 | | 1155 | 2.7 | 82 |
| | | | | | | | | | 2343 | 2.6 | 79 | | 2328 | 2.1 | 64 | | 1808 | 3.3 | 101 | | 1723 | 4.0 | 122 |
| | | | | 31 Su | 0250 | 4.1 | 125 | 31 W | 0529 | 3.7 | 113 | | | | | | | | | | | | |
| | | | | | 1130 | 0.2 | 6 | | 1209 | 1.4 | 43</ | | | | | | | | | | | | |

Yamato Wan, Matsuwa To, Kuril Islands, 2011

Times and Heights of High and Low Waters

| October | | | | November | | | | December | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|--------|-----|-----|----------|-----------------|------|------|----------|--------|-----------------|------|------|--------|----|-----------------|------|------|-----|----|-----------------|------|------|-----|----|-----------------|------|------|-----|----|--|
| Time | Height | | | Time | Height | | | Time | Height | | | Time | Height | | | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | | |
| 1 Sa | 0055 | 0.3 | 9 | | 16 Su | 0053 | 0.7 | 21 | | 1 Tu | 0218 | -0.1 | -3 | | 16 W | 0149 | 0.3 | 9 | | 1 Th | 0240 | 0.3 | 9 | | 16 F | 0206 | 0.4 | 12 | | |
| | 0824 | 3.4 | 104 | | | 0839 | 3.3 | 101 | | | 1823 | 4.3 | 131 | | | 1744 | 4.0 | 122 | | | 1115 | 3.3 | 101 | | | 1020 | 3.4 | 104 | | |
| | 1213 | 3.0 | 91 | | | 1210 | 3.0 | 91 | | | | | | | | | | | | | 1348 | 3.2 | 98 | | | 1345 | 3.2 | 98 | | |
| | 1749 | 4.2 | 128 | | | 1728 | 3.8 | 116 | | | | | | | | | | | | | 1856 | 3.8 | 116 | | | 1831 | 3.7 | 113 | | |
| 2 Su | 0145 | 0.1 | 3 | | 17 M | 0128 | 0.6 | 18 | | 2 W | 0307 | 0.2 | 6 | | 17 Th | 0227 | 0.4 | 12 | | 2 F | 0318 | 0.8 | 24 | | 17 Sa | 0238 | 0.7 | 21 | | |
| | 0942 | 3.3 | 101 | | | 0938 | 3.2 | 98 | | | 1906 | 4.0 | 122 | | | 1820 | 3.9 | 119 | | | 1130 | 3.3 | 101 | | | 1028 | 3.4 | 104 | | |
| | 1220 | 3.1 | 94 | | | 1213 | 3.1 | 94 | | | | | | | | | | | | | 1530 | 3.0 | 91 | | | 1510 | 2.9 | 88 | | |
| | 1820 | 4.4 | 134 | | | 1750 | 3.9 | 119 | | | | | | | | | | | | | 1949 | 3.3 | 101 | | | 1932 | 3.3 | 101 | | |
| 3 M | 0237 | 0.1 | 3 | | 18 Tu | 0207 | 0.6 | 18 | | 3 Th | 0357 | 0.6 | 18 | | 18 F | 0307 | 0.6 | 18 | | 3 Sa | 0353 | 1.2 | 37 | | 18 Su | 0307 | 1.2 | 37 | | |
| | 1856 | 4.4 | 134 | | | 1815 | 3.9 | 119 | | | | | | | | | | | | | 1146 | 3.3 | 101 | | | 1038 | 3.5 | 107 | | |
| | | | | | | | | | | | | | | | | | | | | | | 1727 | 2.7 | 82 | | | 1642 | 2.5 | 76 | |
| | | | | | | | | | | | | | | | | | | | | | | 2103 | 2.9 | 88 | | | 2059 | 2.8 | 85 | |
| 4 Tu | 0333 | 0.3 | 9 | | 19 W | 0250 | 0.6 | 18 | | 4 F | 0450 | 1.0 | 30 | | 19 Sa | 0349 | 0.9 | 27 | | 4 Su | 0424 | 1.7 | 52 | | 19 M | 0332 | 1.7 | 52 | | |
| | 1935 | 4.2 | 128 | | | 1845 | 3.9 | 119 | | | 1352 | 3.2 | 98 | | | 1224 | 3.3 | 101 | | | 1202 | 3.3 | 101 | | | 1051 | 3.6 | 110 | | |
| | | | | | | | | | | | 1710 | 3.1 | 94 | | | 1630 | 3.1 | 94 | | | 1908 | 2.3 | 70 | | | 1810 | 1.9 | 58 | | |
| | | | | | | | | | | | 2057 | 3.2 | 98 | | | 2008 | 3.2 | 98 | | | 2327 | 2.5 | 76 | | | 2328 | 2.5 | 76 | | |
| 5 W | 0436 | 0.6 | 18 | | 20 Th | 0339 | 0.7 | 21 | | 5 Sa | 0545 | 1.4 | 43 | | 20 Su | 0433 | 1.3 | 40 | | 5 M | 0450 | 2.1 | 64 | | 20 Tu | 0341 | 2.2 | 67 | | |
| | 2019 | 4.0 | 122 | | | 1919 | 3.8 | 116 | | | 1355 | 3.2 | 98 | | | 1230 | 3.3 | 101 | | | 1220 | 3.4 | 104 | | | 1110 | 3.8 | 116 | | |
| | | | | | | | | | | | 1945 | 2.7 | 82 | | | 1841 | 2.6 | 79 | | | 2011 | 1.8 | 55 | | | 1925 | 1.3 | 40 | | |
| | | | | | | | | | | | 2323 | 2.8 | 85 | | | 2224 | 2.8 | 85 | | | | | | | | | | | | |
| 6 Th | 0545 | 0.8 | 24 | | 21 F | 0435 | 0.9 | 27 | | 6 Su | 0642 | 1.8 | 55 | | 21 M | 0518 | 1.8 | 55 | | 6 Tu | 1239 | 3.5 | 107 | | 21 W | 1136 | 4.0 | 122 | | |
| | 2119 | 3.6 | 110 | | | 2006 | 3.6 | 110 | | | 1406 | 3.2 | 98 | | | 1242 | 3.4 | 104 | | | 2056 | 1.4 | 43 | | | 2026 | 0.7 | 21 | | |
| | | | | | | | | | | | 2046 | 2.2 | 67 | | | 1954 | 2.0 | 61 | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 F | 0659 | 1.1 | 34 | | 22 Sa | 0538 | 1.1 | 34 | | 7 M | 0209 | 2.7 | 82 | | 22 Tu | 0140 | 2.6 | 79 | | 7 W | 1302 | 3.6 | 110 | | 22 Th | 1211 | 4.3 | 131 | | |
| | 1640 | 3.2 | 98 | | | 1510 | 3.2 | 98 | | | 0738 | 2.2 | 67 | | | 0604 | 2.3 | 70 | | | 2135 | 1.0 | 30 | | | 2121 | 0.2 | 6 | | |
| | 1844 | 3.1 | 94 | | | 1759 | 3.1 | 94 | | | 1419 | 3.3 | 101 | | | 1258 | 3.6 | 110 | | | | | | | | | | | | |
| | 2314 | 3.3 | 101 | | | 2144 | 3.2 | 98 | | | 2126 | 1.8 | 55 | | | 2046 | 1.3 | 40 | | | | | | | | | | | | |
| 8 Sa | 0805 | 1.4 | 43 | | 23 Su | 0644 | 1.4 | 43 | | 8 Tu | 0359 | 2.9 | 88 | | 23 W | 0422 | 2.9 | 88 | | 8 Th | 1328 | 3.8 | 116 | | 23 F | 1256 | 4.4 | 134 | | |
| | 1601 | 3.1 | 94 | | | 1441 | 3.2 | 98 | | | 0830 | 2.5 | 76 | | | 0649 | 2.8 | 85 | | | 2210 | 0.7 | 21 | | | 2211 | -0.1 | -3 | | |
| | 2048 | 2.7 | 82 | | | 2004 | 2.7 | 82 | | | 1433 | 3.4 | 104 | | | 1321 | 3.9 | 119 | | | | | | | | | | | | |
| | | | | | | | | | | | 2200 | 1.4 | 43 | | | 2133 | 0.6 | 18 | | | | | | | | | | | | |
| 9 Su | 0137 | 3.1 | 94 | | 24 M | 0042 | 3.0 | 91 | | 9 W | 0513 | 3.0 | 91 | | 24 Th | 1351 | 4.1 | 125 | | 9 F | 1358 | 3.9 | 119 | | 24 Sa | 1349 | 4.6 | 140 | | |
| | 0901 | 1.6 | 49 | | | 0746 | 1.7 | 52 | | | 0915 | 2.7 | 82 | | | 2219 | 0.1 | 3 | | | 2245 | 0.5 | 15 | | | 2259 | -0.4 | -12 | | |
| | 1601 | 3.1 | 94 | | | 1441 | 3.2 | 98 | | | 1449 | 3.5 | 107 | | | | | | | | | | | | | | | | | |
| | 2139 | 2.3 | 70 | | | 2059 | 2.0 | 61 | | | 2231 | 1.0 | 30 | | | | | | | | | | | | | | | | | |
| 10 M | 0317 | 3.1 | 94 | | 25 Tu | 0256 | 3.0 | 91 | | 10 Th | 0611 | 3.2 | 98 | | 25 F | 1427 | 4.4 | 134 | | 10 Sa | 1432 | 4.0 | 122 | | 25 Su | 1445 | 4.6 | 140 | | |
| | 0946 | 1.8 | 55 | | | 0841 | 2.1 | 64 | | | 0952 | 2.9 | 88 | | | 2305 | -0.3 | -9 | | | 2319 | 0.3 | 9 | | | 2344 | -0.4 | -12 | | |
| | 1607 | 3.2 | 98 | | | 1450 | 3.4 | 104 | | | 1507 | 3.6 | 110 | | | | | | | | | | | | | | | | | |
| | 2216 | 1.9 | 58 | | | 2144 | 1.4 | 43 | | | 2302 | 0.7 | 21 | | | | | | | | | | | | | | | | | |
| 11 Tu | 0428 | 3.2 | 98 | | 26 W | 0432 | 3.2 | 98 | | 11 F | 0700 | 3.3 | 101 | | 26 Sa | 1508 | 4.5 | 137 | | 11 Su | 1507 | 4.1 | 125 | | 26 M | 1540 | 4.5 | 137 | | |
| | 1023 | 2.1 | 64 | | | 0927 | 2.5 | 76 | | | 1021 | 3.1 | 94 | | | 2350 | -0.5 | -15 | | | 2353 | 0.2 | 6 | | | | | | | |
| | 1616 | 3.3 | 101 | | | 1506 | 3.6 | 110 | | | 1527 | 3.8 | 116 | | | | | | | | | | | | | | | | | |
| | 2249 | 1.5 | 46 | | | 2228 | 0.8 | 24 | | | 2333 | 0.5 | 15 | | | | | | | | | | | | | | | | | |
| 12 W | 0526 | 3.3 | 101 | | 27 Th | 0550 | 3.4 | 104 | | 12 Sa | 0746 | 3.4 | 104 | | 27 Su | 1553 | 4.6 | 140 | | 12 M | 1543 | 4.1 | 125 | | 27 Tu | 0026 | -0.3 | -9 | | |
| | 1054 | 2.3 | 70 | | | 1005 | 2.9 | 88 | | | 1044 | 3.2 | 98 | | | | | | | | | | | | | | | | | |
| | 1627 | 3.4 | 104 | | | 1528 | 3.9 | 119 | | | 1550 | 3.9 | 119 | | | | | | | | | | | | | | | | | |
| | 2320 | 1.2 | 37 | | | 2313 | 0.2 | 6 | | | | | | | | | | | | | | | | | | | | | | |
| 13 Th | 0617 | 3.3 | 101 | | 28 F | 0659 | 3.5 | 107 | | 13 Su | 0005 | 0.4 | 12 | | 28 M | 0034 | -0.5 | -15 | | 13 Tu | 0026 | 0.1 | 3 | | 28 W | 0104 | -0.1 | -3 | | |
| | 1120 | 2.5 | 76 | | | 1036 | 3.2 | 98 | | | 0833 | 3.4 | 104 | | | 1638 | 4.6 | 140 | | | 1621 | 4.2 | 128 | | | 0932 | 3.4 | 104 | | |
| | 1638 | 3.5 | 107 | | | 1555 | 4.2 | 128 | | | 1101 | 3.3 | 101 | | | | | | | | | | | | | | | | | |
| | 2350 | 1.0 | 30 | | | 2358 | -0.1 | -3 | | | 1615 | 4.0 | 122 | | | | | | | | | | | | | | | | | |
| 14 F | 0703 | 3.4 | 104 | | 29 Sa | 0806 | 3.6 | 110 | | 14 M | 0038 | 0.3 | 9 | | 29 Tu | 0118 | -0.3 | -9 | | 14 W | 0100 | 0.1 | 3 | | 29 Th | 0140 | 0.2 | 6 | | |
| | 1142 | 2.7 | 82 | | | 1059 | 3.4 | 104 | | | 1642 | 4.0 | 122 | | | 1724 | 4.4 | 134 | | | 1700 | 4.1 | 125 | | | 0938 | 3.4 | 104 | | |
| | 1652 | 3.6 | 110 | | | 1627 | 4.4 | 134 | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 Sa | 0021 | 0.8 | 24 | | 30 Su | 0043 | -0.3 | -9 | | 15 Tu | 0112 | 0.2 | 6 | | 30 W | 0200 | -0.1 | -3 | | 15 Th | 0133 | 0.2 | 6 | | 30 F | 0211 | 0.6 | 18 | | |
| | 0750 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Yokohama, Japan, 2011

Times and Heights of High and Low Waters

| January | | | | February | | | | March | | | | | | | | | | | | | | | | | | | | | |
|-----------------|------|--------|-----|----------|-----------------|--------|------|-------|----|-----------------|-------|------|-----|--------|-----------------|------|------|-----|-----|-----------------|------|------|-----|------|-----------------|------|------|-----|-----|
| Time | | Height | | Time | | Height | | Time | | Height | | Time | | Height | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | | | | | | |
| 1 Sa | 0350 | 5.0 | 151 | | 16 Su | 0339 | 4.6 | 140 | | 1 Tu | 0458 | 5.4 | 164 | | 16 W | 0428 | 5.3 | 162 | | | | | | | | | | | |
| | 0814 | 3.9 | 120 | | | 0802 | 3.9 | 120 | | | 1004 | 3.4 | 103 | | | 0949 | 3.2 | 99 | | 0916 | 3.3 | 101 | | | | | | | |
| | 1332 | 5.3 | 163 | | | 1320 | 5.0 | 153 | | | 1531 | 5.5 | 168 | | | 1517 | 5.5 | 168 | | 1446 | 4.9 | 149 | | 1413 | 4.8 | 147 | | | |
| | 2109 | 0.8 | 23 | | | 2051 | 1.0 | 30 | | | 2230 | 0.5 | 15 | | | 2206 | 0.2 | 5 | | 2135 | 1.1 | 33 | | 2056 | 0.9 | 27 | | | |
| 2 Su | 0434 | 5.3 | 162 | | 17 M | 0416 | 5.1 | 154 | | 2 W | 0522 | 5.5 | 169 | | 17 Th | 0455 | 5.6 | 172 | | 2 W | 0428 | 5.2 | 158 | | 17 Th | 0349 | 5.2 | 160 | |
| | 0918 | 3.8 | 117 | | | 0908 | 3.8 | 116 | | | 1041 | 3.0 | 92 | | | 1028 | 2.7 | 83 | | | 0952 | 2.8 | 86 | | | 0931 | 2.7 | 81 | |
| | 1438 | 5.5 | 169 | | | 1427 | 5.3 | 161 | | | 1612 | 5.7 | 175 | | | 1605 | 6.0 | 182 | | | 1531 | 5.2 | 160 | | | 1512 | 5.4 | 165 | |
| | 2156 | 0.4 | 13 | | | 2137 | 0.5 | 15 | | | 2304 | 0.4 | 13 | | | 2249 | 0.0 | -1 | | | 2212 | 0.9 | 28 | | | 2144 | 0.6 | 19 | |
| 3 M | 0510 | 5.6 | 170 | | 18 Tu | 0448 | 5.4 | 165 | | 3 Th | 0546 | 5.7 | 173 | | 18 F | 0522 | 5.9 | 179 | | 3 Th | 0449 | 5.4 | 164 | | 18 F | 0415 | 5.6 | 170 | |
| | 1009 | 3.7 | 112 | | | 0957 | 3.6 | 109 | | | 1115 | 2.7 | 82 | | | 1105 | 2.2 | 67 | | | 1025 | 2.4 | 73 | | | 1008 | 1.9 | 59 | |
| | 1528 | 5.7 | 175 | | | 1520 | 5.6 | 172 | | | 1647 | 5.9 | 180 | | | 1650 | 6.3 | 191 | | | 1608 | 5.5 | 169 | | | 1602 | 5.9 | 180 | |
| | 2238 | 0.2 | 7 | | | 2221 | 0.1 | 2 | | | 2335 | 0.5 | 14 | | | 2328 | 0.0 | 0 | | | 2244 | 0.9 | 26 | | | 2226 | 0.6 | 17 | |
| 4 Tu | 0543 | 5.7 | 175 | | 19 W | 0520 | 5.7 | 174 | | 4 F | 0608 | 5.7 | 175 | | 19 Sa | 0550 | 6.0 | 184 | | 4 F | 0509 | 5.5 | 169 | | 19 Sa | 0442 | 5.8 | 177 | |
| | 1051 | 3.4 | 105 | | | 1040 | 3.3 | 101 | | | 1146 | 2.4 | 73 | | | 1143 | 1.7 | 52 | | | 1055 | 2.0 | 61 | | | 1045 | 1.3 | 39 | |
| | 1611 | 5.9 | 181 | | | 1606 | 6.0 | 183 | | | 1720 | 5.9 | 181 | | | 1735 | 6.4 | 194 | | | 1642 | 5.7 | 175 | | | 1648 | 6.2 | 189 | |
| | 2316 | 0.2 | 5 | | | 2303 | -0.2 | -6 | | | 0004 | 0.6 | 19 | | | 0005 | 0.3 | 9 | | | 2313 | 0.9 | 28 | | | 2306 | 0.7 | 22 | |
| 5 W | 0612 | 5.8 | 177 | | 20 Th | 0552 | 5.9 | 181 | | 5 Sa | 0629 | 5.7 | 175 | | 20 Su | 0616 | 6.1 | 185 | | 5 Sa | 0529 | 5.6 | 172 | | 20 Su | 0509 | 6.0 | 182 | |
| | 1128 | 3.2 | 99 | | | 1120 | 3.0 | 91 | | | 1216 | 2.2 | 66 | | | 1220 | 1.3 | 39 | | | 1124 | 1.6 | 50 | | | 1121 | 0.7 | 22 | |
| | 1649 | 6.0 | 183 | | | 1650 | 6.2 | 190 | | | 1753 | 5.9 | 179 | | | 1820 | 6.2 | 189 | | | 1714 | 5.8 | 178 | | | 1734 | 6.3 | 192 | |
| | 2351 | 0.2 | 7 | | | 2344 | -0.3 | -8 | | | 0030 | 0.9 | 27 | | | 0040 | 0.8 | 25 | | | 2340 | 1.1 | 33 | | | 2343 | 1.1 | 34 | |
| 6 Th | 0640 | 5.8 | 177 | | 21 F | 0623 | 6.0 | 184 | | 6 Su | 0650 | 5.7 | 175 | | 21 M | 0642 | 6.0 | 184 | | 6 Su | 0548 | 5.7 | 174 | | 21 M | 0535 | 6.1 | 185 | |
| | 1203 | 3.1 | 93 | | | 1158 | 2.7 | 81 | | | 1247 | 2.0 | 61 | | | 1257 | 1.0 | 31 | | | 1153 | 1.4 | 42 | | | 1159 | 0.3 | 10 | |
| | 1724 | 6.0 | 183 | | | 1734 | 6.3 | 191 | | | 1827 | 5.7 | 173 | | | 1906 | 5.8 | 178 | | | 1746 | 5.8 | 177 | | | 1819 | 6.1 | 187 | |
| | 0023 | 0.4 | 13 | | | 0023 | -0.1 | -2 | | | 0055 | 1.2 | 37 | | | 0113 | 1.5 | 45 | | | 0006 | 1.3 | 40 | | | 0018 | 1.6 | 49 | |
| 7 F | 0706 | 5.7 | 175 | | 22 Sa | 0653 | 6.0 | 184 | | 7 M | 0711 | 5.7 | 173 | | 22 Tu | 0708 | 6.0 | 182 | | 7 M | 0607 | 5.7 | 174 | | 22 Tu | 0601 | 6.0 | 184 | |
| | 1237 | 2.9 | 89 | | | 1237 | 2.3 | 71 | | | 1317 | 1.9 | 58 | | | 1336 | 1.0 | 29 | | | 1221 | 1.2 | 36 | | | 1236 | 0.2 | 5 | |
| | 1759 | 5.9 | 179 | | | 1818 | 6.1 | 187 | | | 1902 | 5.4 | 164 | | | 1955 | 5.3 | 162 | | | 1819 | 5.7 | 173 | | | 1906 | 5.8 | 176 | |
| | 0053 | 0.7 | 22 | | | 0100 | 0.4 | 11 | | | 0118 | 1.6 | 49 | | | 0143 | 2.2 | 66 | | | 0030 | 1.6 | 49 | | | 0051 | 2.2 | 66 | |
| 8 Sa | 0731 | 5.7 | 173 | | 23 Su | 0723 | 6.0 | 183 | | 8 Tu | 0732 | 5.6 | 170 | | 23 W | 0733 | 5.8 | 177 | | 8 Tu | 0627 | 5.7 | 173 | | 23 W | 0627 | 5.9 | 181 | |
| | 1311 | 2.8 | 85 | | | 1317 | 2.1 | 63 | | | 1349 | 1.9 | 57 | | | 1419 | 1.1 | 33 | | | 1250 | 1.1 | 34 | | | 1315 | 0.3 | 8 | |
| | 1834 | 5.6 | 171 | | | 1905 | 5.8 | 177 | | | 1940 | 5.0 | 153 | | | 2050 | 4.7 | 144 | | | 1853 | 5.4 | 166 | | | 1955 | 5.3 | 161 | |
| | 0120 | 1.1 | 34 | | | 0135 | 1.0 | 29 | | | 0140 | 2.1 | 63 | | | 0212 | 2.8 | 86 | | | 0053 | 2.0 | 60 | | | 0123 | 2.7 | 83 | |
| 9 Su | 0756 | 5.6 | 170 | | 24 M | 0751 | 5.9 | 180 | | 9 W | 0755 | 5.4 | 166 | | 24 Th | 0800 | 5.5 | 169 | | 9 W | 0647 | 5.6 | 170 | | 24 Th | 0653 | 5.7 | 175 | |
| | 1346 | 2.7 | 83 | | | 1359 | 1.9 | 58 | | | 1426 | 1.9 | 59 | | | 1510 | 1.4 | 42 | | | 1319 | 1.1 | 35 | | | 1356 | 0.6 | 18 | |
| | 1912 | 5.3 | 161 | | | 1956 | 5.3 | 163 | | | 2024 | 4.6 | 141 | | | 2204 | 4.2 | 128 | | | 1930 | 5.2 | 157 | | | 2050 | 4.8 | 146 | |
| | 0146 | 1.5 | 47 | | | 0208 | 1.7 | 51 | | | 0202 | 2.5 | 77 | | | 0239 | 3.4 | 104 | | | 0116 | 2.3 | 71 | | | 0153 | 3.2 | 97 | |
| 10 M | 0821 | 5.5 | 167 | | 25 Tu | 0819 | 5.7 | 175 | | 10 Th | 0819 | 5.3 | 161 | | 25 F | 0830 | 5.2 | 160 | | 10 Th | 0708 | 5.4 | 165 | | 25 F | 0720 | 5.4 | 166 | |
| | 1424 | 2.7 | 81 | | | 1446 | 1.8 | 56 | | | 1511 | 2.0 | 62 | | | 1626 | 1.7 | 52 | | | 1351 | 1.2 | 38 | | | 1444 | 1.0 | 32 | |
| | 1955 | 4.9 | 149 | | | 2055 | 4.8 | 145 | | | 2120 | 4.2 | 129 | | | 2050 | 4.7 | 144 | | | 2011 | 4.8 | 146 | | | 2202 | 4.3 | 132 | |
| | 0211 | 2.0 | 62 | | | 0241 | 2.4 | 74 | | | 0224 | 3.0 | 91 | | | 0318 | 4.3 | 131 | | | 0138 | 2.7 | 83 | | | 0227 | 3.6 | 110 | |
| 11 Tu | 0849 | 5.4 | 164 | | 26 W | 0849 | 5.6 | 170 | | 11 F | 0848 | 5.1 | 154 | | 26 Sa | 0311 | 3.9 | 119 | | 11 F | 0731 | 5.2 | 159 | | 26 Sa | 0752 | 5.1 | 154 | |
| | 1511 | 2.7 | 81 | | | 1545 | 1.9 | 57 | | | 1619 | 2.1 | 64 | | | 0911 | 4.9 | 148 | | | 1430 | 1.4 | 44 | | | 1550 | 1.6 | 48 | |
| | 2047 | 4.5 | 136 | | | 2213 | 4.2 | 129 | | | 2244 | 3.9 | 119 | | | 1817 | 1.8 | 55 | | | 2102 | 4.4 | 135 | | | 2102 | 4.4 | 135 | |
| | 0237 | 2.5 | 77 | | | 0315 | 3.1 | 96 | | | 0246 | 3.5 | 106 | | | 0318 | 4.3 | 131 | | | 0202 | 3.1 | 95 | | | 0005 | 4.1 | 125 | |
| 12 W | 0919 | 5.2 | 159 | | 27 Th | 0923 | 5.4 | 164 | | 12 Sa | 0927 | 4.8 | 147 | | 27 Su | 0623 | 4.1 | 126 | | 12 Sa | 0757 | 5.0 | 152 | | 27 Su | 0331 | 3.9 | 119 | |
| | 1615 | 2.6 | 79 | | | 1708 | 1.9 | 57 | | | 1757 | 2.0 | 61 | | | 1041 | 4.5 | 137 | | | 1525 | 1.7 | 51 | | | 0837 | 4.6 | 140 | |
| | 2157 | 4.1 | 124 | | | 0036 | 4.0 | 121 | | | 01037 | 4.6 | 141 | | | 1950 | 1.6 | 49 | | | 2219 | 4.1 | 124 | | | 1732 | 1.9 | 58 | |
| | 0307 | 3.1 | 93 | | | 0407 | 3.8 | 115 | | | 13 | 1037 | 4.6 | 141 | | | 0343 | 4.7 | 142 | | | 0229 | 3.5 | 108 | | | 0210 | 4.3 | 131 |
| 13 Th | 0956 | 5.1 | 155 | | 28 F | 1007 | 5.2 | 157 | | 13 Su | 1924 | 1.6 | 49 | | 28 M | 0824 | 3.8 | 116 | | 13 Su | 0831 | 4.7 | 143 | | 28 M | 0633 | 3.9 | 119 | |
| | 1741 | 2.4 | 74 | | | 1848 | 1.7 | 52 | | | 0335 | 4.5 | 136 | | | 1332 | 4.5 | 138 | | | 1657 | 1.8 | 55 | | | 1032 | 4.1 | 126 | |
| | 2343 | 3.9 | 118 | | | 0318 | 4.3 | 132 | | | 0335 | 4.5 | 136 | | | 2051 | 1.3 | 40 | | | 0106 | 4.0 | 123 | | | 1911 | 1.9 | 58 | |
| | 0357 | 3.5 | 108 | | | 0619 | 4.1 | 126 | | | 14 | 0335 | 4.5 | 136 | | | 0106 | 4.0 | 123 | | | 0106 | 4.0 | 123 | | | 0252 | 4.6 | 139 |
| 14 F | 1045 | 5.0 | 151 | | 29 Sa | 1123 | 4.9 | 150 | | 14 M | 1246 | 4.7 | | | | | | | | | | | | | | | | | |

Yokohama, Japan, 2011

Times and Heights of High and Low Waters

| October | | | | November | | | | December | | | | | | | | | | | | | | | |
|-----------------|--------|-----|----------------|-----------------|------|----------------|--------|-----------------|----------------|--------|------|-----------------|--------|----------------|------|-----------------|------|-----|-----|-----------------|------|------|-----|
| Time | Height | | Time | Height | | Time | Height | | Time | Height | | Time | Height | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | |
| 1 Sa | 0055 | 0.6 | 18 | | | 1 Tu | 0206 | 1.1 | 34 | | | 1 Th | 0226 | 1.5 | 46 | | | | | | | | |
| | 0738 | 6.0 | 182 | 16 Su | 0041 | | 1.0 | 32 | 16 W | 0135 | 1.0 | | 32 | 16 F | 0203 | 1.1 | 33 | | | | | | |
| | 1305 | 3.3 | 100 | | 0713 | | 5.7 | 175 | | 0832 | 5.4 | | 165 | | 0850 | 5.6 | 170 | | | | | | |
| | 1833 | 6.4 | 194 | | 1243 | | 3.3 | 102 | | 1342 | 3.8 | | 115 | | 1430 | 3.2 | 98 | | | | | | |
| | | | 1813 | | 5.9 | 180 | 1856 | 5.4 | | 164 | 1956 | 5.1 | 154 | | | | | | | | | | |
| 2 Su | 0137 | 0.9 | 26 | 17 M | 0114 | 1.2 | 37 | 2 W | 0258 | 1.7 | 51 | 17 Th | 0308 | 2.1 | 63 | 17 Sa | 0245 | 1.6 | 48 | | | | |
| | 0834 | 5.5 | 167 | | 0754 | 5.5 | 167 | | 1032 | 5.0 | 152 | | 0923 | 5.3 | 161 | | 1014 | 5.1 | 156 | 0930 | 5.5 | 167 | |
| | 1339 | 3.7 | 114 | | 1310 | 3.6 | 110 | | 1522 | 4.1 | 125 | | 1435 | 3.9 | 118 | | 1614 | 3.5 | 106 | 1532 | 3.1 | 94 | |
| | 1902 | 6.1 | 186 | | 1838 | 5.7 | 174 | | 2013 | 5.0 | 152 | | 1945 | 5.0 | 153 | | 2115 | 4.5 | 136 | 2109 | 4.7 | 142 | |
| 3 M | 0225 | 1.3 | 40 | 18 Tu | 0150 | 1.5 | 45 | 3 Th | 0403 | 2.2 | 68 | 18 F | 0312 | 1.8 | 54 | 3 Sa | 0358 | 2.6 | 80 | 18 Su | 0335 | 2.2 | 66 |
| | 0943 | 5.1 | 154 | | 0842 | 5.2 | 158 | | 1144 | 4.9 | 150 | | 1021 | 5.2 | 158 | | 1101 | 5.1 | 154 | | 1014 | 5.4 | 165 |
| | 1417 | 4.1 | 125 | | 1341 | 3.9 | 118 | | 1714 | 4.0 | 122 | | 1559 | 3.8 | 116 | | 1747 | 3.2 | 98 | | 1655 | 2.8 | 85 |
| | 1936 | 5.7 | 174 | | 1906 | 5.4 | 166 | | 2148 | 4.5 | 138 | | 2108 | 4.6 | 141 | | 2300 | 4.1 | 126 | | 2248 | 4.4 | 133 |
| 4 Tu | 0326 | 1.8 | 56 | 19 W | 0237 | 1.8 | 54 | 4 F | 0525 | 2.6 | 80 | 19 Sa | 0421 | 2.2 | 66 | 4 Su | 0506 | 3.1 | 94 | 19 M | 0440 | 2.8 | 84 |
| | 1122 | 4.8 | 146 | | 0946 | 5.0 | 151 | | 1249 | 5.0 | 152 | | 1122 | 5.2 | 158 | | 1152 | 5.1 | 154 | | 1102 | 5.4 | 164 |
| | 1519 | 4.4 | 134 | | 1425 | 4.1 | 126 | | 1857 | 3.5 | 108 | | 1754 | 3.4 | 105 | | 1904 | 2.7 | 83 | | 1822 | 2.3 | 69 |
| | 2022 | 5.2 | 159 | | 1942 | 5.1 | 156 | | | | | | 2314 | 4.5 | 136 | | | | | | | | |
| 5 W | 0454 | 2.2 | 68 | 20 Th | 0343 | 2.1 | 63 | 5 Sa | 0012 | 4.4 | 134 | 20 Su | 0542 | 2.5 | 76 | 5 M | 0110 | 4.2 | 128 | 20 Tu | 0048 | 4.4 | 134 |
| | 1317 | 4.9 | 148 | | 1113 | 4.9 | 148 | | 0645 | 2.8 | 86 | | 1220 | 5.3 | 162 | | 0630 | 3.4 | 103 | | 0601 | 3.2 | 99 |
| | 1746 | 4.4 | 135 | | 1606 | 4.3 | 131 | | 1338 | 5.2 | 157 | | 1912 | 2.8 | 85 | | 1246 | 5.1 | 156 | | 1157 | 5.4 | 164 |
| | 2201 | 4.8 | 145 | | 2057 | 4.7 | 144 | | 1955 | 3.0 | 91 | | | | | | 1957 | 2.2 | 67 | | 1932 | 1.6 | 50 |
| 6 Th | 0633 | 2.4 | 73 | 21 F | 0514 | 2.2 | 68 | 6 Su | 0153 | 4.6 | 141 | 21 M | 0108 | 4.7 | 143 | 6 Tu | 0241 | 4.5 | 138 | 21 W | 0233 | 4.8 | 145 |
| | 1417 | 5.1 | 155 | | 1244 | 5.0 | 153 | | 0747 | 2.9 | 88 | | 0659 | 2.7 | 82 | | 0742 | 3.5 | 107 | | 0723 | 3.6 | 109 |
| | 1940 | 4.0 | 121 | | 1854 | 4.0 | 122 | | 1414 | 5.3 | 162 | | 1312 | 5.5 | 167 | | 1335 | 5.2 | 159 | | 1257 | 5.5 | 167 |
| | | | | | 2336 | 4.6 | 140 | | 2036 | 2.4 | 73 | | 2004 | 2.0 | 61 | | 2039 | 1.7 | 51 | | 2028 | 1.0 | 30 |
| 7 F | 0048 | 4.7 | 144 | 22 Sa | 0641 | 2.2 | 68 | 7 M | 0253 | 5.0 | 152 | 22 Tu | 0229 | 5.2 | 157 | 7 W | 0334 | 4.9 | 149 | 22 Th | 0343 | 5.2 | 159 |
| | 0745 | 2.4 | 72 | | 1343 | 5.3 | 161 | | 0836 | 2.9 | 89 | | 0803 | 2.9 | 87 | | 0838 | 3.5 | 108 | | 0833 | 3.7 | 113 |
| | 1451 | 5.3 | 162 | | 1957 | 3.3 | 102 | | 1445 | 5.5 | 168 | | 1357 | 5.7 | 174 | | 1418 | 5.3 | 163 | | 1358 | 5.7 | 173 |
| | 2031 | 3.4 | 103 | | | | | | 2111 | 1.9 | 57 | | 2050 | 1.2 | 37 | | 2116 | 1.2 | 37 | | 2119 | 0.4 | 13 |
| 8 Sa | 0213 | 5.1 | 154 | 23 Su | 0128 | 5.0 | 151 | 8 Tu | 0337 | 5.3 | 162 | 23 W | 0332 | 5.6 | 171 | 8 Th | 0413 | 5.2 | 160 | 23 F | 0435 | 5.6 | 171 |
| | 0837 | 2.3 | 69 | | 0747 | 2.1 | 65 | | 0917 | 3.0 | 90 | | 0859 | 3.0 | 92 | | 0924 | 3.5 | 108 | | 0932 | 3.7 | 113 |
| | 1517 | 5.5 | 169 | | 1423 | 5.6 | 170 | | 1512 | 5.7 | 173 | | 1439 | 5.9 | 181 | | 1456 | 5.5 | 169 | | 1453 | 5.9 | 179 |
| | 2108 | 2.8 | 86 | | 2039 | 2.6 | 79 | | 2144 | 1.4 | 43 | | 2134 | 0.6 | 17 | | 2151 | 0.8 | 25 | | 2207 | 0.0 | 1 |
| 9 Su | 0305 | 5.4 | 165 | 24 M | 0238 | 5.5 | 167 | 9 W | 0415 | 5.6 | 171 | 24 Th | 0425 | 6.0 | 182 | 9 F | 0447 | 5.5 | 168 | 24 Sa | 0519 | 5.9 | 179 |
| | 0917 | 2.2 | 68 | | 0842 | 2.1 | 64 | | 0954 | 3.0 | 92 | | 0948 | 3.2 | 97 | | 1004 | 3.5 | 107 | | 1023 | 3.6 | 110 |
| | 1541 | 5.7 | 175 | | 1456 | 5.9 | 179 | | 1538 | 5.8 | 177 | | 1518 | 6.2 | 188 | | 1530 | 5.7 | 174 | | 1542 | 6.1 | 186 |
| | 2141 | 2.3 | 70 | | 2118 | 1.8 | 55 | | 2215 | 1.0 | 31 | | 2217 | 0.1 | 2 | | 2226 | 0.5 | 16 | | 2253 | -0.2 | -5 |
| 10 M | 0345 | 5.7 | 174 | 25 Tu | 0333 | 6.0 | 182 | 10 Th | 0449 | 5.8 | 177 | 25 F | 0515 | 6.2 | 189 | 10 Sa | 0520 | 5.7 | 174 | 25 Su | 0558 | 6.0 | 182 |
| | 0953 | 2.3 | 69 | | 0929 | 2.2 | 66 | | 1028 | 3.1 | 94 | | 1034 | 3.3 | 102 | | 1040 | 3.5 | 106 | | 1108 | 3.5 | 106 |
| | 1603 | 5.9 | 180 | | 1527 | 6.2 | 188 | | 1604 | 5.9 | 181 | | 1557 | 6.3 | 193 | | 1603 | 5.8 | 178 | | 1627 | 6.2 | 189 |
| | 2212 | 1.8 | 56 | | 2156 | 1.0 | 32 | | 2246 | 0.8 | 23 | | 2300 | -0.2 | -6 | | 2301 | 0.3 | 10 | | 2335 | -0.2 | -5 |
| 11 Tu | 0421 | 5.9 | 181 | 26 W | 0423 | 6.3 | 193 | 11 F | 0523 | 5.9 | 181 | 26 Sa | 0601 | 6.2 | 189 | 11 Su | 0552 | 5.8 | 177 | 26 M | 0635 | 6.0 | 182 |
| | 1025 | 2.3 | 71 | | 1013 | 2.4 | 72 | | 1100 | 3.2 | 97 | | 1118 | 3.4 | 105 | | 1114 | 3.4 | 105 | | 1149 | 3.3 | 101 |
| | 1624 | 6.0 | 184 | | 1558 | 6.4 | 194 | | 1629 | 6.0 | 183 | | 1635 | 6.4 | 195 | | 1635 | 5.9 | 181 | | 1708 | 6.2 | 190 |
| | 2242 | 1.4 | 44 | | 2235 | 0.5 | 14 | | 2318 | 0.6 | 18 | | 2343 | -0.2 | -6 | | 2335 | 0.3 | 8 | | | | |
| 12 W | 0455 | 6.1 | 186 | 27 Th | 0511 | 6.5 | 199 | 12 Sa | 0557 | 5.9 | 181 | 27 Su | 0646 | 6.1 | 186 | 12 M | 0625 | 5.8 | 178 | 27 Tu | 0014 | 0.0 | 1 |
| | 1055 | 2.5 | 76 | | 1055 | 2.7 | 81 | | 1130 | 3.3 | 100 | | 1159 | 3.5 | 108 | | 1148 | 3.4 | 104 | | 0708 | 5.9 | 179 |
| | 1645 | 6.1 | 186 | | 1629 | 6.5 | 198 | | 1655 | 6.0 | 183 | | 1713 | 6.3 | 193 | | 1708 | 6.0 | 182 | | 1228 | 3.2 | 97 |
| | 2311 | 1.2 | 36 | | 2315 | 0.1 | 3 | | 2349 | 0.6 | 17 | | | | | | 1747 | 6.1 | 186 | | | | |
| 13 Th | 0529 | 6.1 | 187 | 28 F | 0559 | 6.5 | 197 | 13 Su | 0631 | 5.9 | 180 | 28 M | 0025 | 0.0 | 1 | 13 Tu | 0011 | 0.3 | 8 | 28 W | 0050 | 0.4 | 12 |
| | 1124 | 2.7 | 81 | | 1134 | 3.0 | 91 | | 1200 | 3.4 | 103 | | 0729 | 5.9 | 180 | | 0659 | 5.8 | 178 | | 0739 | 5.7 | 175 |
| | 1706 | 6.1 | 187 | | 1700 | 6.5 | 199 | | 1722 | 6.0 | 182 | | 1239 | 3.6 | 109 | | 1223 | 3.4 | 103 | | 1306 | 3.1 | 93 |
| | 2341 | 1.0 | 31 | | 2356 | 0.0 | 1 | | | | | | 1751 | 6.1 | 187 | | 1742 | 5.9 | 180 | | 1826 | 5.8 | 177 |
| 14 F | 0602 | 6.1 | 185 | 29 Sa | 0647 | 6.3 | 191 | 14 M | 0022 | 0.6 | 19 | 29 Tu | 0106 | 0.4 | 13 | 14 W | 0047 | 0.4 | 13 | 29 Th | 0123 | 0.9 | 26 |
| | 1151 | 2.9 | 88 | | 1212 | 3.3 | 101 | | 0707 | 5.8 | 176 | | 0811 | 5.6 | 172 | | 0735 | 5.8 | 176 | | 0807 | 5.6 | 171 |
| | 1728 | 6.1 | 187 | | 1732 | 6.5 | 197 | | 1230 | 3.5 | 107 | | 1321 | 3.6 | 110 | | 1300 | 3.3 | 102 | | 1345 | 3.0 | 90 |
| | | | | | | | | | 1750 | 5.9 | 179 | | 1831 | 5.8 | 178 | | 1819 | 5.7 | 175 | | 1906 | 5.4 | 166 |
| 15 Sa | 0010 | 1.0 | 29 | 30 Su | 0037 | 0.2 | 6 | 15 Tu | 0057 | 0.8 | 24 | 30 W | 0146 | 0.9 | 28 | 15 Th | 0124 | 0.7 | 21 | 30 F | 0153 | 1.4 | 42 |
| | 0637 | 5.9 | 181 | | 0737 | 5.9 | 180 | | 0747 | 5.6 | 170 | | 0851 | 5.4 | 165 | | 0811 | 5.7 | 173 | | 0835 | 5.5 | 167 |
| | 1217 | 3.1 | 95 | | 1249 | 3.6 | 110 | | 1303 | 3.6 | 111 | | 1406 | 3.6 | 110 | | 1341 | 3.3 | 101 | | 1427 | 2.9 | 88 |
| | 1750 | 6.0 | 184 | | 1805 | 6.3 | 191 | | 1820 | 5.7 | 173 | | 1913 | 5.4 | 165 | | 1902 | 5.4 | 166 | | 1950 | 5.0 | 152 |
| | | | 31 M | 0120 | 0.6 | 18 | | | | | | | | | | | | | | | | | |
| | | | | 0829 | 5.5 | 169 | | | | | | | | | | | | | | | | | |
| | | | | 1329 | | | | | | | | | | | | | | | | | | | |

Kobe, Japan, 2011

Times and Heights of High and Low Waters

| July | | | | August | | | | September | | | | | | | | | | | | | | | |
|-----------------|------|--------|-----|-----------------|------|--------|-----|-----------------|------|--------|-----|-----------------|------|--------|-----|-----------------|------|-----|-----|-----------------|------|-----|-----|
| Time | | Height | | Time | | Height | | Time | | Height | | Time | | Height | | | | | | | | | |
| | h m | ft | cm | | h m | ft | cm | | h m | ft | cm | | h m | ft | cm | | | | | | | | |
| 1 F | 0027 | 3.8 | 115 | 16 Sa | 0104 | 3.5 | 107 | 1 M | 0132 | 3.1 | 94 | 16 Tu | 0159 | 2.7 | 83 | 1 Th | 0239 | 1.7 | 51 | 16 F | 0248 | 1.9 | 57 |
| | 0548 | 4.9 | 148 | | 0648 | 5.2 | 160 | | 0723 | 5.7 | 174 | | 0754 | 5.3 | 163 | | 0846 | 5.8 | 176 | | 0852 | 5.0 | 153 |
| | 1313 | 0.6 | 18 | | 1347 | 0.7 | 21 | | 1403 | 0.7 | 21 | | 1419 | 1.8 | 56 | | 1450 | 2.2 | 68 | | 1432 | 3.0 | 92 |
| | 1954 | 5.2 | 159 | | 2015 | 5.4 | 165 | | 2026 | 5.7 | 175 | | 2037 | 5.4 | 164 | | 2053 | 5.7 | 174 | | 2033 | 5.1 | 154 |
| 2 Sa | 0105 | 3.6 | 109 | 17 Su | 0143 | 3.3 | 101 | 2 Tu | 0214 | 2.8 | 85 | 17 W | 0238 | 2.6 | 80 | 2 F | 0329 | 1.6 | 49 | 17 Sa | 0329 | 1.9 | 58 |
| | 0638 | 5.1 | 154 | | 0730 | 5.2 | 160 | | 0809 | 5.7 | 174 | | 0831 | 5.1 | 156 | | 0938 | 5.2 | 160 | | 0935 | 4.8 | 145 |
| | 1349 | 0.5 | 14 | | 1422 | 0.9 | 28 | | 1441 | 1.0 | 31 | | 1445 | 2.2 | 68 | | 1527 | 3.0 | 91 | | 1457 | 3.4 | 104 |
| | 2024 | 5.3 | 163 | | 2049 | 5.3 | 163 | | 2100 | 5.7 | 174 | | 2103 | 5.2 | 159 | | 2125 | 5.4 | 164 | | 2051 | 4.9 | 148 |
| 3 Su | 0146 | 3.4 | 104 | 18 M | 0223 | 3.2 | 98 | 3 W | 0301 | 2.6 | 79 | 18 Th | 0320 | 2.6 | 78 | 3 Sa | 0429 | 1.7 | 52 | 18 Su | 0416 | 2.0 | 61 |
| | 0726 | 5.2 | 157 | | 0810 | 5.1 | 155 | | 0856 | 5.4 | 166 | | 0910 | 4.8 | 147 | | 1043 | 4.7 | 143 | | 1028 | 4.4 | 135 |
| | 1427 | 0.5 | 14 | | 1455 | 1.3 | 40 | | 1520 | 1.6 | 49 | | 1508 | 2.7 | 82 | | 1603 | 3.7 | 114 | | 1523 | 3.8 | 116 |
| | 2059 | 5.4 | 164 | | 2122 | 5.2 | 159 | | 2135 | 5.5 | 169 | | 2126 | 5.0 | 153 | | 2151 | 5.1 | 154 | | 2103 | 4.7 | 143 |
| 4 M | 0231 | 3.3 | 101 | 19 Tu | 0306 | 3.1 | 96 | 4 Th | 0354 | 2.5 | 75 | 19 F | 0407 | 2.6 | 78 | 4 Su | 0545 | 1.8 | 56 | 19 M | 0512 | 2.1 | 64 |
| | 0814 | 5.1 | 156 | | 0850 | 4.8 | 146 | | 0948 | 5.0 | 153 | | 0953 | 4.5 | 137 | | 2155 | 4.8 | 145 | | 1154 | 4.2 | 127 |
| | 1507 | 0.7 | 21 | | 1526 | 1.8 | 55 | | 1600 | 2.3 | 71 | | 1530 | 3.1 | 96 | | 1716 | 4.7 | 144 | | 1537 | 4.1 | 126 |
| | 2137 | 5.3 | 162 | | 2155 | 5.0 | 153 | | 2211 | 5.3 | 161 | | 2146 | 4.9 | 148 | | 2146 | 4.9 | 148 | | 2002 | 4.6 | 139 |
| 5 Tu | 0320 | 3.2 | 98 | 20 W | 0355 | 3.1 | 95 | 5 F | 0458 | 2.4 | 72 | 20 Sa | 0505 | 2.5 | 77 | 5 M | 0716 | 1.9 | 58 | 20 Tu | 0616 | 2.2 | 66 |
| | 0904 | 4.9 | 149 | | 0930 | 4.4 | 135 | | 1050 | 4.5 | 138 | | 1046 | 4.2 | 127 | | 1853 | 4.8 | 146 | | 1924 | 4.6 | 140 |
| | 1549 | 1.1 | 35 | | 1552 | 2.3 | 70 | | 1640 | 3.1 | 95 | | 1550 | 3.6 | 110 | | 1853 | 4.8 | 146 | | 1924 | 4.6 | 140 |
| | 2218 | 5.2 | 157 | | 2225 | 4.8 | 146 | | 2245 | 5.0 | 153 | | 2204 | 4.7 | 143 | | 1853 | 4.8 | 146 | | 1924 | 4.6 | 140 |
| 6 W | 0419 | 3.1 | 95 | 21 Th | 0457 | 3.1 | 93 | 6 Sa | 0622 | 2.2 | 68 | 21 Su | 0611 | 2.5 | 75 | 6 Tu | 0848 | 1.9 | 59 | 21 W | 0734 | 2.2 | 67 |
| | 0958 | 4.6 | 139 | | 1015 | 4.1 | 125 | | 1230 | 4.1 | 125 | | 0611 | 2.5 | 75 | | 1805 | 5.0 | 152 | | 1716 | 4.7 | 144 |
| | 1633 | 1.7 | 53 | | 1613 | 2.8 | 86 | | 1720 | 3.8 | 117 | | 2213 | 4.6 | 140 | | 1805 | 5.0 | 152 | | 1716 | 4.7 | 144 |
| | 2300 | 5.0 | 151 | | 2251 | 4.6 | 141 | | 2316 | 4.8 | 146 | | 0723 | 2.4 | 73 | | 1000 | 1.9 | 57 | | 0902 | 2.1 | 64 |
| 7 Th | 0535 | 3.0 | 90 | 22 F | 0624 | 2.9 | 88 | 7 Su | 0752 | 2.1 | 63 | 22 M | 2026 | 4.6 | 140 | 7 W | 1825 | 5.0 | 153 | 22 Th | 1731 | 4.9 | 149 |
| | 1103 | 4.2 | 127 | | 1113 | 3.8 | 115 | | 2324 | 4.6 | 141 | | 0844 | 2.3 | 69 | | 1000 | 1.9 | 57 | | 0902 | 2.1 | 64 |
| | 1719 | 2.4 | 74 | | 1628 | 3.3 | 100 | | 0912 | 1.9 | 57 | | 1954 | 4.7 | 143 | | 1825 | 5.0 | 153 | | 1731 | 4.9 | 149 |
| | 2343 | 4.8 | 145 | | 2311 | 4.5 | 137 | | 1826 | 4.8 | 146 | | 0844 | 2.3 | 69 | | 1820 | 5.0 | 151 | | 1731 | 4.9 | 149 |
| 8 F | 0716 | 2.7 | 81 | 23 Sa | 0742 | 2.7 | 81 | 8 M | 0912 | 1.9 | 57 | 23 Tu | 0844 | 2.3 | 69 | 8 Th | 0112 | 4.1 | 124 | 23 F | 1002 | 1.9 | 59 |
| | 1231 | 3.8 | 117 | | 2328 | 4.4 | 135 | | 1017 | 1.7 | 51 | | 1954 | 4.7 | 143 | | 0316 | 4.2 | 128 | | 1734 | 5.0 | 151 |
| | 1811 | 3.1 | 95 | | 2328 | 4.4 | 135 | | 1826 | 4.8 | 146 | | 1855 | 5.0 | 152 | | 1048 | 1.8 | 56 | | 2336 | 3.8 | 115 |
| | 1811 | 3.1 | 95 | | 2328 | 4.4 | 135 | | 1826 | 4.8 | 146 | | 1855 | 5.0 | 152 | | 1820 | 5.0 | 151 | | 2336 | 3.8 | 115 |
| 9 Sa | 0025 | 4.6 | 141 | 24 Su | 0844 | 2.4 | 74 | 9 Tu | 1017 | 1.7 | 51 | 24 W | 0954 | 2.1 | 63 | 9 F | 0012 | 4.0 | 121 | 24 Sa | 0353 | 4.3 | 131 |
| | 0833 | 2.3 | 69 | | 2343 | 4.4 | 135 | | 1855 | 5.0 | 152 | | 1812 | 4.9 | 148 | | 0417 | 4.5 | 136 | | 1045 | 1.7 | 53 |
| | 1622 | 3.9 | 119 | | 2343 | 4.4 | 135 | | 1855 | 5.0 | 152 | | 1812 | 4.9 | 148 | | 1122 | 1.8 | 55 | | 1731 | 5.1 | 155 |
| | 1917 | 3.7 | 114 | | 2343 | 4.4 | 135 | | 1855 | 5.0 | 152 | | 1812 | 4.9 | 148 | | 1757 | 5.0 | 153 | | 2321 | 3.3 | 101 |
| 10 Su | 0109 | 4.5 | 138 | 25 M | 0941 | 2.2 | 66 | 10 W | 1105 | 1.5 | 45 | 25 Th | 1042 | 1.8 | 55 | 10 Sa | 0503 | 4.8 | 146 | 25 Su | 0446 | 4.8 | 147 |
| | 0933 | 1.9 | 57 | | 2110 | 4.5 | 137 | | 1906 | 5.1 | 154 | | 1819 | 5.0 | 153 | | 1151 | 1.8 | 55 | | 1121 | 1.6 | 48 |
| | 1801 | 4.3 | 132 | | 2110 | 4.5 | 137 | | 2314 | 4.3 | 132 | | 2339 | 4.2 | 129 | | 1812 | 5.1 | 156 | | 1745 | 5.3 | 161 |
| | 2047 | 4.2 | 127 | | 2110 | 4.5 | 137 | | 2314 | 4.3 | 132 | | 2339 | 4.2 | 129 | | 2355 | 3.1 | 94 | | 2343 | 2.7 | 82 |
| 11 M | 0200 | 4.5 | 137 | 26 Tu | 1031 | 1.9 | 58 | 11 Th | 0414 | 4.7 | 142 | 26 F | 0349 | 4.5 | 136 | 11 Su | 0544 | 5.1 | 154 | 26 M | 0533 | 5.3 | 163 |
| | 1025 | 1.5 | 45 | | 1840 | 4.7 | 142 | | 1142 | 1.3 | 40 | | 1119 | 1.5 | 46 | | 1220 | 1.8 | 56 | | 1157 | 1.5 | 46 |
| | 1849 | 4.7 | 143 | | 1840 | 4.7 | 142 | | 1836 | 5.1 | 156 | | 1819 | 5.2 | 157 | | 1835 | 5.3 | 161 | | 1810 | 5.5 | 169 |
| | 2210 | 4.3 | 131 | | 1840 | 4.7 | 142 | | 2338 | 4.0 | 122 | | 2337 | 3.9 | 119 | | 1835 | 5.3 | 161 | | 1810 | 5.5 | 169 |
| 12 Tu | 0305 | 4.6 | 139 | 27 W | 1112 | 1.6 | 50 | 12 F | 0510 | 5.0 | 151 | 27 Sa | 0454 | 4.9 | 149 | 12 M | 0027 | 2.7 | 82 | 27 Tu | 0016 | 2.0 | 61 |
| | 1111 | 1.1 | 35 | | 1849 | 4.9 | 148 | | 1216 | 1.2 | 37 | | 1153 | 1.2 | 37 | | 0623 | 5.3 | 161 | | 0618 | 5.8 | 177 |
| | 1909 | 4.9 | 149 | | 2333 | 4.3 | 132 | | 1847 | 5.2 | 160 | | 1829 | 5.4 | 164 | | 1249 | 1.9 | 59 | | 1233 | 1.6 | 48 |
| | 2304 | 4.3 | 130 | | 2333 | 4.3 | 132 | | 1847 | 5.2 | 160 | | 1829 | 5.4 | 164 | | 1901 | 5.3 | 163 | | 1839 | 5.8 | 176 |
| 13 W | 0412 | 4.7 | 144 | 28 Th | 0313 | 4.5 | 137 | 13 Sa | 0011 | 3.6 | 109 | 28 Su | 0002 | 3.4 | 104 | 13 Tu | 0100 | 2.3 | 71 | 28 W | 0054 | 1.4 | 42 |
| | 1153 | 0.9 | 27 | | 1147 | 1.3 | 40 | | 0556 | 5.2 | 159 | | 0543 | 5.4 | 164 | | 0700 | 5.4 | 164 | | 0703 | 6.0 | 184 |
| | 1858 | 5.1 | 155 | | 1855 | 5.1 | 154 | | 1248 | 1.2 | 36 | | 1226 | 1.0 | 31 | | 1316 | 2.1 | 65 | | 1309 | 1.8 | 56 |
| | 2345 | 4.1 | 124 | | 2348 | 4.1 | 126 | | 1912 | 5.4 | 165 | | 1850 | 5.6 | 172 | | 1927 | 5.4 | 164 | | 1910 | 5.9 | 179 |
| 14 Th | 0511 | 4.9 | 150 | 29 F | 0452 | 4.8 | 146 | 14 Su | 0046 | 3.2 | 98 | 29 M | 0035 | 2.9 | 88 | 14 W | 0135 | 2.1 | 63 | 29 Th | 0135 | 1.0 | 29 |
| | 1232 | 0.7 | 21 | | 1220 | 1.0 | 31 | | 0637 | 5.4 | 165 | | 0628 | 5.8 | 177 | | 0737 | 5.4 | 164 | | 0749 | 6.0 | 183 |
| | 1915 | 5.2 | 160 | | 1906 | 5.3 | 161 | | 1320 | 1.3 | 39 | | 1301 | 1.0 | 30 | | 1342 | 2.4 | 72 | | 1346 | 2.3 | 70 |
| | 1915 | 5.2 | 160 | | 1906 | 5.3 | 161 | | 1940 | 5.5 | 167 | | 1918 | 5.8 | 178 | | 1951 | 5.3 | 162 | | 1942 | 5.8 | 177 |
| 15 F | 0025 | 3.8 | 115 | 30 Sa | 0017 | 3.8 | 116 | 15 M | 0122 | 2.9 | 89 | 30 Tu | 0113 | 2.4 | 72 | 15 Th | 0210 | 1.9 | 59 | 30 F | 0219 | 0.8 | 23 |
| | 0602 | 5.2 | 157 | | 0548 | 5.2 | 157 | | 0716 | 5.4 | 166 | | 0713 | 6.1 | 185 | | 0814 | 5.2 | 160 | | 0838 | 5.7 | 175 |
| | 1310 | 0.6 | 19 | | 1253 | 0.8 | 23 | | 1350 | 1.5 | 46 | | 1336 | 1.1 | 35 | | 1407 | 2.7 | 82 | | 1424 | 2.9 | 87 |
| | 1943 | 5.4 | 164 | | 1927 | 5.5 | 168 | | 2009 | 5.5 | 167 | | 1948 | 5.9 | 181 | | | | | | | | |

Kobe, Japan, 2011

Times and Heights of High and Low Waters

| October | | | November | | | December | | | | | | | | | | | | | | | | | | | | | |
|-----------------|--------|-----|----------|-----------------|------|----------|--------|-----------------|------|--------|-----|-----------------|------|------|-----|-----------------|------|-----|-----|-----------------|------|------|-----|-----------------|------|-----|-----|
| Time | Height | | Time | Height | | Time | Height | | Time | Height | | | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | | | | |
| 1 Sa | 0308 | 0.8 | 25 | 16 Su | 0300 | 1.2 | 38 | 1 Tu | 0447 | 1.0 | 32 | 16 W | 0406 | 1.0 | 29 | 1 Th | 0502 | 1.3 | 39 | 16 F | 0427 | 0.8 | 24 | | | | |
| | 0933 | 5.2 | 160 | | 0925 | 4.8 | 146 | | 1328 | 4.4 | 134 | | 1104 | 4.4 | 133 | | 1230 | 4.1 | 124 | | 1115 | 4.2 | 129 | | | | |
| | 1501 | 3.5 | 106 | | 1434 | 3.5 | 107 | | 1640 | 4.2 | 129 | | 1606 | 3.8 | 116 | | 1606 | 3.8 | 116 | | 1721 | 3.1 | 93 | 1721 | 3.1 | 93 | |
| | 2043 | 5.2 | 160 | | 2005 | 4.7 | 144 | | 1823 | 4.3 | 130 | | 1850 | 4.0 | 123 | | 1850 | 4.0 | 123 | | 2224 | 3.4 | 103 | 2224 | 3.4 | 103 | |
| 2 Su | 0406 | 1.1 | 33 | 17 M | 0343 | 1.4 | 42 | 2 W | 0552 | 1.5 | 47 | 17 Th | 0456 | 1.2 | 38 | 2 F | 0546 | 1.9 | 57 | 17 Sa | 0513 | 1.3 | 40 | 17 Su | 0427 | 0.8 | 24 |
| | 1044 | 4.7 | 143 | | 1018 | 4.5 | 138 | | 1523 | 4.4 | 135 | | 1218 | 4.2 | 129 | | 1414 | 3.9 | 120 | | 1205 | 4.1 | 125 | | 1205 | 4.1 | 125 |
| | 1537 | 4.1 | 124 | | 1507 | 3.8 | 117 | | 2009 | 4.5 | 138 | | 2240 | 2.8 | 85 | | 2213 | 2.8 | 84 | | 2041 | 2.7 | 82 | | 2041 | 2.7 | 82 |
| | 2102 | 4.9 | 148 | | 2009 | 4.5 | 138 | | 2336 | 2.9 | 87 | | 2240 | 2.8 | 85 | | 2351 | 2.8 | 85 | | 2347 | 3.1 | 93 | | 2347 | 3.1 | 93 |
| 3 M | 0515 | 1.4 | 43 | 18 Tu | 0433 | 1.6 | 48 | 3 Th | 0709 | 2.0 | 61 | 18 F | 0552 | 1.6 | 48 | 3 Sa | 0629 | 2.4 | 73 | 18 Su | 0606 | 1.9 | 57 | 18 Mo | 0606 | 1.9 | 57 |
| | 1904 | 4.6 | 141 | | 1134 | 4.3 | 131 | | 1605 | 4.4 | 135 | | 1441 | 4.2 | 128 | | 1447 | 3.9 | 118 | | 1256 | 4.0 | 121 | | 1256 | 4.0 | 121 |
| | | | | | 1548 | 4.1 | 126 | | 2336 | 2.9 | 87 | | 2240 | 2.8 | 85 | | 2351 | 2.8 | 85 | | 2123 | 2.2 | 67 | | 2123 | 2.2 | 67 |
| | | | | | 1904 | 4.4 | 134 | | 2336 | 2.9 | 87 | | 2240 | 2.8 | 85 | | 2351 | 2.8 | 85 | | 2123 | 2.2 | 67 | | 2123 | 2.2 | 67 |
| 4 Tu | 0638 | 1.7 | 53 | 19 W | 0530 | 1.7 | 53 | 4 F | 0833 | 2.3 | 71 | 19 Sa | 0658 | 1.9 | 58 | 4 Su | 0534 | 2.9 | 87 | 19 M | 0144 | 3.0 | 90 | 19 Tu | 0712 | 2.4 | 74 |
| | 1647 | 4.8 | 145 | | 1539 | 4.4 | 134 | | 1618 | 4.4 | 133 | | 1450 | 4.2 | 129 | | 1509 | 3.8 | 117 | | 1345 | 3.9 | 120 | | 1345 | 3.9 | 120 |
| | | | | | 2340 | 3.4 | 103 | | 2336 | 2.9 | 87 | | 2240 | 2.8 | 85 | | 2243 | 2.0 | 62 | | 2154 | 1.6 | 50 | | 2154 | 1.6 | 50 |
| | | | | | 2340 | 3.4 | 103 | | 2336 | 2.9 | 87 | | 2240 | 2.8 | 85 | | 2243 | 2.0 | 62 | | 2154 | 1.6 | 50 | | 2154 | 1.6 | 50 |
| 5 W | 0811 | 2.0 | 61 | 20 Th | 0637 | 1.9 | 58 | 5 Sa | 0324 | 3.3 | 101 | 20 Su | 0207 | 3.2 | 98 | 5 M | 0707 | 3.2 | 97 | 20 Tu | 0434 | 3.2 | 98 | | | | |
| | 1714 | 4.8 | 147 | | 1620 | 4.6 | 139 | | 0936 | 2.6 | 79 | | 0813 | 2.2 | 67 | | 0923 | 3.1 | 96 | | 0832 | 2.9 | 88 | | | | |
| | | | | | 2326 | 2.6 | 78 | | 1617 | 4.3 | 131 | | 1509 | 4.3 | 130 | | 1530 | 3.8 | 116 | | 1433 | 4.0 | 121 | 1433 | 4.0 | 121 | |
| | | | | | 2326 | 2.6 | 78 | | 2326 | 2.6 | 78 | | 2238 | 2.3 | 70 | | 2257 | 1.6 | 50 | | 2226 | 1.0 | 32 | 2226 | 1.0 | 32 | |
| 6 Th | 0929 | 2.1 | 65 | 21 F | 0758 | 2.0 | 62 | 6 Su | 0418 | 3.5 | 108 | 21 M | 0334 | 3.6 | 109 | 6 Tu | 0721 | 3.5 | 106 | 21 W | 0602 | 3.7 | 112 | | | | |
| | 1730 | 4.8 | 146 | | 1637 | 4.6 | 141 | | 1018 | 2.8 | 85 | | 0920 | 2.5 | 75 | | 1022 | 3.3 | 101 | | 0946 | 3.2 | 97 | | | | |
| | | | | | 2340 | 3.4 | 103 | | 1628 | 4.3 | 133 | | 1537 | 4.4 | 133 | | 1551 | 3.8 | 116 | | 1521 | 4.1 | 124 | 1521 | 4.1 | 124 | |
| | | | | | 2340 | 3.4 | 103 | | 2314 | 2.2 | 67 | | 2242 | 1.7 | 52 | | 2320 | 1.3 | 39 | | 2303 | 0.5 | 15 | 2303 | 0.5 | 15 | |
| 7 F | 0025 | 3.5 | 106 | 22 Sa | 0226 | 3.6 | 109 | 7 M | 0500 | 3.8 | 116 | 22 Tu | 0435 | 4.0 | 123 | 7 W | 0701 | 3.7 | 114 | 22 Th | 0630 | 4.1 | 125 | | | | |
| | 0322 | 3.8 | 116 | | 0912 | 2.0 | 62 | | 1051 | 3.0 | 90 | | 1014 | 2.7 | 81 | | 1102 | 3.4 | 104 | | 1046 | 3.3 | 100 | | | | |
| | 1020 | 2.2 | 68 | | 1630 | 4.7 | 142 | | 1648 | 4.3 | 132 | | 1611 | 4.5 | 138 | | 1614 | 3.9 | 118 | | 1610 | 4.2 | 129 | 1610 | 4.2 | 129 | |
| | 1714 | 4.7 | 143 | | 2315 | 3.1 | 93 | | 2331 | 1.8 | 55 | | 2309 | 1.0 | 31 | | 2348 | 0.9 | 28 | | 2344 | 0.0 | 0 | 2344 | 0.0 | 0 | |
| 8 Sa | 0002 | 3.3 | 100 | 23 Su | 0343 | 4.0 | 122 | 8 Tu | 0538 | 4.1 | 125 | 23 W | 0528 | 4.5 | 137 | 8 Th | 0655 | 4.0 | 122 | 23 F | 0647 | 4.4 | 135 | | | | |
| | 0413 | 4.1 | 124 | | 1004 | 2.0 | 62 | | 1121 | 3.1 | 93 | | 1101 | 2.8 | 85 | | 1131 | 3.4 | 104 | | 1134 | 3.2 | 99 | | | | |
| | 1054 | 2.3 | 71 | | 1636 | 4.8 | 146 | | 1710 | 4.4 | 135 | | 1647 | 4.8 | 145 | | 1640 | 4.0 | 122 | | 1701 | 4.5 | 136 | 1701 | 4.5 | 136 | |
| | 1714 | 4.7 | 144 | | 2301 | 2.5 | 76 | | 2357 | 1.4 | 42 | | 2346 | 0.4 | 11 | | 2348 | 0.9 | 28 | | 2344 | 0.0 | 0 | 2344 | 0.0 | 0 | |
| 9 Su | 0455 | 4.4 | 133 | 24 M | 0436 | 4.5 | 137 | 9 W | 0615 | 4.4 | 133 | 24 Th | 0616 | 4.9 | 149 | 9 F | 0018 | 0.6 | 18 | 24 Sa | 0025 | -0.4 | -13 | | | | |
| | 1122 | 2.4 | 74 | | 1047 | 2.1 | 63 | | 1148 | 3.1 | 95 | | 1145 | 2.9 | 89 | | 0712 | 4.3 | 130 | | 0715 | 4.7 | 143 | | | | |
| | 1732 | 4.8 | 147 | | 1659 | 5.0 | 152 | | 1733 | 4.5 | 137 | | 1725 | 5.0 | 151 | | 1159 | 3.3 | 102 | | 1218 | 3.1 | 95 | 1218 | 3.1 | 95 | |
| | 2341 | 2.5 | 75 | | 2324 | 1.8 | 55 | | 2324 | 1.8 | 55 | | 2324 | 1.8 | 55 | | 1711 | 4.2 | 127 | | 1750 | 4.6 | 141 | 1750 | 4.6 | 141 | |
| 10 M | 0534 | 4.6 | 141 | 25 Tu | 0524 | 5.0 | 153 | 10 Th | 0027 | 1.0 | 32 | 25 F | 0028 | -0.1 | -4 | 10 Sa | 0049 | 0.3 | 10 | 25 Su | 0107 | -0.7 | -20 | | | | |
| | 1150 | 2.5 | 76 | | 1127 | 2.1 | 65 | | 0650 | 4.6 | 141 | | 0704 | 5.2 | 157 | | 0735 | 4.5 | 136 | | 0748 | 4.8 | 147 | | | | |
| | 1755 | 4.9 | 150 | | 1728 | 5.2 | 159 | | 1215 | 3.1 | 96 | | 1227 | 3.0 | 92 | | 1229 | 3.2 | 99 | | 1300 | 3.0 | 90 | 1300 | 3.0 | 90 | |
| | | | | | 2358 | 1.1 | 33 | | 1755 | 4.6 | 140 | | 1805 | 5.1 | 155 | | 1747 | 4.3 | 132 | | 1837 | 4.7 | 144 | 1837 | 4.7 | 144 | |
| 11 Tu | 0010 | 2.0 | 61 | 26 W | 0611 | 5.4 | 166 | 11 F | 0058 | 0.8 | 23 | 26 Sa | 0112 | -0.4 | -13 | 11 Su | 0120 | 0.1 | 4 | 26 M | 0148 | -0.7 | -20 | | | | |
| | 0612 | 4.9 | 149 | | 1206 | 2.3 | 70 | | 0725 | 4.8 | 146 | | 0750 | 5.2 | 159 | | 0801 | 4.6 | 140 | | 0824 | 4.8 | 147 | | | | |
| | 1217 | 2.6 | 79 | | 1800 | 5.4 | 165 | | 1243 | 3.1 | 96 | | 1309 | 3.1 | 95 | | 1301 | 3.1 | 96 | | 1341 | 2.8 | 86 | 1341 | 2.8 | 86 | |
| | 1819 | 5.0 | 152 | | 1800 | 5.4 | 165 | | 1820 | 4.7 | 143 | | 1845 | 5.1 | 155 | | 1825 | 4.4 | 135 | | 1922 | 4.7 | 143 | 1922 | 4.7 | 143 | |
| 12 W | 0041 | 1.6 | 50 | 27 Th | 0037 | 0.5 | 15 | 12 Sa | 0130 | 0.6 | 18 | 27 Su | 0157 | -0.5 | -14 | 12 M | 0152 | 0.0 | 0 | 27 Tu | 0228 | -0.5 | -14 | | | | |
| | 0649 | 5.1 | 154 | | 0657 | 5.7 | 173 | | 0800 | 4.9 | 148 | | 0837 | 5.1 | 156 | | 0832 | 4.7 | 142 | | 0901 | 4.7 | 144 | | | | |
| | 1243 | 2.7 | 83 | | 1245 | 2.5 | 77 | | 1313 | 3.2 | 97 | | 1352 | 3.2 | 98 | | 1338 | 3.1 | 94 | | 1424 | 2.8 | 84 | 1424 | 2.8 | 84 | |
| | 1842 | 5.1 | 154 | | 1834 | 5.5 | 169 | | 1846 | 4.7 | 144 | | 1925 | 4.9 | 150 | | 1904 | 4.4 | 135 | | 2005 | 4.5 | 136 | 2005 | 4.5 | 136 | |
| 13 Th | 0113 | 1.4 | 42 | 28 F | 0120 | 0.1 | 3 | 13 Su | 0204 | 0.5 | 16 | 28 M | 0244 | -0.3 | -8 | 13 Tu | 0227 | 0.0 | 0 | 28 W | 0307 | 0.0 | -1 | | | | |
| | 0725 | 5.2 | 157 | | 0746 | 5.7 | 173 | | 0838 | 4.8 | 147 | | 0925 | 4.9 | 149 | | 0906 | 4.7 | 142 | | 0940 | 4.5 | 137 | | | | |
| | 1309 | 2.9 | 87 | | 1324 | 2.9 | 87 | | 1346 | 3.3 | 100 | | 1436 | 3.3 | 102 | | 1418 | 3.1 | 94 | | 1509 | 2.8 | 84 | 1509 | 2.8 | 84 | |
| | 1904 | 5.1 | 154 | | 1909 | 5.5 | 168 | | 1913 | 4.7 | 142 | | 2005 | 4.6 | 140 | | 1946 | 4.3 | 132 | | 2046 | 4.1 | 124 | 2046 | 4.1 | 124 | |
| 14 F | 0147 | 1.2 | 37 | 29 Sa | 0205 | 0.0 | 0 | 14 M | 0241 | 0.6 | 18 | 29 Tu | 0330 | 0.2 | 5 | 14 W | 0304 | 0.1 | 4 | 29 Th | 0342 | 0.5 | 15 | | | | |
| | 0802 | 5.1 | 154 | | 0837 | 5.4 | 166 | | 0920 | 4.7 | 144 | | 1015 | 4.6 | 140 | | 0945 | 4.6 | 139 | | 1019 | 4.2 | 129 | | | | |
| | 1336 | 3.0 | 92 | | 1403 | 3.2 | 99 | | 1422 | 3.4 | 104 | | 1525 | 3.5 | 107 | | 1505 | 3.1 | 95 | | 1601 | 2.8 | 84 | 1601 | 2.8 | 84 | |
| | 1925 | 5.0 | 152 | | 1942 | 5.3 | 161 | | 1939 | 4.5 | 137 | | 2043 | 4.2 | 127 | | 2031 | 4.1 | 125 | | | | | | | | |

Sakate, Shodo Shima, Japan, 2011

Times and Heights of High and Low Waters

| July | | | | August | | | | September | | | | | | | | | | | | | | | | | | | | |
|-----------------|--------|-----|------|--------|-----------------|------|--------|-----------|------|-----------------|------|------|--------|----|-----------------|------|-----|-----|--|-----------------|------|-----|-----|--|-----------------|------|-----|-----|
| Time | Height | | Time | Height | | Time | Height | | Time | Height | | Time | Height | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | | | | | |
| 1 F | 0525 | 3.6 | 110 | | 16 Sa | 0001 | 6.2 | 189 | | 1 M | 0553 | 3.5 | 107 | | 16 Tu | 0009 | 5.9 | 180 | | 1 Th | 0005 | 5.8 | 177 | | 16 F | 0626 | 2.0 | 61 |
| | 0858 | 4.1 | 125 | | | 0559 | 3.8 | 116 | | | 1038 | 4.9 | 149 | | | 0613 | 3.1 | 94 | | | 0625 | 2.1 | 64 | | | 1304 | 5.7 | 174 |
| | 1614 | 0.6 | 18 | | | 0959 | 4.4 | 134 | | | 1722 | 1.2 | 37 | | | 1141 | 5.1 | 155 | | | 1246 | 5.9 | 180 | | | 1908 | 3.2 | 98 |
| | 2355 | 5.9 | 180 | | | 1658 | 1.0 | 30 | | | | | | | | 1758 | 2.2 | 67 | | | 1854 | 2.8 | 85 | | | | | |
| 2 Sa | 0553 | 3.7 | 113 | | 17 Su | 0031 | 6.1 | 186 | | 2 Tu | 0023 | 6.1 | 186 | | 17 W | 0031 | 5.8 | 177 | | 2 F | 0038 | 5.6 | 171 | | 17 Sa | 0026 | 5.1 | 155 |
| | 0936 | 4.3 | 131 | | | 0630 | 3.6 | 110 | | | 0628 | 3.1 | 94 | | | 0645 | 2.8 | 85 | | | 0711 | 1.8 | 55 | | | 0707 | 1.8 | 55 |
| | 1650 | 0.6 | 18 | | | 1047 | 4.5 | 137 | | | 1137 | 5.1 | 155 | | | 1232 | 5.2 | 158 | | | 1353 | 6.0 | 183 | | | 1358 | 5.7 | 174 |
| | | | | | | 1738 | 1.2 | 37 | | | 1810 | 1.5 | 46 | | | 1842 | 2.5 | 76 | | | 1954 | 3.2 | 98 | | | 2004 | 3.3 | 101 |
| 3 Su | 0026 | 6.0 | 183 | | 18 M | 0059 | 6.0 | 183 | | 3 W | 0055 | 6.0 | 183 | | 18 Th | 0058 | 5.7 | 174 | | 3 Sa | 0114 | 5.3 | 162 | | 18 Su | 0105 | 4.9 | 149 |
| | 0628 | 3.6 | 110 | | | 0704 | 3.4 | 104 | | | 0709 | 2.7 | 82 | | | 0722 | 2.5 | 76 | | | 0802 | 1.5 | 46 | | | 0753 | 1.7 | 52 |
| | 1027 | 4.4 | 134 | | | 1144 | 4.5 | 137 | | | 1243 | 5.2 | 158 | | | 1329 | 5.3 | 162 | | | 1508 | 5.9 | 180 | | | 1459 | 5.7 | 174 |
| | 1733 | 0.7 | 21 | | | 1821 | 1.5 | 46 | | | 1903 | 1.9 | 58 | | | 1932 | 2.8 | 85 | | | 2102 | 3.7 | 113 | | | 2108 | 3.5 | 107 |
| 4 M | 0100 | 6.0 | 183 | | 19 Tu | 0129 | 5.9 | 180 | | 4 Th | 0130 | 5.9 | 180 | | 19 F | 0131 | 5.5 | 168 | | 4 Su | 0154 | 5.0 | 152 | | 19 M | 0149 | 4.6 | 140 |
| | 0709 | 3.3 | 101 | | | 0742 | 3.0 | 91 | | | 0754 | 2.3 | 70 | | | 0804 | 2.2 | 67 | | | 0859 | 1.4 | 43 | | | 0845 | 1.6 | 49 |
| | 1129 | 4.4 | 134 | | | 1248 | 4.6 | 140 | | | 1354 | 5.3 | 162 | | | 1429 | 5.4 | 165 | | | 1631 | 5.9 | 180 | | | 1608 | 5.7 | 174 |
| | 1822 | 0.8 | 24 | | | 1909 | 1.8 | 55 | | | 2000 | 2.5 | 76 | | | 2027 | 3.0 | 91 | | | 2224 | 4.0 | 122 | | | 2223 | 3.6 | 110 |
| 5 Tu | 0138 | 6.0 | 183 | | 20 W | 0201 | 5.8 | 177 | | 5 F | 0206 | 5.6 | 171 | | 20 Sa | 0208 | 5.2 | 158 | | 5 M | 0239 | 4.7 | 143 | | 20 Tu | 0238 | 4.3 | 131 |
| | 0754 | 3.0 | 91 | | | 0824 | 2.7 | 82 | | | 0843 | 1.9 | 58 | | | 0850 | 2.0 | 61 | | | 1004 | 1.4 | 43 | | | 0944 | 1.7 | 52 |
| | 1239 | 4.5 | 137 | | | 1355 | 4.6 | 140 | | | 1511 | 5.3 | 162 | | | 1535 | 5.4 | 165 | | | 1804 | 5.9 | 180 | | | 1726 | 5.6 | 171 |
| | 1916 | 1.1 | 34 | | | 2001 | 2.1 | 64 | | | 2103 | 3.0 | 91 | | | 2130 | 3.3 | 101 | | | | | | | | 2351 | 3.6 | 110 |
| 6 W | 0217 | 5.9 | 180 | | 21 Th | 0236 | 5.6 | 171 | | 6 Sa | 0244 | 5.3 | 162 | | 21 Su | 0248 | 4.9 | 149 | | 6 Tu | 0011 | 4.1 | 125 | | 21 W | 0341 | 4.1 | 125 |
| | 0840 | 2.6 | 79 | | | 0907 | 2.3 | 70 | | | 0937 | 1.6 | 49 | | | 0940 | 1.9 | 58 | | | 0339 | 4.4 | 134 | | | 1051 | 1.7 | 52 |
| | 1354 | 4.5 | 137 | | | 1504 | 4.7 | 143 | | | 1638 | 5.4 | 165 | | | 1650 | 5.4 | 165 | | | 1120 | 1.5 | 46 | | | 1845 | 5.7 | 174 |
| | 2012 | 1.6 | 49 | | | 2056 | 2.5 | 76 | | | 2218 | 3.6 | 110 | | | 2245 | 3.6 | 110 | | | 1930 | 6.0 | 183 | | | | | |
| 7 Th | 0256 | 5.7 | 174 | | 22 F | 0312 | 5.4 | 165 | | 7 Su | 0324 | 5.0 | 152 | | 22 M | 0332 | 4.6 | 140 | | 7 W | 0205 | 3.9 | 119 | | 22 Th | 0120 | 3.5 | 107 |
| | 0929 | 2.2 | 67 | | | 0953 | 2.0 | 61 | | | 1037 | 1.5 | 46 | | | 1038 | 1.8 | 55 | | | 0532 | 4.2 | 128 | | | 0514 | 3.9 | 119 |
| | 1514 | 4.6 | 140 | | | 1618 | 4.8 | 146 | | | 1818 | 5.5 | 168 | | | 1815 | 5.4 | 165 | | | 1240 | 1.6 | 49 | | | 1205 | 1.8 | 55 |
| | 2113 | 2.2 | 67 | | | 2159 | 2.9 | 88 | | | 2356 | 4.0 | 122 | | | | | | | | 2037 | 6.2 | 189 | | | 1951 | 5.9 | 180 |
| 8 F | 0336 | 5.4 | 165 | | 23 Sa | 0352 | 5.0 | 152 | | 8 M | 0411 | 4.6 | 140 | | 23 Tu | 0019 | 3.7 | 113 | | 8 Th | 0311 | 3.6 | 110 | | 23 F | 0221 | 3.3 | 101 |
| | 1021 | 1.8 | 55 | | | 1042 | 1.8 | 55 | | | 1146 | 1.4 | 43 | | | 0429 | 4.2 | 128 | | | 0727 | 4.2 | 128 | | | 0651 | 4.0 | 122 |
| | 1644 | 4.7 | 143 | | | 1740 | 4.9 | 149 | | | 1952 | 5.8 | 177 | | | 1143 | 1.8 | 55 | | | 1352 | 1.7 | 52 | | | 1312 | 1.7 | 52 |
| | 2224 | 2.8 | 85 | | | 2315 | 3.3 | 101 | | | | | | | 1937 | 5.6 | 171 | | | 2127 | 6.3 | 192 | | | 2040 | 6.0 | 183 | |
| 9 Sa | 0417 | 5.0 | 152 | | 24 Su | 0437 | 4.6 | 140 | | 9 Tu | 0157 | 4.0 | 122 | | 24 W | 0157 | 3.7 | 113 | | 9 F | 0349 | 3.4 | 104 | | 24 Sa | 0259 | 3.1 | 94 |
| | 1117 | 1.5 | 46 | | | 1137 | 1.7 | 52 | | | 0523 | 4.3 | 131 | | | 0548 | 4.1 | 125 | | | 0839 | 4.5 | 137 | | | 0759 | 4.4 | 134 |
| | 1825 | 4.9 | 149 | | | 1905 | 5.1 | 155 | | | 1258 | 1.3 | 40 | | | 1249 | 1.7 | 52 | | | 1448 | 1.7 | 52 | | | 1409 | 1.7 | 52 |
| | 2353 | 3.4 | 104 | | | | | | | | 2103 | 6.1 | 186 | | | 2040 | 5.9 | 180 | | | 2204 | 6.2 | 189 | | | 2116 | 6.0 | 183 |
| 10 Su | 0504 | 4.7 | 143 | | 25 M | 0047 | 3.5 | 107 | | 10 W | 0328 | 3.9 | 119 | | 25 Th | 0304 | 3.6 | 110 | | 10 Sa | 0415 | 3.2 | 98 | | 25 Su | 0325 | 2.9 | 88 |
| | 1218 | 1.2 | 37 | | | 0530 | 4.3 | 131 | | | 0700 | 4.2 | 128 | | | 0708 | 4.1 | 125 | | | 0929 | 4.7 | 143 | | | 0848 | 4.8 | 146 |
| | 2000 | 5.3 | 162 | | | 1235 | 1.6 | 49 | | | 1403 | 1.2 | 37 | | | 1347 | 1.5 | 46 | | | 1531 | 1.9 | 58 | | | 1457 | 1.7 | 52 |
| | | | | | | 2020 | 5.4 | 165 | | | 2156 | 6.3 | 192 | | | 2127 | 6.1 | 186 | | | 2232 | 6.1 | 186 | | | 2143 | 6.0 | 183 |
| 11 M | 0136 | 3.7 | 113 | | 26 Tu | 0221 | 3.6 | 110 | | 11 Th | 0416 | 3.7 | 113 | | 26 F | 0342 | 3.5 | 107 | | 11 Su | 0435 | 3.1 | 94 | | 26 M | 0347 | 2.6 | 79 |
| | 0558 | 4.4 | 134 | | | 0632 | 4.1 | 125 | | | 0815 | 4.3 | 131 | | | 0804 | 4.3 | 131 | | | 1005 | 5.0 | 152 | | | 0931 | 5.2 | 158 |
| | 1318 | 1.0 | 30 | | | 1330 | 1.4 | 43 | | | 1456 | 1.2 | 37 | | | 1434 | 1.4 | 43 | | | 1605 | 2.1 | 64 | | | 1539 | 1.9 | 58 |
| | 2112 | 5.8 | 177 | | | 2118 | 5.7 | 174 | | | 2236 | 6.4 | 195 | | | 2202 | 6.3 | 192 | | | 2251 | 5.9 | 180 | | | 2205 | 5.8 | 177 |
| 12 Tu | 0310 | 3.7 | 113 | | 27 W | 0331 | 3.5 | 107 | | 12 F | 0446 | 3.7 | 113 | | 27 Sa | 0407 | 3.5 | 107 | | 12 M | 0450 | 2.9 | 88 | | 27 Tu | 0410 | 2.3 | 70 |
| | 0659 | 4.2 | 128 | | | 0726 | 4.0 | 122 | | | 0907 | 4.5 | 137 | | | 0845 | 4.6 | 140 | | | 1034 | 5.1 | 155 | | | 1013 | 5.7 | 174 |
| | 1414 | 0.8 | 24 | | | 1417 | 1.2 | 37 | | | 1539 | 1.3 | 40 | | | 1514 | 1.4 | 43 | | | 1635 | 2.4 | 73 | | | 1621 | 2.1 | 64 |
| | 2207 | 6.1 | 186 | | | 2202 | 6.0 | 183 | | | 2307 | 6.3 | 192 | | | 2229 | 6.3 | 192 | | | 2302 | 5.7 | 174 | | | 2224 | 5.6 | 171 |
| 13 W | 0415 | 3.7 | 113 | | 28 Th | 0414 | 3.6 | 110 | | 13 Sa | 0509 | 3.6 | 110 | | 28 Su | 0427 | 3.4 | 104 | | 13 Tu | 0505 | 2.8 | 85 | | 28 W | 0436 | 1.9 | 58 |
| | 0754 | 4.2 | 128 | | | 0806 | 4.1 | 125 | | | 0945 | 4.6 | 140 | | | | | | | | | | | | | | | |

Sakate, Shodo Shima, Japan, 2011

Times and Heights of High and Low Waters

| October | | | | November | | | | December | | | | | | | | | | | | | | | | | | | | |
|-----------------|--------|-----|------|----------|-----------------|------|--------|----------|------|-----------------|------|------|--------|------|-----------------|------|-----------------|------|------|-----------------|------|------|-----|--|-----------------|------|------|-----|
| Time | Height | | Time | Height | | Time | Height | | Time | Height | | Time | Height | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | | | | | |
| 1 Sa | 0635 | 1.1 | 34 | | 16 Su | 0621 | 1.2 | 37 | | 1 Tu | 0043 | 4.0 | 122 | | | | | | | | | | | | | | | |
| | 1352 | 6.2 | 189 | 1336 | | 5.7 | 174 | 0804 | 0.7 | | 21 | 0729 | 0.6 | 18 | 0840 | 0.8 | 24 | | | | | | | | | | | |
| | 1953 | 3.6 | 110 | 1947 | | 3.4 | 104 | 1556 | 5.8 | | 177 | 1502 | 5.5 | 168 | 1608 | 5.3 | 162 | | | | | | | | | | | |
| | | | | | | 2222 | 3.3 | 101 | | | 2132 | 2.8 | 85 | | | 2242 | 2.3 | 70 | | | | | | | | | | |
| 2 Su | 0024 | 4.8 | 146 | | 17 M | 0009 | 4.4 | 134 | | 2 W | 0203 | 3.8 | 116 | | 17 Th | 0133 | 3.5 | 107 | | 2 F | 0339 | 3.4 | 104 | | 17 Sa | 0242 | 3.4 | 104 |
| | 0729 | 1.0 | 30 | 0708 | | 1.1 | 34 | 0909 | 1.0 | | 30 | 0825 | 0.7 | 21 | | 0944 | 1.3 | 40 | 0859 | | 0.9 | 27 | | | | | | |
| | 1503 | 6.1 | 186 | 1432 | | 5.7 | 174 | 1658 | 5.7 | | 174 | 1555 | 5.4 | 165 | | 1657 | 5.0 | 152 | 1553 | | 4.9 | 149 | | | | | | |
| | 2107 | 3.8 | 116 | 2051 | 3.3 | 101 | 2335 | 3.0 | 91 | | 2233 | 2.6 | 79 | 2337 | 1.9 | 58 | 2234 | 1.5 | 46 | | | | | | | | | |
| 3 M | 0111 | 4.6 | 140 | | 18 Tu | 0059 | 4.1 | 125 | | 3 Th | 0350 | 3.6 | 110 | | 18 F | 0252 | 3.4 | 104 | | 3 Sa | 0519 | 3.4 | 104 | | 18 Su | 0410 | 3.4 | 104 |
| | 0829 | 1.1 | 34 | 0801 | | 1.1 | 34 | 1021 | 1.4 | | 43 | 0928 | 1.0 | 30 | | 1055 | 1.7 | 52 | 1006 | | 1.4 | 43 | | | | | | |
| | 1619 | 6.0 | 183 | 1534 | | 5.7 | 174 | 1759 | 5.5 | | 168 | 1650 | 5.3 | 162 | | 1747 | 4.7 | 143 | 1639 | | 4.5 | 137 | | | | | | |
| | 2233 | 3.9 | 119 | 2202 | 3.3 | 101 | | | | 2332 | 2.3 | 70 | | | | 2328 | 1.2 | 37 | | | | | | | | | | |
| 4 Tu | 0210 | 4.3 | 131 | | 19 W | 0156 | 3.9 | 119 | | 4 F | 0040 | 2.6 | 79 | | 19 Sa | 0427 | 3.4 | 104 | | 4 Su | 0030 | 1.5 | 46 | | 19 M | 0551 | 3.7 | 113 |
| | 0936 | 1.3 | 40 | 0859 | | 1.2 | 37 | 0548 | 3.6 | | 110 | 1038 | 1.4 | 43 | | 0653 | 3.7 | 113 | 1127 | | 2.0 | 61 | | | | | | |
| | 1738 | 5.9 | 180 | 1640 | | 5.6 | 171 | 1139 | 1.8 | | 55 | 1745 | 5.1 | 155 | | 1214 | 2.1 | 64 | 1727 | | 4.2 | 128 | | | | | | |
| | | | 2317 | 3.2 | 98 | | | | 1856 | 5.3 | 162 | | | 1838 | 4.4 | 134 | | | | | | | | | | | | |
| 5 W | 0010 | 3.7 | 113 | | 20 Th | 0309 | 3.7 | 113 | | 5 Sa | 0134 | 2.2 | 67 | | 20 Su | 0027 | 1.9 | 58 | | 5 M | 0120 | 1.2 | 37 | | 20 Tu | 0023 | 0.8 | 24 |
| | 0341 | 4.0 | 122 | 1005 | | 1.4 | 43 | 0724 | 3.9 | | 119 | 0610 | 3.6 | 110 | | 0810 | 4.1 | 125 | 0727 | | 4.1 | 125 | | | | | | |
| | 1053 | 1.6 | 49 | 1748 | | 5.6 | 171 | 1257 | 2.1 | | 64 | 1157 | 1.8 | 55 | | 1336 | 2.3 | 70 | 1259 | | 2.4 | 73 | | | | | | |
| | 1852 | 5.9 | 180 | | | 1946 | 5.1 | 155 | | | 1837 | 4.8 | 146 | 1926 | 4.1 | 125 | 1817 | 3.8 | 116 | | | | | | | | | |
| 6 Th | 0133 | 3.4 | 104 | | 21 F | 0030 | 3.0 | 91 | | 6 Su | 0217 | 1.8 | 55 | | 21 M | 0115 | 1.5 | 46 | | 6 Tu | 0202 | 0.9 | 27 | | 21 W | 0116 | 0.3 | 9 |
| | 0554 | 3.9 | 119 | 0448 | | 3.6 | 110 | 0834 | 4.3 | | 131 | 0738 | 4.1 | 125 | | 0909 | 4.5 | 137 | 0843 | | 4.7 | 143 | | | | | | |
| | 1215 | 1.8 | 55 | 1119 | | 1.6 | 49 | 1407 | 2.3 | | 70 | 1317 | 2.1 | 64 | | 1448 | 2.5 | 76 | 1426 | | 2.6 | 79 | | | | | | |
| | 1954 | 5.9 | 180 | 1851 | 5.6 | 171 | 2027 | 4.9 | 149 | | 1922 | 4.6 | 140 | 2005 | 3.8 | 116 | 1905 | 3.6 | 110 | | | | | | | | | |
| 7 F | 0228 | 3.0 | 91 | | 22 Sa | 0127 | 2.7 | 82 | | 7 M | 0251 | 1.5 | 46 | | 22 Tu | 0156 | 1.0 | 30 | | 7 W | 0238 | 0.6 | 18 | | 22 Th | 0205 | 0.0 | 0 |
| | 0736 | 4.1 | 125 | 0631 | | 3.8 | 116 | 0926 | 4.7 | | 143 | 0844 | 4.7 | 143 | | 0955 | 4.8 | 146 | 0942 | | 5.1 | 155 | | | | | | |
| | 1331 | 1.9 | 58 | 1234 | | 1.7 | 52 | 1504 | 2.4 | | 73 | 1427 | 2.3 | 70 | | 1545 | 2.6 | 79 | 1535 | | 2.7 | 82 | | | | | | |
| | 2043 | 5.8 | 177 | 1942 | 5.5 | 168 | 2057 | 4.6 | 140 | | 1958 | 4.4 | 134 | 2032 | 3.6 | 110 | 1948 | 3.5 | 107 | | | | | | | | | |
| 8 Sa | 0307 | 2.7 | 82 | | 23 Su | 0208 | 2.4 | 73 | | 8 Tu | 0317 | 1.3 | 40 | | 23 W | 0233 | 0.6 | 18 | | 8 Th | 0306 | 0.5 | 15 | | 23 F | 0249 | -0.3 | -9 |
| | 0845 | 4.5 | 137 | 0749 | | 4.3 | 131 | 1007 | 5.0 | | 152 | 0937 | 5.3 | 162 | | 1032 | 5.0 | 152 | 1031 | | 5.5 | 168 | | | | | | |
| | 1432 | 2.1 | 64 | 1342 | | 1.9 | 58 | 1548 | 2.6 | | 79 | 1526 | 2.5 | 76 | | 1627 | 2.7 | 82 | 1629 | | 2.8 | 85 | | | | | | |
| | 2120 | 5.7 | 174 | 2022 | 5.4 | 165 | 2116 | 4.4 | 134 | | 2028 | 4.2 | 128 | 2045 | 3.4 | 104 | 2024 | 3.5 | 107 | | | | | | | | | |
| 9 Su | 0335 | 2.4 | 73 | | 24 M | 0240 | 2.0 | 61 | | 9 W | 0337 | 1.2 | 37 | | 24 Th | 0308 | 0.2 | 6 | | 9 F | 0330 | -0.5 | -15 | | | | | |
| | 0934 | 4.8 | 146 | 0846 | | 4.8 | 146 | 1039 | 5.2 | | 158 | 1025 | 5.6 | 171 | | 1103 | 5.1 | 155 | 1114 | | 5.6 | 171 | | | | | | |
| | 1519 | 2.3 | 70 | 1439 | | 2.0 | 61 | 1623 | 2.8 | | 85 | 1617 | 2.8 | 85 | | 1658 | 2.8 | 85 | 1713 | | 2.9 | 88 | | | | | | |
| | 2147 | 5.5 | 168 | 2052 | 5.2 | 158 | 2123 | 4.2 | 128 | | 2123 | 4.2 | 128 | 2053 | 4.1 | 125 | 2100 | 3.6 | 110 | | | | | | | | | |
| 10 M | 0356 | 2.2 | 67 | | 25 Tu | 0308 | 1.6 | 49 | | 10 Th | 0354 | 1.0 | 30 | | 25 F | 0343 | -0.1 | -3 | | 10 Sa | 0352 | 0.2 | 6 | | | | | |
| | 1011 | 5.1 | 155 | 0934 | | 5.3 | 162 | 1105 | 5.3 | | 162 | 1110 | 5.9 | 180 | | 1129 | 5.1 | 155 | 1155 | | 5.6 | 171 | | | | | | |
| | 1556 | 2.5 | 76 | 1529 | | 2.2 | 67 | 1652 | 3.0 | | 91 | 1705 | 3.0 | 91 | | 1725 | 2.9 | 88 | 1753 | | 3.0 | 91 | | | | | | |
| | 2204 | 5.2 | 158 | 2116 | 5.0 | 152 | 2126 | 4.1 | 125 | | 2126 | 4.1 | 125 | 2118 | 4.1 | 125 | 2106 | 3.5 | 107 | | | | | | | | | |
| 11 Tu | 0412 | 2.1 | 64 | | 26 W | 0335 | 1.2 | 37 | | 11 F | 0413 | 0.8 | 24 | | 26 Sa | 0421 | -0.3 | -9 | | 11 Su | 0418 | 0.1 | 3 | | | | | |
| | 1040 | 5.3 | 162 | 1018 | | 5.8 | 177 | 1130 | 5.3 | | 162 | 1157 | 5.9 | 180 | | 1156 | 5.1 | 155 | 1156 | | 5.1 | 155 | | | | | | |
| | 1626 | 2.8 | 85 | 1616 | | 2.6 | 79 | 1721 | 3.1 | | 94 | 1754 | 3.2 | 98 | | 1753 | 3.0 | 91 | 1753 | | 3.0 | 91 | | | | | | |
| | 2211 | 5.0 | 152 | 2136 | 4.9 | 149 | 2137 | 4.1 | 125 | | 2137 | 4.1 | 125 | 2149 | 4.0 | 122 | 2133 | 3.6 | 110 | | | | | | | | | |
| 12 W | 0427 | 1.9 | 58 | | 27 Th | 0405 | 0.8 | 24 | | 12 Sa | 0436 | 0.7 | 21 | | 27 Su | 0503 | -0.3 | -9 | | 12 M | 0449 | 0.0 | 0 | | | | | |
| | 1105 | 5.4 | 165 | 1104 | | 6.1 | 186 | 1159 | 5.4 | | 165 | 1246 | 5.9 | 180 | | 1226 | 5.2 | 158 | 1314 | | 5.4 | 165 | | | | | | |
| | 1654 | 3.0 | 91 | 1702 | | 2.9 | 88 | 1756 | 3.2 | | 98 | 1847 | 3.3 | 101 | | 1829 | 2.9 | 88 | 1829 | | 2.9 | 88 | | | | | | |
| | 2215 | 4.8 | 146 | 2158 | 4.7 | 143 | 2201 | 4.0 | 122 | | 2201 | 4.0 | 122 | 2230 | 4.0 | 122 | 2215 | 3.6 | 110 | | | | | | | | | |
| 13 Th | 0444 | 1.7 | 52 | | 28 F | 0440 | 0.5 | 15 | | 13 Su | 0508 | 0.6 | 18 | | 28 M | 0550 | -0.1 | -3 | | 13 Tu | 0529 | 0.0 | 0 | | | | | |
| | 1132 | 5.5 | 168 | 1153 | | 6.2 | 189 | 1235 | 5.4 | | 165 | 1338 | 5.8 | 177 | | 1303 | 5.2 | 158 | 1353 | | 5.3 | 162 | | | | | | |
| | 1725 | 3.1 | 94 | 1752 | | 3.2 | 98 | 1840 | 3.2 | | 98 | 1946 | 3.2 | 98 | | 1913 | 2.8 | 85 | 2006 | | 2.4 | 73 | | | | | | |
| | 2227 | 4.8 | 146 | 2224 | 4.6 | 140 | 2239 | 4.0 | 122 | | 2325 | 3.8 | 116 | 2325 | 3.8 | 116 | 2309 | 3.6 | 110 | | | | | | | | | |
| 14 F | 0508 | 1.5 | 46 | | 29 Sa | 0521 | 0.4 | 12 | | 14 M | 0548 | 0.5 | 15 | | 29 Tu | 0643 | 0.1 | 3 | | 14 W | 0615 | 0.1 | 3 | | | | | |
| | 1205 | 5.6 | 171 | 1248 | | 6.2 | 189 | 1320 | 5.5 | | 168 | 1429 | 5.6 | 171 | | 1343 | 5.3 | 162 | 1432 | | 5.1 | 155 | | | | | | |
| | 1803 | 3.3 | 101 | 1849 | | 3.5 | 107 | 1933 | 3.1 | | 94 | 2047 | 3.0 | 91 | | 2002 | 2.6 | 79 | 2053 | | 2.1 | 64 | | | | | | |
| | 2251 | 4.7 | 143 | 2259 | 4.5 | 137 | 2327 | 3.9 | 119 | | 2327 | 3.9 | 119 | | | | | | | | | | | | | | | |
| 15 Sa | 0540 | 1.3 | 40 | | 30 Su | 0609 | 0.4 | 12 | | 15 Tu | 0636 | 0.5 | 15 | | 30 W | 0036 | 3.6 | 110 | | 15 Th | 0013 | 3.5 | 107 | | | | | |
| | 1246 | 5.7 | 174 | 1348 | | 6.1 | 186 | 1409 | 5.5 | | 168 | 0740 | 0.4 | 12 | | 0706 | 0.2 | 6 | 0809 | | 0.8 | 24 | | | | | | |
| | 1851 | 3.3 | 101 | 1954 | | 3.6 | 110 | 2032 | 3.0 | | 91 | 1519 | 5.5 | 168 | | 1426 | 5.3 | 162 | 1510 | | 4.9 | 149 | | | | | | |
| | 2326 | 4.5 | 137 | 2344 | 4.3 | 131 | | | 2145 | 2.7 | 82 | | | 2052 | 2.3 | 70 | 2141 | 1.7 | 52 | | | | | | | | | |
| | | | | | 31 M | 0703 | 0.5 | 15 | | | | | | | | | 31 Sa | 0312 | 3.4 | 104 | | | | | | | | |
| | | | | </ | | | | | | | | | | | | | | | | | | | | | | | | |

Kure, Japan, 2011

Times and Heights of High and Low Waters

| January | | | | February | | | | March | | | | | | | | | | | | | | | | | | | | | |
|-----------------|------|--------|-----|----------|-----------------|--------|------|-------|----|-----------------|------|------|-----|--------|-----------------|------|------|-----|--|-----------------|------|------|-----|--|-----------------|------|------|-----|--|
| Time | | Height | | Time | | Height | | Time | | Height | | Time | | Height | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | | | | | | |
| 1 Sa | 0052 | 1.4 | 43 | | 16 Su | 0027 | 2.4 | 72 | | 1 Tu | 0234 | 0.8 | 25 | | 16 W | 0202 | 0.9 | 26 | | | | | | | | | | | |
| | 0741 | 10.0 | 305 | | | 0724 | 9.1 | 278 | | | 0911 | 10.6 | 323 | | | 0839 | 10.6 | 322 | | 1 Tu | 0132 | 2.1 | 64 | | 16 W | 0036 | 2.2 | 68 | |
| | 1340 | 4.7 | 142 | | | 1323 | 5.1 | 154 | | | 1512 | 3.5 | 108 | | | 1444 | 3.4 | 103 | | | 1418 | 3.9 | 118 | | | 0722 | 9.7 | 295 | |
| | 1911 | 9.0 | 273 | | | 1847 | 8.3 | 252 | | | 2052 | 9.3 | 284 | | | 2026 | 9.6 | 293 | | | 2000 | 8.6 | 262 | | | 1334 | 3.9 | 119 | |
| | | | | | | | | | | | | | | | | | | | | | 1916 | 8.8 | 267 | | | | | | |
| 2 Su | 0150 | 0.8 | 25 | | 17 M | 0126 | 1.5 | 47 | | 2 W | 0316 | 0.4 | 12 | | 17 Th | 0251 | -0.1 | -3 | | 2 W | 0220 | 1.5 | 46 | | 17 Th | 0140 | 1.2 | 38 | |
| | 0834 | 10.6 | 324 | | | 0815 | 9.9 | 303 | | | 0946 | 10.9 | 333 | | | 0919 | 11.3 | 345 | | | 0849 | 10.2 | 312 | | | 0809 | 10.5 | 321 | |
| | 1434 | 4.2 | 129 | | | 1416 | 4.4 | 135 | | | 1546 | 3.0 | 92 | | | 1524 | 2.4 | 74 | | | 1452 | 3.1 | 94 | | | 1418 | 2.7 | 83 | |
| | 2007 | 9.3 | 282 | | | 1945 | 8.9 | 270 | | | 2131 | 9.8 | 300 | | | 2114 | 10.6 | 322 | | | 2042 | 9.4 | 286 | | | 2012 | 10.0 | 304 | |
| 3 M | 0239 | 0.3 | 9 | | 18 Tu | 0218 | 0.7 | 20 | | 3 Th | 0352 | 0.1 | 4 | | 18 F | 0335 | -0.8 | -24 | | 3 Th | 0259 | 1.0 | 31 | | 18 F | 0230 | 0.4 | 12 | |
| | 0919 | 11.1 | 337 | | | 0859 | 10.7 | 327 | | | 1017 | 11.1 | 338 | | | 0957 | 11.8 | 361 | | | 0920 | 10.6 | 323 | | | 0850 | 11.2 | 342 | |
| | 1520 | 3.8 | 117 | | | 1500 | 3.8 | 115 | | | 1618 | 2.6 | 79 | | | 1602 | 1.5 | 47 | | | 1523 | 2.5 | 75 | | | 1459 | 1.6 | 48 | |
| | 2055 | 9.6 | 292 | | | 2036 | 9.5 | 290 | | | 2206 | 10.2 | 311 | | | 2159 | 11.3 | 345 | | | 2117 | 10.0 | 306 | | | 2059 | 11.1 | 338 | |
| 4 Tu | 0324 | 0.0 | 0 | | 19 W | 0305 | -0.2 | -5 | | 4 F | 0425 | 0.1 | 3 | | 19 Sa | 0416 | -1.0 | -32 | | 4 F | 0332 | 0.8 | 23 | | 19 Sa | 0315 | -0.1 | -4 | |
| | 1000 | 11.3 | 345 | | | 0940 | 11.4 | 346 | | | 1046 | 11.2 | 341 | | | 1034 | 12.1 | 370 | | | 0949 | 10.8 | 329 | | | 0928 | 11.7 | 356 | |
| | 1600 | 3.5 | 107 | | | 1541 | 3.1 | 96 | | | 1649 | 2.3 | 69 | | | 1640 | 0.8 | 25 | | | 1552 | 1.9 | 59 | | | 1537 | 0.6 | 18 | |
| | 2138 | 9.9 | 301 | | | 2124 | 10.2 | 310 | | | 2239 | 10.4 | 316 | | | 2242 | 11.7 | 358 | | | 2150 | 10.5 | 320 | | | 2144 | 11.9 | 362 | |
| 5 W | 0404 | -0.1 | -4 | | 20 Th | 0349 | -0.8 | -24 | | 5 Sa | 0455 | 0.3 | 8 | | 20 Su | 0456 | -0.9 | -26 | | 5 Sa | 0403 | 0.7 | 21 | | 20 Su | 0356 | -0.2 | -7 | |
| | 1036 | 11.4 | 347 | | | 1019 | 11.8 | 360 | | | 1114 | 11.2 | 340 | | | 1110 | 12.1 | 370 | | | 1015 | 10.9 | 333 | | | 1005 | 11.9 | 362 | |
| | 1637 | 3.2 | 99 | | | 1622 | 2.5 | 77 | | | 1717 | 2.0 | 61 | | | 1718 | 0.3 | 10 | | | 1620 | 1.5 | 46 | | | 1615 | -0.2 | -5 | |
| | 2217 | 10.0 | 305 | | | 2209 | 10.7 | 326 | | | 2311 | 10.4 | 317 | | | 2325 | 11.8 | 360 | | | 2221 | 10.8 | 328 | | | 2227 | 12.3 | 375 | |
| 6 Th | 0440 | -0.1 | -2 | | 21 F | 0431 | -1.1 | -34 | | 6 Su | 0524 | 0.6 | 18 | | 21 M | 0536 | -0.2 | -7 | | 6 Su | 0431 | 0.8 | 24 | | 21 M | 0436 | 0.1 | 3 | |
| | 1110 | 11.4 | 346 | | | 1058 | 12.1 | 368 | | | 1139 | 11.1 | 337 | | | 1146 | 11.8 | 361 | | | 1041 | 11.0 | 334 | | | 1041 | 11.8 | 360 | |
| | 1711 | 3.1 | 93 | | | 1701 | 2.0 | 61 | | | 1746 | 1.8 | 56 | | | 1756 | 0.1 | 3 | | | 1647 | 1.2 | 37 | | | 1653 | -0.6 | -18 | |
| | 2253 | 10.0 | 306 | | | 2254 | 11.0 | 335 | | | 2343 | 10.3 | 313 | | | | | | | | 2251 | 10.9 | 331 | | | 2309 | 12.3 | 375 | |
| 7 F | 0514 | 0.2 | 6 | | 22 Sa | 0513 | -1.0 | -32 | | 7 M | 0552 | 1.1 | 33 | | 22 Tu | 0008 | 11.5 | 350 | | 7 M | 0459 | 1.0 | 32 | | 22 Tu | 0516 | 0.8 | 24 | |
| | 1142 | 11.2 | 342 | | | 1136 | 12.1 | 370 | | | 1205 | 10.8 | 330 | | | 0615 | 0.8 | 24 | | | 1106 | 10.9 | 332 | | | 1116 | 11.5 | 349 | |
| | 1744 | 2.9 | 89 | | | 1741 | 1.6 | 48 | | | 1815 | 1.8 | 54 | | | 1220 | 11.3 | 344 | | | 1714 | 1.0 | 31 | | | 1731 | -0.6 | -19 | |
| | 2327 | 9.9 | 303 | | | 2338 | 11.1 | 337 | | | | | | | | 1835 | 0.3 | 8 | | | 2322 | 10.8 | 330 | | | 2352 | 11.9 | 363 | |
| 8 Sa | 0546 | 0.6 | 18 | | 23 Su | 0553 | -0.6 | -17 | | 8 Tu | 0016 | 10.0 | 305 | | 23 W | 0052 | 10.9 | 331 | | 8 Tu | 0528 | 1.5 | 45 | | 23 W | 0555 | 1.8 | 54 | |
| | 1211 | 11.0 | 336 | | | 1213 | 11.9 | 364 | | | 0621 | 1.7 | 53 | | | 0654 | 2.1 | 63 | | | 1131 | 10.7 | 326 | | | 1151 | 10.9 | 331 | |
| | 1816 | 2.9 | 87 | | | 1821 | 1.3 | 41 | | | 1231 | 10.4 | 318 | | | 1254 | 10.5 | 319 | | | 1742 | 1.0 | 29 | | | 1809 | -0.3 | -8 | |
| | | | | | | | | | | | 1845 | 1.8 | 56 | | | 1915 | 0.7 | 22 | | | 2354 | 10.6 | 324 | | | | | | |
| 9 Su | 0002 | 9.7 | 295 | | 24 M | 0022 | 10.8 | 329 | | 9 W | 0051 | 9.6 | 292 | | 24 Th | 0141 | 10.0 | 304 | | 9 W | 0557 | 2.0 | 62 | | 24 Th | 0036 | 11.2 | 342 | |
| | 0616 | 1.2 | 36 | | | 0634 | 0.3 | 10 | | | 0652 | 2.5 | 77 | | | 0737 | 3.5 | 106 | | | 1157 | 10.3 | 315 | | | 0635 | 2.9 | 88 | |
| | 1240 | 10.7 | 327 | | | 1250 | 11.5 | 349 | | | 1258 | 9.9 | 302 | | | 1329 | 9.5 | 289 | | | 1811 | 1.0 | 32 | | | 1225 | 10.1 | 307 | |
| | 1849 | 2.9 | 87 | | | 1902 | 1.3 | 39 | | | 1917 | 2.0 | 62 | | | 2000 | 1.5 | 45 | | | | | | | | 1848 | 0.5 | 14 | |
| 10 M | 0038 | 9.3 | 284 | | 25 Tu | 0109 | 10.3 | 314 | | 10 Th | 0131 | 9.1 | 276 | | 25 F | 0242 | 9.1 | 276 | | 10 Th | 0028 | 10.3 | 313 | | 25 F | 0123 | 10.3 | 315 | |
| | 0647 | 1.9 | 58 | | | 0716 | 1.5 | 47 | | | 0727 | 3.5 | 106 | | | 0830 | 4.8 | 146 | | | 0628 | 2.8 | 84 | | | 0719 | 4.0 | 122 | |
| | 1308 | 10.3 | 314 | | | 1327 | 10.8 | 328 | | | 1327 | 9.2 | 281 | | | 1410 | 8.4 | 257 | | | 1224 | 9.8 | 299 | | | 1301 | 9.1 | 278 | |
| | 1923 | 2.9 | 89 | | | 1946 | 1.5 | 45 | | | 1955 | 2.4 | 73 | | | 2100 | 2.3 | 71 | | | 1842 | 1.3 | 41 | | | 1931 | 1.4 | 44 | |
| 11 Tu | 0118 | 8.9 | 270 | | 26 W | 0201 | 9.6 | 292 | | 11 F | 0220 | 8.5 | 259 | | 26 Sa | 0419 | 8.4 | 256 | | 11 F | 0105 | 9.8 | 298 | | 26 Sa | 0222 | 9.4 | 286 | |
| | 0721 | 2.8 | 84 | | | 0801 | 2.9 | 89 | | | 0809 | 4.5 | 136 | | | 1007 | 5.7 | 174 | | | 0702 | 3.6 | 109 | | | 0814 | 5.0 | 153 | |
| | 1339 | 9.8 | 298 | | | 1406 | 9.9 | 301 | | | 1402 | 8.5 | 258 | | | 1517 | 7.5 | 229 | | | 1252 | 9.2 | 279 | | | 1342 | 8.1 | 248 | |
| | 2002 | 3.1 | 93 | | | 2036 | 1.8 | 56 | | | 2044 | 2.8 | 85 | | | 2241 | 2.9 | 88 | | | 1917 | 1.8 | 55 | | | 2027 | 2.5 | 77 | |
| 12 W | 0205 | 8.3 | 254 | | 27 Th | 0307 | 8.9 | 270 | | 12 Sa | 0332 | 8.0 | 244 | | 27 Su | 0611 | 8.6 | 261 | | 12 Sa | 0149 | 9.2 | 280 | | 27 Su | 0349 | 8.7 | 265 | |
| | 0801 | 3.7 | 113 | | | 0857 | 4.3 | 132 | | | 0913 | 5.4 | 164 | | | 1224 | 5.5 | 168 | | | 0743 | 4.5 | 136 | | | 0958 | 5.6 | 171 | |
| | 1415 | 9.2 | 279 | | | 1452 | 8.9 | 272 | | | 1455 | 7.8 | 237 | | | 1731 | 7.2 | 219 | | | 1325 | 8.4 | 257 | | | 1454 | 7.3 | 221 | |
| | 2049 | 3.2 | 97 | | | 2142 | 2.3 | 69 | | | 2200 | 3.0 | 92 | | | | | | | | 2001 | 2.4 | 72 | | | 2205 | 3.3 | 101 | |
| 13 Th | 0308 | 7.9 | 241 | | 28 F | 0443 | 8.5 | 258 | | 13 Su | 0523 | 8.1 | 246 | | 28 M | 0024 | 2.7 | 82 | | 13 Su | 0251 | 8.6 | 261 | | 28 M | 0531 | 8.6 | 262 | |
| | 0853 | 4.7 | 142 | | | 1026 | 5.4 | 164 | | | 1119 | 5.8 | 176 | | | 0725 | 9.1 | 278 | | | 0843 | 5.3 | 161 | | | 1156 | 5.2 | 160 | |
| | 1501 | 8.5 | 259 | | | 1601 | 8.1 | 247 | | | 1632 | 7.4 | 225 | | | 1334 | 4.7 | 143 | | | 1415 | 7.7 | 235 | | | 1715 | 7.1 | 215 | |
| | 2153 | 3.2 | 99 | | | 2313 | 2.4 | 72 | | | 2342 | 2.7 | 83 | | | 1904 | 7.8 | 237 | | | 2109 | 2.9 | 88 | | | | | | |

Moji, Japan, 2011

Times and Heights of High and Low Waters

| January | | | | February | | | | March | | | | | | | | | | | |
|-----------------|--------|------|------|----------|----------------|-----------------|--------|-------|------|--------|-----------------|------|-----------------|------|-----------------|------|--------|------|-----|
| Time | Height | | Time | Height | | Time | Height | | Time | Height | | Time | Height | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | |
| 1 Sa | 0029 | 0.9 | 26 | | | 1 Tu | 0211 | 0.4 | 11 | | 1 Tu | 0111 | 1.3 | 39 | 16 W | 0010 | 1.3 | 40 | |
| | 0731 | 5.6 | 172 | | | | 0907 | 6.0 | 184 | | | | 0811 | 5.6 | | 170 | 0704 | 5.4 | 165 |
| | 1258 | 2.8 | 84 | | | | 1432 | 1.8 | 56 | | | | 1337 | 2.2 | | 67 | 1252 | 2.3 | 70 |
| | 1829 | 6.1 | 185 | | | | 2013 | 6.2 | 189 | | | | 1925 | 5.7 | | 173 | 1833 | 5.8 | 176 |
| 2 Su | 0127 | 0.4 | 12 | | | 2 W | 0250 | 0.0 | 0 | | 2 W | 0156 | 0.8 | 25 | 17 Th | 0112 | 0.6 | 18 | |
| | 0828 | 6.0 | 183 | | | | 0939 | 6.2 | 190 | | | | 0844 | 5.9 | | 181 | 0751 | 6.0 | 182 |
| | 1354 | 2.4 | 73 | | | | 1508 | 1.4 | 44 | | | | 1415 | 1.6 | | 48 | 1341 | 1.4 | 42 |
| | 1925 | 6.3 | 193 | | | | 2052 | 6.4 | 196 | | | | 2008 | 6.1 | | 185 | 1936 | 6.4 | 195 |
| 3 M | 0217 | 0.0 | 0 | | | 3 Th | 0325 | -0.2 | -6 | | 3 Th | 0232 | 0.5 | 14 | 18 F | 0201 | 0.0 | -1 | |
| | 0914 | 6.3 | 191 | | | | 1007 | 6.4 | 194 | | | | 0911 | 6.2 | | 188 | 0832 | 6.5 | 198 |
| | 1440 | 2.1 | 63 | | | | 1541 | 1.1 | 34 | | | | 1447 | 1.1 | | 33 | 1424 | 0.5 | 15 |
| | 2011 | 6.5 | 199 | | | | ● 2125 | 6.6 | 201 | | | | ○ 2130 | 7.2 | | 218 | 2032 | 6.9 | 211 |
| 4 Tu | 0300 | -0.3 | -8 | | | 4 F | 0355 | -0.3 | -8 | | 4 F | 0303 | 0.2 | 7 | 19 Sa | 0246 | -0.4 | -13 | |
| | 0953 | 6.4 | 196 | | | | 1030 | 6.4 | 195 | | | | 0934 | 6.3 | | 193 | 0908 | 6.9 | 210 |
| | 1521 | 1.8 | 55 | | | | 1611 | 0.9 | 28 | | | | 1518 | 0.7 | | 22 | 1505 | -0.2 | -7 |
| | ● 2051 | 6.7 | 203 | | | | 2156 | 6.6 | 202 | | | | 2116 | 6.5 | | 199 | 2123 | 7.3 | 221 |
| 5 W | 0338 | -0.4 | -11 | | | 5 Sa | 0423 | -0.2 | -5 | | 5 Sa | 0331 | 0.1 | 4 | 20 Su | 0327 | -0.5 | -16 | |
| | 1026 | 6.5 | 197 | | | | 1048 | 6.4 | 196 | | | | 0954 | 6.4 | | 196 | 0942 | 7.1 | 217 |
| | 1558 | 1.6 | 49 | | | | 1640 | 0.8 | 25 | | | | 1546 | 0.5 | | 14 | 1545 | -0.8 | -23 |
| | 2127 | 6.7 | 205 | | | | ○ 2226 | 6.6 | 201 | | | | ● 2146 | 6.6 | | 202 | ○ 2210 | 7.3 | 224 |
| 6 Th | 0413 | -0.3 | -10 | | | 6 Su | 0449 | 0.0 | 1 | | 6 Su | 0357 | 0.2 | 5 | 21 M | 0406 | -0.3 | -9 | |
| | 1055 | 6.4 | 196 | | | | 1104 | 6.4 | 196 | | | | 1012 | 6.5 | | 199 | 1013 | 7.2 | 220 |
| | 1631 | 1.5 | 46 | | | | 1708 | 0.8 | 24 | | | | 1613 | 0.3 | | 9 | 1624 | -1.0 | -29 |
| | 2201 | 6.7 | 204 | | | | 2257 | 6.5 | 197 | | | | 2216 | 6.6 | | 202 | 2253 | 7.2 | 220 |
| 7 F | 0444 | -0.2 | -5 | | | 7 M | 0514 | 0.4 | 11 | | 7 M | 0423 | 0.4 | 11 | 22 Tu | 0444 | 0.2 | 5 | |
| | 1118 | 6.4 | 194 | | | | 1121 | 6.4 | 195 | | | | 1029 | 6.6 | | 200 | 1041 | 7.2 | 218 |
| | 1703 | 1.5 | 46 | | | | 1736 | 0.8 | 25 | | | | 1641 | 0.2 | | 7 | 1703 | -0.9 | -26 |
| | 2235 | 6.6 | 200 | | | | 2329 | 6.2 | 190 | | | | 2245 | 6.6 | | 200 | 2333 | 6.9 | 210 |
| 8 Sa | 0513 | 0.1 | 4 | | | 8 Tu | 0541 | 0.8 | 24 | | 8 Tu | 0449 | 0.6 | 19 | 23 W | 0521 | 0.9 | 26 | |
| | 1137 | 6.3 | 192 | | | | 1138 | 6.3 | 192 | | | | 1045 | 6.5 | | 199 | 1106 | 6.9 | 211 |
| | 1734 | 1.5 | 47 | | | | 1807 | 1.0 | 30 | | | | 1708 | 0.3 | | 9 | 1742 | -0.5 | -14 |
| | 2309 | 6.4 | 194 | | | | 2348 | 6.7 | 205 | | | | 2315 | 6.4 | | 195 | | | |
| 9 Su | 0541 | 0.5 | 15 | | | 9 W | 0002 | 5.9 | 180 | | 9 W | 0516 | 1.0 | 31 | 24 Th | 0013 | 6.4 | 194 | |
| | 1157 | 6.2 | 189 | | | | 0608 | 1.3 | 40 | | | | 1102 | 6.5 | | 197 | 0558 | 1.6 | 48 |
| | 1806 | 1.6 | 49 | | | | 1159 | 6.1 | 186 | | | | 1738 | 0.5 | | 14 | 1132 | 6.6 | 201 |
| | 2346 | 6.1 | 185 | | | | 1840 | 1.2 | 37 | | | | 2343 | 6.1 | | 187 | 1822 | 0.2 | 5 |
| 10 M | 0609 | 1.0 | 30 | | | 10 Th | 0038 | 5.5 | 168 | | 10 Th | 0543 | 1.5 | 46 | 25 F | 0053 | 5.8 | 176 | |
| | 1219 | 6.1 | 185 | | | | 0638 | 1.9 | 59 | | | | 1121 | 6.3 | | 191 | 0636 | 2.3 | 71 |
| | 1841 | 1.7 | 53 | | | | 1224 | 5.8 | 177 | | | | 1809 | 0.8 | | 23 | 1204 | 6.1 | 187 |
| | | | | | | | 1921 | 1.5 | 47 | | | | ○ 2037 | 1.6 | | 48 | 1907 | 1.0 | 29 |
| 11 Tu | 0027 | 5.7 | 173 | | | 11 F | 0123 | 5.1 | 154 | | 11 Sa | 0014 | 5.8 | 176 | 26 Sa | 0143 | 5.2 | 157 | |
| | 0640 | 1.5 | 46 | | | | 0713 | 2.6 | 78 | | | | 0612 | 2.0 | | 62 | 0723 | 3.0 | 92 |
| | 1246 | 5.9 | 179 | | | | 1258 | 5.4 | 166 | | | | 1144 | 6.0 | | 183 | 1248 | 5.5 | 169 |
| | 1923 | 1.9 | 59 | | | | ○ 2016 | 1.9 | 57 | | | | 1846 | 1.1 | | 35 | ○ 2005 | 1.7 | 52 |
| 12 W | 0116 | 5.2 | 160 | | | 12 Sa | 0232 | 4.6 | 141 | | 12 Su | 0051 | 5.3 | 163 | 27 Su | 0316 | 4.7 | 144 | |
| | 0716 | 2.1 | 65 | | | | 0805 | 3.1 | 96 | | | | 0646 | 2.6 | | 79 | 0844 | 3.5 | 107 |
| | 1322 | 5.6 | 171 | | | | 1358 | 5.1 | 154 | | | | 1218 | 5.6 | | 172 | 1410 | 5.0 | 151 |
| | ○ 2016 | 2.1 | 64 | | | | 2142 | 2.0 | 61 | | | | 1935 | 1.6 | | 48 | 2138 | 2.2 | 68 |
| 13 Th | 0220 | 4.9 | 148 | | | 13 Su | 0441 | 4.5 | 136 | | 13 M | 0147 | 4.9 | 149 | 28 M | 0529 | 4.8 | 145 | |
| | 0802 | 2.7 | 83 | | | | 1004 | 3.5 | 108 | | | | 0735 | 3.1 | | 96 | 1058 | 3.4 | 104 |
| | 1414 | 5.3 | 162 | | | | 1604 | 4.9 | 149 | | | | 1312 | 5.2 | | 158 | 1627 | 4.8 | 147 |
| | 2128 | 2.2 | 66 | | | | 2324 | 1.7 | 53 | | | | ○ 2051 | 1.9 | | 59 | 2328 | 2.2 | 68 |
| 14 F | 0352 | 4.6 | 141 | | | 14 M | 0631 | 4.8 | 147 | | 14 M | 0343 | 4.6 | 140 | 29 Tu | 0646 | 5.1 | 156 | |
| | 0913 | 3.2 | 98 | | | | 1213 | 3.2 | 98 | | | | 0927 | 3.5 | | 108 | 1220 | 2.8 | 86 |
| | 1538 | 5.2 | 157 | | | | 1743 | 5.2 | 160 | | | | 1515 | 4.9 | | 148 | 1801 | 5.2 | 157 |
| | 2252 | 1.9 | 59 | | | | | | | | | | 2242 | 1.9 | | 57 | | | |
| 15 Sa | 0535 | 4.8 | 145 | | | 15 Tu | 0040 | 1.0 | 32 | | 15 Tu | 0553 | 4.9 | 148 | 30 W | 0039 | 1.9 | 57 | |
| | 1109 | 3.4 | 103 | | | | 0737 | 5.3 | 163 | | | | 1145 | 3.1 | | 96 | 0729 | 5.5 | 168 |
| | 1708 | 5.3 | 161 | | | | 1317 | 2.5 | 77 | | | | 1717 | 5.2 | | 157 | 1309 | 2.1 | 65 |
| | | | | | | | 1849 | 5.8 | 176 | | | | | | | 1903 | 5.6 | 170 | |
| | | | | | 31 M | 0122 | 0.8 | 25 | | | | | 31 Th | 0126 | 1.5 | 45 | | | |
| | | | | | | 0829 | 5.7 | 174 | | | | | | 0801 | 5.8 | 178 | | | |
| | | | | | | 1350 | 2.4 | 72 | | | | | | 1346 | 1.5 | 46 | | | |
| | | | | | | 1927 | 5.9 | 179 | | | | | 1947 | 6.0 | 182 | | | | |

Time meridian 135° E. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
 Heights are referred to the chart datum of soundings.

Moji, Japan, 2011

Times and Heights of High and Low Waters

| April | | | | May | | | | June | | | | | | | | | | | | | | | | | | |
|-----------------|--------|-----|------|-----------------|------|------|--------|-----------------|------|--------|-----|-----------------|--------|------|-----|-----------------|------|-----|-----|-----------------|------|-----|-----|------|-----|-----|
| Time | Height | | Time | Height | | Time | Height | | Time | Height | | Time | Height | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | | | |
| 1 F | 0202 | 1.1 | 35 | 16 Sa | 0133 | 0.7 | 21 | 1 Su | 0157 | 1.9 | 57 | 16 M | 0155 | 1.6 | 49 | 1 W | 0238 | 2.5 | 76 | 16 Th | 0314 | 2.4 | 74 | | | |
| | 0827 | 6.1 | 187 | | 0746 | 6.6 | 202 | | 0758 | 6.4 | 195 | | 0740 | 7.1 | 215 | | 0818 | 6.9 | 211 | | 0844 | 7.4 | 226 | | | |
| | 1418 | 1.0 | 30 | | 1357 | 0.2 | 6 | | 1415 | 0.7 | 21 | | 1417 | -0.2 | -7 | | 1455 | 0.5 | 15 | | 1534 | 0.1 | 2 | 1534 | 0.1 | 2 |
| | 2024 | 6.3 | 192 | | 2019 | 6.9 | 211 | | 2034 | 6.5 | 198 | | 2059 | 7.1 | 217 | | 2130 | 6.9 | 209 | | 2225 | 7.2 | 220 | 2225 | 7.2 | 220 |
| 2 Sa | 0233 | 1.0 | 29 | 17 Su | 0220 | 0.5 | 14 | 2 M | 0230 | 1.7 | 53 | 17 Tu | 0242 | 1.6 | 49 | 2 Th | 0315 | 2.4 | 73 | 17 F | 0357 | 2.4 | 72 | | | |
| | 0850 | 6.3 | 193 | | 0826 | 7.0 | 213 | | 0825 | 6.6 | 202 | | 0823 | 7.3 | 221 | | 0852 | 7.1 | 215 | | 0927 | 7.4 | 226 | | | |
| | 1448 | 0.6 | 17 | | 1441 | -0.5 | -15 | | 1447 | 0.4 | 11 | | 1503 | -0.5 | -16 | | 1533 | 0.3 | 9 | | 1615 | 0.2 | 5 | 1615 | 0.2 | 5 |
| | 2058 | 6.5 | 199 | | 2111 | 7.2 | 220 | | 2110 | 6.7 | 204 | | 2148 | 7.2 | 220 | | 2207 | 7.0 | 212 | | 2304 | 7.2 | 218 | 2304 | 7.2 | 218 |
| 3 Su | 0302 | 0.9 | 26 | 18 M | 0303 | 0.5 | 14 | 3 Tu | 0303 | 1.7 | 51 | 18 W | 0327 | 1.7 | 52 | 3 F | 0352 | 2.3 | 71 | 18 Sa | 0437 | 2.4 | 72 | | | |
| | 0911 | 6.5 | 199 | | 0902 | 7.2 | 219 | | 0853 | 6.8 | 206 | | 0903 | 7.3 | 223 | | 0925 | 7.1 | 217 | | 1007 | 7.3 | 224 | | | |
| | 1517 | 0.3 | 8 | | 1522 | -0.9 | -27 | | 1519 | 0.1 | 4 | | 1546 | -0.6 | -17 | | 1611 | 0.2 | 6 | | 1654 | 0.4 | 13 | 1654 | 0.4 | 13 |
| | 2130 | 6.7 | 203 | | 2158 | 7.3 | 223 | | 2145 | 6.8 | 207 | | 2233 | 7.2 | 218 | | 2244 | 7.0 | 212 | | 2337 | 7.0 | 214 | 2337 | 7.0 | 214 |
| 4 M | 0330 | 0.9 | 26 | 19 Tu | 0345 | 0.7 | 21 | 4 W | 0335 | 1.7 | 52 | 19 Th | 0409 | 1.9 | 57 | 4 Sa | 0430 | 2.4 | 72 | 19 Su | 0515 | 2.4 | 74 | | | |
| | 0932 | 6.6 | 202 | | 0936 | 7.3 | 222 | | 0919 | 6.9 | 209 | | 0942 | 7.3 | 222 | | 0959 | 7.1 | 217 | | 1046 | 7.2 | 220 | | | |
| | 1546 | 0.1 | 2 | | 1603 | -1.0 | -30 | | 1551 | 0.0 | 1 | | 1628 | -0.4 | -11 | | 1650 | 0.3 | 8 | | 1729 | 0.8 | 25 | 1729 | 0.8 | 25 |
| | 2202 | 6.7 | 204 | | 2242 | 7.2 | 219 | | 2219 | 6.8 | 207 | | 2314 | 7.0 | 212 | | 2320 | 6.9 | 211 | | 1729 | 0.8 | 25 | 1729 | 0.8 | 25 |
| 5 Tu | 0358 | 1.0 | 29 | 20 W | 0425 | 1.1 | 33 | 5 Th | 0407 | 1.8 | 55 | 20 F | 0450 | 2.1 | 64 | 5 Su | 0508 | 2.4 | 73 | 20 M | 0006 | 6.9 | 209 | | | |
| | 0952 | 6.7 | 204 | | 1007 | 7.2 | 220 | | 0945 | 6.9 | 209 | | 1019 | 7.1 | 217 | | 1037 | 7.1 | 215 | | 0552 | 2.5 | 77 | | | |
| | 1614 | 0.0 | 0 | | 1643 | -0.8 | -24 | | 1625 | 0.1 | 2 | | 1708 | 0.0 | 1 | | 1730 | 0.4 | 13 | | 1125 | 7.0 | 212 | 1125 | 7.0 | 212 |
| | 2232 | 6.7 | 203 | | 2323 | 6.9 | 210 | | 2251 | 6.7 | 204 | | 2353 | 6.7 | 204 | | 2356 | 6.8 | 208 | | 1803 | 1.3 | 40 | 1803 | 1.3 | 40 |
| 6 W | 0426 | 1.2 | 36 | 21 Th | 0504 | 1.6 | 48 | 6 F | 0441 | 2.0 | 61 | 21 Sa | 0530 | 2.4 | 72 | 6 M | 0550 | 2.5 | 75 | 21 Tu | 0032 | 6.7 | 204 | | | |
| | 1012 | 6.7 | 204 | | 1038 | 7.0 | 213 | | 1011 | 6.8 | 207 | | 1057 | 6.9 | 210 | | 1120 | 6.9 | 210 | | 0629 | 2.7 | 82 | | | |
| | 1644 | 0.0 | 1 | | 1723 | -0.3 | -10 | | 1700 | 0.2 | 7 | | 1748 | 0.6 | 17 | | 1813 | 0.8 | 23 | | 1207 | 6.7 | 203 | 1207 | 6.7 | 203 |
| | 2302 | 6.5 | 199 | | 2324 | 6.6 | 200 | | 2324 | 6.6 | 200 | | 1748 | 0.6 | 17 | | 1813 | 0.8 | 23 | | 1836 | 1.9 | 57 | 1836 | 1.9 | 57 |
| 7 Th | 0456 | 1.5 | 45 | 22 F | 0003 | 6.5 | 197 | 7 Sa | 0515 | 2.2 | 68 | 22 Su | 0029 | 6.4 | 195 | 7 Tu | 0035 | 6.7 | 204 | 22 W | 0058 | 6.5 | 199 | | | |
| | 1032 | 6.6 | 201 | | 0543 | 2.1 | 63 | | 1040 | 6.7 | 204 | | 0611 | 2.7 | 81 | | 0636 | 2.5 | 77 | | 0711 | 2.8 | 86 | | | |
| | 1715 | 0.2 | 7 | | 1111 | 6.7 | 204 | | 1737 | 0.5 | 14 | | 1138 | 6.5 | 199 | | 1212 | 6.6 | 202 | | 1255 | 6.3 | 192 | 1255 | 6.3 | 192 |
| | 2331 | 6.3 | 193 | | 1804 | 0.3 | 10 | | 2357 | 6.3 | 193 | | 1827 | 1.2 | 36 | | 1859 | 1.2 | 37 | | 1911 | 2.4 | 74 | 1911 | 2.4 | 74 |
| 8 F | 0526 | 1.9 | 57 | 23 Sa | 0043 | 6.0 | 183 | 8 Su | 0554 | 2.5 | 76 | 23 M | 0105 | 6.1 | 186 | 8 W | 0117 | 6.6 | 200 | 23 Th | 0132 | 6.4 | 194 | | | |
| | 1054 | 6.4 | 196 | | 0624 | 2.6 | 79 | | 1115 | 6.5 | 197 | | 0656 | 2.9 | 89 | | 0730 | 2.6 | 79 | | 0800 | 3.0 | 90 | | | |
| | 1749 | 0.5 | 16 | | 1148 | 6.2 | 190 | | 1819 | 0.8 | 25 | | 1226 | 6.1 | 187 | | 1316 | 6.3 | 193 | | 1354 | 6.0 | 182 | 1354 | 6.0 | 182 |
| | | | | | 1847 | 1.0 | 32 | | | | | | 1908 | 1.8 | 55 | | 1951 | 1.7 | 53 | | 1953 | 3.0 | 92 | 1953 | 3.0 | 92 |
| 9 Sa | 0001 | 6.0 | 184 | 24 Su | 0129 | 5.5 | 169 | 9 M | 0037 | 6.1 | 186 | 24 Tu | 0147 | 5.8 | 178 | 9 Th | 0208 | 6.5 | 197 | 24 F | 0218 | 6.2 | 189 | | | |
| | 0558 | 2.3 | 70 | | 0713 | 3.1 | 93 | | 0639 | 2.8 | 85 | | 0750 | 3.1 | 95 | | 0835 | 2.5 | 77 | | 0901 | 3.0 | 92 | | | |
| | 1122 | 6.2 | 189 | | 1237 | 5.7 | 174 | | 1203 | 6.1 | 187 | | 1327 | 5.7 | 175 | | 1434 | 6.1 | 186 | | 1506 | 5.7 | 174 | 1506 | 5.7 | 174 |
| | 1827 | 1.0 | 29 | | 1937 | 1.8 | 54 | | 1909 | 1.2 | 38 | | 1956 | 2.4 | 73 | | 2053 | 2.3 | 69 | | 2049 | 3.5 | 107 | 2049 | 3.5 | 107 |
| 10 Su | 0038 | 5.7 | 173 | 25 M | 0235 | 5.2 | 159 | 10 Tu | 0129 | 5.9 | 179 | 25 W | 0241 | 5.7 | 173 | 10 F | 0307 | 6.4 | 196 | 25 Sa | 0320 | 6.1 | 186 | | | |
| | 0638 | 2.8 | 84 | | 0824 | 3.3 | 102 | | 0739 | 3.0 | 91 | | 0859 | 3.1 | 96 | | 0948 | 2.3 | 70 | | 1013 | 2.9 | 89 | | | |
| | 1201 | 5.8 | 178 | | 1353 | 5.2 | 159 | | 1311 | 5.8 | 176 | | 1447 | 5.4 | 166 | | 1559 | 6.0 | 183 | | 1628 | 5.7 | 173 | 1628 | 5.7 | 173 |
| | 1917 | 1.4 | 42 | | 2047 | 2.4 | 72 | | 2011 | 1.7 | 51 | | 2058 | 2.9 | 88 | | 2205 | 2.7 | 82 | | 2208 | 3.9 | 118 | 2208 | 3.9 | 118 |
| 11 M | 0133 | 5.3 | 161 | 26 Tu | 0406 | 5.1 | 155 | 11 W | 0240 | 5.7 | 175 | 26 Th | 0346 | 5.6 | 172 | 11 Sa | 0410 | 6.5 | 198 | 26 Su | 0430 | 6.1 | 186 | | | |
| | 0735 | 3.1 | 96 | | 1004 | 3.3 | 101 | | 0900 | 3.0 | 90 | | 1017 | 3.0 | 91 | | 1101 | 1.9 | 57 | | 1122 | 2.6 | 80 | | | |
| | 1303 | 5.4 | 164 | | 1542 | 5.0 | 153 | | 1448 | 5.6 | 170 | | 1609 | 5.4 | 165 | | 1727 | 6.1 | 187 | | 1746 | 5.9 | 179 | 1746 | 5.9 | 179 |
| | 2027 | 1.8 | 55 | | 2218 | 2.7 | 81 | | 2127 | 2.0 | 60 | | 2215 | 3.1 | 96 | | 2323 | 2.9 | 88 | | 2337 | 3.9 | 119 | 2337 | 3.9 | 119 |
| 12 Tu | 0307 | 5.1 | 154 | 27 W | 0523 | 5.2 | 160 | 12 Th | 0359 | 5.8 | 177 | 27 F | 0448 | 5.8 | 176 | 12 Su | 0512 | 6.7 | 203 | 27 M | 0533 | 6.3 | 192 | | | |
| | 0917 | 3.3 | 101 | | 1128 | 2.9 | 87 | | 1027 | 2.5 | 77 | | 1125 | 2.6 | 78 | | 1208 | 1.3 | 40 | | 1220 | 2.2 | 67 | | | |
| | 1458 | 5.1 | 156 | | 1711 | 5.2 | 159 | | 1625 | 5.7 | 174 | | 1724 | 5.6 | 170 | | 1849 | 6.4 | 196 | | 1852 | 6.2 | 188 | 1852 | 6.2 | 188 |
| | 2203 | 1.9 | 58 | | 2341 | 2.6 | 78 | | 2248 | 2.0 | 62 | | 2331 | 3.2 | 97 | | | | | | | | | | | |
| 13 W | 0457 | 5.2 | 159 | 28 Th | 0618 | 5.5 | 169 | 13 F | 0507 | 6.1 | 185 | 28 Sa | 0542 | 6.0 | 182 | 13 M | 0035 | 2.9 | 87 | 28 Tu | 0044 | 3.7 | 113 | | | |
| | 1108 | 2.9 | 87 | | 1224 | 2.3 | 69 | | 1140 | 1.8 | 55 | | 1218 | 2.1 | 63 | | 1307 | 0.8 | 25 | | 0625 | 6.5 | 199 | | | |
| | 1652 | 5.4 | 164 | | 1819 | 5.5 | 169 | | 1748 | 6.1 | 185 | | 1829 | 5.9 | 179 | | 1956 | 6.8 | 206 | | 1309 | 1.7 | 53 | 1946 | 6.5 | 198 |
| | 2331 | 1.6 | 48 | | | | | | | | | | | | | | | | | | | | | | | |
| 14 Th | 0610 | 5.7 | 173 | 29 F | 0038 | 2.3 | 71 | 14 Sa | 0001 | 1.9 | 58 | 29 Su | 0032 | 3.0 | 92 | 14 Tu | 0136 | 2.7 | 83 | 29 W | 0135 | 3.4 | 104 | | | |
| | 1218 | 2.0 | 61 | | 0657 | 5.8 | 178 | | 0604 | 6.4 | 196 | | 0627 | 6.2 | 190 | | 0706 | 7.1 | 217 | | 0710 | 6.8 | 208 | | | |
| | 1813 | 5.9 | 180 | | 1306 | 1.7 | 51 | | 1239 | 1.0 | 31 | | 1302 | 1.6 | 48 | | 1400 | 0.4 | 12 | | 1354 | 1.3 | 39 | 1354 | 1.3 | 39 |
| | | | | | 1912 | 5.9 | 180 | | 1902 | 6.5 | 198 | | 1923 | 6.2 | 189 | | 2053 | 7.0 | 214 | | 2033 | 6.8 | 207 | 2033 | 6.8 | 207 |
| 15 F | 0039 | 1.1 | 34 | 30 Sa | 0121 | 2.1 | 63 | 15 Su | 0102 | 1.7 | 53 | 30 M | 0119 | 2.8 | 86 | | | | | | | | | | | |

Moji, Japan, 2011

Times and Heights of High and Low Waters

| October | | | | November | | | | December | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|--------|-----|-----|----------|-----------------|------|------|----------|--------|-----------------|------|------|--------|----|-----------------|------|------|-----|----|-----------------|------|------|-----|--|-----------------|------|------|-----|--|-----------------|------|-----|-----|--|
| Time | Height | | | Time | Height | | | Time | Height | | | Time | Height | | | | | | | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | | | | | | |
| 1 Sa | 0519 | 0.4 | 12 | | 16 Su | 0458 | 1.1 | 33 | | 1 Tu | 0630 | 1.3 | 39 | | 16 W | 0557 | 1.0 | 31 | | 1 Th | 0007 | 6.2 | 188 | | 16 F | 0629 | 0.6 | 19 | | | | | | |
| | 1152 | 7.4 | 226 | | | 1114 | 7.0 | 213 | | | 1317 | 6.2 | 188 | | | 1214 | 6.3 | 192 | | | 0652 | 1.4 | 43 | | | 1244 | 6.3 | 191 | | | | | | |
| | 1737 | 2.5 | 77 | | | 1708 | 2.8 | 85 | | | 1857 | 3.4 | 104 | | | 1816 | 3.0 | 91 | | | 1331 | 5.9 | 179 | | | 1858 | 2.1 | 64 | | | | | | |
| | 2310 | 7.7 | 234 | | | 2234 | 7.2 | 218 | | | | | | | | 2334 | 6.4 | 194 | | | 1930 | 2.8 | 86 | | | | | | | | | | | |
| 2 Su | 0602 | 1.0 | 29 | | 17 M | 0531 | 1.4 | 42 | | 2 W | 0019 | 6.3 | 193 | | 17 Th | 0642 | 1.4 | 43 | | 2 F | 0104 | 5.7 | 174 | | 17 Sa | 0033 | 6.0 | 182 | | 17 Su | 0033 | 6.0 | 182 | |
| | 1237 | 6.9 | 209 | | | 1145 | 6.7 | 204 | | | 0722 | 2.0 | 61 | | | 1300 | 6.1 | 185 | | | 0737 | 2.1 | 63 | | | 0716 | 1.1 | 35 | | | | | | |
| | 1818 | 3.2 | 98 | | | 1740 | 3.2 | 97 | | | 1423 | 5.8 | 177 | | | 1910 | 3.1 | 96 | | | 1419 | 5.6 | 172 | | | 1327 | 6.1 | 187 | | | | | | |
| | 2345 | 7.2 | 220 | | | 2302 | 6.9 | 210 | | | 2004 | 3.7 | 112 | | | | | | | | 2035 | 2.9 | 89 | | | 1955 | 2.1 | 64 | | | | | | |
| 3 M | 0649 | 1.7 | 51 | | 18 Tu | 0609 | 1.8 | 54 | | 3 Th | 0135 | 5.8 | 177 | | 18 F | 0033 | 6.0 | 182 | | 3 Sa | 0220 | 5.3 | 161 | | 18 Su | 0143 | 5.6 | 171 | | 18 Mo | 0810 | 1.7 | 52 | |
| | 1331 | 6.3 | 191 | | | 1221 | 6.3 | 193 | | | 0828 | 2.6 | 80 | | | 0738 | 1.8 | 55 | | | 0832 | 2.7 | 81 | | | 0810 | 1.7 | 52 | | | | | | |
| | 1908 | 3.9 | 118 | | | 1819 | 3.6 | 109 | | | 1546 | 5.7 | 173 | | | 1403 | 5.9 | 180 | | | 1519 | 5.5 | 169 | | | 1421 | 6.0 | 183 | | | | | | |
| | | | | | | 2339 | 6.5 | 199 | | | 2136 | 3.6 | 111 | | | 2023 | 3.1 | 96 | | | 2152 | 2.8 | 85 | | | 2105 | 2.0 | 60 | | | | | | |
| 4 Tu | 0032 | 6.6 | 202 | | 19 W | 0655 | 2.2 | 67 | | 4 F | 0323 | 5.5 | 169 | | 19 Sa | 0203 | 5.6 | 172 | | 4 Su | 0347 | 5.1 | 156 | | 19 M | 0308 | 5.4 | 164 | | 19 Tu | 0917 | 2.2 | 68 | |
| | 0747 | 2.4 | 74 | | | 1312 | 6.0 | 182 | | | 0952 | 3.0 | 91 | | | 0847 | 2.1 | 65 | | | 0944 | 3.1 | 93 | | | 0917 | 2.2 | 68 | | | | | | |
| | 1500 | 5.8 | 178 | | | 1913 | 3.9 | 120 | | | 1700 | 5.8 | 176 | | | 1521 | 5.9 | 180 | | | 1625 | 5.6 | 170 | | | 1525 | 6.0 | 182 | | | | | | |
| | 2025 | 4.3 | 132 | | | | | | | | 2302 | 3.2 | 98 | | | 2149 | 2.8 | 86 | | | 2305 | 2.4 | 74 | | | 2222 | 1.6 | 50 | | | | | | |
| 5 W | 0154 | 6.1 | 185 | | 20 Th | 0035 | 6.1 | 185 | | 5 Sa | 0454 | 5.6 | 172 | | 20 Su | 0347 | 5.6 | 172 | | 5 M | 0509 | 5.2 | 159 | | 20 Tu | 0444 | 5.4 | 164 | | 20 W | 1039 | 2.6 | 78 | |
| | 0913 | 3.0 | 90 | | | 0800 | 2.6 | 78 | | | 1114 | 3.0 | 91 | | | 1007 | 2.3 | 70 | | | 1108 | 3.1 | 96 | | | 1039 | 2.6 | 78 | | | | | | |
| | 1655 | 5.8 | 178 | | | 1441 | 5.7 | 175 | | | 1755 | 6.0 | 184 | | | 1632 | 6.1 | 187 | | | 1723 | 5.7 | 175 | | | 1634 | 6.1 | 185 | | | | | | |
| | 2223 | 4.3 | 130 | | | 2045 | 4.1 | 124 | | | | | | | | 2306 | 2.1 | 65 | | | | | | | | 2336 | 1.1 | 33 | | | | | | |
| 6 Th | 0406 | 5.9 | 180 | | 21 F | 0224 | 5.7 | 175 | | 6 Su | 0002 | 2.6 | 79 | | 21 M | 0514 | 5.9 | 181 | | 6 Tu | 0004 | 1.9 | 59 | | 21 W | 0617 | 5.6 | 172 | | 21 Th | 1201 | 2.6 | 79 | |
| | 1055 | 3.0 | 92 | | | 0929 | 2.7 | 82 | | | 0603 | 5.9 | 181 | | | 1124 | 2.2 | 67 | | | 0620 | 5.5 | 168 | | | 1201 | 2.6 | 79 | | | | | | |
| | 1811 | 6.2 | 188 | | | 1628 | 5.9 | 179 | | | 1216 | 2.8 | 85 | | | 1731 | 6.5 | 197 | | | 1217 | 3.0 | 92 | | | 1740 | 6.3 | 191 | | | | | | |
| | 2349 | 3.7 | 112 | | | 2236 | 3.7 | 112 | | | 1835 | 6.3 | 192 | | | | | | | | 1812 | 6.0 | 182 | | | | | | | | | | | |
| 7 F | 0537 | 6.2 | 188 | | 22 Sa | 0425 | 5.9 | 180 | | 7 M | 0047 | 2.0 | 61 | | 22 Tu | 0009 | 1.3 | 40 | | 7 W | 0050 | 1.4 | 43 | | 22 Th | 0041 | 0.5 | 14 | | 22 F | 0732 | 6.0 | 184 | |
| | 1210 | 2.8 | 84 | | | 1057 | 2.5 | 75 | | | 0656 | 6.3 | 191 | | | 0629 | 6.4 | 194 | | | 0715 | 5.8 | 178 | | | 0732 | 6.0 | 184 | | | | | | |
| | 1859 | 6.5 | 199 | | | 1738 | 6.3 | 192 | | | 1302 | 2.6 | 78 | | | 1230 | 2.0 | 62 | | | 1308 | 2.8 | 85 | | | 1309 | 2.4 | 72 | | | | | | |
| | | | | | | 2349 | 2.9 | 87 | | | 1908 | 6.6 | 201 | | | 1822 | 6.8 | 208 | | | 1853 | 6.2 | 190 | | | 1841 | 6.6 | 200 | | | | | | |
| 8 Sa | 0042 | 3.0 | 90 | | 23 Su | 0543 | 6.4 | 196 | | 8 Tu | 0125 | 1.4 | 44 | | 23 W | 0102 | 0.5 | 16 | | 8 Th | 0130 | 1.0 | 29 | | 23 F | 0137 | -0.1 | -3 | | 23 Sa | 0831 | 6.4 | 195 | |
| | 0639 | 6.6 | 200 | | | 1206 | 2.0 | 61 | | | 0740 | 6.6 | 200 | | | 0734 | 6.8 | 207 | | | 0800 | 6.1 | 187 | | | 0831 | 6.4 | 195 | | | | | | |
| | 1300 | 2.4 | 73 | | | 1828 | 6.8 | 207 | | | 1340 | 2.4 | 72 | | | 1326 | 1.8 | 56 | | | 1349 | 2.6 | 78 | | | 1405 | 2.1 | 64 | | | | | | |
| | 1934 | 6.8 | 208 | | | | | | | | 1936 | 6.8 | 208 | | | 1908 | 7.2 | 218 | | | 1930 | 6.5 | 197 | | | 1935 | 6.8 | 207 | | | | | | |
| 9 Su | 0123 | 2.3 | 70 | | 24 M | 0042 | 1.9 | 58 | | 9 W | 0159 | 1.0 | 31 | | 24 Th | 0151 | -0.2 | -5 | | 9 F | 0207 | 0.6 | 17 | | 24 Sa | 0228 | -0.5 | -16 | | 24 Su | 0922 | 6.7 | 203 | |
| | 0725 | 6.9 | 211 | | | 0647 | 7.0 | 213 | | | 0818 | 6.8 | 207 | | | 0831 | 7.1 | 216 | | | 0840 | 6.4 | 194 | | | 0922 | 6.7 | 203 | | | | | | |
| | 1340 | 2.1 | 64 | | | 1302 | 1.6 | 48 | | | 1414 | 2.2 | 67 | | | 1416 | 1.7 | 53 | | | 1426 | 2.4 | 72 | | | 1454 | 1.8 | 56 | | | | | | |
| | 2002 | 7.1 | 215 | | | 1910 | 7.3 | 221 | | | 2003 | 7.0 | 213 | | | 1952 | 7.4 | 225 | | | 2004 | 6.7 | 203 | | | 2025 | 7.0 | 213 | | | | | | |
| 10 M | 0158 | 1.8 | 54 | | 25 Tu | 0129 | 1.0 | 30 | | 10 Th | 0231 | 0.7 | 20 | | 25 F | 0238 | -0.6 | -18 | | 10 Sa | 0243 | 0.2 | 7 | | 25 Su | 0315 | -0.8 | -23 | | 25 Mo | 1007 | 6.8 | 206 | |
| | 0803 | 7.2 | 219 | | | 0745 | 7.4 | 227 | | | 0853 | 7.0 | 212 | | | 0922 | 7.2 | 220 | | | 0917 | 6.5 | 199 | | | 1007 | 6.8 | 206 | | | | | | |
| | 1413 | 1.9 | 58 | | | 1351 | 1.3 | 39 | | | 1446 | 2.1 | 65 | | | 1503 | 1.7 | 52 | | | 1502 | 2.2 | 67 | | | 1538 | 1.6 | 50 | | | | | | |
| | 2025 | 7.3 | 221 | | | 1950 | 7.6 | 232 | | | 2030 | 7.1 | 217 | | | 2035 | 7.5 | 228 | | | 2037 | 6.8 | 206 | | | 2111 | 7.1 | 215 | | | | | | |
| 11 Tu | 0229 | 1.3 | 41 | | 26 W | 0213 | 0.2 | 7 | | 11 F | 0303 | 0.5 | 14 | | 26 Sa | 0323 | -0.8 | -23 | | 11 Su | 0319 | 0.0 | 0 | | 26 M | 0358 | -0.8 | -24 | | 26 Tu | 1047 | 6.8 | 206 | |
| | 0838 | 7.3 | 224 | | | 0839 | 7.7 | 236 | | | 0928 | 7.0 | 214 | | | 1010 | 7.2 | 220 | | | 0953 | 6.6 | 201 | | | 1047 | 6.8 | 206 | | | | | | |
| | 1443 | 1.8 | 56 | | | 1435 | 1.2 | 37 | | | 1518 | 2.1 | 65 | | | 1547 | 1.8 | 55 | | | 1537 | 2.1 | 64 | | | 1619 | 1.5 | 47 | | | | | | |
| | 2046 | 7.4 | 225 | | | 2027 | 7.8 | 239 | | | 2058 | 7.2 | 219 | | | 2117 | 7.4 | 227 | | | 2110 | 6.8 | 208 | | | 2154 | 7.0 | 213 | | | | | | |
| 12 W | 0259 | 1.0 | 32 | | 27 Th | 0256 | -0.3 | -9 | | 12 Sa | 0335 | 0.4 | 11 | | 27 Su | 0407 | -0.7 | -21 | | 12 M | 0355 | -0.1 | -4 | | 27 Tu | 0438 | -0.6 | -18 | | 27 W | 1123 | 6.7 | 203 | |
| | 0910 | 7.4 | 227 | | | 0929 | 7.9 | 240 | | | 1001 | 7.0 | 213 | | | 1054 | 7.1 | 215 | | | 1028 | 6.6 | 201 | | | 1123 | 6.7 | 203 | | | | | | |
| | 1512 | 1.8 | 56 | | | 1518 | 1.3 | 41 | | | 1550 | 2.2 | 68 | | | 1630 | 1.9 | 59 | | | 1613 | 2.0 | 62 | | | 1658 | 1.5 | 46 | | | | | | |
| | 2106 | 7.5 | 228 | | | 2103 | 7.9 | 242 | | | 2124 | 7.2 | 218 | | | 2158 | 7.3 | 223 | | | 2142 | 6.8 | 208 | | | 2233 | 6.8 | 208 | | | | | | |
| 13 Th | 0328 | 0.9 | 27 | | 28 F | 0338 | -0.5 | -15 | | 13 Su | 0408 | 0.4 | 11 | | 28 M | 0450 | -0.4 | -11 | | 13 Tu | 0432 | -0.1 | -4 | | 28 W | 0514 | -0.2 | -7 | | 28 Th | 1153 | 6.5 | 197 | |
| | 0942 | 7.4 | 227 | | | 1016 | 7.8 | 237 | | | 1033 | 6.9 | 210 | | | 1136 | 6.8 | 208 | | | 1101 | | | | | | | | | | | | | |

Sasebo, Japan, 2011

Times and Heights of High and Low Waters

| July | | | | August | | | | September | | | | | | | |
|---------------------|--------|-----|------|--------|----------------------|-----------------|--------|-----------|------|--------|----------------|-----------------|--------|------|-----|
| Time | Height | | Time | Height | | Time | Height | | Time | Height | | Time | Height | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | |
| 1 F ● | 0218 | 4.1 | 124 | | | 16 Sa | 0303 | 3.6 | 111 | | | 1 M | 0317 | 3.0 | 90 |
| | 0753 | 9.1 | 277 | | | | 0837 | 9.6 | 292 | | | | 0904 | 10.3 | 313 |
| | 1427 | 0.7 | 21 | | | | 1510 | 0.8 | 25 | | | | 1532 | 0.5 | 14 |
| | 2105 | 9.5 | 291 | | | | 2147 | 9.8 | 299 | | | | 2153 | 10.5 | 320 |
| 2 Sa | 0257 | 3.8 | 115 | | | 17 Su | 0339 | 3.4 | 105 | | | 2 Tu | 0356 | 2.6 | 78 |
| | 0833 | 9.4 | 286 | | | | 0915 | 9.6 | 292 | | | | 0948 | 10.3 | 313 |
| | 1507 | 0.5 | 14 | | | | 1545 | 1.1 | 33 | | | | 1612 | 0.8 | 24 |
| | 2142 | 9.8 | 298 | | | | 2216 | 9.7 | 295 | | | | 2228 | 10.4 | 318 |
| 3 Su | 0336 | 3.5 | 107 | | | 18 M | 0412 | 3.4 | 103 | | | 3 W | 0437 | 2.3 | 70 |
| | 0914 | 9.5 | 290 | | | | 0951 | 9.4 | 287 | | | | 1034 | 10.0 | 305 |
| | 1548 | 0.4 | 13 | | | | 1618 | 1.5 | 45 | | | | 1653 | 1.5 | 45 |
| | 2219 | 9.8 | 300 | | | | 2242 | 9.5 | 289 | | | | 2303 | 10.1 | 309 |
| 4 M | 0416 | 3.3 | 101 | | | 19 Tu | 0445 | 3.3 | 102 | | | 4 Th | 0519 | 2.2 | 68 |
| | 0957 | 9.5 | 289 | | | | 1026 | 9.1 | 278 | | | | 1123 | 9.5 | 289 |
| | 1629 | 0.7 | 20 | | | | 1649 | 2.0 | 62 | | | | 1735 | 2.4 | 73 |
| | 2257 | 9.8 | 298 | | | | 2308 | 9.2 | 281 | | | | 2339 | 9.7 | 296 |
| 5 Tu | 0458 | 3.1 | 96 | | | 20 W | 0518 | 3.4 | 104 | | | 5 F | 0604 | 2.4 | 73 |
| | 1043 | 9.3 | 283 | | | | 1102 | 8.7 | 264 | | | | 1219 | 8.8 | 268 |
| | 1712 | 1.1 | 35 | | | | 1719 | 2.7 | 82 | | | | 1819 | 3.5 | 106 |
| | 2336 | 9.6 | 292 | | | | 2334 | 8.9 | 272 | | | | | | |
| 6 W | 0543 | 3.1 | 94 | | | 21 Th | 0553 | 3.5 | 107 | | | 6 Sa | 0619 | 9.2 | 279 |
| | 1134 | 8.9 | 270 | | | | 1142 | 8.2 | 249 | | | | 0657 | 2.7 | 82 |
| | 1756 | 1.9 | 58 | | | | 1751 | 3.4 | 104 | | | | 1330 | 8.1 | 246 |
| | | | | | | | | | | | | | 1910 | 4.6 | 139 |
| 7 Th | 0016 | 9.3 | 282 | | | 22 F | 0003 | 8.6 | 261 | | | 7 Su | 0107 | 8.6 | 261 |
| | 0632 | 3.1 | 93 | | | | 0633 | 3.7 | 112 | | | | 0803 | 3.0 | 92 |
| | 1232 | 8.4 | 255 | | | | 1229 | 7.6 | 233 | | | | 1511 | 7.6 | 232 |
| | 1844 | 2.8 | 85 | | | | 1826 | 4.1 | 126 | | | | 2023 | 5.4 | 166 |
| 8 F ○ | 0101 | 8.9 | 270 | | | 23 Sa | 0038 | 8.2 | 250 | | | 8 M | 0216 | 8.0 | 245 |
| | 0729 | 3.1 | 93 | | | | 0723 | 3.8 | 116 | | | | 0930 | 3.2 | 97 |
| | 1345 | 7.9 | 240 | | | | 1333 | 7.2 | 218 | | | | 1701 | 7.7 | 236 |
| | 1940 | 3.7 | 114 | | | | 1910 | 4.9 | 148 | | | | 2216 | 5.8 | 177 |
| 9 Sa | 0153 | 8.5 | 259 | | | 24 Su | 0125 | 7.8 | 239 | | | 9 Tu | 0353 | 7.9 | 240 |
| | 0835 | 3.0 | 91 | | | | 0828 | 3.9 | 119 | | | | 1101 | 2.9 | 88 |
| | 1516 | 7.6 | 232 | | | | 1507 | 6.9 | 211 | | | | 1819 | 8.3 | 252 |
| | 2051 | 4.6 | 139 | | | | 2017 | 5.5 | 167 | | | | 2352 | 5.5 | 167 |
| 10 Su | 0257 | 8.2 | 251 | | | 25 M | 0235 | 7.5 | 230 | | | 10 W | 0518 | 8.2 | 249 |
| | 0951 | 2.8 | 84 | | | | 0948 | 3.7 | 114 | | | | 1208 | 2.4 | 73 |
| | 1652 | 7.8 | 237 | | | | 1651 | 7.2 | 218 | | | | 1910 | 8.8 | 269 |
| | 2219 | 5.0 | 152 | | | | 2206 | 5.7 | 175 | | | | | | |
| 11 M | 0410 | 8.2 | 249 | | | 26 Tu | 0403 | 7.5 | 230 | | | 11 Th | 0050 | 4.9 | 149 |
| | 1106 | 2.3 | 71 | | | | 1102 | 3.3 | 100 | | | | 0619 | 8.7 | 264 |
| | 1812 | 8.2 | 251 | | | | 1803 | 7.7 | 234 | | | | 1259 | 1.9 | 58 |
| | 2344 | 5.0 | 152 | | | | 2341 | 5.5 | 169 | | | | 1948 | 9.3 | 283 |
| 12 Tu | 0520 | 8.4 | 255 | | | 27 W | 0515 | 7.9 | 240 | | | 12 F | 0132 | 4.3 | 130 |
| | 1210 | 1.8 | 55 | | | | 1200 | 2.7 | 81 | | | | 0706 | 9.2 | 280 |
| | 1912 | 8.8 | 268 | | | | 1852 | 8.3 | 253 | | | | 1340 | 1.5 | 47 |
| | | | | | | | | | | | | | 2020 | 9.6 | 293 |
| 13 W | 0050 | 4.7 | 143 | | | 28 Th | 0038 | 5.1 | 156 | | | 13 Sa | 0208 | 3.7 | 114 |
| | 0620 | 8.7 | 266 | | | | 0610 | 8.4 | 255 | | | | 0746 | 9.6 | 292 |
| | 1304 | 1.3 | 40 | | | | 1247 | 2.0 | 60 | | | | 1416 | 1.3 | 41 |
| | 2000 | 9.3 | 283 | | | | 1932 | 9.0 | 273 | | | | 2048 | 9.8 | 300 |
| 14 Th | 0141 | 4.3 | 131 | | | 29 F | 0122 | 4.6 | 140 | | | 14 Su | 0241 | 3.3 | 101 |
| | 0711 | 9.1 | 278 | | | | 0656 | 9.0 | 273 | | | | 0823 | 9.8 | 299 |
| | 1350 | 1.0 | 29 | | | | 1330 | 1.3 | 40 | | | | 1449 | 1.4 | 42 |
| | 2040 | 9.6 | 293 | | | | 2008 | 9.5 | 290 | | | | 2113 | 9.9 | 302 |
| 15 F ○ | 0225 | 3.9 | 120 | | | 30 Sa | 0201 | 4.0 | 123 | | | 15 M | 0311 | 3.0 | 92 |
| | 0756 | 9.4 | 287 | | | | 0739 | 9.5 | 290 | | | | 0857 | 9.9 | 301 |
| | 1432 | 0.8 | 24 | | | | 1411 | 0.8 | 24 | | | | 1520 | 1.6 | 48 |
| | 2116 | 9.8 | 298 | | | | 2044 | 10.0 | 305 | | | | 2136 | 9.9 | 301 |
| | | | | | 31 Su ● | 0239 | 3.5 | 106 | | | 31 W | 0331 | 1.5 | 45 | |
| | | | | | | 0822 | 10.0 | 304 | | | | 0937 | 10.8 | 329 | |
| | | | | | | 1452 | 0.5 | 14 | | | | 1552 | 1.2 | 38 | |
| | | | | | | 2118 | 10.3 | 315 | | | | 2154 | 10.7 | 326 | |

Time meridian 135° E. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
 Heights are referred to the chart datum of soundings.

Naha, Nansei Shoto, Japan, 2011

Times and Heights of High and Low Waters

| January | | | | February | | | | March | | | | | | | | | | | | | | | | | | | | | |
|-----------------|--------|------|------|----------|-----------------|------|--------|-------|------|-----------------|------|------|--------|----|-----------------|------|------|-----|--|-----------------|------|------|-----|-----|-----------------|------|------|-----|----|
| Time | Height | | Time | Height | | Time | Height | | Time | Height | | Time | Height | | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | | | | | | |
| 1 Sa | 0530 | 5.1 | 154 | | 16 Su | 0512 | 4.6 | 139 | | 1 Tu | 0018 | 0.3 | 10 | | 16 W | 0617 | 5.5 | 167 | | 1 Tu | 0558 | 5.1 | 156 | | 16 W | 0502 | 5.1 | 154 | |
| | 1044 | 3.0 | 91 | | | 1020 | 3.2 | 98 | | | 0655 | 5.5 | 167 | | | 1152 | 2.4 | 73 | | | 1133 | 2.6 | 79 | | | 1044 | 2.7 | 81 | |
| | 1632 | 5.8 | 177 | | | 1610 | 5.3 | 163 | | | 1224 | 2.5 | 76 | | | 1741 | 6.1 | 186 | | | 1718 | 5.3 | 163 | | | 1630 | 5.4 | 166 | |
| | 2338 | 0.4 | 11 | | | 2313 | 0.7 | 22 | | | 1808 | 5.9 | 181 | | | | | | | | | 1801 | 5.7 | 174 | | | 2310 | 0.5 | 16 |
| 2 Su | 0622 | 5.4 | 164 | | 17 M | 0600 | 5.0 | 153 | | 2 W | 0055 | 0.1 | 4 | | 17 Th | 0022 | -0.2 | -7 | | 2 W | 0001 | 0.8 | 23 | | 17 Th | 0541 | 5.6 | 171 | |
| | 1142 | 2.8 | 86 | | | 1119 | 3.0 | 91 | | | 0725 | 5.7 | 174 | | | 0651 | 5.9 | 181 | | | 0628 | 5.4 | 165 | | | 1133 | 1.9 | 59 | |
| | 1725 | 6.0 | 184 | | | 1704 | 5.7 | 175 | | | 1300 | 2.2 | 66 | | | 1235 | 1.8 | 55 | | | 1211 | 2.1 | 65 | | | 1728 | 6.0 | 184 | |
| | | | | | | 2359 | 0.2 | 5 | | | 1847 | 6.2 | 188 | | | 1829 | 6.6 | 201 | | | 1801 | 5.7 | 174 | | | 2357 | 0.1 | 4 | |
| 3 M | 0024 | 0.0 | 1 | | 18 Tu | 0640 | 5.5 | 167 | | 3 Th | 0127 | 0.0 | 1 | | 18 F | 0103 | -0.6 | -17 | | 3 Th | 0034 | 0.6 | 17 | | 18 F | 0616 | 6.1 | 185 | |
| | 0705 | 5.7 | 173 | | | 1206 | 2.7 | 81 | | | 0752 | 5.9 | 179 | | | 0725 | 6.3 | 193 | | | 0655 | 5.7 | 173 | | | 1216 | 1.2 | 36 | |
| | 1229 | 2.7 | 81 | | | 1752 | 6.2 | 188 | | | 1332 | 1.9 | 57 | | | 1316 | 1.2 | 38 | | | 1242 | 1.7 | 53 | | | 1818 | 6.5 | 199 | |
| | 1811 | 6.2 | 190 | | | | | | | | 1922 | 6.3 | 191 | | | 1915 | 6.9 | 211 | | | 1837 | 5.9 | 181 | | | | | | |
| 4 Tu | 0105 | -0.2 | -5 | | 19 W | 0041 | -0.3 | -10 | | 4 F | 0156 | 0.1 | 2 | | 19 Sa | 0143 | -0.6 | -18 | | 4 F | 0104 | 0.5 | 15 | | 19 Sa | 0038 | 0.0 | -1 | |
| | 0742 | 5.8 | 178 | | | 0716 | 5.8 | 178 | | | 0818 | 5.9 | 181 | | | 0759 | 6.6 | 200 | | | 0719 | 5.9 | 179 | | | 0650 | 6.5 | 198 | |
| | 1309 | 2.5 | 76 | | | 1249 | 2.3 | 71 | | | 1402 | 1.7 | 51 | | | 1357 | 0.8 | 23 | | | 1311 | 1.4 | 42 | | | 1257 | 0.5 | 15 | |
| | 1853 | 6.4 | 194 | | | 1837 | 6.6 | 200 | | | 1955 | 6.3 | 191 | | | 2000 | 7.0 | 213 | | | 1910 | 6.1 | 186 | | | 1905 | 6.9 | 209 | |
| 5 W | 0142 | -0.2 | -6 | | 20 Th | 0122 | -0.7 | -20 | | 5 Sa | 0223 | 0.2 | 7 | | 20 Su | 0221 | -0.4 | -12 | | 5 Sa | 0130 | 0.5 | 16 | | 20 Su | 0118 | 0.0 | 1 | |
| | 0816 | 5.9 | 180 | | | 0752 | 6.1 | 187 | | | 0842 | 6.0 | 182 | | | 0833 | 6.7 | 204 | | | 0742 | 6.0 | 182 | | | 0724 | 6.8 | 206 | |
| | 1346 | 2.3 | 71 | | | 1330 | 2.0 | 60 | | | 1432 | 1.5 | 45 | | | 1438 | 0.4 | 13 | | | 1340 | 1.1 | 33 | | | 1337 | 0.0 | -1 | |
| | 1931 | 6.4 | 194 | | | 1922 | 6.8 | 207 | | | 2027 | 6.1 | 187 | | | 2046 | 6.8 | 207 | | | 1941 | 6.2 | 188 | | | 1951 | 6.9 | 210 | |
| 6 Th | 0216 | -0.1 | -4 | | 21 F | 0202 | -0.8 | -24 | | 6 Su | 0249 | 0.5 | 14 | | 21 M | 0258 | 0.1 | 2 | | 6 Su | 0156 | 0.7 | 20 | | 21 M | 0157 | 0.3 | 10 | |
| | 0847 | 5.9 | 179 | | | 0828 | 6.3 | 193 | | | 0906 | 5.9 | 181 | | | 0906 | 6.7 | 203 | | | 0805 | 6.0 | 184 | | | 0758 | 6.9 | 209 | |
| | 1421 | 2.2 | 68 | | | 1412 | 1.6 | 50 | | | 1503 | 1.4 | 42 | | | 1521 | 0.3 | 9 | | | 1408 | 0.9 | 26 | | | 1419 | -0.3 | -10 | |
| | 2006 | 6.3 | 192 | | | 2007 | 6.9 | 209 | | | 2059 | 5.9 | 180 | | | 2132 | 6.4 | 194 | | | 2012 | 6.1 | 186 | | | 2037 | 6.7 | 204 | |
| 7 F | 0247 | 0.1 | 3 | | 22 Sa | 0241 | -0.7 | -20 | | 7 M | 0314 | 0.8 | 24 | | 22 Tu | 0335 | 0.7 | 22 | | 7 M | 0220 | 0.9 | 26 | | 22 Tu | 0234 | 0.8 | 24 | |
| | 0916 | 5.8 | 178 | | | 0904 | 6.4 | 195 | | | 0930 | 5.9 | 179 | | | 0940 | 6.5 | 197 | | | 0827 | 6.1 | 185 | | | 0832 | 6.8 | 207 | |
| | 1455 | 2.1 | 65 | | | 1455 | 1.4 | 42 | | | 1535 | 1.3 | 41 | | | 1605 | 0.4 | 11 | | | 1437 | 0.7 | 22 | | | 1501 | -0.4 | -11 | |
| | 2041 | 6.1 | 186 | | | 2053 | 6.7 | 204 | | | 2132 | 5.6 | 171 | | | 2220 | 5.7 | 175 | | | 2043 | 5.9 | 181 | | | 2124 | 6.3 | 191 | |
| 8 Sa | 0317 | 0.4 | 12 | | 23 Su | 0320 | -0.3 | -8 | | 8 Tu | 0339 | 1.2 | 36 | | 23 W | 0412 | 1.4 | 44 | | 8 Tu | 0245 | 1.1 | 35 | | 23 W | 0312 | 1.4 | 42 | |
| | 0945 | 5.7 | 175 | | | 0939 | 6.4 | 195 | | | 0955 | 5.7 | 175 | | | 1016 | 6.2 | 188 | | | 0850 | 6.0 | 183 | | | 0907 | 6.6 | 200 | |
| | 1530 | 2.1 | 64 | | | 1539 | 1.2 | 37 | | | 1610 | 1.4 | 43 | | | 1654 | 0.7 | 20 | | | 1507 | 0.7 | 21 | | | 1545 | -0.1 | -3 | |
| | 2116 | 5.8 | 177 | | | 2140 | 6.3 | 192 | | | 2207 | 5.2 | 159 | | | 2315 | 5.1 | 154 | | | 2115 | 5.7 | 173 | | | 2212 | 5.7 | 173 | |
| 9 Su | 0345 | 0.8 | 23 | | 24 M | 0359 | 0.3 | 9 | | 9 W | 0406 | 1.6 | 49 | | 24 Th | 0451 | 2.2 | 66 | | 9 W | 0309 | 1.4 | 44 | | 24 Th | 0350 | 2.0 | 61 | |
| | 1013 | 5.6 | 172 | | | 1016 | 6.3 | 191 | | | 1022 | 5.6 | 170 | | | 1055 | 5.7 | 175 | | | 0914 | 5.9 | 180 | | | 0944 | 6.2 | 188 | |
| | 1607 | 2.1 | 64 | | | 1627 | 1.2 | 36 | | | 1649 | 1.5 | 46 | | | 1753 | 1.1 | 33 | | | 1539 | 0.8 | 24 | | | 1632 | 0.3 | 10 | |
| | 2152 | 5.4 | 165 | | | 2230 | 5.7 | 175 | | | 2248 | 4.8 | 145 | | | | | | | | 2149 | 5.3 | 163 | | | 2307 | 5.1 | 155 | |
| 10 M | 0414 | 1.2 | 36 | | 25 Tu | 0439 | 1.0 | 31 | | 10 Th | 0434 | 2.1 | 63 | | 25 F | 0028 | 4.4 | 135 | | 10 Th | 0335 | 1.8 | 56 | | 25 F | 0431 | 2.6 | 78 | |
| | 1043 | 5.5 | 168 | | | 1054 | 6.0 | 184 | | | 1053 | 5.3 | 163 | | | 0539 | 2.9 | 87 | | | 0940 | 5.7 | 174 | | | 1023 | 5.7 | 173 | |
| | 1648 | 2.1 | 65 | | | 1720 | 1.2 | 38 | | | 1736 | 1.7 | 52 | | | 1144 | 5.3 | 161 | | | 1614 | 1.0 | 29 | | | 1727 | 0.9 | 28 | |
| | 2232 | 5.0 | 152 | | | 2328 | 5.1 | 156 | | | 2340 | 4.3 | 132 | | | 1912 | 1.4 | 44 | | | 2227 | 5.0 | 151 | | | | | | |
| 11 Tu | 0444 | 1.6 | 50 | | 26 W | 0521 | 1.8 | 54 | | 11 F | 0508 | 2.6 | 78 | | 26 Sa | 0220 | 4.1 | 126 | | 11 F | 0403 | 2.2 | 68 | | 26 Sa | 0017 | 4.6 | 139 | |
| | 1116 | 5.3 | 163 | | | 1137 | 5.7 | 175 | | | 1133 | 5.1 | 155 | | | 0701 | 3.3 | 102 | | | 1009 | 5.4 | 166 | | | 0523 | 3.1 | 94 | |
| | 1737 | 2.2 | 66 | | | 1824 | 1.4 | 43 | | | 1842 | 1.8 | 56 | | | 1302 | 4.9 | 148 | | | 1657 | 1.2 | 37 | | | 1113 | 5.1 | 156 | |
| | 2321 | 4.6 | 139 | | | | | | | | | | | | 2056 | 1.5 | 47 | | | 2315 | 4.5 | 138 | | | 1839 | 1.4 | 44 | | |
| 12 W | 0518 | 2.1 | 65 | | 27 Th | 0043 | 4.5 | 138 | | 12 Sa | 0104 | 4.0 | 121 | | 27 Su | 0418 | 4.3 | 132 | | 12 Sa | 0438 | 2.7 | 82 | | 27 Su | 0157 | 4.3 | 131 | |
| | 1155 | 5.2 | 158 | | | 0612 | 2.5 | 76 | | | 0601 | 3.1 | 94 | | | 0913 | 3.4 | 105 | | | 1046 | 5.2 | 157 | | | 0653 | 3.4 | 104 | |
| | 1838 | 2.2 | 67 | | | 1229 | 5.4 | 166 | | | 1233 | 4.9 | 148 | | | 1453 | 4.7 | 144 | | | 1754 | 1.5 | 45 | | | 1232 | 4.7 | 142 | |
| | | | | | | 1946 | 1.5 | 46 | | | 2012 | 1.8 | 54 | | | 2223 | 1.3 | 41 | | | | | | | | 2016 | 1.7 | 53 | |
| 13 Th | 0028 | 4.1 | 126 | | 28 F | 0231 | 4.2 | 128 | | 13 Su | 0315 | 4.0 | 122 | | 28 M | 0520 | 4.7 | 144 | | 13 Su | 0030 | 4.2 | 127 | | 28 M | 0338 | 4.4 | 135 | |
| | 0603 | 2.6 | 80 | | | 0728 | 3.1 | 94 | | | 0754 | 3.4 | 105 | | | 1043 | 3.1 | 94 | | | 0529 | 3.1 | | | | | | | |

Naha, Nansei Shoto, Japan, 2011

Times and Heights of High and Low Waters

| July | | | | August | | | | September | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|------|--------|-----|--------|-----------------|--------|-----|-----------|----|-----------------|------|------|-----|--------|-----------------|------|-----|-----|--|-----------------|------|-----|-----|--|-----------------|------|-----|-----|--|------|-----|-----|--|
| Time | | Height | | Time | | Height | | Time | | Height | | Time | | Height | | | | | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | | | | | | | | | | |
| 1 F | 0046 | 3.3 | 101 | | 16 Sa | 0132 | 3.1 | 94 | | 1 M | 0152 | 2.6 | 80 | | 16 Tu | 0220 | 2.4 | 72 | | 1 Th | 0255 | 1.2 | 36 | | 16 F | 0252 | 1.5 | 47 | | | | | |
| | 0632 | 6.8 | 208 | | | 0719 | 7.2 | 219 | | | 0747 | 7.6 | 232 | | | 0816 | 7.1 | 216 | | | 0908 | 7.4 | 225 | | | 0902 | 6.5 | 198 | | | | | |
| | 1320 | 0.5 | 15 | | | 1403 | 0.7 | 21 | | | 1419 | 0.5 | 15 | | | 1435 | 1.6 | 49 | | | 1510 | 1.7 | 52 | | | 1510 | 1.7 | 52 | | 1453 | 2.6 | 78 | |
| | 1955 | 6.5 | 197 | | | 2033 | 6.8 | 206 | | | 2041 | 7.3 | 222 | | | 2050 | 7.0 | 212 | | | 2114 | 7.5 | 229 | | | 2114 | 7.5 | 229 | | 2056 | 6.8 | 206 | |
| 2 Sa | 0126 | 3.1 | 96 | | 17 Su | 0210 | 2.9 | 89 | | 2 Tu | 0233 | 2.3 | 70 | | 17 W | 0251 | 2.2 | 68 | | 2 F | 0340 | 1.2 | 37 | | 17 Sa | 0324 | 1.6 | 50 | | | | | |
| | 0713 | 7.0 | 214 | | | 0758 | 7.2 | 218 | | | 0832 | 7.5 | 230 | | | 0849 | 6.9 | 209 | | | 0957 | 6.9 | 209 | | | 0937 | 6.2 | 188 | | | | | |
| | 1359 | 0.3 | 10 | | | 1437 | 0.9 | 27 | | | 1457 | 0.8 | 23 | | | 1501 | 1.9 | 59 | | | 1549 | 2.4 | 72 | | | 1519 | 2.9 | 89 | | | | | |
| | 2031 | 6.6 | 201 | | | 2104 | 6.7 | 205 | | | 2115 | 7.3 | 223 | | | 2115 | 6.9 | 210 | | | 2151 | 7.3 | 221 | | | 2122 | 6.6 | 200 | | | | | |
| 3 Su | 0206 | 3.0 | 91 | | 18 M | 0246 | 2.8 | 85 | | 3 W | 0316 | 2.1 | 63 | | 18 Th | 0323 | 2.2 | 67 | | 3 Sa | 0428 | 1.4 | 43 | | 18 Su | 0359 | 1.8 | 56 | | | | | |
| | 0755 | 7.1 | 217 | | | 0835 | 7.0 | 213 | | | 0918 | 7.3 | 223 | | | 0923 | 6.6 | 200 | | | 1052 | 6.2 | 190 | | | 1015 | 5.8 | 177 | | | | | |
| | 1438 | 0.4 | 11 | | | 1508 | 1.2 | 37 | | | 1536 | 1.2 | 37 | | | 1527 | 2.3 | 71 | | | 1629 | 3.1 | 93 | | | 1547 | 3.3 | 100 | | | | | |
| | 2108 | 6.7 | 204 | | | 2133 | 6.7 | 203 | | | 2151 | 7.3 | 222 | | | 2140 | 6.8 | 206 | | | 2231 | 6.9 | 210 | | | 2151 | 6.3 | 192 | | | | | |
| 4 M | 0248 | 2.8 | 86 | | 19 Tu | 0321 | 2.7 | 83 | | 4 Th | 0402 | 2.0 | 60 | | 19 F | 0358 | 2.3 | 69 | | 4 Su | 0525 | 1.8 | 54 | | 19 M | 0441 | 2.1 | 64 | | | | | |
| | 0839 | 7.1 | 216 | | | 0911 | 6.7 | 204 | | | 1007 | 6.9 | 209 | | | 0959 | 6.2 | 188 | | | 1200 | 5.6 | 172 | | | 1103 | 5.4 | 165 | | | | | |
| | 1518 | 0.5 | 16 | | | 1537 | 1.6 | 49 | | | 1615 | 1.8 | 56 | | | 1553 | 2.8 | 84 | | | 1719 | 3.7 | 113 | | | 1621 | 3.7 | 112 | | | | | |
| | 2145 | 6.7 | 205 | | | 2201 | 6.6 | 200 | | | 2228 | 7.1 | 217 | | | 2207 | 6.6 | 201 | | | 2320 | 6.4 | 196 | | | 2227 | 6.0 | 182 | | | | | |
| 5 Tu | 0332 | 2.7 | 82 | | 20 W | 0358 | 2.7 | 82 | | 5 F | 0452 | 2.0 | 60 | | 20 Sa | 0436 | 2.4 | 73 | | 5 M | 0639 | 2.2 | 66 | | 20 Tu | 0537 | 2.4 | 73 | | | | | |
| | 0925 | 6.9 | 210 | | | 0948 | 6.4 | 194 | | | 1101 | 6.3 | 192 | | | 1040 | 5.8 | 176 | | | 1340 | 5.3 | 161 | | | 1215 | 5.1 | 154 | | | | | |
| | 1558 | 0.9 | 27 | | | 1605 | 2.0 | 62 | | | 1656 | 2.6 | 78 | | | 1621 | 3.2 | 97 | | | 1834 | 4.2 | 128 | | | 1713 | 4.1 | 125 | | | | | |
| | 2224 | 6.7 | 204 | | | 2229 | 6.5 | 197 | | | 2308 | 6.9 | 210 | | | 2237 | 6.4 | 194 | | | 2320 | 6.4 | 196 | | | 2320 | 5.6 | 172 | | | | | |
| 6 W | 0421 | 2.6 | 79 | | 21 Th | 0437 | 2.7 | 83 | | 6 Sa | 0550 | 2.1 | 64 | | 21 Su | 0523 | 2.6 | 79 | | 6 Tu | 0032 | 6.0 | 182 | | 21 W | 0657 | 2.6 | 78 | | | | | |
| | 1016 | 6.6 | 200 | | | 1028 | 5.9 | 181 | | | 1209 | 5.7 | 175 | | | 1131 | 5.3 | 163 | | | 0814 | 2.4 | 72 | | | 1409 | 5.0 | 153 | | | | | |
| | 1641 | 1.4 | 42 | | | 1634 | 2.5 | 76 | | | 1744 | 3.3 | 100 | | | 1655 | 3.6 | 111 | | | 1532 | 5.3 | 163 | | | 1905 | 4.4 | 133 | | | | | |
| | 2305 | 6.6 | 202 | | | 2300 | 6.3 | 192 | | | 2356 | 6.6 | 201 | | | 2315 | 6.1 | 185 | | | 2033 | 4.3 | 132 | | | 2033 | 4.3 | 132 | | | | | |
| 7 Th | 0514 | 2.5 | 76 | | 22 F | 0522 | 2.8 | 85 | | 7 Su | 0702 | 2.3 | 69 | | 22 M | 0624 | 2.8 | 84 | | 7 W | 0216 | 5.8 | 177 | | 22 Th | 0059 | 5.4 | 165 | | | | | |
| | 1113 | 6.1 | 186 | | | 1114 | 5.5 | 168 | | | 1341 | 5.3 | 163 | | | 1250 | 5.0 | 153 | | | 0945 | 2.2 | 68 | | | 0831 | 2.5 | 75 | | | | | |
| | 1726 | 2.0 | 61 | | | 1707 | 3.0 | 91 | | | 1850 | 3.9 | 118 | | | 1745 | 4.1 | 125 | | | 1645 | 5.7 | 174 | | | 1544 | 5.3 | 163 | | | | | |
| | 2349 | 6.5 | 198 | | | 2336 | 6.1 | 187 | | | | | | | | | | | | | 2209 | 4.0 | 122 | | | 2113 | 4.1 | 126 | | | | | |
| 8 F | 0616 | 2.4 | 74 | | 23 Sa | 0617 | 2.9 | 87 | | 8 M | 0100 | 6.3 | 192 | | 23 Tu | 0011 | 5.8 | 177 | | 8 Th | 0348 | 6.0 | 182 | | 23 F | 0249 | 5.6 | 170 | | | | | |
| | 1222 | 5.7 | 173 | | | 1214 | 5.1 | 156 | | | 0830 | 2.3 | 69 | | | 0748 | 2.8 | 85 | | | 1049 | 2.0 | 60 | | | 0947 | 2.1 | 63 | | | | | |
| | 1818 | 2.7 | 81 | | | 1747 | 3.5 | 106 | | | 1532 | 5.3 | 163 | | | 1453 | 5.0 | 152 | | | 1729 | 6.1 | 185 | | | 1637 | 5.8 | 177 | | | | | |
| | | | | | | | | | | | 2027 | 4.2 | 129 | | | 1930 | 4.5 | 136 | | | 2306 | 3.5 | 107 | | | 2222 | 3.6 | 109 | | | | | |
| 9 Sa | 0040 | 6.4 | 195 | | 24 Su | 0021 | 5.9 | 181 | | 9 Tu | 0224 | 6.2 | 188 | | 24 W | 0142 | 5.7 | 174 | | 9 F | 0452 | 6.3 | 192 | | 24 Sa | 0405 | 6.1 | 185 | | | | | |
| | 0728 | 2.3 | 70 | | | 0725 | 2.9 | 87 | | | 0956 | 2.0 | 62 | | | 0917 | 2.6 | 78 | | | 1135 | 1.7 | 53 | | | 1043 | 1.6 | 50 | | | | | |
| | 1349 | 5.4 | 164 | | | 1342 | 4.9 | 149 | | | 1656 | 5.7 | 173 | | | 1628 | 5.3 | 163 | | | 1803 | 6.4 | 195 | | | 1715 | 6.3 | 193 | | | | | |
| | 1923 | 3.2 | 99 | | | 1847 | 3.9 | 120 | | | 2204 | 4.2 | 127 | | | 2133 | 4.4 | 134 | | | 2348 | 3.0 | 92 | | | 2309 | 2.9 | 87 | | | | | |
| 10 Su | 0139 | 6.3 | 192 | | 25 M | 0122 | 5.8 | 177 | | 10 W | 0348 | 6.3 | 192 | | 25 Th | 0316 | 5.9 | 179 | | 10 Sa | 0539 | 6.6 | 202 | | 25 Su | 0502 | 6.6 | 202 | | | | | |
| | 0847 | 2.1 | 63 | | | 0844 | 2.7 | 83 | | | 1102 | 1.7 | 52 | | | 1024 | 2.1 | 63 | | | 1212 | 1.6 | 48 | | | 1129 | 1.2 | 38 | | | | | |
| | 1526 | 5.4 | 164 | | | 1532 | 5.0 | 152 | | | 1750 | 6.1 | 186 | | | 1718 | 5.8 | 178 | | | 1831 | 6.7 | 203 | | | 1749 | 6.8 | 207 | | | | | |
| | 2042 | 3.6 | 111 | | | 2023 | 4.2 | 129 | | | 2312 | 3.8 | 117 | | | 2244 | 4.0 | 122 | | | | | | | | 2350 | 2.1 | 64 | | | | | |
| 11 M | 0247 | 6.3 | 193 | | 26 Tu | 0237 | 5.8 | 178 | | 11 Th | 0455 | 6.6 | 201 | | 26 F | 0424 | 6.3 | 192 | | 11 Su | 0022 | 2.6 | 79 | | 26 M | 0552 | 7.1 | 217 | | | | | |
| | 1002 | 1.7 | 52 | | | 0956 | 2.4 | 72 | | | 1153 | 1.4 | 42 | | | 1115 | 1.5 | 47 | | | 0618 | 6.9 | 209 | | | 1211 | 1.0 | 32 | | | | | |
| | 1650 | 5.6 | 172 | | | 1653 | 5.3 | 162 | | | 1830 | 6.4 | 196 | | | 1755 | 6.3 | 193 | | | 1243 | 1.5 | 47 | | | 1822 | 7.2 | 220 | | | | | |
| | 2203 | 3.8 | 115 | | | 2156 | 4.2 | 129 | | | | | | | | | | | | | 1857 | 6.8 | 208 | | | | | | | | | | |
| 12 Tu | 0355 | 6.5 | 197 | | 27 W | 0347 | 6.0 | 184 | | 12 F | 0001 | 3.5 | 106 | | 27 Sa | 0518 | 6.8 | 208 | | 12 M | 0053 | 2.2 | 67 | | 27 Tu | 0030 | 1.4 | 42 | | | | | |
| | 1106 | 1.3 | 40 | | | 1053 | 1.9 | 58 | | | 0546 | 6.9 | 210 | | | 1159 | 1.1 | 33 | | | 0653 | 7.0 | 213 | | | 0639 | 7.5 | 228 | | | | | |
| | 1754 | 6.0 | 183 | | | 1744 | 5.7 | 175 | | | 1233 | 1.2 | 36 | | | 1828 | 6.8 | 206 | | | 1312 | 1.6 | 48 | | | 1250 | 1.0 | 31 | | | | | |
| | 2311 | 3.7 | 112 | | | 2301 | 4.0 | 123 | | | 1903 | 6.7 | 204 | | | | | | | | 1922 | 7.0 | 212 | | | 1856 | 7.5 | 229 | | | | | |
| 13 W | 0456 | 6.7 | 204 | | 28 Th | 0444 | 6.4 | 194 | | 13 Sa | 0041 | 3.1 | 95 | | 28 Su | 0013 | 2.9 | 89 | | 13 Tu | 0123 | 1.9 | 58 | | 28 W | 0111 | 0.8 | 24 | | | | | |
| | 1159 | 1.0 | 29 | | | 1140 | 1.4 | 43 | | | 0629 | 7.1 | 217 | | | 0606 | 7.3 | 223 | | | 0726 | 7.0 | 214 | | | 0725 | 7.6 | 232 | | | | | |
| | 1843 | 6.3 | 193 | | | 1824 | 6.2 | 188 | | | 1309 | 1.1 | 33 | | | 1239 | 0.8 | 23 | | | 1338 | 1.7 | 53 | | | 1329 | 1.2 | 38 | | | | | |
| | | | | | | 2349 | 3.7 | 113 | | | 1933 | 6.9 | 209 | | | 1901 | 7.2 | 218 | | | 1945 | 7.0 | 213 | | | 1930 | 7.6 | 233 | | | | | |
| 14 < | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Pusan, Korea, 2011

Times and Heights of High and Low Waters

| July | | | | August | | | | September | | | | | | | | | | | | | | | |
|-----------------|------|--------|-----|-----------------|------|--------|-----|-----------------|------|--------|-----|-----------------|------|--------|-----|-----------------|------|-----|-----|-----------------|------|-----|-----|
| Time | | Height | | Time | | Height | | Time | | Height | | Time | | Height | | | | | | | | | |
| | h m | ft | cm | | h m | ft | cm | | h m | ft | cm | | h m | ft | cm | | | | | | | | |
| 1 F | 0201 | 0.8 | 24 | 16 Sa | 0252 | 0.8 | 24 | 1 M | 0259 | 0.6 | 18 | 16 Tu | 0327 | 0.8 | 24 | 1 Th | 0347 | 0.5 | 15 | 16 F | 0341 | 0.8 | 24 |
| | 0831 | 3.8 | 116 | | 0858 | 4.3 | 131 | | 0927 | 4.6 | 140 | | 0942 | 4.6 | 140 | | 1019 | 4.8 | 146 | | 1015 | 4.4 | 134 |
| | 1412 | 0.7 | 21 | | 1445 | 0.8 | 24 | | 1515 | 0.6 | 18 | | 1525 | 0.9 | 27 | | 1614 | 0.7 | 21 | | 1549 | 1.0 | 30 |
| | 2046 | 4.4 | 134 | | 2120 | 4.7 | 143 | | 2142 | 5.0 | 152 | | 2157 | 4.6 | 140 | | 2236 | 4.8 | 146 | | 2223 | 4.1 | 125 |
| 2 Sa | 0238 | 0.7 | 21 | 17 Su | 0327 | 0.8 | 24 | 2 Tu | 0335 | 0.6 | 18 | 17 W | 0354 | 0.8 | 24 | 2 F | 0424 | 0.7 | 21 | 17 Sa | 0406 | 0.9 | 27 |
| | 0908 | 4.0 | 122 | | 0934 | 4.4 | 134 | | 1003 | 4.6 | 140 | | 1014 | 4.5 | 137 | | 1058 | 4.6 | 140 | | 1046 | 4.1 | 125 |
| | 1449 | 0.6 | 18 | | 1520 | 0.8 | 24 | | 1553 | 0.7 | 21 | | 1552 | 1.0 | 30 | | 1656 | 1.0 | 30 | | 1618 | 1.1 | 34 |
| | 2123 | 4.6 | 140 | | 2154 | 4.6 | 140 | | 2219 | 4.9 | 149 | | 2226 | 4.4 | 134 | | 2315 | 4.4 | 134 | | 2252 | 3.8 | 116 |
| 3 Su | 0315 | 0.6 | 18 | 18 M | 0401 | 0.8 | 24 | 3 W | 0411 | 0.6 | 18 | 18 Th | 0420 | 1.0 | 30 | 3 Sa | 0502 | 1.0 | 30 | 18 Su | 0432 | 1.1 | 34 |
| | 0944 | 4.1 | 125 | | 1009 | 4.3 | 131 | | 1041 | 4.6 | 140 | | 1045 | 4.4 | 134 | | 1139 | 4.3 | 131 | | 1120 | 3.9 | 119 |
| | 1527 | 0.6 | 18 | | 1553 | 0.9 | 27 | | 1633 | 0.8 | 24 | | 1620 | 1.1 | 34 | | 1744 | 1.4 | 43 | | 1650 | 1.3 | 40 |
| | 2200 | 4.6 | 140 | | 2226 | 4.5 | 137 | | 2257 | 4.7 | 143 | | 2254 | 4.2 | 128 | | 2358 | 3.9 | 119 | | 2323 | 3.5 | 107 |
| 4 M | 0352 | 0.6 | 18 | 19 Tu | 0433 | 0.9 | 27 | 4 Th | 0449 | 0.8 | 24 | 19 F | 0446 | 1.1 | 34 | 4 Su | 0545 | 1.4 | 43 | 19 M | 0502 | 1.4 | 43 |
| | 1021 | 4.1 | 125 | | 1044 | 4.2 | 128 | | 1119 | 4.4 | 134 | | 1118 | 4.1 | 125 | | 1226 | 3.8 | 116 | | 1159 | 3.6 | 110 |
| | 1606 | 0.7 | 21 | | 1624 | 1.0 | 30 | | 1715 | 1.1 | 34 | | 1650 | 1.3 | 40 | | 1855 | 1.8 | 55 | | 1731 | 1.6 | 49 |
| | 2238 | 4.5 | 137 | | 2258 | 4.3 | 131 | | 2337 | 4.4 | 134 | | 2323 | 3.9 | 119 | | | | | | | | |
| 5 Tu | 0431 | 0.7 | 21 | 20 W | 0504 | 1.0 | 30 | 5 F | 0530 | 1.1 | 34 | 20 Sa | 0514 | 1.3 | 40 | 5 M | 0649 | 3.5 | 107 | 20 Tu | 0003 | 3.2 | 98 |
| | 1059 | 4.0 | 122 | | 1119 | 4.1 | 125 | | 1201 | 4.1 | 125 | | 1152 | 3.9 | 119 | | 0647 | 1.8 | 55 | | 0544 | 1.6 | 49 |
| | 1647 | 0.8 | 24 | | 1656 | 1.2 | 37 | | 1805 | 1.4 | 43 | | 1723 | 1.6 | 49 | | 1327 | 3.5 | 107 | | 1250 | 3.3 | 101 |
| | 2317 | 4.4 | 134 | | 2329 | 4.0 | 122 | | | | | | 2354 | 3.6 | 110 | | 2049 | 2.0 | 61 | | 1840 | 1.8 | 55 |
| 6 W | 0512 | 0.8 | 24 | 21 Th | 0536 | 1.2 | 37 | 6 Sa | 0620 | 4.0 | 122 | 21 Su | 0546 | 1.5 | 46 | 6 Tu | 0201 | 3.1 | 94 | 21 W | 0102 | 2.9 | 88 |
| | 1140 | 3.9 | 119 | | 1154 | 3.8 | 116 | | 0617 | 1.4 | 43 | | 1232 | 3.6 | 110 | | 0851 | 2.0 | 61 | | 0731 | 1.9 | 58 |
| | 1733 | 1.0 | 30 | | 1730 | 1.4 | 43 | | 1248 | 3.8 | 116 | | 1807 | 1.8 | 55 | | 1523 | 3.2 | 98 | | 1405 | 3.2 | 98 |
| | 2359 | 4.1 | 125 | | | | | | 1914 | 1.7 | 52 | | | | | | 2229 | 1.9 | 58 | | 2103 | 1.9 | 58 |
| 7 Th | 0559 | 1.0 | 30 | 22 F | 0612 | 1.4 | 43 | 7 Su | 0723 | 1.7 | 52 | 22 M | 0638 | 1.8 | 55 | 7 W | 1038 | 1.9 | 58 | 22 Th | 0949 | 1.8 | 55 |
| | 1224 | 3.7 | 113 | | 1233 | 3.6 | 110 | | 1351 | 3.5 | 107 | | 1326 | 3.3 | 101 | | 1732 | 3.4 | 104 | | 1553 | 3.2 | 98 |
| | 1830 | 1.3 | 40 | | 1811 | 1.6 | 49 | | 2053 | 2.0 | 61 | | 1928 | 2.1 | 64 | | 2339 | 1.7 | 52 | | 2234 | 1.6 | 49 |
| | | | | | | | | | | | | | | | | | | | | | | | |
| 8 F | 0045 | 3.9 | 119 | 23 Sa | 0036 | 3.4 | 104 | 8 M | 0219 | 3.3 | 101 | 23 Tu | 0131 | 3.0 | 91 | 8 Th | 0552 | 3.3 | 101 | 23 F | 0506 | 3.0 | 91 |
| | 0655 | 1.2 | 37 | | 0700 | 1.6 | 49 | | 0900 | 1.9 | 58 | | 0839 | 2.0 | 61 | | 1146 | 1.7 | 52 | | 1100 | 1.5 | 46 |
| | 1316 | 3.6 | 110 | | 1318 | 3.4 | 104 | | 1537 | 3.4 | 104 | | 1449 | 3.2 | 98 | | 1825 | 3.7 | 113 | | 1719 | 3.6 | 110 |
| | 1944 | 1.5 | 46 | | 1910 | 1.9 | 58 | | 2229 | 1.9 | 58 | | 2143 | 2.1 | 64 | | | | | | 2330 | 1.3 | 40 |
| 9 Sa | 0139 | 3.6 | 110 | 24 Su | 0120 | 3.1 | 94 | 9 Tu | 0412 | 3.2 | 98 | 24 W | 0340 | 2.9 | 88 | 9 F | 0027 | 1.4 | 43 | 24 Sa | 0605 | 3.5 | 107 |
| | 0806 | 1.4 | 43 | | 0814 | 1.7 | 52 | | 1034 | 1.8 | 55 | | 1022 | 1.9 | 58 | | 0638 | 3.6 | 110 | | 1151 | 1.1 | 34 |
| | 1424 | 3.4 | 104 | | 1419 | 3.2 | 98 | | 1736 | 3.6 | 110 | | 1644 | 3.3 | 101 | | 1231 | 1.5 | 46 | | 1813 | 4.0 | 122 |
| | 2111 | 1.6 | 49 | | 2045 | 2.0 | 61 | | 2344 | 1.7 | 52 | | 2307 | 1.8 | 55 | | 1902 | 4.0 | 122 | | | | |
| 10 Su | 0250 | 3.3 | 101 | 25 M | 0227 | 2.9 | 88 | 10 W | 0552 | 3.4 | 104 | 25 Th | 0545 | 3.1 | 94 | 10 Sa | 0104 | 1.2 | 37 | 25 Su | 0014 | 0.9 | 27 |
| | 0926 | 1.4 | 43 | | 0940 | 1.8 | 55 | | 1146 | 1.7 | 52 | | 1128 | 1.6 | 49 | | 0713 | 3.9 | 119 | | 0647 | 4.0 | 122 |
| | 1601 | 3.4 | 104 | | 1550 | 3.2 | 98 | | 1836 | 3.9 | 119 | | 1757 | 3.7 | 113 | | 1306 | 1.2 | 37 | | 1236 | 0.8 | 24 |
| | 2232 | 1.6 | 49 | | 2220 | 1.9 | 58 | | | | | | | | | | 1933 | 4.3 | 131 | | 1857 | 4.4 | 134 |
| 11 M | 0425 | 3.3 | 101 | 26 Tu | 0439 | 2.9 | 88 | 11 Th | 0040 | 1.5 | 46 | 26 F | 0002 | 1.5 | 46 | 11 Su | 0134 | 1.0 | 30 | 26 M | 0054 | 0.5 | 15 |
| | 1040 | 1.4 | 43 | | 1052 | 1.7 | 52 | | 0648 | 3.7 | 113 | | 0636 | 3.6 | 110 | | 0744 | 4.2 | 128 | | 0726 | 4.4 | 134 |
| | 1736 | 3.6 | 110 | | 1726 | 3.4 | 104 | | 1239 | 1.4 | 43 | | 1217 | 1.3 | 40 | | 1336 | 1.0 | 30 | | 1317 | 0.5 | 15 |
| | 2342 | 1.4 | 43 | | 2331 | 1.7 | 52 | | 1918 | 4.2 | 128 | | 1845 | 4.2 | 128 | | 2003 | 4.4 | 134 | | 1938 | 4.7 | 143 |
| 12 Tu | 0551 | 3.4 | 104 | 27 W | 0608 | 3.1 | 94 | 12 F | 0123 | 1.2 | 37 | 27 Sa | 0044 | 1.1 | 34 | 12 M | 0202 | 0.8 | 24 | 27 Tu | 0132 | 0.3 | 9 |
| | 1145 | 1.3 | 40 | | 1149 | 1.5 | 46 | | 0729 | 4.0 | 122 | | 0716 | 4.0 | 122 | | 0815 | 4.4 | 134 | | 0804 | 4.7 | 143 |
| | 1839 | 3.9 | 119 | | 1826 | 3.7 | 113 | | 1320 | 1.2 | 37 | | 1300 | 1.0 | 30 | | 1403 | 0.9 | 27 | | 1357 | 0.3 | 9 |
| | | | | | | | | | 1954 | 4.5 | 137 | | 1926 | 4.6 | 140 | | 2031 | 4.5 | 137 | | 2018 | 4.9 | 149 |
| 13 W | 0041 | 1.2 | 37 | 28 Th | 0024 | 1.5 | 46 | 13 Sa | 0159 | 1.0 | 30 | 28 Su | 0123 | 0.8 | 24 | 13 Tu | 0227 | 0.7 | 21 | 28 W | 0209 | 0.2 | 6 |
| | 0651 | 3.7 | 113 | | 0658 | 3.5 | 107 | | 0805 | 4.3 | 131 | | 0753 | 4.4 | 134 | | 0845 | 4.6 | 140 | | 0842 | 4.9 | 149 |
| | 1240 | 1.1 | 34 | | 1237 | 1.2 | 37 | | 1355 | 1.1 | 34 | | 1340 | 0.7 | 21 | | 1429 | 0.8 | 24 | | 1437 | 0.2 | 6 |
| | 1926 | 4.2 | 128 | | 1911 | 4.1 | 125 | | 2026 | 4.7 | 143 | | 2005 | 4.9 | 149 | | 2059 | 4.5 | 137 | | 2057 | 4.9 | 149 |
| 14 Th | 0130 | 1.1 | 34 | 29 F | 0107 | 1.2 | 37 | 14 Su | 0230 | 0.9 | 27 | 29 M | 0159 | 0.6 | 18 | 14 W | 0252 | 0.7 | 21 | 29 Th | 0246 | 0.2 | 6 |
| | 0739 | 4.0 | 122 | | 0738 | 3.9 | 119 | | 0839 | 4.5 | 137 | | 0829 | 4.7 | 143 | | 0914 | 4.6 | 140 | | 0921 | 4.9 | 149 |
| | 1327 | 1.0 | 30 | | 1319 | 1.0 | 30 | | 1427 | 0.9 | 27 | | 1418 | 0.5 | 15 | | 1456 | 0.8 | 24 | | 1516 | 0.3 | 9 |
| | 2007 | 4.5 | 137 | | 1950 | 4.5 | 137 | | 2057 | 4.7 | 143 | | 2042 | 5.1 | 155 | | 2127 | 4.5 | 137 | | 2136 | 4.8 | 146 |
| 15 F | 0213 | 0.9 | 27 | 30 Sa | 0146 | 0.9 | 27 | 15 M | 0300 | 0.8 | 24 | 30 Tu | 0235 | 0.4 | 12 | 15 Th | 0317 | 0.7 | 21 | 30 F | 0324 | 0.3 | 9 |
| | 0820 | 4.2 | 128 | | 0815 | 4.2 | 128 | | 0911 | 4.6 | 140 | | 0905 | 4.9 | 149 | | 0944 | 4.5 | 137 | | 1000 | 4.8 | 146 |
| | 1408 | 0.9 | 27 | | 1359 | 0.8 | 24 | | 1456 | 0.9 | 27 | | 1457 | 0.4 | 12 | | 1522 | 0.8 | 24 | | 1557 | 0.5 | 15 |
| | 2045 | 4.6 | 140 | | 2028 | 4.8 | 146 | | 2127 | 4.7 | 143 | | 2120 | 5.2 | 158 | | 2155 | 4.3 | 131 | | 2216 | 4.5 | 137 |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | 31 Su | 0222 | 0.7 | 21 | | | | | 31 W | 0311 | 0.4 | 12 | | | | | | | | |

Inch'on, Korea, 2011

Times and Heights of High and Low Waters

| January | | | | February | | | | March | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|--------|------|-----|----------|-----------------|--------|------|-------|--------|-----------------|--------|------|--------|----|-----------------|--------|------|-----|----|-----------------|------|------|-----|--|-----------------|--------|------|-----|--|-----------------|------|------|-----|--|
| Time | Height | | | Time | Height | | | Time | Height | | | Time | Height | | | | | | | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | | | | | | |
| 1 Sa | 0159 | 21.0 | 640 | | 16 Su | 0134 | 19.2 | 585 | | 1 Tu | 0358 | 21.7 | 661 | | 16 W | 0323 | 21.9 | 668 | | 1 Tu | 0237 | 19.4 | 591 | | 16 W | 0147 | 20.0 | 610 | | | | | | |
| | 0817 | 4.5 | 137 | | | 0750 | 6.9 | 210 | | | 0958 | 3.6 | 110 | | | 0927 | 3.3 | 101 | | | 0843 | 7.1 | 216 | | | 0753 | 6.5 | 198 | | | | | | |
| | 1506 | 24.4 | 744 | | | 1436 | 21.8 | 664 | | | 1644 | 25.8 | 786 | | | 1603 | 25.9 | 789 | | | 1540 | 23.1 | 704 | | | 1436 | 23.6 | 719 | | | | | | |
| | 2114 | 6.7 | 204 | | | 2057 | 8.5 | 259 | | | 2245 | 4.7 | 143 | | | 2216 | 4.1 | 125 | | | 2144 | 7.2 | 219 | | | 2057 | 6.7 | 204 | | | | | | |
| 2 Su | 0310 | 21.8 | 664 | | 17 M | 0247 | 20.3 | 619 | | 2 W | 0444 | 23.3 | 710 | | 17 Th | 0415 | 24.3 | 741 | | 2 W | 0342 | 21.6 | 658 | | 17 Th | 0300 | 22.7 | 692 | | 17 Th | 0903 | 3.8 | 116 | |
| | 0919 | 3.3 | 101 | | | 0857 | 5.1 | 155 | | | 1042 | 2.2 | 67 | | | 1018 | 0.8 | 24 | | | 0941 | 5.0 | 152 | | | 1534 | 26.2 | 799 | | | | | | |
| | 1605 | 25.9 | 789 | | | 1536 | 23.9 | 728 | | | 1720 | 26.7 | 814 | | | 1647 | 28.1 | 856 | | | 1622 | 25.0 | 762 | | | 1534 | 26.2 | 799 | | | | | | |
| | 2210 | 5.3 | 162 | | | 2152 | 6.4 | 195 | | | 2322 | 3.4 | 104 | | | 2257 | 1.7 | 52 | | | 2225 | 4.9 | 149 | | | 2148 | 3.6 | 110 | | | | | | |
| 3 M | 0406 | 22.8 | 695 | | 18 Tu | 0343 | 22.0 | 671 | | 3 Th | 0523 | 24.4 | 744 | | 18 F | 0501 | 26.4 | 805 | | 3 Th | 0427 | 23.7 | 722 | | 18 F | 0355 | 25.6 | 780 | | 18 F | 0957 | 1.2 | 37 | |
| | 1010 | 2.1 | 64 | | | 0949 | 2.9 | 88 | | | 1121 | 1.2 | 37 | | | 1103 | -1.2 | -37 | | | 1025 | 3.2 | 98 | | | 0957 | 1.2 | 37 | | | | | | |
| | 1653 | 27.0 | 823 | | | 1624 | 25.9 | 789 | | | 1753 | 27.2 | 829 | | | 1728 | 29.5 | 899 | | | 1655 | 26.3 | 802 | | | 1620 | 28.3 | 863 | | | | | | |
| | 2256 | 4.2 | 128 | | | 2237 | 4.4 | 134 | | | ● 2356 | 2.5 | 76 | | | ○ 2337 | -0.2 | -6 | | | 2259 | 3.2 | 98 | | | 2231 | 0.9 | 27 | | | | | | |
| 4 Tu | 0453 | 23.6 | 719 | | 19 W | 0431 | 23.6 | 719 | | 4 F | 0600 | 25.0 | 762 | | 19 Sa | 0545 | 28.0 | 853 | | 4 F | 0504 | 25.3 | 771 | | 19 Sa | 0441 | 28.0 | 853 | | 19 Sa | 1045 | -0.8 | -24 | |
| | 1054 | 1.3 | 40 | | | 1035 | 0.9 | 27 | | | 1157 | 0.8 | 24 | | | 1147 | -2.4 | -73 | | | 1102 | 1.9 | 58 | | | 1703 | 29.6 | 902 | | | | | | |
| | 1734 | 27.4 | 835 | | | 1707 | 27.6 | 841 | | | 1823 | 27.3 | 832 | | | 1808 | 30.2 | 920 | | | 1725 | 27.0 | 823 | | | 1703 | 29.6 | 902 | | | | | | |
| | ● 2337 | 3.5 | 107 | | | 2318 | 2.6 | 79 | | | ● | | | | | ○ | | | | | 2331 | 2.0 | 61 | | | 2312 | -1.0 | -30 | | | | | | |
| 5 W | 0535 | 24.0 | 732 | | 20 Th | 0516 | 25.0 | 762 | | 5 Sa | 0029 | 2.0 | 61 | | 20 Su | 0016 | -1.4 | -43 | | 5 Sa | 0538 | 26.3 | 802 | | 20 Su | 0526 | 29.7 | 905 | | 20 Su | 1129 | -1.7 | -52 | |
| | 1134 | 0.9 | 27 | | | 1119 | -0.8 | -24 | | | 0635 | 25.4 | 774 | | | 0629 | 29.0 | 884 | | | 1137 | 1.2 | 37 | | | 1129 | -1.7 | -52 | | | | | | |
| | 1811 | 27.4 | 835 | | | 1748 | 28.8 | 878 | | | 1232 | 0.8 | 24 | | | 1230 | -2.7 | -82 | | | 1754 | 27.3 | 832 | | | 1743 | 30.0 | 914 | | | | | | |
| | | | | | | ○ 2358 | 1.2 | 37 | | | 1853 | 27.2 | 829 | | | 1848 | 30.2 | 920 | | | ● | | | | | ○ 2351 | -2.0 | -61 | | | | | | |
| 6 Th | 0015 | 3.2 | 98 | | 21 F | 0600 | 26.1 | 796 | | 6 Su | 0059 | 1.8 | 55 | | 21 M | 0055 | -2.0 | -61 | | 6 Su | 0001 | 1.4 | 43 | | 21 M | 0609 | 30.6 | 933 | | 21 M | 1213 | -1.6 | -49 | |
| | 0615 | 24.2 | 738 | | | 1202 | -1.9 | -58 | | | 0709 | 25.6 | 780 | | | 0712 | 29.4 | 896 | | | 0611 | 26.8 | 817 | | | 1213 | -1.6 | -49 | | | | | | |
| | 1213 | 0.9 | 27 | | | 1829 | 29.5 | 899 | | | 1305 | 1.1 | 34 | | | 1312 | -2.1 | -64 | | | 1211 | 1.2 | 37 | | | 1824 | 29.6 | 902 | | | | | | |
| | 1845 | 27.2 | 829 | | | | | | | | 1922 | 26.8 | 817 | | | 1928 | 29.5 | 899 | | | 1823 | 27.1 | 826 | | | | | | | | | | | |
| 7 F | 0051 | 3.1 | 94 | | 22 Sa | 0038 | 0.1 | 3 | | 7 M | 0128 | 1.7 | 52 | | 22 Tu | 0133 | -2.0 | -61 | | 7 M | 0030 | 1.2 | 37 | | 22 Tu | 0030 | -2.2 | -67 | | 22 Tu | 0652 | 30.7 | 936 | |
| | 0653 | 24.2 | 738 | | | 0645 | 26.9 | 820 | | | 0741 | 25.6 | 780 | | | 0754 | 29.3 | 893 | | | 0643 | 26.9 | 820 | | | 0652 | 30.7 | 936 | | | | | | |
| | 1249 | 1.1 | 34 | | | 1244 | -2.4 | -73 | | | 1337 | 1.7 | 52 | | | 1354 | -0.6 | -18 | | | 1243 | 1.5 | 46 | | | 1256 | -0.7 | -21 | | | | | | |
| | 1918 | 26.8 | 817 | | | 1910 | 29.8 | 908 | | | 1950 | 26.3 | 802 | | | 2006 | 28.3 | 863 | | | 1852 | 26.7 | 814 | | | 1904 | 28.7 | 875 | | | | | | |
| 8 Sa | 0125 | 3.1 | 94 | | 23 Su | 0117 | -0.7 | -21 | | 8 Tu | 0156 | 1.8 | 55 | | 23 W | 0211 | -1.2 | -37 | | 8 Tu | 0058 | 1.3 | 40 | | 23 W | 0108 | -1.7 | -52 | | 23 W | 0734 | 30.1 | 917 | |
| | 0730 | 24.2 | 738 | | | 0729 | 27.4 | 835 | | | 0811 | 25.4 | 774 | | | 0835 | 28.4 | 866 | | | 0713 | 26.8 | 817 | | | 0734 | 30.1 | 917 | | | | | | |
| | 1325 | 1.5 | 46 | | | 1327 | -2.1 | -64 | | | 1409 | 2.6 | 79 | | | 1436 | 1.5 | 46 | | | 1315 | 2.1 | 64 | | | 1338 | 0.9 | 27 | | | | | | |
| | 1949 | 26.5 | 808 | | | 1950 | 29.5 | 899 | | | 2018 | 25.6 | 780 | | | 2043 | 26.6 | 811 | | | 1920 | 26.2 | 799 | | | 1943 | 27.4 | 835 | | | | | | |
| 9 Su | 0157 | 3.1 | 94 | | 24 M | 0156 | -0.9 | -27 | | 9 W | 0223 | 2.2 | 67 | | 24 Th | 0250 | 0.4 | 12 | | 9 W | 0125 | 1.5 | 46 | | 24 Th | 0147 | -0.6 | -18 | | 24 Th | 0815 | 28.9 | 881 | |
| | 0806 | 24.1 | 735 | | | 0812 | 27.5 | 838 | | | 0840 | 24.9 | 759 | | | 0917 | 26.8 | 817 | | | 0741 | 26.6 | 811 | | | 0815 | 28.9 | 881 | | | | | | |
| | 1359 | 2.1 | 64 | | | 1410 | -1.1 | -34 | | | 1439 | 3.8 | 116 | | | 1521 | 4.2 | 128 | | | 1345 | 3.0 | 91 | | | 1420 | 2.9 | 88 | | | | | | |
| | 2020 | 25.9 | 789 | | | 2029 | 28.6 | 872 | | | 2045 | 24.6 | 750 | | | 2122 | 24.4 | 744 | | | 1947 | 25.5 | 777 | | | 2022 | 25.7 | 783 | | | | | | |
| 10 M | 0228 | 3.2 | 98 | | 25 Tu | 0236 | -0.5 | -15 | | 10 Th | 0251 | 3.0 | 91 | | 25 F | 0331 | 2.6 | 79 | | 10 Th | 0151 | 1.9 | 58 | | 25 F | 0225 | 1.2 | 37 | | 25 F | 0856 | 27.2 | 829 | |
| | 0840 | 23.8 | 725 | | | 0856 | 27.0 | 823 | | | 0909 | 24.0 | 732 | | | 1003 | 24.6 | 750 | | | 0808 | 26.1 | 796 | | | 0856 | 27.2 | 829 | | | | | | |
| | 1433 | 3.1 | 94 | | | 1454 | 0.8 | 24 | | | 1512 | 5.5 | 168 | | | 1612 | 7.3 | 223 | | | 1415 | 4.0 | 122 | | | 1502 | 5.4 | 165 | | | | | | |
| | 2050 | 25.1 | 765 | | | 2108 | 27.0 | 823 | | | 2115 | 23.2 | 707 | | | ○ 2208 | 21.8 | 664 | | | 2014 | 24.7 | 753 | | | 2102 | 23.8 | 725 | | | | | | |
| 11 Tu | 0258 | 3.7 | 113 | | 26 W | 0317 | 0.7 | 21 | | 11 F | 0324 | 4.2 | 128 | | 26 Sa | 0421 | 5.3 | 162 | | 11 F | 0220 | 2.6 | 79 | | 26 Sa | 0305 | 3.4 | 104 | | 26 Sa | 0939 | 25.0 | 762 | |
| | 0915 | 23.3 | 710 | | | 0941 | 25.8 | 786 | | | 0944 | 22.8 | 695 | | | 1103 | 22.3 | 680 | | | 0835 | 25.4 | 774 | | | 0939 | 25.0 | 762 | | | | | | |
| | 1509 | 4.5 | 137 | | | 1542 | 3.5 | 107 | | | 1552 | 7.6 | 232 | | | 1723 | 10.0 | 305 | | | 1446 | 5.4 | 165 | | | 1550 | 7.9 | 241 | | | | | | |
| | 2122 | 24.0 | 732 | | | ○ 2150 | 24.8 | 756 | | | ○ 2154 | 21.4 | 652 | | | 2316 | 19.4 | 591 | | | 2043 | 23.6 | 719 | | | 2147 | 21.7 | 661 | | | | | | |
| 12 W | 0331 | 4.4 | 134 | | 27 Th | 0403 | 2.5 | 76 | | 12 Sa | 0407 | 5.8 | 177 | | 27 Su | 0535 | 7.7 | 235 | | 12 Sa | 0252 | 3.6 | 110 | | 27 Su | 0352 | 5.9 | 180 | | 27 Su | 1033 | 22.7 | 692 | |
| | 0953 | 22.4 | 683 | | | 1033 | 24.0 | 732 | | | 1037 | 21.2 | 646 | | | 1235 | 20.7 | 631 | | | 0907 | 24.3 | 741 | | | 1033 | 22.7 | 692 | | | | | | |
| | 1548 | 6.4 | 195 | | | 1639 | 6.5 | 198 | | | 1654 | 9.7 | 296 | | | 1907 | 11.1 | 338 | | | 1523 | 7.1 | 216 | | | 1654 | 10.2 | 311 | | | | | | |
| | ○ 2200 | 22.4 | 683 | | | 2241 | 22.2 | 677 | | | 2258 | 19.4 | 591 | | | | | | | | 2119 | 22.0 | 671 | | | 2251 | 19.6 | 597 | | | | | | |
| 13 Th | 0411 | 5.6 | 171 | | 28 F | 0500 | 4.7 | 143 | | 13 Su | 0516 | 7.4 | 226 | | 28 M | 0057 | 18.3 | 558 | | 13 Su | | | | | | | | | | | | | | |

Inch'on, Korea, 2011

Times and Heights of High and Low Waters

| April | | | | May | | | | June | | | | | | | | | | | | | | | |
|-----------------|------|------|--------|-----------------|------|------|-----|-----------------|-----------------|------|------|-----------------|--------|------|-----|-----------------|------|------|-----|-----------------|------|------|-----|
| | Time | | Height | | | Time | | Height | | | Time | | Height | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | |
| 1 F | 0359 | 24.2 | 738 | 16 Sa | 0331 | 26.7 | 814 | 1 Su | 0404 | 26.0 | 792 | 16 M | 0359 | 29.1 | 887 | 1 W | 0450 | 27.3 | 832 | 16 Th | 0523 | 29.7 | 905 |
| | 0959 | 4.5 | 137 | | 0935 | 2.3 | 70 | | 1010 | 4.9 | 149 | | 1007 | 2.9 | 88 | | 1102 | 5.5 | 168 | | 1130 | 4.2 | 128 |
| | 1617 | 25.5 | 777 | | 1550 | 27.8 | 847 | | 1610 | 25.2 | 768 | | 1609 | 27.0 | 823 | | 1653 | 24.5 | 747 | | 1726 | 25.4 | 774 |
| | 2227 | 3.4 | 104 | | 2202 | 0.8 | 24 | | 2223 | 3.1 | 94 | | 2219 | 0.2 | 6 | | 2300 | 3.1 | 94 | | 2329 | 1.3 | 40 |
| 2 Sa | 0436 | 26.0 | 792 | 17 Su | 0420 | 29.1 | 887 | 2 M | 0441 | 27.2 | 829 | 17 Tu | 0447 | 30.4 | 927 | 2 Th | 0527 | 27.6 | 841 | 17 F | 0608 | 29.4 | 896 |
| | 1038 | 3.1 | 94 | | 1025 | 0.7 | 21 | | 1048 | 4.1 | 125 | | 1056 | 2.3 | 70 | | 1140 | 5.2 | 158 | | 1214 | 4.3 | 131 |
| | 1649 | 26.4 | 805 | | 1635 | 28.7 | 875 | | 1646 | 25.6 | 780 | | 1655 | 27.1 | 826 | | 1732 | 24.5 | 747 | | 1812 | 25.1 | 765 |
| | 2259 | 2.2 | 67 | | 2245 | -0.8 | -24 | | 2256 | 2.4 | 73 | | 2303 | -0.3 | -9 | | 2336 | 2.7 | 82 | | | | |
| 3 Su | 0511 | 27.2 | 829 | 18 M | 0505 | 30.6 | 933 | 3 Tu | 0516 | 27.8 | 847 | 18 W | 0533 | 30.7 | 936 | 3 F | 0604 | 27.8 | 847 | 18 Sa | 0011 | 1.7 | 52 |
| | 1114 | 2.4 | 73 | | 1112 | 0.0 | 0 | | 1124 | 3.9 | 119 | | 1142 | 2.5 | 76 | | 1217 | 5.1 | 155 | | 0650 | 28.9 | 881 |
| | 1720 | 26.7 | 814 | | 1717 | 28.8 | 878 | | 1720 | 25.5 | 777 | | 1740 | 26.6 | 811 | | 1811 | 24.5 | 747 | | 1255 | 4.6 | 140 |
| | 2329 | 1.6 | 49 | | 2325 | -1.5 | -46 | | 2328 | 2.3 | 70 | | 2345 | 0.0 | 0 | | | | | | 1857 | 24.8 | 756 |
| 4 M | 0544 | 27.7 | 844 | 19 Tu | 0549 | 31.2 | 951 | 4 W | 0549 | 27.9 | 850 | 19 Th | 0618 | 30.2 | 920 | 4 Sa | 0013 | 2.4 | 73 | 19 Su | 0052 | 2.3 | 70 |
| | 1148 | 2.3 | 70 | | 1156 | 0.3 | 9 | | 1159 | 4.1 | 125 | | 1226 | 3.2 | 98 | | 0641 | 27.9 | 850 | | 0729 | 28.2 | 860 |
| | 1751 | 26.5 | 808 | | 1800 | 28.3 | 863 | | 1754 | 25.2 | 768 | | 1825 | 25.8 | 786 | | 1254 | 4.9 | 149 | | 1334 | 4.9 | 149 |
| | 2358 | 1.5 | 46 | | | | | | 2359 | 2.3 | 70 | | | | | | 1851 | 24.5 | 747 | | 1939 | 24.5 | 747 |
| 5 Tu | 0615 | 27.7 | 844 | 20 W | 0006 | -1.4 | -43 | 5 Th | 0622 | 27.7 | 844 | 20 F | 0027 | 0.8 | 24 | 5 Su | 0051 | 2.0 | 61 | 20 M | 0131 | 3.1 | 94 |
| | 1221 | 2.7 | 82 | | 0633 | 30.9 | 942 | | 1233 | 4.5 | 137 | | 0703 | 29.4 | 896 | | 0719 | 28.1 | 856 | | 0805 | 27.6 | 841 |
| | 1822 | 26.1 | 796 | | 1240 | 1.3 | 40 | | 1829 | 24.8 | 756 | | 1309 | 4.2 | 128 | | 1332 | 4.6 | 140 | | 1412 | 5.2 | 158 |
| | | | | | 1842 | 27.3 | 832 | | | | | | 1909 | 25.0 | 762 | | 1933 | 24.6 | 750 | | 2019 | 24.3 | 741 |
| 6 W | 0027 | 1.7 | 52 | 21 Th | 0046 | -0.6 | -18 | 6 F | 0032 | 2.4 | 73 | 21 Sa | 0108 | 1.8 | 55 | 6 M | 0131 | 1.8 | 55 | 21 Tu | 0210 | 3.9 | 119 |
| | 0646 | 27.5 | 838 | | 0716 | 30.0 | 914 | | 0655 | 27.5 | 838 | | 0745 | 28.3 | 863 | | 0759 | 28.2 | 860 | | 0839 | 26.9 | 820 |
| | 1253 | 3.3 | 101 | | 1323 | 2.7 | 82 | | 1308 | 4.8 | 146 | | 1351 | 5.1 | 155 | | 1411 | 4.3 | 131 | | 1448 | 5.5 | 168 |
| | 1852 | 25.6 | 780 | | 1924 | 26.0 | 792 | | 1904 | 24.4 | 744 | | 1953 | 24.2 | 738 | | 2017 | 24.8 | 756 | | 2059 | 24.0 | 732 |
| 7 Th | 0056 | 2.0 | 61 | 22 F | 0125 | 0.7 | 21 | 7 Sa | 0106 | 2.5 | 76 | 22 Su | 0148 | 3.0 | 91 | 7 Tu | 0214 | 2.0 | 61 | 22 W | 0248 | 5.0 | 152 |
| | 0715 | 27.2 | 829 | | 0758 | 28.7 | 875 | | 0728 | 27.3 | 832 | | 0825 | 27.2 | 829 | | 0840 | 28.1 | 856 | | 0912 | 26.0 | 792 |
| | 1324 | 3.9 | 119 | | 1405 | 4.4 | 134 | | 1343 | 5.1 | 155 | | 1432 | 6.1 | 186 | | 1454 | 4.2 | 128 | | 1524 | 5.9 | 180 |
| | 1922 | 25.0 | 762 | | 2006 | 24.7 | 753 | | 1940 | 24.2 | 738 | | 2036 | 23.5 | 716 | | 2103 | 24.7 | 753 | | 2139 | 23.5 | 716 |
| 8 F | 0125 | 2.2 | 67 | 23 Sa | 0205 | 2.3 | 70 | 8 Su | 0142 | 2.6 | 79 | 23 M | 0229 | 4.3 | 131 | 8 W | 0300 | 2.8 | 85 | 23 Th | 0329 | 6.4 | 195 |
| | 0743 | 26.8 | 817 | | 0839 | 27.2 | 829 | | 0805 | 27.1 | 826 | | 0903 | 26.1 | 796 | | 0925 | 27.5 | 838 | | 0949 | 24.9 | 759 |
| | 1356 | 4.7 | 143 | | 1447 | 6.1 | 186 | | 1421 | 5.4 | 165 | | 1514 | 6.9 | 210 | | 1541 | 4.4 | 134 | | 1604 | 6.6 | 201 |
| | 1952 | 24.4 | 744 | | 2048 | 23.4 | 713 | | 2020 | 23.8 | 725 | | 2120 | 22.7 | 692 | | 2156 | 24.4 | 744 | | 2225 | 22.8 | 695 |
| 9 Sa | 0157 | 2.7 | 82 | 24 Su | 0246 | 4.1 | 125 | 9 M | 0222 | 3.0 | 91 | 24 Tu | 0311 | 5.7 | 174 | 9 Th | 0353 | 4.2 | 128 | 24 F | 0417 | 8.1 | 247 |
| | 0813 | 26.3 | 802 | | 0921 | 25.4 | 774 | | 0846 | 26.7 | 814 | | 0943 | 24.8 | 756 | | 1017 | 26.4 | 805 | | 1033 | 23.5 | 716 |
| | 1430 | 5.6 | 171 | | 1533 | 7.9 | 241 | | 1504 | 5.9 | 180 | | 1559 | 7.8 | 238 | | 1637 | 4.9 | 149 | | 1653 | 7.4 | 226 |
| | 2025 | 23.6 | 719 | | 2135 | 21.9 | 668 | | 2107 | 23.2 | 707 | | 2209 | 21.9 | 668 | | 2258 | 24.0 | 732 | | 2322 | 22.1 | 674 |
| 10 Su | 0233 | 3.4 | 104 | 25 M | 0331 | 6.1 | 186 | 10 Tu | 0309 | 3.9 | 119 | 25 W | 0400 | 7.4 | 226 | 10 F | 0458 | 6.0 | 183 | 25 Sa | 0520 | 9.8 | 299 |
| | 0850 | 25.5 | 777 | | 1009 | 23.6 | 719 | | 1557 | 6.6 | 201 | | 1652 | 8.5 | 259 | | 1118 | 25.1 | 765 | | 1130 | 22.1 | 674 |
| | 1510 | 6.8 | 207 | | 1628 | 9.4 | 287 | | 2206 | 22.5 | 686 | | 2308 | 21.2 | 646 | | 1743 | 5.4 | 165 | | 1755 | 8.1 | 247 |
| | 2107 | 22.5 | 686 | | 2232 | 20.5 | 625 | | | | | | | | | | | | | | | | |
| 11 M | 0317 | 4.6 | 140 | 26 Tu | 0429 | 8.2 | 250 | 11 W | 0407 | 5.2 | 158 | 26 Th | 0502 | 8.9 | 271 | 11 Sa | 0012 | 24.0 | 732 | 26 Su | 0031 | 21.9 | 668 |
| | 0940 | 24.3 | 741 | | 1110 | 22.1 | 674 | | 1038 | 24.9 | 759 | | 1126 | 22.4 | 683 | | 0617 | 7.3 | 223 | | 0641 | 10.7 | 326 |
| | 1605 | 8.3 | 253 | | 1742 | 10.2 | 311 | | 1704 | 7.2 | 219 | | 1759 | 8.7 | 265 | | 1231 | 24.1 | 735 | | 1241 | 21.3 | 649 |
| | 2208 | 21.1 | 643 | | 2348 | 19.7 | 600 | | 2321 | 22.1 | 674 | | | | | | 1856 | 5.1 | 155 | | 1907 | 8.1 | 247 |
| 12 Tu | 0418 | 6.2 | 189 | 27 W | 0550 | 9.6 | 293 | 12 Th | 0522 | 6.5 | 198 | 27 F | 0018 | 21.1 | 643 | 12 Su | 0130 | 24.8 | 756 | 27 M | 0145 | 22.5 | 686 |
| | 1055 | 23.0 | 701 | | 1227 | 21.3 | 649 | | 1154 | 24.2 | 738 | | 0621 | 9.8 | 299 | | 0740 | 7.3 | 223 | | 0803 | 10.3 | 314 |
| | 1728 | 9.2 | 280 | | 1907 | 9.7 | 296 | | 1823 | 6.8 | 207 | | 1235 | 21.8 | 664 | | 1345 | 24.0 | 732 | | 1353 | 21.4 | 652 |
| | 2341 | 20.3 | 619 | | | | | | | | | | 1910 | 8.2 | 250 | | 2005 | 4.2 | 128 | | 2014 | 7.3 | 223 |
| 13 W | 0546 | 7.3 | 223 | 28 Th | 0113 | 20.2 | 616 | 13 F | 0045 | 22.7 | 692 | 28 Sa | 0132 | 21.9 | 668 | 13 M | 0242 | 26.5 | 808 | 28 Tu | 0251 | 23.9 | 728 |
| | 1231 | 22.7 | 692 | | 0720 | 9.4 | 287 | | 0649 | 6.8 | 207 | | 0742 | 9.5 | 290 | | 0852 | 6.4 | 195 | | 0908 | 9.1 | 277 |
| | 1904 | 8.5 | 259 | | 1345 | 21.8 | 664 | | 1313 | 24.3 | 741 | | 1344 | 22.0 | 671 | | 1452 | 24.5 | 747 | | 1455 | 22.1 | 674 |
| | | | | | 2017 | 8.0 | 244 | | 1938 | 5.4 | 165 | | 2012 | 7.0 | 213 | | 2105 | 2.9 | 88 | | 2109 | 6.0 | 183 |
| 14 Th | 0117 | 21.2 | 646 | 29 F | 0227 | 22.0 | 671 | 14 Sa | 0202 | 24.6 | 750 | 29 Su | 0236 | 23.5 | 716 | 14 Tu | 0343 | 28.2 | 860 | 29 W | 0343 | 25.4 | 774 |
| | 0721 | 6.6 | 201 | | 0833 | 8.0 | 244 | | 0808 | 5.7 | 174 | | 0848 | 8.3 | 253 | | 0952 | 5.2 | 158 | | 0959 | 7.7 | 235 |
| | 1356 | 24.1 | 735 | | 1446 | 23.0 | 701 | | 1422 | 25.3 | 771 | | 1443 | 22.8 | 695 | | 1549 | 25.1 | 765 | | 1547 | 23.1 | 704 |
| | 2019 | 6.1 | 186 | | 2107 | 6.0 | 183 | | 2040 | 3.3 | 101 | | 2103 | 5.6 | 171 | | 2158 | 1.9 | 58 | | 2155 | 4.7 | 143 |
| 15 F | 0232 | 23.7 | 722 | 30 Sa | 0321 | 24.1 | 735 | 15 Su | 0306 | 27.0 | 823 | 30 M | 0328 | 25.2 | 768 | 15 W | 0435 | 29.3 | 893 | 30 Th | 0428 | 26.6 | 811 |
| | 0836 | 4.5 | 137 | | 0927 | 6.3 | 192 | | 0912 | 4.1 | 125 | | 0939 | 7.0 | 213 | | 1044 | 4.5 | 137 | | 1042 | 6.5 | 198 |
| | 1459 | 26.1 | 796 | | 1532 | 24.3 | 741 | | 1519 | 26.4 | 805 | | 1532 | 23.7 | 722 | | 1639 | 25.4 | 774 | | 1632 | 23.9 | 728 |
| | 2115 | 3.2 | 98 | | 2148 | 4.3 | 131 | | 2132 | 1.4 | 43 | | 2146 | 4.4 | 134 | | 2245 | 1.3 | 40 | | 2237 | 3.5 | 107 |
| | | | | | | | | | 31 Tu | 0411 | 26.5 | 808 | | | | | | | | | | | |
| | | | | | | | | | | 1023 | 6.0 | 183 | | | | | | | | | | | |
| | | | | | | | | | | 1614 | 24.3 | 741 | | | | | | | | | | | |
| | | | | | | | | | | 2224 | 3.6 | 110 | | | | | | | | | | | |

Time meridian 135° E. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to the chart datum of soundings.

Inch'on, Korea, 2011

Times and Heights of High and Low Waters

| July | | | | August | | | | September | | | | | | | | | | | | | | | | | | | | | |
|-----------------|--------|------|-----|--------|-----------------|------|------|-----------|--------|-----------------|------|------|--------|----|-----------------|------|------|-----|----|-----------------|------|------|-----|--|-----------------|------|------|-----|--|
| Time | Height | | | Time | Height | | | Time | Height | | | Time | Height | | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | |
| 1 F | 0508 | 27.6 | 841 | | 16 Sa | 0555 | 29.0 | 884 | | 1 M | 0606 | 30.1 | 917 | | 16 Tu | 0015 | 2.2 | 67 | | 1 Th | 0047 | -0.5 | -15 | | 16 F | 0058 | 3.6 | 110 | |
| | 1121 | 5.5 | 168 | | | 1159 | 4.4 | 134 | | | 1217 | 2.1 | 64 | | | 0635 | 28.6 | 872 | | | 0659 | 30.7 | 936 | | | 0701 | 27.1 | 826 | |
| | 1714 | 24.6 | 750 | | | 1759 | 25.4 | 774 | | | 1822 | 27.6 | 841 | | | 1242 | 3.0 | 91 | | | 1308 | -0.8 | -24 | | | 1308 | 2.7 | 82 | |
| | 2317 | 2.5 | 76 | | | 2356 | 2.1 | 64 | | | | | | | | 1852 | 27.0 | 823 | | | 1927 | 30.5 | 930 | | | 1925 | 27.4 | 835 | |
| 2 Sa | 0547 | 28.3 | 863 | | 17 Su | 0631 | 28.8 | 878 | | 2 Tu | 0022 | -0.2 | -6 | | 17 W | 0049 | 2.7 | 82 | | 2 F | 0129 | 0.6 | 18 | | 17 Sa | 0130 | 4.5 | 137 | |
| | 1159 | 4.7 | 143 | | | 1236 | 4.1 | 125 | | | 0645 | 30.6 | 933 | | | 0704 | 28.2 | 860 | | | 0739 | 29.7 | 905 | | | 0730 | 26.3 | 802 | |
| | 1756 | 25.1 | 765 | | | 1840 | 25.5 | 777 | | | 1255 | 1.1 | 34 | | | 1313 | 3.0 | 91 | | | 1347 | -0.3 | -9 | | | 1336 | 3.3 | 101 | |
| | 2357 | 1.6 | 49 | | | | | | | | 1905 | 28.4 | 866 | | | 1925 | 26.9 | 820 | | | 2010 | 29.9 | 911 | | | 1953 | 26.8 | 817 | |
| 3 Su | 0627 | 28.9 | 881 | | 18 M | 0035 | 2.3 | 70 | | 3 W | 0104 | -0.3 | -9 | | 18 Th | 0123 | 3.3 | 101 | | 3 Sa | 0213 | 2.4 | 73 | | 18 Su | 0200 | 5.7 | 174 | |
| | 1238 | 3.9 | 119 | | | 0705 | 28.4 | 866 | | | 0725 | 30.6 | 933 | | | 0734 | 27.6 | 841 | | | 0819 | 28.2 | 860 | | | 0758 | 25.3 | 771 | |
| | 1839 | 25.6 | 780 | | | 1311 | 4.1 | 125 | | | 1333 | 0.6 | 18 | | | 1341 | 3.2 | 98 | | | 1426 | 1.0 | 30 | | | 1405 | 4.0 | 122 | |
| | | | | | | 1918 | 25.6 | 780 | | | 1948 | 28.8 | 878 | | | 1957 | 26.7 | 814 | | | 2054 | 28.6 | 872 | | | 2022 | 26.0 | 792 | |
| 4 M | 0038 | 1.0 | 30 | | 19 Tu | 0112 | 2.8 | 85 | | 4 Th | 0147 | 0.4 | 12 | | 19 F | 0155 | 4.3 | 131 | | 4 Su | 0258 | 4.8 | 146 | | 19 M | 0232 | 7.0 | 213 | |
| | 0706 | 29.3 | 893 | | | 0737 | 28.0 | 853 | | | 0804 | 30.1 | 917 | | | 0803 | 26.9 | 820 | | | 0900 | 26.2 | 799 | | | 0828 | 24.1 | 735 | |
| | 1316 | 3.1 | 94 | | | 1344 | 4.0 | 122 | | | 1412 | 0.5 | 15 | | | 1410 | 3.6 | 110 | | | 1509 | 2.9 | 88 | | | 1436 | 5.0 | 152 | |
| | 1922 | 26.2 | 799 | | | 1955 | 25.5 | 777 | | | 2031 | 28.7 | 875 | | | 2027 | 26.2 | 799 | | | 2141 | 26.7 | 814 | | | 2054 | 24.8 | 756 | |
| 5 Tu | 0119 | 0.7 | 21 | | 20 W | 0147 | 3.5 | 107 | | 5 F | 0230 | 1.8 | 55 | | 20 Sa | 0227 | 5.5 | 168 | | 5 M | 0348 | 7.7 | 235 | | 20 Tu | 0308 | 8.7 | 265 | |
| | 0746 | 29.6 | 902 | | | 0808 | 27.5 | 838 | | | 0843 | 28.9 | 881 | | | 0832 | 25.8 | 786 | | | 0948 | 23.8 | 725 | | | 0903 | 22.6 | 689 | |
| | 1355 | 2.4 | 73 | | | 1416 | 4.1 | 125 | | | 1453 | 1.2 | 37 | | | 1438 | 4.4 | 134 | | | 1558 | 5.4 | 165 | | | 1515 | 6.4 | 195 | |
| | 2006 | 26.6 | 811 | | | 2030 | 25.4 | 774 | | | 2116 | 28.0 | 853 | | | 2058 | 25.4 | 774 | | | 2241 | 24.5 | 747 | | | 2139 | 23.4 | 713 | |
| 6 W | 0202 | 0.9 | 27 | | 21 Th | 0222 | 4.4 | 134 | | 6 Sa | 0317 | 4.0 | 122 | | 21 Su | 0300 | 7.1 | 216 | | 6 Tu | 0455 | 10.4 | 317 | | 21 W | 0358 | 10.5 | 320 | |
| | 0826 | 29.4 | 896 | | | 0838 | 26.8 | 817 | | | 0925 | 27.1 | 826 | | | 0903 | 24.5 | 747 | | | 1052 | 21.4 | 652 | | | 0958 | 20.9 | 637 | |
| | 1436 | 2.1 | 64 | | | 1447 | 4.5 | 137 | | | 1537 | 2.7 | 82 | | | 1510 | 5.6 | 171 | | | 1706 | 7.8 | 238 | | | 1612 | 8.1 | 247 | |
| | 2051 | 26.8 | 817 | | | 2104 | 25.0 | 762 | | | 2206 | 26.5 | 808 | | | 2134 | 24.2 | 738 | | | | | | | | 2256 | 22.0 | 671 | |
| 7 Th | 0247 | 1.9 | 58 | | 22 F | 0258 | 5.7 | 174 | | 7 Su | 0410 | 6.8 | 207 | | 22 M | 0338 | 9.1 | 277 | | 7 W | 0005 | 22.8 | 695 | | 22 Th | 0527 | 11.9 | 363 | |
| | 0907 | 28.7 | 875 | | | 0910 | 25.7 | 783 | | | 1013 | 24.7 | 753 | | | 0940 | 22.7 | 692 | | | 0631 | 11.8 | 360 | | | 1137 | 19.6 | 597 | |
| | 1519 | 2.4 | 73 | | | 1519 | 5.2 | 158 | | | 1629 | 4.8 | 146 | | | 1550 | 7.1 | 216 | | | 1225 | 20.0 | 610 | | | 1744 | 9.2 | 280 | |
| | 2138 | 26.4 | 805 | | | 2141 | 24.3 | 741 | | | 2308 | 24.8 | 756 | | | 2224 | 22.6 | 689 | | | 1840 | 9.1 | 277 | | | | | | |
| 8 F | 0336 | 3.7 | 113 | | 23 Sa | 0336 | 7.4 | 226 | | 8 M | 0519 | 9.5 | 290 | | 23 Tu | 0434 | 11.2 | 341 | | 8 Th | 0151 | 22.8 | 695 | | 23 F | 0044 | 21.9 | 668 | |
| | 0951 | 27.2 | 829 | | | 0945 | 24.3 | 741 | | | 1118 | 22.4 | 683 | | | 1039 | 20.8 | 634 | | | 0813 | 10.8 | 329 | | | 0717 | 11.1 | 338 | |
| | 1607 | 3.3 | 101 | | | 1556 | 6.3 | 192 | | | 1739 | 6.8 | 207 | | | 1652 | 8.8 | 268 | | | 1406 | 20.6 | 628 | | | 1320 | 20.3 | 619 | |
| | 2233 | 25.6 | 780 | | | 2226 | 23.2 | 707 | | | | | | | 2347 | 21.4 | 652 | | | 2012 | 8.2 | 250 | | | 1924 | 8.2 | 250 | | |
| 9 Sa | 0434 | 6.1 | 186 | | 24 Su | 0423 | 9.5 | 290 | | 9 Tu | 0032 | 23.6 | 719 | | 24 W | 0615 | 12.5 | 381 | | 9 F | 0311 | 24.5 | 747 | | 24 Sa | 0210 | 23.7 | 722 | |
| | 1045 | 25.3 | 771 | | | 1031 | 22.5 | 686 | | | 0653 | 10.9 | 332 | | | 1216 | 19.6 | 597 | | | 0919 | 8.4 | 256 | | | 0833 | 8.5 | 259 | |
| | 1704 | 4.6 | 140 | | | 1644 | 7.7 | 235 | | | 1246 | 20.9 | 637 | | | 1829 | 9.5 | 290 | | | 1518 | 22.7 | 692 | | | 1435 | 22.8 | 695 | |
| | 2339 | 24.7 | 753 | | | 2326 | 22.1 | 674 | | | 1906 | 7.6 | 232 | | | | | | | | 2116 | 6.2 | 189 | | | 2037 | 5.7 | 174 | |
| 10 Su | 0547 | 8.3 | 253 | | 25 M | 0534 | 11.3 | 344 | | 10 W | 0210 | 23.9 | 728 | | 25 Th | 0130 | 21.9 | 668 | | 10 Sa | 0359 | 26.3 | 802 | | 25 Su | 0308 | 26.3 | 802 | |
| | 1152 | 23.4 | 713 | | | 1138 | 20.9 | 637 | | | 0827 | 10.2 | 311 | | | 0801 | 11.5 | 351 | | | 1003 | 6.1 | 186 | | | 0924 | 5.3 | 162 | |
| | 1816 | 5.7 | 174 | | | 1755 | 8.8 | 268 | | | 1419 | 21.3 | 649 | | | 1352 | 20.4 | 622 | | | 1606 | 24.9 | 759 | | | 1529 | 25.7 | 783 | |
| | | | | | | | | | | | 2029 | 6.8 | 207 | | | 2001 | 8.2 | 250 | | | 2203 | 4.3 | 131 | | | 2132 | 3.0 | 91 | |
| 11 M | 0100 | 24.4 | 744 | | 26 Tu | 0048 | 21.7 | 661 | | 11 Th | 0328 | 25.6 | 780 | | 26 F | 0248 | 23.9 | 728 | | 11 Su | 0433 | 27.6 | 841 | | 26 M | 0353 | 28.5 | 869 | |
| | 0715 | 9.2 | 280 | | | 0712 | 11.9 | 363 | | | 0935 | 8.2 | 250 | | | 0908 | 9.1 | 277 | | | 1039 | 4.2 | 128 | | | 1006 | 2.5 | 76 | |
| | 1312 | 22.3 | 680 | | | 1303 | 20.2 | 616 | | | 1530 | 22.9 | 698 | | | 1501 | 22.5 | 686 | | | 1644 | 26.5 | 808 | | | 1615 | 28.3 | 863 | |
| | 1934 | 5.7 | 174 | | | 1922 | 8.7 | 265 | | | 2132 | 5.1 | 155 | | | 2105 | 5.7 | 174 | | | 2242 | 3.0 | 91 | | | 2219 | 0.8 | 24 | |
| 12 Tu | 0224 | 25.3 | 771 | | 27 W | 0212 | 22.6 | 689 | | 12 F | 0420 | 27.2 | 829 | | 27 Sa | 0341 | 26.4 | 805 | | 12 M | 0503 | 28.3 | 863 | | 27 Tu | 0434 | 30.1 | 917 | |
| | 0837 | 8.6 | 262 | | | 0836 | 10.8 | 329 | | | 1023 | 6.2 | 189 | | | 0955 | 6.3 | 192 | | | 1111 | 2.9 | 88 | | | 1046 | 0.3 | 9 | |
| | 1431 | 22.6 | 689 | | | 1422 | 21.0 | 640 | | | 1622 | 24.5 | 747 | | | 1553 | 24.9 | 759 | | | 1718 | 27.6 | 841 | | | 1658 | 30.3 | 924 | |
| | 2044 | 4.9 | 149 | | | 2035 | 7.4 | 226 | | | 2220 | 3.6 | 110 | | | 2155 | 3.1 | 94 | | | 2318 | 2.4 | 73 | | | | | | |

Inch'on, Korea, 2011

Times and Heights of High and Low Waters

| October | | | | November | | | | December | | | | | | | | | | | | | | | |
|-----------------|------|------|--------|-----------------|--------|------|------|-----------------|------|--------|-----|-----------------|--------|------|-----|-----------------|------|------|-----|-----------------|------|------|-----|
| | Time | | Height | Time | Height | | Time | Height | Time | Height | | Time | Height | | | | | | | | | | |
| | h | m | | | ft | cm | | | | h | m | | ft | cm | h | m | ft | cm | | | | | |
| 1 Sa | 0113 | 1.4 | 43 | 16 Su | 0108 | 4.9 | 149 | 1 Tu | 0228 | 5.6 | 171 | 16 W | 0202 | 5.5 | 168 | 1 Th | 0255 | 5.6 | 171 | 16 F | 0228 | 3.2 | 98 |
| | 0716 | 28.4 | 866 | | 0704 | 25.2 | 768 | | 0829 | 23.9 | 728 | | 0759 | 23.2 | 707 | | 0902 | 22.6 | 689 | | 0835 | 24.0 | 732 |
| | 1323 | -0.4 | -12 | | 1309 | 3.0 | 91 | | 1428 | 3.2 | 98 | | 1402 | 2.9 | 88 | | 1454 | 4.2 | 128 | | 1434 | 1.5 | 46 |
| | 1950 | 30.1 | 917 | | 1927 | 26.8 | 817 | | 2105 | 26.1 | 796 | | 2024 | 25.9 | 789 | | 2126 | 24.7 | 753 | | 2055 | 26.6 | 811 |
| 2 Su | 0156 | 3.3 | 101 | 17 M | 0140 | 5.8 | 177 | 2 W | 0314 | 7.3 | 223 | 17 Th | 0241 | 5.9 | 180 | 2 F | 0338 | 6.5 | 198 | 17 Sa | 0310 | 3.3 | 101 |
| | 0758 | 26.8 | 817 | | 0734 | 24.4 | 744 | | 0917 | 22.4 | 683 | | 0841 | 22.7 | 692 | | 0948 | 21.7 | 661 | | 0921 | 23.7 | 722 |
| | 1403 | 1.2 | 37 | | 1340 | 3.6 | 110 | | 1514 | 5.3 | 162 | | 1444 | 3.6 | 110 | | 1540 | 6.0 | 183 | | 1521 | 2.7 | 82 |
| | 2034 | 28.5 | 869 | | 1958 | 26.1 | 796 | | 2154 | 24.2 | 738 | | 2108 | 25.3 | 771 | | 2208 | 23.3 | 710 | | 2141 | 25.7 | 783 |
| 3 M | 0241 | 5.6 | 171 | 18 Tu | 0213 | 6.7 | 204 | 3 Th | 0408 | 8.9 | 271 | 18 F | 0327 | 6.4 | 195 | 3 Sa | 0427 | 7.4 | 226 | 18 Su | 0358 | 3.7 | 113 |
| | 0841 | 24.9 | 759 | | 0807 | 23.5 | 716 | | 1014 | 20.9 | 637 | | 0933 | 22.1 | 674 | | 1042 | 20.8 | 634 | | 1016 | 23.2 | 707 |
| | 1446 | 3.3 | 101 | | 1415 | 4.3 | 131 | | 1609 | 7.4 | 226 | | 1535 | 4.7 | 143 | | 1636 | 7.8 | 238 | | 1617 | 4.4 | 134 |
| | 2121 | 26.4 | 805 | | 2032 | 25.3 | 771 | | 2252 | 22.6 | 689 | | 2204 | 24.4 | 744 | | 2300 | 21.9 | 668 | | 2236 | 24.3 | 741 |
| 4 Tu | 0331 | 8.0 | 244 | 19 W | 0251 | 7.7 | 235 | 4 F | 0517 | 9.8 | 299 | 19 Sa | 0426 | 6.9 | 210 | 4 Su | 0528 | 8.0 | 244 | 19 M | 0458 | 4.4 | 134 |
| | 0930 | 22.8 | 695 | | 0846 | 22.4 | 683 | | 1125 | 19.9 | 607 | | 1042 | 21.5 | 655 | | 1149 | 20.3 | 619 | | 1125 | 22.8 | 695 |
| | 1534 | 5.7 | 174 | | 1456 | 5.3 | 162 | | 1723 | 9.1 | 277 | | 1642 | 6.1 | 186 | | 1750 | 9.2 | 280 | | 1731 | 6.2 | 189 |
| | 2217 | 24.2 | 738 | | 2118 | 24.2 | 738 | | 2500 | 21.5 | 655 | | 2314 | 23.5 | 716 | | 2300 | 21.9 | 668 | | 2345 | 23.0 | 701 |
| 5 W | 0433 | 10.3 | 314 | 20 Th | 0340 | 8.9 | 271 | 5 Sa | 0604 | 21.5 | 655 | 20 Su | 0541 | 6.9 | 210 | 5 M | 0606 | 20.9 | 637 | 20 Tu | 0610 | 4.7 | 143 |
| | 1033 | 20.8 | 634 | | 0941 | 21.2 | 646 | | 0640 | 9.7 | 296 | | 1204 | 21.6 | 658 | | 0641 | 7.9 | 241 | | 1246 | 23.0 | 701 |
| | 1637 | 8.2 | 250 | | 1550 | 6.7 | 204 | | 1249 | 20.1 | 613 | | 1807 | 6.8 | 207 | | 1305 | 20.7 | 631 | | 1857 | 6.9 | 210 |
| | 2332 | 22.4 | 683 | | 2226 | 23.0 | 701 | | 1853 | 9.4 | 287 | | 2004 | 21.5 | 655 | | 1915 | 9.3 | 283 | | 2019 | 6.2 | 189 |
| 6 Th | 0601 | 11.4 | 347 | 21 F | 0454 | 9.9 | 302 | 6 Su | 0121 | 21.6 | 658 | 21 M | 0033 | 23.3 | 710 | 6 Tu | 0118 | 20.8 | 634 | 21 W | 0105 | 22.4 | 683 |
| | 1201 | 19.6 | 597 | | 1107 | 20.2 | 616 | | 0753 | 8.2 | 250 | | 0659 | 5.9 | 180 | | 0750 | 6.9 | 210 | | 0727 | 4.1 | 125 |
| | 1807 | 9.6 | 293 | | 1710 | 7.9 | 241 | | 1406 | 21.6 | 658 | | 1325 | 23.1 | 704 | | 1417 | 22.0 | 671 | | 1407 | 24.3 | 741 |
| | | | | | 2357 | 22.6 | 689 | | 2010 | 8.3 | 253 | | 1932 | 6.1 | 186 | | 2029 | 8.3 | 253 | | 2019 | 6.2 | 189 |
| 7 F | 0108 | 21.9 | 668 | 22 Sa | 0628 | 9.4 | 287 | 7 M | 0225 | 22.7 | 692 | 22 Tu | 0147 | 24.1 | 735 | 7 W | 0224 | 21.5 | 655 | 22 Th | 0220 | 22.8 | 695 |
| | 0739 | 10.6 | 323 | | 1244 | 20.8 | 634 | | 0848 | 6.2 | 189 | | 0807 | 3.9 | 119 | | 0846 | 5.5 | 168 | | 0836 | 2.7 | 82 |
| | 1337 | 20.3 | 619 | | 1846 | 7.6 | 232 | | 1503 | 23.7 | 722 | | 1434 | 25.5 | 777 | | 1514 | 23.8 | 725 | | 1515 | 26.3 | 802 |
| | 1942 | 9.0 | 274 | | | | | | 2108 | 6.6 | 201 | | 2042 | 4.5 | 137 | | 2125 | 6.8 | 207 | | 2126 | 4.7 | 143 |
| 8 Sa | 0229 | 23.1 | 704 | 23 Su | 0123 | 23.6 | 719 | 8 Tu | 0313 | 24.0 | 732 | 23 W | 0249 | 25.3 | 771 | 8 Th | 0317 | 22.5 | 686 | 23 F | 0324 | 23.8 | 725 |
| | 0846 | 8.3 | 253 | | 0748 | 7.3 | 223 | | 0930 | 4.3 | 131 | | 0904 | 1.7 | 52 | | 0933 | 4.1 | 125 | | 0934 | 1.2 | 37 |
| | 1451 | 22.4 | 683 | | 1402 | 23.0 | 701 | | 1548 | 25.7 | 783 | | 1531 | 27.9 | 850 | | 1600 | 25.3 | 771 | | 1613 | 27.9 | 850 |
| | 2050 | 7.2 | 219 | | 2006 | 5.7 | 174 | | 2153 | 5.1 | 155 | | 2140 | 2.8 | 85 | | 2211 | 5.6 | 171 | | 2222 | 3.4 | 104 |
| 9 Su | 0320 | 24.7 | 753 | 24 M | 0229 | 25.5 | 777 | 9 W | 0353 | 25.0 | 762 | 24 Th | 0342 | 26.4 | 805 | 9 F | 0402 | 23.3 | 710 | 24 Sa | 0419 | 24.6 | 750 |
| | 0931 | 5.9 | 180 | | 0847 | 4.4 | 134 | | 1006 | 2.9 | 88 | | 0953 | -0.1 | -3 | | 1013 | 3.0 | 91 | | 1025 | 0.0 | 0 |
| | 1540 | 24.7 | 753 | | 1503 | 26.0 | 792 | | 1625 | 27.0 | 823 | | 1622 | 29.7 | 905 | | 1640 | 26.2 | 799 | | 1703 | 28.9 | 881 |
| | 2139 | 5.3 | 162 | | 2107 | 3.4 | 104 | | 2232 | 4.1 | 125 | | 2231 | 1.8 | 55 | | 2251 | 4.8 | 146 | | 2310 | 2.6 | 79 |
| 10 M | 0357 | 26.2 | 799 | 25 Tu | 0321 | 27.4 | 835 | 10 Th | 0429 | 25.6 | 780 | 25 F | 0430 | 26.9 | 820 | 10 Sa | 0443 | 23.8 | 725 | 25 Su | 0508 | 25.1 | 765 |
| | 1007 | 3.9 | 119 | | 0935 | 1.6 | 49 | | 1040 | 2.1 | 64 | | 1039 | -1.1 | -34 | | 1050 | 2.3 | 70 | | 1111 | -0.5 | -15 |
| | 1618 | 26.6 | 811 | | 1552 | 28.7 | 875 | | 1700 | 27.7 | 844 | | 1709 | 30.5 | 930 | | 1717 | 26.7 | 814 | | 1749 | 29.1 | 887 |
| | 2219 | 3.8 | 116 | | 2159 | 1.4 | 43 | | 2309 | 3.8 | 116 | | 2318 | 1.5 | 46 | | 2328 | 4.4 | 134 | | 2355 | 2.4 | 73 |
| 11 Tu | 0429 | 27.1 | 826 | 26 W | 0407 | 28.8 | 878 | 11 F | 0504 | 25.6 | 780 | 26 Sa | 0516 | 26.8 | 817 | 11 Su | 0521 | 23.9 | 728 | 26 M | 0554 | 25.1 | 765 |
| | 1040 | 2.5 | 76 | | 1018 | -0.4 | -12 | | 1113 | 1.9 | 58 | | 1123 | -1.3 | -40 | | 1125 | 1.9 | 58 | | 1154 | -0.5 | -15 |
| | 1652 | 27.9 | 850 | | 1638 | 30.6 | 933 | | 1734 | 27.8 | 847 | | 1755 | 30.4 | 927 | | 1753 | 26.8 | 817 | | 1832 | 28.7 | 875 |
| | 2255 | 3.0 | 91 | | 2245 | 0.3 | 9 | | 2344 | 3.9 | 119 | | 2344 | 3.9 | 119 | | | | | | | | |
| 12 W | 0500 | 27.4 | 835 | 27 Th | 0449 | 29.2 | 890 | 12 Sa | 0538 | 25.2 | 768 | 27 Su | 0004 | 1.9 | 58 | 12 M | 0004 | 4.2 | 128 | 27 Tu | 0037 | 2.5 | 76 |
| | 1110 | 1.9 | 58 | | 1100 | -1.6 | -49 | | 1145 | 2.0 | 61 | | 0602 | 26.2 | 799 | | 0559 | 23.8 | 725 | | 0639 | 24.8 | 756 |
| | 1724 | 28.4 | 866 | | 1721 | 31.6 | 963 | | 1807 | 27.4 | 835 | | 1206 | -0.9 | -27 | | 1201 | 1.6 | 49 | | 1236 | 0.0 | 0 |
| | 2330 | 2.9 | 88 | | 2331 | 0.2 | 6 | | | | | | 1841 | 29.7 | 905 | | 1828 | 26.8 | 817 | | 1912 | 28.1 | 856 |
| 13 Th | 0530 | 27.3 | 832 | 28 F | 0532 | 28.9 | 881 | 13 Su | 0019 | 4.4 | 134 | 28 M | 0048 | 2.7 | 82 | 13 Tu | 0039 | 4.1 | 125 | 28 W | 0116 | 2.8 | 85 |
| | 1140 | 1.8 | 55 | | 1141 | -1.8 | -55 | | 0612 | 24.6 | 750 | | 0648 | 25.3 | 771 | | 0637 | 23.8 | 725 | | 0722 | 24.5 | 747 |
| | 1756 | 28.4 | 866 | | 1806 | 31.5 | 960 | | 1217 | 2.2 | 67 | | 1249 | 0.0 | 0 | | 1237 | 1.3 | 40 | | 1316 | 0.7 | 21 |
| | | | | | | | | | 1840 | 27.0 | 823 | | 1925 | 28.6 | 872 | | 1904 | 26.9 | 820 | | 1949 | 27.3 | 832 |
| 14 F | 0004 | 3.3 | 101 | 29 Sa | 0015 | 1.0 | 30 | 14 M | 0053 | 4.8 | 146 | 29 Tu | 0131 | 3.7 | 113 | 14 W | 0114 | 3.8 | 116 | 29 Th | 0153 | 3.1 | 94 |
| | 0602 | 26.7 | 814 | | 0614 | 28.0 | 853 | | 0647 | 24.1 | 735 | | 0733 | 24.4 | 744 | | 0715 | 23.8 | 725 | | 0802 | 24.1 | 735 |
| | 1210 | 2.1 | 64 | | 1222 | -1.2 | -37 | | 1250 | 2.4 | 73 | | 1330 | 1.2 | 37 | | 1314 | 1.0 | 30 | | 1354 | 1.7 | 52 |
| | 1828 | 28.0 | 853 | | 1850 | 30.7 | 936 | | 1913 | 26.6 | 811 | | 2007 | 27.4 | 835 | | 1939 | 27.0 | 823 | | 2022 | 26.4 | 805 |
| 15 Sa | 0036 | 4.0 | 122 | 30 Su | 0059 | 2.3 | 70 | 15 Tu | 0127 | 5.2 | 158 | 30 W | 0213 | 4.7 | 143 | 15 Th | 0150 | 3.5 | 107 | 30 F | 0229 | 3.5 | 107 |
| | 0633 | 26.0 | 792 | | 0658 | 26.7 | 814 | | 0722 | 23.6 | 719 | | 0818 | 23.6 | 719 | | 0754 | 23.9 | 728 | | 0839 | 23.7 | 722 |
| | 1239 | 2.5 | 76 | | 1303 | -0.1 | -3 | | 1325 | 2.6 | 79 | | 1412 | 2.6 | 79 | | 1352 | 1.0 | 30 | | | | |

Namp'O-Hang, Korea, 2011

Times and Heights of High and Low Waters

| January | | | | February | | | | March | | | | | | | | | | | | | | | | | | | | | |
|-----------------|--------|------|------|----------|-----------------|--------|--------|-------|------|-----------------|--------|------|--------|----|-----------------|--------|------|-----|--|-----------------|--------|------|-----|--|-----------------|--------|------|-----|--|
| Time | Height | | Time | Height | | Time | Height | | Time | Height | | Time | Height | | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | | | | | | |
| 1 Sa | 0021 | 4.6 | 140 | | 16 Su | 0005 | 5.3 | 162 | | 1 Tu | 0215 | 3.9 | 119 | | 16 W | 0134 | 3.9 | 119 | | 1 Tu | 0058 | 5.2 | 158 | | 16 W | 0553 | 12.5 | 381 | |
| | 0622 | 12.4 | 378 | | | 0548 | 11.8 | 360 | | | 0830 | 13.0 | 396 | | | 0743 | 13.0 | 396 | | | 0720 | 12.3 | 375 | | | 1201 | 4.0 | 122 | |
| | 1220 | 2.7 | 82 | | | 1203 | 3.5 | 107 | | | 1400 | 2.7 | 82 | | | 1327 | 2.6 | 79 | | | 1250 | 4.2 | 128 | | | 1841 | 16.1 | 491 | |
| | 1920 | 16.6 | 506 | | | 1854 | 15.4 | 469 | | | 2056 | 17.6 | 536 | | | 2016 | 17.4 | 530 | | | 1951 | 16.2 | 494 | | | | | | |
| 2 Su | 0128 | 4.0 | 122 | | 17 M | 0108 | 4.6 | 140 | | 2 W | 0301 | 3.2 | 98 | | 17 Th | 0224 | 2.8 | 85 | | 2 W | 0153 | 4.3 | 131 | | 17 Th | 0101 | 3.9 | 119 | |
| | 0738 | 12.7 | 387 | | | 0709 | 12.1 | 369 | | | 0914 | 13.8 | 421 | | | 0836 | 14.2 | 433 | | | 0815 | 13.5 | 411 | | | 0714 | 13.8 | 421 | |
| | 1318 | 2.3 | 70 | | | 1259 | 3.0 | 91 | | | 1446 | 2.2 | 67 | | | 1419 | 1.7 | 52 | | | 1346 | 3.5 | 107 | | | 1305 | 3.0 | 91 | |
| | 2018 | 17.5 | 533 | | | 1953 | 16.5 | 503 | | | 2135 | 18.0 | 549 | | | 2101 | 18.4 | 561 | | | 2037 | 16.9 | 515 | | | 1945 | 17.2 | 524 | |
| 3 M | 0225 | 3.3 | 101 | | 18 Tu | 0202 | 3.7 | 113 | | 3 Th | 0338 | 2.6 | 79 | | 18 F | 0307 | 1.8 | 55 | | 3 Th | 0236 | 3.5 | 107 | | 18 F | 0152 | 2.7 | 82 | |
| | 0836 | 13.2 | 402 | | | 0808 | 12.7 | 387 | | | 0951 | 14.5 | 442 | | | 0920 | 15.4 | 469 | | | 0856 | 14.5 | 442 | | | 0811 | 15.3 | 466 | |
| | 1410 | 1.9 | 58 | | | 1349 | 2.3 | 70 | | | 1526 | 1.9 | 58 | | | 1506 | 0.8 | 24 | | | 1431 | 2.8 | 85 | | | 1400 | 1.9 | 58 | |
| | 2106 | 18.2 | 555 | | | 2040 | 17.5 | 533 | | | ● 2209 | 18.2 | 555 | | | ○ 2142 | 19.1 | 582 | | | 2114 | 17.4 | 530 | | | 2035 | 18.1 | 552 | |
| 4 Tu | 0313 | 2.7 | 82 | | 19 W | 0249 | 2.9 | 88 | | 4 F | 0411 | 2.3 | 70 | | 19 Sa | 0347 | 1.0 | 30 | | 4 F | 0311 | 2.9 | 88 | | 19 Sa | 0237 | 1.6 | 49 | |
| | 0923 | 13.7 | 418 | | | 0855 | 13.5 | 411 | | | 1023 | 15.0 | 457 | | | 1000 | 16.5 | 503 | | | 0931 | 15.4 | 469 | | | 0858 | 16.9 | 515 | |
| | 1456 | 1.7 | 52 | | | 1435 | 1.6 | 49 | | | 1602 | 1.7 | 52 | | | 1550 | 0.3 | 9 | | | 1510 | 2.3 | 70 | | | 1450 | 1.0 | 30 | |
| | ● 2147 | 18.6 | 567 | | | 2121 | 18.4 | 561 | | | 2238 | 18.0 | 549 | | | 2220 | 19.2 | 585 | | | 2146 | 17.6 | 536 | | | 2119 | 18.5 | 564 | |
| 5 W | 0355 | 2.4 | 73 | | 20 Th | 0330 | 2.1 | 64 | | 5 Sa | 0440 | 2.0 | 61 | | 20 Su | 0425 | 0.5 | 15 | | 5 Sa | 0341 | 2.4 | 73 | | 20 Su | 0318 | 0.8 | 24 | |
| | 1003 | 14.0 | 427 | | | 0936 | 14.2 | 433 | | | 1051 | 15.3 | 466 | | | 1039 | 17.4 | 530 | | | 1001 | 16.0 | 488 | | | 0940 | 18.1 | 552 | |
| | 1538 | 1.6 | 49 | | | 1519 | 1.0 | 30 | | | 1635 | 1.7 | 52 | | | 1633 | 0.3 | 9 | | | 1544 | 2.0 | 61 | | | 1537 | 0.5 | 15 | |
| | 2224 | 18.6 | 567 | | | ○ 2159 | 19.0 | 579 | | | 2304 | 17.8 | 543 | | | 2257 | 18.9 | 576 | | | ● 2214 | 17.5 | 533 | | | ○ 2159 | 18.6 | 567 | |
| 6 Th | 0432 | 2.2 | 67 | | 21 F | 0409 | 1.5 | 46 | | 6 Su | 0508 | 1.9 | 58 | | 21 M | 0502 | 0.3 | 9 | | 6 Su | 0408 | 2.1 | 64 | | 21 M | 0357 | 0.3 | 9 | |
| | 1038 | 14.2 | 433 | | | 1015 | 15.0 | 457 | | | 1118 | 15.7 | 479 | | | 1118 | 17.9 | 546 | | | 1027 | 16.5 | 503 | | | 1021 | 19.0 | 579 | |
| | 1616 | 1.6 | 49 | | | 1601 | 0.6 | 18 | | | 1707 | 1.8 | 55 | | | 1717 | 0.6 | 18 | | | 1616 | 1.9 | 58 | | | 1621 | 0.4 | 12 | |
| | 2257 | 18.4 | 561 | | | 2236 | 19.3 | 588 | | | 2329 | 17.4 | 530 | | | 2333 | 18.2 | 555 | | | 2239 | 17.2 | 524 | | | 2238 | 18.2 | 555 | |
| 7 F | 0506 | 2.2 | 67 | | 22 Sa | 0447 | 1.0 | 30 | | 7 M | 0535 | 1.8 | 55 | | 22 Tu | 0540 | 0.4 | 12 | | 7 M | 0434 | 1.9 | 58 | | 22 Tu | 0435 | 0.3 | 9 | |
| | 1111 | 14.4 | 439 | | | 1053 | 15.6 | 475 | | | 1145 | 15.9 | 485 | | | 1158 | 18.0 | 549 | | | 1052 | 16.8 | 512 | | | 1100 | 19.4 | 591 | |
| | 1652 | 1.8 | 55 | | | 1643 | 0.5 | 15 | | | 1741 | 2.1 | 64 | | | 1803 | 1.4 | 43 | | | 1646 | 2.0 | 61 | | | 1706 | 0.9 | 27 | |
| | 2327 | 18.0 | 549 | | | 2312 | 19.1 | 582 | | | 2356 | 16.9 | 515 | | | | | | | | 2302 | 16.9 | 515 | | | 2316 | 17.4 | 530 | |
| 8 Sa | 0538 | 2.2 | 67 | | 23 Su | 0525 | 0.8 | 24 | | 8 Tu | 0605 | 1.9 | 58 | | 23 W | 0011 | 17.1 | 521 | | 8 Tu | 0500 | 1.8 | 55 | | 23 W | 0514 | 0.6 | 18 | |
| | 1142 | 14.5 | 442 | | | 1132 | 16.1 | 491 | | | 1215 | 16.1 | 491 | | | 0620 | 1.0 | 30 | | | 1117 | 17.1 | 521 | | | 1141 | 19.3 | 588 | |
| | 1728 | 2.1 | 64 | | | 1727 | 0.8 | 24 | | | 1817 | 2.6 | 79 | | | 1241 | 17.7 | 539 | | | 1717 | 2.2 | 67 | | | 1751 | 1.7 | 52 | |
| | 2356 | 17.5 | 533 | | | 2350 | 18.6 | 567 | | | | | | | | 1852 | 2.6 | 79 | | | 2326 | 16.5 | 503 | | | 2354 | 16.3 | 497 | |
| 9 Su | 0610 | 2.3 | 70 | | 24 M | 0605 | 0.8 | 24 | | 9 W | 0024 | 16.3 | 497 | | 24 Th | 0051 | 15.7 | 479 | | 9 W | 0527 | 1.9 | 58 | | 24 Th | 0554 | 1.3 | 40 | |
| | 1214 | 14.6 | 445 | | | 1214 | 16.4 | 500 | | | 0638 | 2.1 | 64 | | | 0703 | 1.8 | 55 | | | 1144 | 17.3 | 527 | | | 1223 | 18.7 | 570 | |
| | 1806 | 2.6 | 79 | | | 1814 | 1.5 | 46 | | | 1249 | 16.0 | 488 | | | 1328 | 17.0 | 518 | | | 1750 | 2.6 | 79 | | | 1839 | 2.9 | 88 | |
| | | | | | | | | | | | 1858 | 3.3 | 101 | | | 1948 | 4.0 | 122 | | | 2353 | 16.1 | 491 | | | | | | |
| 10 M | 0027 | 16.9 | 515 | | 25 Tu | 0029 | 17.6 | 536 | | 10 Th | 0057 | 15.5 | 472 | | 25 F | 0136 | 14.2 | 433 | | 10 Th | 0558 | 2.1 | 64 | | 25 F | 0035 | 15.1 | 460 | |
| | 0645 | 2.4 | 73 | | | 0647 | 1.1 | 34 | | | 0715 | 2.5 | 76 | | | 0755 | 2.9 | 88 | | | 1216 | 17.2 | 524 | | | 0637 | 2.3 | 70 | |
| | 1249 | 14.7 | 448 | | | 1259 | 16.3 | 497 | | | 1329 | 15.8 | 482 | | | 1424 | 16.0 | 488 | | | 1827 | 3.2 | 98 | | | 1309 | 17.7 | 539 | |
| | 1848 | 3.2 | 98 | | | 1905 | 2.6 | 79 | | | 1946 | 4.2 | 128 | | | ○ 2057 | 5.3 | 162 | | | | | | | | 1933 | 4.2 | 128 | |
| 11 Tu | 0100 | 16.1 | 491 | | 26 W | 0111 | 16.3 | 497 | | 11 F | 0136 | 14.5 | 442 | | 26 Sa | 0231 | 12.7 | 387 | | 11 F | 0024 | 15.5 | 472 | | 26 Sa | 0120 | 13.8 | 421 | |
| | 0723 | 2.7 | 82 | | | 0733 | 1.7 | 52 | | | 0801 | 3.2 | 98 | | | 0900 | 4.0 | 122 | | | 0633 | 2.5 | 76 | | | 0728 | 3.5 | 107 | |
| | 1329 | 14.6 | 445 | | | 1350 | 16.0 | 488 | | | 1417 | 15.3 | 466 | | | 1538 | 15.0 | 457 | | | 1253 | 16.9 | 515 | | | 1402 | 16.4 | 500 | |
| | 1936 | 3.9 | 119 | | | ○ 2006 | 3.9 | 119 | | | ○ 2047 | 5.1 | 155 | | | 2221 | 6.0 | 183 | | | 1912 | 3.9 | 119 | | | ○ 2038 | 5.3 | 162 | |
| 12 W | 0138 | 15.2 | 463 | | 27 Th | 0158 | 14.7 | 448 | | 12 Sa | 0223 | 13.4 | 408 | | 27 Su | 0352 | 11.5 | 351 | | 12 Sa | 0102 | 14.7 | 448 | | 27 Su | 0216 | 12.6 | 384 | |
| | 0807 | 3.0 | 91 | | | 0827 | 2.5 | 76 | | | 0858 | 3.8 | 116 | | | 1019 | 4.7 | 143 | | | 0715 | 3.1 | 94 | | | 0833 | 4.7 | 143 | |
| | 1415 | 14.5 | 442 | | | 1450 | 15.4 | 469 | | | 1517 | 14.9 | 454 | | | 1719 | 14.7 | 448 | | | 1338 | 16.4 | 500 | | | 1510 | 15.3 | 466 | |
| | ○ 2033 | 4.7 | 143 | | | 2119 | 5.0 | 152 | | | 2202 | 5.7 | 174 | | | 2346 | 5.9 | 180 | | | 2007 | 4.8 | 146 | | | 2156 | 6.0 | 183 | |
| 13 Th | 0221 | 14.1 | 430 | | 28 F | 0256 | 13.1 | 399 | | 13 Su | 0324 | 12.4 | 378 | | 28 M | 0555 | 11.4 | 347 | | 13 Su | 0148 | 13.7 | 418 | | 28 M | 0336 | 11.8 | 360 | |
| | 0859 | 3.4 | 104 | | | 0932 | 3.3 | 101 | | | 1008 | 4.2 | 128 | | | 1140 | 4.7 | 143 | | | 0810 | 3.9 | 119 | | | 0954 | 5.4 | 165 | |
| | 1511 | 14.3 | 436 | | | 1608 | 15.0 | 457 | | | 1635 | 14.7 | 448 | | | 1849 | 15.3 | 466 | | | 1433 | 15.8 | 482 | | | 1641 | 14.7 | 448 | |
| | 2140 | 5.4 | 165 | | | 2242 | 5.6 | 171 | | | 2322 | 5.7 | 174 | | | | | | | | | | | | | | | | |

Namp'O-Hang, Korea, 2011

Times and Heights of High and Low Waters

| April | | | | | May | | | | | June | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|------|------|--------|----|-----------------|------|------|--------|----|-----------------|------|------|--------|----|-----------------|------|------|--------|----|-----------------|------|------|-----|--|-----------------|------|------|-----|--|---|------|------|-----|--|---|------|------|-----|--|---|------|------|-----|--|
| | Time | | Height | | | Time | | Height | | | Time | | Height | | | Time | | Height | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | h | m | ft | cm | | | | | | | | | | | | | | | | | | | | | |
| 1 F | 0158 | 3.7 | 113 | | 16 Sa | 0116 | 2.5 | 76 | | 1 Su | 0831 | 16.8 | 512 | | 16 M | 0812 | 18.8 | 573 | | 1 W | 0225 | 3.4 | 104 | | 16 Th | 0246 | 2.3 | 70 | | ○ | 0936 | 20.3 | 619 | | ○ | 1547 | 3.2 | 98 | | ○ | 2154 | 15.3 | 466 | |
| | 0829 | 15.3 | 466 | | | 0744 | 16.5 | 503 | | | 1421 | 3.8 | 116 | | | 1417 | 2.7 | 82 | | | 0910 | 18.2 | 555 | | | 1514 | 4.1 | 125 | | | 1547 | 3.2 | 98 | | | | | | | | | | | |
| | 1409 | 3.5 | 107 | | | 1340 | 2.4 | 73 | | | 2044 | 15.5 | 472 | | | 2030 | 16.0 | 488 | | | 2121 | 14.5 | 442 | | | 2154 | 15.3 | 466 | | | 2154 | 15.3 | 466 | | | | | | | | | | | |
| | 2044 | 16.5 | 503 | | | 2005 | 17.2 | 524 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 Sa | 0234 | 3.1 | 94 | | 17 Su | 0204 | 1.6 | 49 | | 2 M | 0226 | 3.1 | 94 | | 17 Tu | 0219 | 1.5 | 46 | | 2 Th | 0300 | 3.2 | 98 | | 17 F | 0332 | 2.3 | 70 | | ● | 1019 | 20.4 | 622 | | ● | 1631 | 3.2 | 98 | | ● | 2237 | 15.3 | 466 | |
| | 0904 | 16.2 | 494 | | | 0834 | 18.1 | 552 | | | 0905 | 17.5 | 533 | | | 0902 | 19.8 | 604 | | | 0943 | 18.6 | 567 | | | 1550 | 3.9 | 119 | | | 1631 | 3.2 | 98 | | | | | | | | | | | |
| | 1448 | 2.9 | 88 | | | 1433 | 1.6 | 49 | | | 1459 | 3.4 | 104 | | | 1508 | 2.2 | 67 | | | 1550 | 3.9 | 119 | | | 1631 | 3.2 | 98 | | | 2237 | 15.3 | 466 | | | | | | | | | | | |
| | 2118 | 16.6 | 506 | | | 2054 | 17.4 | 530 | | | 2116 | 15.4 | 469 | | | 2119 | 16.0 | 488 | | | 2153 | 14.6 | 445 | | | 2237 | 15.3 | 466 | | | | | | | | | | | | | | | | |
| 3 Su | 0305 | 2.7 | 82 | | 18 M | 0248 | 0.9 | 27 | | 3 Tu | 0258 | 2.8 | 85 | | 18 W | 0304 | 1.3 | 40 | | 3 F | 0334 | 3.0 | 91 | | 18 Sa | 0415 | 2.5 | 76 | | ● | 1059 | 20.1 | 613 | | ● | 1713 | 3.3 | 101 | | ● | 2316 | 15.3 | 466 | |
| | 0934 | 16.9 | 515 | | | 0920 | 19.3 | 588 | | | 0935 | 17.9 | 546 | | | 0947 | 20.4 | 622 | | | 1014 | 18.9 | 576 | | | 1059 | 20.1 | 613 | | | | | | | | | | | | | | | | |
| | 1523 | 2.6 | 79 | | | 1522 | 1.2 | 37 | | | 1534 | 3.2 | 98 | | | 1557 | 2.2 | 67 | | | 1625 | 3.7 | 113 | | | 1713 | 3.3 | 101 | | | | | | | | | | | | | | | | |
| | 2146 | 16.5 | 503 | | | 2138 | 17.4 | 530 | | | 2145 | 15.3 | 466 | | | 2205 | 15.8 | 482 | | | 2223 | 14.7 | 448 | | | 2316 | 15.3 | 466 | | | | | | | | | | | | | | | | |
| 4 M | 0333 | 2.4 | 73 | | 19 Tu | 0329 | 0.6 | 18 | | 4 W | 0328 | 2.7 | 82 | | 19 Th | 0348 | 1.5 | 46 | | 4 Sa | 0408 | 2.9 | 88 | | 19 Su | 0457 | 2.9 | 88 | | ● | 1137 | 19.6 | 597 | | ● | 1753 | 3.6 | 110 | | ● | 2354 | 15.2 | 463 | |
| | 1001 | 17.4 | 530 | | | 1002 | 20.0 | 610 | | | 1002 | 18.2 | 555 | | | 1030 | 20.4 | 622 | | | 1045 | 19.1 | 582 | | | 1137 | 19.6 | 597 | | | | | | | | | | | | | | | | |
| | 1555 | 2.5 | 76 | | | 1608 | 1.1 | 34 | | | 1606 | 3.2 | 98 | | | 1643 | 2.4 | 73 | | | 1700 | 3.6 | 110 | | | 1753 | 3.6 | 110 | | | | | | | | | | | | | | | | |
| | 2211 | 16.3 | 497 | | | 2220 | 17.0 | 518 | | | 2211 | 15.1 | 460 | | | 2247 | 15.5 | 472 | | | 2256 | 14.8 | 451 | | | 2354 | 15.2 | 463 | | | | | | | | | | | | | | | | |
| 5 Tu | 0400 | 2.2 | 67 | | 20 W | 0410 | 0.7 | 21 | | 5 Th | 0357 | 2.6 | 79 | | 20 F | 0430 | 1.9 | 58 | | 5 Su | 0444 | 2.9 | 88 | | 20 M | 0539 | 3.5 | 107 | | ● | 1213 | 18.9 | 576 | | ● | 1833 | 3.9 | 119 | | | | | | |
| | 1026 | 17.7 | 539 | | | 1044 | 20.2 | 616 | | | 1029 | 18.4 | 561 | | | 1112 | 20.1 | 613 | | | 1118 | 19.2 | 585 | | | 1213 | 18.9 | 576 | | | | | | | | | | | | | | | | |
| | 1625 | 2.5 | 76 | | | 1654 | 1.5 | 46 | | | 1639 | 3.2 | 98 | | | 1728 | 2.9 | 88 | | | 1738 | 3.5 | 107 | | | 1833 | 3.9 | 119 | | | | | | | | | | | | | | | | |
| | 2235 | 16.0 | 488 | | | 2300 | 16.3 | 497 | | | 2238 | 15.0 | 457 | | | 2329 | 15.1 | 460 | | | 2332 | 15.0 | 457 | | | 2332 | 15.0 | 457 | | | | | | | | | | | | | | | | |
| 6 W | 0426 | 2.1 | 64 | | 21 Th | 0450 | 1.1 | 34 | | 6 F | 0427 | 2.6 | 79 | | 21 Sa | 0513 | 2.5 | 76 | | 6 M | 0524 | 3.0 | 91 | | 21 Tu | 0622 | 4.1 | 125 | | ● | 1250 | 18.1 | 552 | | ● | 1914 | 4.2 | 128 | | | | | | |
| | 1051 | 17.9 | 546 | | | 1125 | 19.9 | 607 | | | 1058 | 18.6 | 567 | | | 1153 | 19.4 | 591 | | | 1156 | 19.2 | 585 | | | 1250 | 18.1 | 552 | | | | | | | | | | | | | | | | |
| | 1656 | 2.6 | 79 | | | 1739 | 2.3 | 70 | | | 1713 | 3.3 | 101 | | | 1813 | 3.5 | 107 | | | 1820 | 3.5 | 107 | | | 1914 | 4.2 | 128 | | | | | | | | | | | | | | | | |
| | 2259 | 15.8 | 482 | | | 2340 | 15.5 | 472 | | | 2307 | 14.9 | 454 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 Th | 0454 | 2.2 | 67 | | 22 F | 0531 | 1.9 | 58 | | 7 Sa | 0500 | 2.7 | 82 | | 22 Su | 0010 | 14.6 | 445 | | 7 Tu | 0014 | 15.1 | 460 | | 22 W | 0114 | 15.1 | 460 | | ● | 0710 | 4.9 | 149 | | ● | 1328 | 17.2 | 524 | | | | | | |
| | 1118 | 18.1 | 552 | | | 1207 | 19.2 | 585 | | | 1130 | 18.6 | 567 | | | 0557 | 3.3 | 101 | | | 0610 | 3.4 | 104 | | | 0710 | 4.9 | 149 | | | | | | | | | | | | | | | | |
| | 1728 | 2.9 | 88 | | | 1826 | 3.2 | 98 | | | 1750 | 3.5 | 107 | | | 1234 | 18.5 | 564 | | | 1237 | 18.8 | 573 | | | 1328 | 17.2 | 524 | | | | | | | | | | | | | | | | |
| | 2326 | 15.5 | 472 | | | | | | | | 2342 | 14.8 | 451 | | | 1859 | 4.1 | 125 | | | 1908 | 3.6 | 110 | | | 1958 | 4.5 | 137 | | | | | | | | | | | | | | | | |
| 8 F | 0525 | 2.3 | 70 | | 23 Sa | 0022 | 14.6 | 445 | | 8 Su | 0538 | 2.9 | 88 | | 23 M | 0054 | 14.2 | 433 | | 8 W | 0103 | 15.2 | 463 | | 23 Th | 0200 | 15.0 | 457 | | ● | 0804 | 5.6 | 171 | | ● | 1411 | 16.3 | 497 | | | | | | |
| | 1149 | 18.0 | 549 | | | 0616 | 2.9 | 88 | | | 1208 | 18.5 | 564 | | | 0646 | 4.2 | 128 | | | 0704 | 4.0 | 122 | | | 0804 | 5.6 | 171 | | | | | | | | | | | | | | | | |
| | 1805 | 3.3 | 101 | | | 1252 | 18.1 | 552 | | | 1833 | 3.8 | 116 | | | 1318 | 17.5 | 533 | | | 1324 | 18.2 | 555 | | | 1411 | 16.3 | 497 | | | | | | | | | | | | | | | | |
| | 2359 | 15.1 | 460 | | | 1918 | 4.2 | 128 | | | | | | | | 1950 | 4.6 | 140 | | | 2001 | 3.7 | 113 | | | 2046 | 4.7 | 143 | | | | | | | | | | | | | | | | |
| 9 Sa | 0600 | 2.7 | 82 | | 24 Su | 0108 | 13.7 | 418 | | 9 M | 0023 | 14.6 | 445 | | 24 Tu | 0143 | 13.8 | 421 | | 9 Th | 0159 | 15.3 | 466 | | 24 F | 0253 | 15.0 | 457 | | ● | 0906 | 6.2 | 189 | | ● | 1500 | 15.3 | 466 | | | | | | |
| | 1226 | 17.8 | 543 | | | 0707 | 4.0 | 122 | | | 0622 | 3.4 | 104 | | | 0742 | 5.1 | 155 | | | 0808 | 4.7 | 143 | | | 0906 | 6.2 | 189 | | | | | | | | | | | | | | | | |
| | 1848 | 3.9 | 119 | | | 1341 | 16.9 | 515 | | | 1252 | 18.1 | 552 | | | 1406 | 16.5 | 503 | | | 1418 | 17.3 | 527 | | | 1500 | 15.3 | 466 | | | | | | | | | | | | | | | | |
| | | | | | | 2018 | 5.1 | 155 | | | 1925 | 4.1 | 125 | | | 2044 | 5.0 | 152 | | | 2100 | 3.7 | 113 | | | 2139 | 4.9 | 149 | | | | | | | | | | | | | | | | |
| 10 Su | 0038 | 14.6 | 445 | | 25 M | 0203 | 13.0 | 396 | | 10 Tu | 0113 | 14.3 | 436 | | 25 W | 0241 | 13.6 | 415 | | 10 F | 0303 | 15.5 | 472 | | 25 Sa | 0354 | 15.1 | 460 | | ● | 1013 | 6.6 | 201 | | ● | 1559 | 14.5 | 442 | | | | | | |
| | 0643 | 3.2 | 98 | | | 0809 | 5.0 | 152 | | | 0717 | 4.0 | 122 | | | 0846 | 5.8 | 177 | | | 0923 | 5.3 | 162 | | | 1013 | 6.6 | 201 | | | | | | | | | | | | | | | | |
| | 1310 | 17.3 | 527 | | | 1440 | 15.8 | 482 | | | 1343 | 17.5 | 533 | | | 1500 | 15.6 | 475 | | | 1519 | 16.3 | 497 | | | 1559 | 14.5 | 442 | | | | | | | | | | | | | | | | |
| | 1942 | 4.5 | 137 | | | 2125 | 5.6 | 171 | | | 2026 | 4.3 | 131 | | | 2142 | 5.1 | 155 | | | 2204 | 3.7 | 113 | | | 2235 | 4.9 | 149 | | | | | | | | | | | | | | | | |
| 11 M | 0126 | 13.9 | 424 | | 26 Tu | 0314 | 12.5 | 381 | | 11 W | 0213 | 14.1 | 430 | | 26 Th | 0348 | 13.7 | 418 | | 11 Sa | 0418 | 15.9 | 485 | | 26 Su | 0504 | 15.4 | 469 | | ● | 1120 | 6.6 | 201 | | ● | 1709 | 13.9 | 424 | | | | | | |
| | 0737 | 4.0 | 122 | | | 0924 | 5.8 | 177 | | | 0827 | 4.7 | 143 | | | 0956 | 6.1 | 186 | | | 1041 | 5.4 | 165 | | | 1120 | 6.6 | 201 | | | | | | | | | | | | | | | | |
| | 1404 | 16.7 | 509 | | | 1552 | 15.0 | 457 | | | 1443 | 16.8 | 512 | | | 1604 | 14.9 | 454 | | | 1632 | 15.3 | 466 | | | 1709 | 13.9 | 424 | | | | | | | | | | | | | | | | |
| | 2050 | 5.0 | 152 | | | 2233 | 5.6 | 171 | | | 2134 | 4.3 | 131 | | | 2239 | 5.0 | 152 | | | 2307 | 3.5 | 107 | | | 2330 | 4.8 | 146 | | | | | | | | | | | | | | | | |
| 12 Tu | 0226 | 13.3 | 405 | | 27 W | 0444 | 12.7 | 387 | | 12 Th | 0325 | 14.1 | 430 | | 27 F | 0503 | 14.2 | 433 | | 12 Su | 0539 | 16.7 | 509 | | 27 M | 0614 | 16.1 | 491 | | ● | 1223 | 6.3 | 192 | | ● | 1822 | 13.6 | 415 | | | | | | |
| | 0850 | 4.7 | 143 | | | 1041 | 5.9 | 180 | | | 0947 | 5.0 | 152 | | | 1105 | 6.1 | 186 | | | 1156 | 5.1 | 155 | | | 1223 | 6.3 | 192 | | | | | | | | | | | | | | | | |
| | 1511 | 16.1 | 491 | | | 1714 | 14.7 | 448 | | | 1553 | 16.2 | 494 | | | 1714 | 14.4 | 439 | | | 1752 | 14.8 | 451 | | | 1822 | 13.6 | 415 | | | | | | | | | | | | | | | | |
| | 2207 | 5.1 | 155 | | | 2335 | 5.2 | 158 | | | 2242 | 4.0 | 122 | | | 2332 | 4.7 | 143 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 W | 0345 | 13.0 | 396 | | 28 Th | 0607 | 13.5 | 411 | | 13 F | 0448 | 14.7 | 448 | | 28 Sa | 0611 | 15.1 | 460 | | 13 M | 0007 | 3.1 | 94 | | 28 Tu | 0023 | 4.6 | 140 | | ● | 0715 | 16.9 | 515 | | ● | 1319 | 5.8 | 177 | | | | | | |
| | 1014 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Namp'O-Hang, Korea, 2011

Times and Heights of High and Low Waters

| July | | | | August | | | | September | | | | | | | | | | | | | | | |
|-----------------|------|--------|-----|-----------------|------|--------|-----|-----------------|------|--------|-----|-----------------|------|--------|-----|-----------------|------|------|-----|-----------------|-----------------|------|-----|
| Time | | Height | | Time | | Height | | Time | | Height | | Time | | Height | | | | | | | | | |
| h | m | ft | cm | h | m | ft | cm | h | m | ft | cm | h | m | ft | cm | | | | | | | | |
| 1 F | 0237 | 3.6 | 110 | 16 Sa | 0320 | 3.0 | 91 | 1 M | 0341 | 2.6 | 79 | 16 Tu | 0421 | 3.3 | 101 | 1 Th | 0452 | 2.1 | 64 | | | | |
| | 0925 | 19.0 | 579 | | 1008 | 20.2 | 616 | | 1016 | 20.3 | 619 | | 1051 | 19.3 | 588 | | 1108 | 19.4 | 591 | 16 F | 0503 | 3.5 | 107 |
| | 1533 | 4.3 | 131 | | 1616 | 3.7 | 113 | | 1625 | 3.0 | 91 | | 1652 | 3.5 | 107 | | 1712 | 1.9 | 58 | | 1710 | 3.2 | 98 |
| | 2137 | 14.7 | 448 | | 2224 | 15.9 | 485 | | 2232 | 17.1 | 521 | | 2305 | 17.4 | 530 | | 2331 | 19.6 | 597 | | 2330 | 18.4 | 561 |
| 2 Sa | 0316 | 3.2 | 98 | 17 Su | 0401 | 3.0 | 91 | 2 Tu | 0422 | 2.4 | 73 | 17 W | 0455 | 3.4 | 104 | 2 F | 0536 | 2.7 | 82 | | 17 Sa | 0536 | 3.9 | 119 |
| | 0959 | 19.4 | 591 | | 1044 | 20.0 | 610 | | 1051 | 20.3 | 619 | | 1118 | 18.8 | 573 | | 1145 | 18.5 | 564 | 1139 | | 16.8 | 512 |
| | 1610 | 3.9 | 119 | | 1652 | 3.6 | 110 | | 1701 | 2.6 | 79 | | 1720 | 3.5 | 107 | | 1751 | 2.3 | 70 | 1741 | | 3.5 | 107 |
| | 2211 | 15.1 | 460 | | 2259 | 16.1 | 491 | | 2309 | 17.7 | 539 | | 2334 | 17.6 | 536 | | | | | | | | |
| 3 Su | 0354 | 2.9 | 88 | 18 M | 0440 | 3.2 | 98 | 3 W | 0504 | 2.5 | 76 | 18 Th | 0529 | 3.8 | 116 | 3 Sa | 0613 | 19.4 | 591 | 18 Su | 0001 | 18.3 | 558 |
| | 1033 | 19.8 | 604 | | 1116 | 19.7 | 600 | | 1126 | 20.0 | 610 | | 1144 | 18.2 | 555 | | 1225 | 17.3 | 527 | | 0613 | 4.5 | 137 |
| | 1646 | 3.5 | 107 | | 1726 | 3.6 | 110 | | 1739 | 2.5 | 76 | | 1750 | 3.6 | 110 | | 1833 | 3.0 | 91 | | 1209 | 16.2 | 494 |
| | 2246 | 15.6 | 475 | | 2332 | 16.3 | 497 | | 2349 | 18.1 | 552 | | | | | | | | | | 1815 | 3.9 | 119 |
| 4 M | 0433 | 2.8 | 85 | 19 Tu | 0518 | 3.5 | 107 | 4 Th | 0548 | 3.0 | 91 | 19 F | 0603 | 17.7 | 539 | 4 Su | 0719 | 4.9 | 149 | 19 M | 0037 | 17.9 | 546 |
| | 1107 | 19.9 | 607 | | 1147 | 19.1 | 582 | | 1204 | 19.3 | 588 | | 1213 | 17.6 | 536 | | 1310 | 15.9 | 485 | | 0656 | 5.2 | 158 |
| | 1723 | 3.2 | 98 | | 1758 | 3.7 | 113 | | 1818 | 2.6 | 79 | | 1822 | 3.8 | 116 | | 1923 | 4.0 | 122 | | 1346 | 15.5 | 472 |
| | 2323 | 16.0 | 488 | | | | | | | | | | | | | | | | | | 1856 | 4.5 | 137 |
| 5 Tu | 0514 | 2.9 | 88 | 20 W | 0005 | 16.4 | 500 | 5 F | 0032 | 18.3 | 558 | 20 Sa | 0036 | 17.6 | 536 | 5 M | 0154 | 17.9 | 546 | 20 Tu | 0120 | 17.3 | 527 |
| | 1143 | 19.8 | 604 | | 0556 | 4.0 | 122 | | 0637 | 3.8 | 116 | | 0644 | 4.9 | 149 | | 0825 | 6.2 | 189 | | 0750 | 6.0 | 183 |
| | 1803 | 3.0 | 91 | | 1218 | 18.5 | 564 | | 1244 | 18.2 | 555 | | 1245 | 16.8 | 512 | | 1403 | 14.4 | 439 | | 1332 | 14.6 | 445 |
| | | | | | 1832 | 3.9 | 119 | | 1902 | 3.1 | 94 | | 1859 | 4.3 | 131 | | 2026 | 5.1 | 155 | | 1950 | 5.3 | 162 |
| 6 W | 0004 | 16.4 | 500 | 21 Th | 0039 | 16.5 | 503 | 6 Sa | 0120 | 18.1 | 552 | 21 Su | 0115 | 17.3 | 527 | 6 Tu | 0302 | 16.9 | 515 | 21 W | 0214 | 16.7 | 509 |
| | 0600 | 3.2 | 98 | | 0637 | 4.6 | 140 | | 0734 | 4.9 | 149 | | 0731 | 5.8 | 177 | | 0946 | 7.0 | 213 | | 0900 | 6.7 | 204 |
| | 1222 | 19.3 | 588 | | 1250 | 17.7 | 539 | | 1330 | 16.8 | 512 | | 1322 | 15.9 | 485 | | 1517 | 13.2 | 402 | | 1430 | 13.7 | 418 |
| | 1845 | 3.0 | 91 | | 1909 | 4.1 | 125 | | 1953 | 3.7 | 113 | | 1943 | 4.9 | 149 | | 2145 | 5.9 | 180 | | 2101 | 5.9 | 180 |
| 7 Th | 0049 | 16.7 | 509 | 22 F | 0117 | 16.4 | 500 | 7 Su | 0215 | 17.6 | 536 | 22 M | 0201 | 16.8 | 512 | 7 W | 0434 | 16.3 | 497 | 22 Th | 0323 | 16.1 | 491 |
| | 0651 | 3.9 | 119 | | 0722 | 5.3 | 162 | | 0841 | 6.1 | 186 | | 0830 | 6.6 | 201 | | 1112 | 7.0 | 213 | | 1020 | 6.7 | 204 |
| | 1305 | 18.5 | 564 | | 1326 | 16.8 | 512 | | 1423 | 15.3 | 466 | | 1408 | 14.8 | 451 | | 1710 | 12.9 | 393 | | 1550 | 13.2 | 402 |
| | 1933 | 3.2 | 98 | | 1951 | 4.5 | 137 | | 2054 | 4.5 | 137 | | 2039 | 5.5 | 168 | | 2309 | 6.0 | 183 | | 2223 | 6.0 | 183 |
| 8 F | 0141 | 16.8 | 512 | 23 Sa | 0201 | 16.3 | 497 | 8 M | 0324 | 17.1 | 521 | 23 Tu | 0259 | 16.3 | 497 | 8 Th | 0611 | 16.7 | 509 | 23 F | 0449 | 16.1 | 491 |
| | 0750 | 4.8 | 146 | | 0816 | 6.1 | 186 | | 1001 | 6.8 | 207 | | 0942 | 7.2 | 219 | | 1227 | 6.4 | 195 | | 1134 | 6.1 | 186 |
| | 1353 | 17.3 | 527 | | 1407 | 15.8 | 482 | | 1532 | 14.0 | 427 | | 1507 | 13.9 | 424 | | 1847 | 13.7 | 418 | | 1728 | 13.5 | 411 |
| | 2026 | 3.6 | 110 | | 2039 | 4.9 | 149 | | 2206 | 5.1 | 155 | | 2148 | 5.9 | 180 | | | | | | 2338 | 5.4 | 165 |
| 9 Sa | 0240 | 16.7 | 509 | 24 Su | 0253 | 16.1 | 491 | 9 Tu | 0452 | 16.8 | 512 | 24 W | 0413 | 16.1 | 491 | 9 F | 0022 | 5.5 | 168 | 24 Sa | 0613 | 16.8 | 512 |
| | 0901 | 5.6 | 171 | | 0920 | 6.8 | 207 | | 1125 | 6.9 | 210 | | 1101 | 7.2 | 219 | | 0721 | 17.4 | 530 | | 1235 | 5.0 | 152 |
| | 1449 | 16.0 | 488 | | 1457 | 14.7 | 448 | | 1711 | 13.2 | 402 | | 1629 | 13.3 | 405 | | 1325 | 5.5 | 168 | | 1848 | 14.7 | 448 |
| | 2127 | 3.9 | 119 | | 2136 | 5.3 | 162 | | 2322 | 5.2 | 158 | | 2302 | 5.9 | 180 | | 1948 | 14.9 | 454 | | | | |
| 10 Su | 0350 | 16.7 | 509 | 25 M | 0356 | 15.9 | 485 | 10 W | 0626 | 17.3 | 527 | 25 Th | 0542 | 16.4 | 500 | 10 Sa | 0122 | 4.7 | 143 | 25 Su | 0042 | 4.4 | 134 |
| | 1019 | 6.2 | 189 | | 1031 | 7.1 | 216 | | 1241 | 6.4 | 195 | | 1212 | 6.7 | 204 | | 0811 | 18.2 | 555 | | 0717 | 17.7 | 539 |
| | 1557 | 14.7 | 448 | | 1600 | 13.8 | 421 | | 1852 | 13.6 | 415 | | 1807 | 13.5 | 411 | | 1411 | 4.6 | 140 | | 1326 | 3.8 | 116 |
| | 2234 | 4.2 | 128 | | 2239 | 5.5 | 168 | | | | | | | | | | 2033 | 16.0 | 488 | | 1945 | 16.2 | 494 |
| 11 M | 0513 | 17.0 | 518 | 26 Tu | 0513 | 16.0 | 488 | 11 Th | 0032 | 4.9 | 149 | 26 F | 0009 | 5.4 | 165 | 11 Su | 0211 | 4.0 | 122 | 26 M | 0136 | 3.3 | 101 |
| | 1138 | 6.2 | 189 | | 1142 | 7.0 | 213 | | 0736 | 18.2 | 555 | | 0658 | 17.3 | 527 | | 0852 | 18.6 | 567 | | 0807 | 18.5 | 564 |
| | 1725 | 13.9 | 424 | | 1721 | 13.3 | 405 | | 1344 | 5.6 | 171 | | 1311 | 5.7 | 174 | | 1448 | 4.0 | 122 | | 1410 | 2.7 | 82 |
| | 2341 | 4.1 | 125 | | 2341 | 5.4 | 165 | | 2000 | 14.5 | 442 | | 1921 | 14.4 | 439 | | 2111 | 16.9 | 515 | | 2032 | 17.7 | 539 |
| 12 Tu | 0636 | 17.7 | 539 | 27 W | 0631 | 16.6 | 506 | 12 F | 0133 | 4.3 | 131 | 27 Sa | 0107 | 4.5 | 137 | 12 M | 0252 | 3.5 | 107 | 27 Tu | 0225 | 2.3 | 70 |
| | 1251 | 5.7 | 174 | | 1247 | 6.5 | 198 | | 0830 | 19.0 | 579 | | 0753 | 18.3 | 558 | | 0927 | 18.7 | 570 | | 0851 | 19.0 | 579 |
| | 1855 | 13.9 | 424 | | 1846 | 13.5 | 411 | | 1435 | 4.8 | 146 | | 1401 | 4.6 | 140 | | 1521 | 3.5 | 107 | | 1451 | 1.9 | 58 |
| | | | | | | | | | 2050 | 15.4 | 469 | | 2014 | 15.5 | 472 | | 2143 | 17.5 | 533 | | 2114 | 19.0 | 579 |
| 13 W | 0044 | 3.9 | 119 | 28 Th | 0039 | 4.9 | 149 | 13 Sa | 0224 | 3.8 | 116 | 28 Su | 0158 | 3.6 | 110 | 13 Tu | 0328 | 3.2 | 98 | 28 W | 0311 | 1.7 | 52 |
| | 0745 | 18.7 | 570 | | 0734 | 17.5 | 533 | | 0913 | 19.6 | 597 | | 0838 | 19.3 | 588 | | 0957 | 18.6 | 567 | | 0932 | 19.1 | 582 |
| | 1354 | 5.1 | 155 | | 1342 | 5.8 | 177 | | 1516 | 4.2 | 128 | | 1443 | 3.6 | 110 | | 1550 | 3.3 | 101 | | 1529 | 1.4 | 43 |
| | 2005 | 14.4 | 439 | | 1950 | 14.1 | 430 | | 2131 | 16.2 | 494 | | 2057 | 16.7 | 509 | | 2211 | 17.9 | 546 | | 2154 | 19.9 | 607 |
| 14 Th | 0142 | 3.5 | 107 | 29 F | 0131 | 4.3 | 131 | 14 Su | 0308 | 3.4 | 104 | 29 M | 0244 | 2.7 | 82 | 14 W | 0401 | 3.2 | 98 | 29 Th | 0355 | 1.4 | 43 |
| | 0840 | 19.5 | 594 | | 0823 | 18.5 | 564 | | 0950 | 19.7 | 600 | | 0918 | 19.9 | 607 | | 1023 | 18.2 | 555 | | 1011 | 18.8 | 573 |
| | 1448 | 4.4 | 134 | | 1430 | 5.0 | 152 | | 1552 | 3.8 | 116 | | 1522 | 2.8 | 85 | | 1617 | 3.1 | 94 | | 1607 | 1.2 | 37 |
| | 2059 | 15.0 | 457 | | 2038 | 14.8 | 451 | | 2206 | 16.8 | 512 | | 2136 | 17.8 | 543 | | 2237 | 18.2 | 555 | | 2233 | 20.4 | 622 |
| 15 F | 0233 | 3.2 | 98 | 30 Sa | 0218 | 3.7 | 113 | 15 M | 0346 | 3.2 | 98 | 30 Tu | 0327 | 2.1 | 64 | 15 Th | 0432 | 3.3 | 101 | 30 F | 0439 | 1.7 | 52 |
| | 0927 | 20.0 | 610 | | 0904 | 19.3 | 588 | | 1022 | 19.6 | 597 | | 0955 | 20.1 | 613 | | 1048 | 17.8 | 543 | | 1049 | 18.1 | 552 |
| | 1535 | 3.9 | 119 | | 1511 | 4.2 | 128 | | 1623 | 3.5 | 107 | | 1559 | 2.2 | 67 | | 1643 | 3.1 | 94 | | 1645 | 1.4 | 43 |
| | 2145 | 15.5 | 472 | | 2119 | 15.6 | 475 | | 2237 | 17.2 | | | | | | | | | | | | | |

Namp'O-Hang, Korea, 2011

Times and Heights of High and Low Waters

| October | | | | November | | | | December | | | | | | | | | | | | | | | | | | | | | |
|-----------------|--------|------|------|----------|-----------------|------|--------|----------|------|-----------------|------|------|--------|----|-----------------|------|------|-----|--|-----------------|------|------|-----|--|-----------------|------|------|-----|--|
| Time | Height | | Time | Height | | Time | Height | | Time | Height | | Time | Height | | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | | | | | | |
| 1 Sa | 0524 | 2.4 | 73 | | 16 Su | 0514 | 3.5 | 107 | | 1 Tu | 0028 | 18.7 | 570 | | 16 W | 0613 | 3.5 | 107 | | 1 Th | 0057 | 17.4 | 530 | | 16 F | 0013 | 17.9 | 546 | |
| | 1128 | 17.1 | 521 | | | 1111 | 15.6 | 475 | | | 0654 | 3.9 | 119 | | | 1203 | 14.2 | 433 | | | 0726 | 3.5 | 107 | | | 0639 | 2.4 | 73 | |
| | 1725 | 2.0 | 61 | | | 1707 | 3.0 | 91 | | | 1246 | 14.0 | 427 | | | 1800 | 3.1 | 94 | | | 1322 | 13.4 | 408 | | | 1236 | 14.4 | 439 | |
| | 2356 | 19.9 | 607 | | | 2333 | 18.3 | 558 | | | 1841 | 3.7 | 113 | | | | | | | | 1918 | 4.0 | 122 | | | 1834 | 2.7 | 82 | |
| 2 Su | 0612 | 3.4 | 104 | | 17 M | 0549 | 3.9 | 119 | | 2 W | 0118 | 17.5 | 533 | | 17 Th | 0030 | 17.7 | 539 | | 2 F | 0144 | 16.2 | 494 | | 17 Sa | 0055 | 17.4 | 530 | |
| | 1209 | 16.0 | 488 | | | 1142 | 15.2 | 463 | | | 0753 | 4.8 | 146 | | | 0700 | 3.7 | 113 | | | 0820 | 4.0 | 122 | | | 0727 | 2.5 | 76 | |
| | 1809 | 2.9 | 88 | | | 1741 | 3.3 | 101 | | | 1341 | 13.2 | 402 | | | 1249 | 13.9 | 424 | | | 1418 | 13.1 | 399 | | | 1326 | 14.5 | 442 | |
| 3 M | 0042 | 19.0 | 579 | | 18 Tu | 0008 | 18.0 | 549 | | 3 Th | 0215 | 16.2 | 494 | | 18 F | 0117 | 17.1 | 521 | | 3 Sa | 0236 | 15.1 | 460 | | 18 Su | 0143 | 16.5 | 503 | |
| | 0706 | 4.6 | 140 | | | 0630 | 4.5 | 137 | | | 0900 | 5.3 | 162 | | | 0756 | 3.9 | 119 | | | 0917 | 4.2 | 128 | | | 0822 | 2.6 | 79 | |
| | 1255 | 14.8 | 451 | | | 1220 | 14.7 | 448 | | | 1450 | 12.7 | 387 | | | 1345 | 13.7 | 418 | | | 1524 | 13.0 | 396 | | | 1424 | 14.6 | 445 | |
| | 1859 | 4.0 | 122 | | | 1822 | 3.9 | 119 | | | 2057 | 5.7 | 174 | | | 1954 | 4.3 | 131 | | | 2132 | 5.5 | 168 | | | 2041 | 4.1 | 125 | |
| 4 Tu | 0135 | 17.8 | 543 | | 19 W | 0050 | 17.5 | 533 | | 4 F | 0325 | 15.2 | 463 | | 19 Sa | 0212 | 16.4 | 500 | | 4 Su | 0337 | 14.1 | 430 | | 19 M | 0239 | 15.4 | 469 | |
| | 0811 | 5.8 | 177 | | | 0721 | 5.0 | 152 | | | 1009 | 5.4 | 165 | | | 0900 | 4.0 | 122 | | | 1016 | 4.2 | 128 | | | 0923 | 2.7 | 82 | |
| | 1351 | 13.6 | 415 | | | 1306 | 14.1 | 430 | | | 1619 | 12.7 | 387 | | | 1451 | 13.7 | 418 | | | 1640 | 13.4 | 408 | | | 1533 | 14.8 | 451 | |
| 5 W | 0240 | 16.5 | 503 | | 20 Th | 0142 | 16.9 | 515 | | 5 Sa | 0446 | 14.7 | 448 | | 20 Su | 0316 | 15.7 | 479 | | 5 M | 0449 | 13.4 | 408 | | 20 Tu | 0345 | 14.3 | 436 | |
| | 0928 | 6.4 | 195 | | | 0825 | 5.5 | 168 | | | 1113 | 5.0 | 152 | | | 1008 | 3.7 | 113 | | | 1112 | 4.0 | 122 | | | 1028 | 2.6 | 79 | |
| | 1509 | 12.7 | 387 | | | 1404 | 13.6 | 415 | | | 1744 | 13.5 | 411 | | | 1610 | 14.1 | 430 | | | 1753 | 14.1 | 430 | | | 1653 | 15.3 | 466 | |
| | 2125 | 6.1 | 186 | | | 2022 | 5.3 | 162 | | | 2330 | 5.6 | 171 | | | 2232 | 4.7 | 143 | | | 2350 | 5.3 | 162 | | | 2319 | 4.4 | 134 | |
| 6 Th | 0407 | 15.7 | 479 | | 21 F | 0244 | 16.3 | 497 | | 6 Su | 0601 | 14.7 | 448 | | 21 M | 0431 | 15.1 | 460 | | 6 Tu | 0602 | 13.2 | 402 | | 21 W | 0505 | 13.5 | 411 | |
| | 1049 | 6.4 | 195 | | | 0940 | 5.5 | 168 | | | 1207 | 4.4 | 134 | | | 1112 | 3.1 | 94 | | | 1204 | 3.7 | 113 | | | 1133 | 2.3 | 70 | |
| | 1657 | 12.7 | 387 | | | 1519 | 13.3 | 405 | | | 1847 | 14.7 | 448 | | | 1731 | 15.2 | 463 | | | 1854 | 15.1 | 460 | | | 1815 | 16.2 | 494 | |
| 7 F | 0540 | 15.7 | 479 | | 22 Sa | 0400 | 15.9 | 485 | | 7 M | 0031 | 5.0 | 152 | | 22 Tu | 0549 | 14.9 | 454 | | 7 W | 0049 | 4.8 | 146 | | 22 Th | 0032 | 3.8 | 116 | |
| | 1158 | 5.8 | 177 | | | 1052 | 5.0 | 152 | | | 0700 | 14.9 | 454 | | | 1210 | 2.3 | 70 | | | 0704 | 13.2 | 402 | | | 0630 | 13.3 | 405 | |
| | 1826 | 13.7 | 418 | | | 1649 | 13.7 | 418 | | | 1253 | 3.7 | 113 | | | 1843 | 16.6 | 506 | | | 1251 | 3.2 | 98 | | | 1234 | 1.9 | 58 | |
| | | | | | | 2306 | 5.1 | 155 | | | 1935 | 15.8 | 482 | | | | | | | | 1943 | 16.0 | 488 | | | 1925 | 17.4 | 530 | |
| 8 Sa | 0003 | 5.6 | 171 | | 23 Su | 0522 | 16.0 | 488 | | 8 Tu | 0123 | 4.3 | 131 | | 23 W | 0051 | 3.2 | 98 | | 8 Th | 0139 | 4.2 | 128 | | 23 F | 0137 | 3.1 | 94 | |
| | 0650 | 16.2 | 494 | | | 1155 | 4.0 | 122 | | | 0748 | 15.1 | 460 | | | 0700 | 15.0 | 457 | | | 0755 | 13.4 | 408 | | | 0743 | 13.5 | 411 | |
| | 1252 | 5.0 | 152 | | | 1811 | 15.0 | 457 | | | 1334 | 3.2 | 98 | | | 1303 | 1.6 | 49 | | | 1334 | 2.9 | 88 | | | 1331 | 1.4 | 43 | |
| 9 Su | 0102 | 4.8 | 146 | | 24 M | 0014 | 4.2 | 128 | | 9 W | 0207 | 3.7 | 113 | | 24 Th | 0150 | 2.4 | 73 | | 9 F | 0224 | 3.7 | 113 | | 24 Sa | 0234 | 2.4 | 73 | |
| | 0742 | 16.7 | 509 | | | 0634 | 16.5 | 503 | | | 0828 | 15.2 | 463 | | | 0800 | 15.2 | 463 | | | 0837 | 13.5 | 411 | | | 0842 | 13.9 | 424 | |
| | 1336 | 4.2 | 128 | | | 1248 | 2.9 | 88 | | | 1410 | 2.8 | 85 | | | 1352 | 1.0 | 30 | | | 1413 | 2.6 | 79 | | | 1423 | 1.0 | 30 | |
| | 2008 | 16.2 | 494 | | | 1914 | 16.6 | 506 | | | 2051 | 17.5 | 533 | | | 2035 | 19.2 | 585 | | | 2102 | 17.3 | 527 | | | 2114 | 19.3 | 588 | |
| 10 M | 0150 | 4.1 | 125 | | 25 Tu | 0114 | 3.1 | 94 | | 10 Th | 0246 | 3.3 | 101 | | 25 F | 0243 | 1.7 | 52 | | 10 Sa | 0303 | 3.3 | 101 | | 25 Su | 0325 | 1.9 | 58 | |
| | 0824 | 17.1 | 521 | | | 0734 | 17.0 | 518 | | | 0902 | 15.1 | 460 | | | 0852 | 15.3 | 466 | | | 0913 | 13.6 | 415 | | | 0933 | 14.3 | 436 | |
| | 1413 | 3.5 | 107 | | | 1336 | 1.9 | 58 | | | 1443 | 2.6 | 79 | | | 1439 | 0.6 | 18 | | | 1449 | 2.3 | 70 | | | 1511 | 0.8 | 24 | |
| 11 Tu | 0231 | 3.6 | 110 | | 26 W | 0207 | 2.1 | 64 | | 11 F | 0321 | 3.1 | 94 | | 26 Sa | 0333 | 1.4 | 43 | | 11 Su | 0339 | 3.0 | 91 | | 26 M | 0411 | 1.6 | 49 | |
| | 0859 | 17.1 | 521 | | | 0824 | 17.3 | 527 | | | 1513 | 2.4 | 73 | | | 0940 | 15.3 | 466 | | | 0944 | 13.6 | 415 | | | 1017 | 14.5 | 442 | |
| | 1446 | 3.1 | 94 | | | 1420 | 1.2 | 37 | | | 2151 | 18.1 | 552 | | | 1524 | 0.5 | 15 | | | 1523 | 2.1 | 64 | | | 1557 | 0.8 | 24 | |
| | 2117 | 17.8 | 543 | | | 2052 | 19.5 | 594 | | | | | | | | 2207 | 20.3 | 619 | | | 2204 | 17.9 | 546 | | | 2241 | 19.5 | 594 | |
| 12 W | 0307 | 3.2 | 98 | | 27 Th | 0256 | 1.5 | 46 | | 12 Sa | 0354 | 3.0 | 91 | | 27 Su | 0420 | 1.5 | 46 | | 12 M | 0413 | 2.9 | 88 | | 27 Tu | 0454 | 1.6 | 49 | |
| | 0929 | 17.0 | 518 | | | 0910 | 17.3 | 527 | | | 1000 | 14.7 | 448 | | | 1024 | 15.1 | 460 | | | 1013 | 13.7 | 418 | | | 1058 | 14.6 | 445 | |
| | 1515 | 2.8 | 85 | | | 1502 | 0.7 | 21 | | | 1543 | 2.4 | 73 | | | 1607 | 0.8 | 24 | | | 1556 | 2.0 | 61 | | | 1640 | 1.1 | 34 | |
| 13 Th | 0340 | 3.1 | 94 | | 28 F | 0343 | 1.3 | 40 | | 13 Su | 0425 | 3.1 | 94 | | 28 M | 0505 | 1.8 | 55 | | 13 Tu | 0446 | 2.7 | 82 | | 28 W | 0534 | 1.8 | 55 | |
| | 0956 | 16.7 | 509 | | | 0953 | 17.0 | 518 | | | 1026 | 14.6 | 445 | | | 1107 | 14.7 | 448 | | | 1043 | 13.9 | 424 | | | 1137 | 14.6 | 445 | |
| | 1543 | 2.7 | 82 | | | 1543 | 0.7 | 21 | | | 1612 | 2.4 | 73 | | | 1651 | 1.3 | 40 | | | 1629 | 1.9 | 58 | | | 1722 | 1.6 | 49 | |
| | 2212 | 18.4 | 561 | | | 2218 | 20.7 | 631 | | | 2245 | 18.2 | 555 | | | 2332 | 19.4 | 591 | | | 2303 | 18.2 | 555 | | | 2356 | 18.3 | 558 | |
| 14 F | 0411 | 3.1 | 94 | | 29 Sa | 0428 | 1.5 | 46 | | 14 M | 0458 | 3.2 | 98 | | 29 Tu | 0551 | 2.4 | 73 | | 14 W | 0520 | 2.5 | 76 | | 29 Th | 0613 | 2.1 | 64 | |
| | 1021 | 16.3 | 497 | | | 1034 | 16.5 | 503 | | | 1053 | 14.4 | 439 | | | 1150 | 14.3 | 436 | | | 1115 | 14.1 | 430 | | | 1216 | 14.5 | 442 | |
| | 1610 | 2.7 | 82 | | | 1623 | 1.0 | 30 | | | 1644 | 2.5 | 76 | | | 1736 | 2.1 | 64 | | | 1706 | 2.0 | 61 | | | 1805 | 2.3 | 70 | |
| 15 Sa | 0442 | 3.3 | 101 | | 30 Su | 0514 | 2.1 | 64 | | 15 Tu | 0533 | 3.3 | 101 | | 30 W | 0014 | 18.5 | 564 | | 15 Th | 0558 | 2.4 | 73 | | 30 F | 0032 | 17.4 | 530 | |
| | 1045 | 16.0 | 488 | | | 1115 | 15.7 | | | | | | | | | | | | | | | | | | | | | | |

Dalian, China, 2011

Times and Heights of High and Low Waters

| January | | | | February | | | | March | | | | | | | | | | | | | | | | |
|-----------------|--------|--------|-----|----------|-----------------|--------|------|-------|----|-----------------|--------|------|-----|--------|-----------------|--------|------|-----|------|-----------------|--------|-----|-----|--|
| Time | | Height | | Time | | Height | | Time | | Height | | Time | | Height | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | |
| 1 Sa | 0121 | 2.3 | 71 | | 16 Su | 0108 | 3.1 | 96 | | 1 Tu | 0322 | 1.9 | 57 | | 16 W | 0244 | 2.1 | 63 | | | | | | |
| | 0651 | 6.5 | 197 | | | 0634 | 5.9 | 180 | | | 0855 | 6.6 | 200 | | | 0819 | 6.5 | 197 | | 1 Tu | 0755 | 6.2 | 188 | |
| | 1306 | 0.8 | 24 | | | 1242 | 1.6 | 48 | | | 1456 | 0.7 | 21 | | | 1419 | 0.7 | 20 | | | 1354 | 1.6 | 50 | |
| | 1951 | 9.0 | 275 | | | 1932 | 8.3 | 253 | | | 2136 | 9.2 | 279 | | | 2052 | 9.2 | 281 | | | 2039 | 8.4 | 256 | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 Su | 0230 | 2.1 | 63 | | 17 M | 0217 | 2.7 | 81 | | 2 W | 0401 | 1.5 | 46 | | 17 Th | 0325 | 1.3 | 41 | | 2 W | 0305 | 1.9 | 59 | |
| | 0759 | 6.5 | 198 | | | 0744 | 6.1 | 187 | | | 0936 | 7.1 | 215 | | | 0905 | 7.2 | 218 | | | 0847 | 6.8 | 208 | |
| | 1406 | 0.6 | 19 | | | 1345 | 1.1 | 35 | | | 1540 | 0.4 | 11 | | | 1510 | 0.0 | -1 | | | 1449 | 1.2 | 36 | |
| | 2049 | 9.4 | 288 | | | 2027 | 9.0 | 273 | | | 2210 | 9.3 | 283 | | | 2133 | 9.7 | 295 | | | 2119 | 8.7 | 264 | |
| 3 M | 0325 | 1.7 | 53 | | 18 Tu | 0307 | 2.1 | 63 | | 3 Th | 0433 | 1.2 | 38 | | 18 F | 0402 | 0.7 | 22 | | 3 Th | 0339 | 1.5 | 46 | |
| | 0855 | 6.7 | 205 | | | 0838 | 6.5 | 199 | | | 1011 | 7.4 | 227 | | | 0946 | 7.8 | 239 | | | 0923 | 7.4 | 226 | |
| | 1458 | 0.4 | 12 | | | 1438 | 0.6 | 17 | | | 1617 | 0.2 | 5 | | | 1554 | -0.5 | -16 | | | 1530 | 0.8 | 24 | |
| | 2136 | 9.8 | 298 | | | 2113 | 9.5 | 291 | | | ● 2238 | 9.4 | 285 | | | ○ 2211 | 9.9 | 302 | | | 2149 | 8.8 | 269 | |
| 4 Tu | 0410 | 1.5 | 46 | | 19 W | 0349 | 1.5 | 46 | | 4 F | 0502 | 1.0 | 31 | | 19 Sa | 0437 | 0.2 | 7 | | 4 F | 0407 | 1.2 | 37 | |
| | 0941 | 7.0 | 214 | | | 0924 | 7.0 | 213 | | | 1043 | 7.7 | 236 | | | 1025 | 8.4 | 257 | | | 0955 | 7.9 | 240 | |
| | 1544 | 0.2 | 6 | | | 1525 | 0.0 | -1 | | | 1650 | 0.1 | 4 | | | 1638 | -0.8 | -24 | | | 1603 | 0.6 | 18 | |
| | ● 2217 | 9.9 | 302 | | | 2153 | 10.0 | 304 | | | 2306 | 9.3 | 284 | | | 2248 | 9.9 | 303 | | | 2215 | 8.9 | 271 | |
| 5 W | 0449 | 1.3 | 41 | | 20 Th | 0427 | 1.0 | 32 | | 5 Sa | 0530 | 0.8 | 25 | | 20 Su | 0512 | -0.2 | -6 | | 5 Sa | 0433 | 1.0 | 29 | |
| | 1022 | 7.3 | 222 | | | 1004 | 7.4 | 225 | | | 1116 | 8.0 | 243 | | | 1105 | 8.9 | 272 | | | 1024 | 8.2 | 251 | |
| | 1625 | 0.1 | 2 | | | 1609 | -0.5 | -14 | | | 1723 | 0.2 | 6 | | | 1721 | -0.8 | -23 | | | 1634 | 0.5 | 16 | |
| | 2252 | 9.9 | 303 | | | 2231 | 10.2 | 311 | | | 2334 | 9.2 | 281 | | | 2326 | 9.7 | 297 | | | ● 2241 | 8.9 | 271 | |
| 6 Th | 0523 | 1.2 | 37 | | 21 F | 0504 | 0.7 | 20 | | 6 Su | 0557 | 0.7 | 21 | | 21 M | 0549 | -0.5 | -15 | | 6 Su | 0458 | 0.8 | 24 | |
| | 1059 | 7.5 | 229 | | | 1044 | 7.7 | 236 | | | 1148 | 8.1 | 248 | | | 1147 | 9.3 | 283 | | | 1053 | 8.5 | 260 | |
| | 1703 | 0.0 | 1 | | | 1651 | -0.7 | -22 | | | 1755 | 0.4 | 12 | | | 1805 | -0.5 | -15 | | | 1704 | 0.6 | 18 | |
| | 2326 | 9.8 | 300 | | | 2309 | 10.2 | 312 | | | | | | | | | | | 2307 | | 8.8 | 269 | | |
| 7 F | 0557 | 1.1 | 34 | | 22 Sa | 0540 | 0.3 | 9 | | 7 M | 0003 | 9.0 | 275 | | 22 Tu | 0005 | 9.4 | 286 | | 7 M | 0523 | 0.6 | 19 | |
| | 1136 | 7.6 | 233 | | | 1125 | 8.1 | 246 | | | 0625 | 0.6 | 17 | | | 0627 | -0.6 | -19 | | | 1122 | 8.8 | 268 | |
| | 1740 | 0.2 | 5 | | | 1735 | -0.8 | -23 | | | 1221 | 8.2 | 251 | | | 1231 | 9.4 | 288 | | | 1735 | 0.7 | 22 | |
| | 2358 | 9.6 | 294 | | | 2348 | 10.1 | 308 | | | 1829 | 0.7 | 21 | | | 1852 | 0.0 | 1 | | | 2335 | 8.7 | 265 | |
| 8 Sa | 0629 | 1.0 | 31 | | 23 Su | 0618 | 0.0 | 0 | | 8 Tu | 0033 | 8.8 | 267 | | 23 W | 0047 | 8.9 | 270 | | 8 Tu | 0548 | 0.6 | 17 | |
| | 1213 | 7.7 | 235 | | | 1207 | 8.3 | 254 | | | 0653 | 0.5 | 16 | | | 0707 | -0.6 | -17 | | | 1152 | 9.0 | 274 | |
| | 1816 | 0.4 | 13 | | | 1819 | -0.5 | -16 | | | 1255 | 8.3 | 252 | | | 1318 | 9.4 | 287 | | | 1807 | 1.0 | 29 | |
| | | | | | | | | | | | 1904 | 1.1 | 33 | | | 1942 | 0.8 | 23 | | | | | | |
| 9 Su | 0031 | 9.4 | 285 | | 24 M | 0028 | 9.7 | 297 | | 9 W | 0104 | 8.4 | 255 | | 24 Th | 0131 | 8.1 | 248 | | 9 W | 0004 | 8.5 | 258 | |
| | 0701 | 1.0 | 29 | | | 0657 | -0.2 | -7 | | | 0724 | 0.6 | 18 | | | 0750 | -0.2 | -7 | | | 0616 | 0.5 | 16 | |
| | 1251 | 7.7 | 234 | | | 1253 | 8.5 | 260 | | | 1331 | 8.3 | 252 | | | 1411 | 9.1 | 277 | | | 1222 | 9.1 | 278 | |
| | 1853 | 0.8 | 25 | | | 1907 | -0.1 | -3 | | | 1942 | 1.6 | 49 | | | 2039 | 1.6 | 49 | | | 1841 | 1.2 | 37 | |
| 10 M | 0105 | 9.0 | 273 | | 25 Tu | 0111 | 9.3 | 282 | | 10 Th | 0137 | 7.8 | 239 | | 25 F | 0219 | 7.3 | 222 | | 10 Th | 0034 | 8.2 | 250 | |
| | 0734 | 1.0 | 29 | | | 0739 | -0.3 | -9 | | | 0757 | 0.8 | 24 | | | 0838 | 0.4 | 12 | | | 0646 | 0.6 | 17 | |
| | 1331 | 7.6 | 232 | | | 1342 | 8.6 | 261 | | | 1412 | 8.1 | 248 | | | 1513 | 8.6 | 262 | | | 1256 | 9.2 | 279 | |
| | 1933 | 1.3 | 40 | | | 1958 | 0.6 | 17 | | | 2026 | 2.2 | 66 | | | ● 2148 | 2.5 | 75 | | | 1917 | 1.6 | 49 | |
| 11 Tu | 0140 | 8.5 | 258 | | 26 W | 0156 | 8.5 | 260 | | 11 F | 0214 | 7.3 | 221 | | 26 Sa | 0319 | 6.4 | 195 | | 11 F | 0107 | 7.8 | 238 | |
| | 0809 | 1.0 | 31 | | | 0823 | -0.1 | -4 | | | 0836 | 1.1 | 33 | | | 0937 | 1.1 | 35 | | | 0719 | 0.7 | 22 | |
| | 1414 | 7.5 | 229 | | | 1437 | 8.4 | 257 | | | 1500 | 7.9 | 241 | | | 1633 | 8.0 | 245 | | | 1334 | 9.1 | 276 | |
| | 2016 | 1.9 | 58 | | | ● 2055 | 1.4 | 42 | | | ● 2120 | 2.8 | 85 | | | 2325 | 3.0 | 92 | | | 1958 | 2.1 | 63 | |
| 12 W | 0218 | 7.8 | 239 | | 27 Th | 0246 | 7.7 | 234 | | 12 Sa | 0300 | 6.6 | 200 | | 27 Su | 0447 | 5.7 | 174 | | 12 Sa | 0143 | 7.3 | 222 | |
| | 0847 | 1.2 | 36 | | | 0913 | 0.2 | 7 | | | 0923 | 1.5 | 45 | | | 1100 | 1.8 | 56 | | | 0757 | 1.0 | 31 | |
| | 1502 | 7.4 | 226 | | | 1542 | 8.2 | 250 | | | 1603 | 7.7 | 234 | | | 1813 | 7.8 | 238 | | | 1419 | 8.7 | 266 | |
| | ● 2108 | 2.5 | 77 | | | 2205 | 2.2 | 67 | | | 2235 | 3.3 | 100 | | | | | | | | 2049 | 2.6 | 80 | |
| 13 Th | 0301 | 7.2 | 218 | | 28 F | 0346 | 6.8 | 206 | | 13 Su | 0405 | 5.9 | 180 | | 28 M | 0106 | 3.0 | 90 | | 13 Su | 0228 | 6.7 | 203 | |
| | 0931 | 1.4 | 43 | | | 1012 | 0.8 | 23 | | | 1030 | 1.8 | 56 | | | 0635 | 5.6 | 172 | | | 0842 | 1.5 | 45 | |
| | 1600 | 7.3 | 224 | | | 1701 | 8.0 | 244 | | | 1727 | 7.6 | 232 | | | 1238 | 2.0 | 60 | | | 1518 | 8.3 | 253 | |
| | 2212 | 3.1 | 93 | | | 2337 | 2.8 | 84 | | | | | | | | 1940 | 8.0 | 245 | | | ● 2201 | 3.1 | 95 | |
| 14 F | 0356 | 6.5 | 199 | | 29 Sa | 0506 | 6.0 | 184 | | 14 M | 0018 | 3.3 | 102 | | 14 M | 0331 | 6.0 | 183 | | 14 M | 0331 | 6.0 | 183 | |
| | 1025 | 1.7 | 51 | | | 1127 | 1.2 | 36 | | | 0545 | 5.6 | 170 | | | 0945 | 1.9 | 59 | | | 0945 | 1.9 | 59 | |
| | 1710 | 7.4 | 227 | | | 1831 | 8.1 | 246 | | | 1157 | 1.9 | 57 | | | 1639 | 7.9 | 242 | | | 1639 | 7.9 | 242 | |
| | 2333 | 3.3 | 101 | | | | | | | | 1856 | 8.0 | 243 | | | 2336 | 3.2 | 98 | | | 2336 | 3.2 | 98 | |
| 15 Sa | 0510 | 6.0 | 184 | | 30 Su | 0117 | 2.7 | 83 | | 15 Tu | 0149 | 2.8 | 86 | | 15 Tu | 0509 | 5.7 | 173 | | 15 Tu | 0509 | 5.7 | 173 | |
| | 1132 | 1.8 | 54 | | | 0640 | 5.8 | 176 | | | 0717 | 5.8 | 178 | | | 1118 | 2.1 | 65 | | | 1118 | 2.1 | 65 | |
| | 1826 | 7.8 | 237 | | | 1250 | 1.3 | 40 | | | 1317 | 1.4 | 42 | | | 1815 | 8.0 | 245 | | | 1815 | 8.0 | 245 | |
| | | | | | | 1951 | 8.4 | 257 | | | 2003 | 8.6 | 262 | | | | | | | | | | | |
| 16 Su | 0230 | 2.3 | 71 | | 31 M | 0230 | 2.3 | 71 | | | | | | | | | | | | | | | | |
| | 0759 | 6.0 | 184 | | | 0759 | 6.0 | 184 | | | | | | | | | | | | | | | | |
| | 1406 | 0.6 | 19 | | | 1401 | 1.1 | 33 | | | | | | | | | | | | | | | | |
| | 2049 | 9.4 | 288 | | | 2052 | 8.8 | 269 | | | | | | | | | | | | | | | | |

Dalian, China, 2011

Times and Heights of High and Low Waters

| July | | | | August | | | | September | | | | | | | | | | | | | | | |
|-----------------|------|--------|-----------------|-----------------|-------|--------|----------------|-----------------|------|--------|-----------------|-----------------|------|--------|----------------|-----------------|------|------|------|-----------------|------|------|-----|
| Time | | Height | | Time | | Height | | Time | | Height | | Time | | Height | | | | | | | | | |
| h | m | ft | cm | h | m | ft | cm | h | m | ft | cm | h | m | ft | cm | | | | | | | | |
| 1 F | 0330 | 1.9 | 57 | 16 Sa | 0411 | 1.5 | 47 | 1 M | 0435 | 1.1 | 35 | 16 Tu | 0512 | 1.8 | 56 | 1 Th | 0543 | 1.0 | 32 | 16 F | 0555 | 2.3 | 71 |
| | 1000 | 11.2 | 340 | | 1041 | 11.3 | 345 | | 1053 | 11.5 | 352 | | 1122 | 10.7 | 325 | | 1143 | 10.8 | 329 | | 1151 | 9.6 | 293 |
| | 1635 | 2.7 | 81 | | 1711 | 2.4 | 74 | | 1722 | 1.8 | 55 | | 1744 | 2.1 | 63 | | 1803 | 0.7 | 21 | | 1802 | 1.7 | 52 |
| | 2215 | 8.5 | 258 | | 2250 | 8.9 | 270 | | 2311 | 9.5 | 291 | | 2339 | 9.7 | 296 | | | | | | | | |
| 2 Sa | 0410 | 1.6 | 48 | 17 Su | 0452 | 1.5 | 46 | 2 Tu | 0517 | 1.0 | 32 | 17 W | 0545 | 2.1 | 63 | 2 F | 0609 | 11.0 | 335 | 17 Sa | 0612 | 10.4 | 317 |
| | 1036 | 11.4 | 347 | | 1116 | 11.2 | 342 | | 1130 | 11.5 | 350 | | 1152 | 10.4 | 318 | | 1224 | 10.3 | 315 | | 1222 | 9.3 | 284 |
| | 1712 | 2.4 | 73 | | 1746 | 2.3 | 71 | | 1758 | 1.5 | 45 | | 1812 | 2.0 | 60 | | 1843 | 0.7 | 21 | | 1832 | 1.8 | 54 |
| | 2253 | 8.7 | 264 | | 2328 | 9.1 | 276 | | 2351 | 9.9 | 301 | | | | | | | | | | | | |
| 3 Su | 0450 | 1.3 | 41 | 18 M | 0530 | 1.6 | 50 | 3 W | 0600 | 1.1 | 35 | 18 Th | 0613 | 9.8 | 300 | 3 Sa | 0719 | 2.0 | 61 | 18 Su | 0706 | 3.0 | 90 |
| | 1113 | 11.5 | 350 | | 1150 | 11.0 | 336 | | 1209 | 11.2 | 342 | | 1223 | 10.2 | 310 | | 1308 | 9.7 | 296 | | 1255 | 8.9 | 272 |
| | 1748 | 2.2 | 66 | | 1819 | 2.2 | 68 | | 1835 | 1.2 | 37 | | 1841 | 1.9 | 59 | | 1926 | 0.9 | 28 | | 1905 | 1.9 | 59 |
| | 2331 | 8.8 | 269 | | | | | | | | | | | | | | | | | | | | |
| 4 M | 0531 | 1.2 | 38 | 19 Tu | 0606 | 9.2 | 280 | 4 Th | 0634 | 10.2 | 310 | 19 F | 0648 | 9.9 | 302 | 4 Su | 0715 | 10.8 | 330 | 19 M | 0746 | 3.4 | 103 |
| | 1151 | 11.5 | 349 | | 0608 | 1.9 | 58 | | 0646 | 1.4 | 44 | | 0656 | 2.8 | 84 | | 0815 | 2.8 | 84 | | 0731 | 8.4 | 257 |
| | 1825 | 1.9 | 59 | | 1223 | 10.8 | 328 | | 1250 | 10.8 | 330 | | 1255 | 9.8 | 298 | | 1357 | 8.9 | 272 | | 1331 | 8.4 | 257 |
| | | | | | 1851 | 2.2 | 66 | | 1915 | 1.1 | 33 | | 1912 | 2.0 | 61 | | 2014 | 1.4 | 43 | | 1942 | 2.2 | 68 |
| 5 Tu | 0612 | 9.0 | 274 | 20 W | 0645 | 9.3 | 283 | 5 F | 0712 | 10.3 | 314 | 20 Sa | 0734 | 3.2 | 98 | 5 M | 0821 | 10.4 | 316 | 20 Tu | 0835 | 3.8 | 117 |
| | 0615 | 1.3 | 40 | | 0646 | 2.3 | 69 | | 0735 | 1.9 | 59 | | 0734 | 3.2 | 98 | | 0921 | 3.5 | 107 | | 0855 | 3.8 | 117 |
| | 1231 | 11.3 | 343 | | 1258 | 10.4 | 317 | | 1334 | 10.2 | 312 | | 1328 | 9.3 | 283 | | 1455 | 8.1 | 246 | | 1414 | 7.9 | 240 |
| | 1904 | 1.7 | 52 | | 1924 | 2.1 | 65 | | 1958 | 1.1 | 35 | | 1944 | 2.2 | 67 | | 2110 | 2.1 | 65 | | 2026 | 2.6 | 80 |
| 6 W | 0656 | 9.2 | 280 | 21 Th | 0726 | 2.7 | 83 | 6 Sa | 0830 | 2.6 | 80 | 21 Su | 0818 | 3.7 | 114 | 6 Tu | 0941 | 9.8 | 299 | 21 W | 0942 | 4.3 | 130 |
| | 1314 | 10.9 | 333 | | 1333 | 9.9 | 302 | | 1422 | 9.5 | 289 | | 1405 | 8.7 | 265 | | 1613 | 7.3 | 223 | | 1513 | 7.3 | 222 |
| | 1946 | 1.5 | 47 | | 1958 | 2.2 | 68 | | 2045 | 1.4 | 44 | | 2022 | 2.5 | 77 | | 2227 | 2.8 | 86 | | 2125 | 3.1 | 94 |
| | | | | | | | | | | | | | | | | | | | | | | | |
| 7 Th | 0144 | 9.4 | 285 | 22 F | 0207 | 9.3 | 282 | 7 Su | 0312 | 10.2 | 310 | 22 M | 0251 | 9.6 | 292 | 7 W | 0311 | 9.4 | 288 | 22 Th | 0416 | 9.1 | 277 |
| | 0751 | 1.9 | 57 | | 0810 | 3.3 | 100 | | 0935 | 3.4 | 103 | | 0911 | 4.3 | 132 | | 1229 | 4.1 | 125 | | 1109 | 4.4 | 133 |
| | 1400 | 10.4 | 317 | | 1411 | 9.3 | 284 | | 1518 | 8.6 | 262 | | 1449 | 8.0 | 245 | | 1758 | 7.1 | 216 | | 1641 | 6.9 | 211 |
| | 2030 | 1.5 | 45 | | 2034 | 2.4 | 74 | | 2140 | 1.9 | 59 | | 2107 | 3.0 | 90 | | | | | | 2252 | 3.3 | 101 |
| 8 F | 0238 | 9.4 | 288 | 23 Sa | 0254 | 9.2 | 280 | 8 M | 0424 | 9.9 | 302 | 23 Tu | 0350 | 9.3 | 283 | 8 Th | 0403 | 3.1 | 95 | 23 F | 0547 | 9.1 | 276 |
| | 0848 | 2.4 | 73 | | 0859 | 3.9 | 119 | | 1058 | 4.0 | 122 | | 1022 | 4.8 | 146 | | 1346 | 3.7 | 112 | | 1240 | 3.9 | 120 |
| | 1451 | 9.7 | 297 | | 1453 | 8.7 | 264 | | 1630 | 7.8 | 237 | | 1550 | 7.4 | 225 | | 1925 | 7.5 | 229 | | 1823 | 7.2 | 219 |
| | 2119 | 1.6 | 48 | | 2115 | 2.7 | 83 | | 2250 | 2.5 | 75 | | 2209 | 3.3 | 102 | | | | | | | | |
| 9 Sa | 0339 | 9.5 | 291 | 24 Su | 0347 | 9.1 | 277 | 9 Tu | 0550 | 9.8 | 299 | 24 W | 0508 | 9.2 | 279 | 9 F | 0612 | 2.9 | 88 | 24 Sa | 0702 | 9.4 | 287 |
| | 0953 | 3.0 | 91 | | 1000 | 4.4 | 135 | | 1239 | 4.1 | 126 | | 1201 | 4.9 | 148 | | 1439 | 3.1 | 96 | | 1341 | 3.2 | 97 |
| | 1549 | 9.0 | 274 | | 1544 | 8.0 | 244 | | 1803 | 7.3 | 224 | | 1724 | 7.0 | 214 | | 2025 | 8.2 | 249 | | 1930 | 7.9 | 242 |
| | 2215 | 1.8 | 54 | | 2205 | 3.1 | 94 | | | | | | | | | | | | | | | | |
| 10 Su | 0449 | 9.7 | 295 | 25 M | 0452 | 9.1 | 276 | 10 W | 0613 | 2.7 | 83 | 25 Th | 0636 | 9.4 | 286 | 10 Sa | 0726 | 2.4 | 74 | 25 Su | 0833 | 2.3 | 71 |
| | 1110 | 3.5 | 106 | | 1118 | 4.8 | 146 | | 0715 | 10.0 | 305 | | 1331 | 4.4 | 133 | | 1518 | 2.7 | 82 | | 1425 | 2.4 | 72 |
| | 1657 | 8.3 | 252 | | 1653 | 7.4 | 227 | | 1400 | 3.8 | 115 | | 1859 | 7.3 | 221 | | 2107 | 8.8 | 267 | | 2019 | 8.9 | 270 |
| | 2319 | 2.0 | 61 | | 2309 | 3.3 | 101 | | 1930 | 7.5 | 228 | | | | | | | | | | | | |
| 11 M | 0604 | 9.9 | 302 | 26 Tu | 0607 | 9.3 | 282 | 11 Th | 0824 | 10.4 | 317 | 26 F | 0744 | 9.9 | 302 | 11 Su | 0831 | 2.1 | 64 | 26 M | 0927 | 1.6 | 49 |
| | 1240 | 3.6 | 111 | | 1255 | 4.7 | 143 | | 1459 | 3.3 | 101 | | 1425 | 3.6 | 110 | | 1549 | 2.3 | 71 | | 1503 | 1.6 | 50 |
| | 1814 | 7.8 | 238 | | 1818 | 7.3 | 221 | | 2035 | 8.0 | 243 | | 2003 | 7.8 | 239 | | 2140 | 9.3 | 282 | | 2100 | 9.7 | 296 |
| | | | | | | | | | | | | | | | | | | | | | | | |
| 12 Tu | 0028 | 2.2 | 66 | 27 W | 0718 | 9.7 | 295 | 12 F | 0915 | 10.7 | 326 | 27 Sa | 0834 | 10.5 | 320 | 12 M | 0932 | 10.1 | 309 | 27 Tu | 1033 | 1.0 | 32 |
| | 0717 | 10.3 | 313 | | 1406 | 4.2 | 129 | | 1542 | 2.9 | 88 | | 1506 | 2.9 | 88 | | 1616 | 2.1 | 64 | | 1539 | 1.0 | 32 |
| | 1400 | 3.4 | 105 | | 1933 | 7.4 | 227 | | 2121 | 8.5 | 259 | | 2050 | 8.6 | 261 | | 2211 | 9.6 | 293 | | 2140 | 10.5 | 319 |
| | 1929 | 7.7 | 235 | | | | | | | | | | | | | | | | | | | | |
| 13 W | 0136 | 2.1 | 64 | 28 Th | 0129 | 3.0 | 90 | 13 Sa | 0322 | 1.9 | 59 | 28 Su | 0250 | 1.8 | 54 | 13 Tu | 0348 | 1.9 | 58 | 28 W | 0357 | 0.8 | 23 |
| | 0822 | 10.7 | 327 | | 0816 | 10.2 | 312 | | 0953 | 10.9 | 331 | | 0915 | 11.0 | 334 | | 1026 | 10.1 | 308 | | 0958 | 10.5 | 320 |
| | 1502 | 3.1 | 94 | | 1456 | 3.6 | 111 | | 1617 | 2.6 | 79 | | 1542 | 2.2 | 68 | | 1642 | 1.9 | 59 | | 1615 | 0.6 | 18 |
| | 2034 | 7.9 | 241 | | 2030 | 7.9 | 240 | | 2159 | 9.0 | 273 | | 2130 | 9.2 | 281 | | 2240 | 9.9 | 301 | | 2220 | 11.0 | 336 |
| 14 Th | 0235 | 1.9 | 58 | 29 F | 0224 | 2.4 | 74 | 14 Su | 0402 | 1.8 | 54 | 29 M | 0335 | 1.2 | 37 | 14 W | 0452 | 1.9 | 59 | 29 Th | 0441 | 0.8 | 23 |
| | 0917 | 11.1 | 338 | | 0902 | 10.8 | 329 | | 1025 | 10.9 | 331 | | 0951 | 11.2 | 341 | | 1053 | 10.0 | 305 | | 1037 | 10.3 | 314 |
| | 1553 | 2.8 | 85 | | 1537 | 3.1 | 94 | | 1647 | 2.4 | 72 | | 1616 | 1.7 | 51 | | 1707 | 1.8 | 55 | | 1653 | 0.3 | 10 |
| | 2127 | 8.2 | 251 | | 2116 | 8.3 | 254 | | 2233 | 9.3 | 283 | | 2207 | 9.8 | 300 | | 2310 | 10.1 | 308 | | 2301 | 11.4 | 348 |
| 15 F | 0326 | 1.7 | 51 | 30 Sa | 0311 | 1.9 | 58 | 15 M | 0438 | 1.7 | 53 | 30 Tu | 0417 | 0.9 | 28 | 15 Th | 0523 | 2.1 | 64 | 30 F | 0527 | 1.0 | 30 |
| | 1002 | 11.3 | 344 | | 0942 | 11.2 | 342 | | 1053 | 10.8 | 329 | | 1027 | 11.3 | 343 | | 1122 | 9.8 | 300 | | 1118 | 10.0 | 304 |
| | 1635 | 2.6 | 78 | | 1613 | 2.6 | 79 | | 1716 | 2.2 | 67 | | 1650 | 1.2 | 38 | | 1734 | 1.7 | 53 | | 1733 | 0.3 | 8 |
| | 2210 | 8.6 | 261 | | 2155 | 8.8 | 268 | | 2305 | 9.5 | 290 | | 2246 | 10.3 | 315 | | 2340 | 10.3 | 314 | | 2345 | 11.5 | 352 |
| | | | 31 Su | 0354 | 1.4 | 44 | 31 W | 0459 | 0.9 | 26 | 31 Th | 0459 | 0.9 | 26 | 31 F | 0527 | 1.0 | 30 | | | | | |
| | | | | 1018 | 11.5 | 350 | | 1104 | 11.1 | 339 | | 1104 | 11.1 | 339 | | 1104 | 11.1 | 339 | 1118 | 10.0 | 304 | | |
| | | | | 1648 | 2.2</ | | | | | | | | | | | | | | | | | | |

Dalian, China, 2011

Times and Heights of High and Low Waters

| October | | | | November | | | | December | | | | | | | | | | | | | | | | | | | | | |
|-----------------|------|--------|-----|----------|-----------------|--------|------|----------|----|-----------------|------|------|-----|--------|-----------------|------|------|-----|--|-----------------|------|------|-----|--|-----------------|------|------|-----|--|
| Time | | Height | | Time | | Height | | Time | | Height | | Time | | Height | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | | | | | | |
| 1 Sa | 0615 | 1.4 | 43 | | 16 Su | 0610 | 2.3 | 71 | | 1 Tu | 0106 | 10.8 | 329 | | 16 W | 0033 | 10.3 | 315 | | 1 Th | 0137 | 9.7 | 296 | | 16 F | 0100 | 9.8 | 299 | |
| | 1201 | 9.5 | 290 | | | 1157 | 8.6 | 263 | | | 0749 | 2.1 | 65 | | | 0713 | 2.0 | 62 | | | 0817 | 1.7 | 51 | | | 0738 | 1.1 | 33 | |
| | 1859 | 0.4 | 12 | | | 1801 | 1.4 | 44 | | | 1325 | 7.8 | 238 | | | 1255 | 7.6 | 233 | | | 1401 | 7.4 | 226 | | | 1326 | 7.6 | 231 | |
| 2 Su | 0033 | 11.4 | 347 | | 17 M | 0015 | 10.6 | 323 | | 2 W | 0202 | 10.0 | 306 | | 17 Th | 0116 | 10.0 | 305 | | 2 F | 0227 | 9.0 | 273 | | 17 Sa | 0145 | 9.4 | 286 | |
| | 0706 | 2.0 | 60 | | | 0646 | 2.5 | 77 | | | 0847 | 2.5 | 77 | | | 0758 | 2.1 | 64 | | | 0907 | 1.8 | 56 | | | 0822 | 1.0 | 29 | |
| | 1248 | 8.9 | 272 | | | 1231 | 8.4 | 255 | | | 1424 | 7.4 | 225 | | | 1342 | 7.4 | 226 | | | 1501 | 7.2 | 220 | | | 1418 | 7.6 | 231 | |
| 3 M | 0125 | 11.0 | 334 | | 18 Tu | 0052 | 10.4 | 318 | | 3 Th | 0305 | 9.2 | 281 | | 18 F | 0205 | 9.5 | 290 | | 3 Sa | 0323 | 8.2 | 249 | | 18 Su | 0236 | 8.8 | 269 | |
| | 0803 | 2.6 | 79 | | | 0726 | 2.8 | 85 | | | 0951 | 2.8 | 86 | | | 0850 | 2.1 | 65 | | | 1003 | 2.0 | 61 | | | 0912 | 0.9 | 27 | |
| | 1339 | 8.3 | 252 | | | 1309 | 8.0 | 244 | | | 1536 | 7.1 | 216 | | | 1439 | 7.2 | 220 | | | 1613 | 7.1 | 217 | | | 1518 | 7.7 | 234 | |
| 4 Tu | 0225 | 10.3 | 314 | | 19 W | 0135 | 10.1 | 307 | | 4 F | 0418 | 8.5 | 259 | | 19 Sa | 0304 | 9.0 | 274 | | 4 Su | 0427 | 7.5 | 229 | | 19 M | 0334 | 8.2 | 250 | |
| | 0907 | 3.2 | 98 | | | 0814 | 3.1 | 94 | | | 1105 | 2.9 | 88 | | | 0949 | 2.1 | 63 | | | 1104 | 2.1 | 63 | | | 1009 | 0.9 | 26 | |
| | 1439 | 7.6 | 232 | | | 1354 | 7.6 | 231 | | | 1705 | 7.1 | 216 | | | 1547 | 7.3 | 221 | | | 1730 | 7.3 | 222 | | | 1627 | 7.9 | 240 | |
| 5 W | 0337 | 9.5 | 291 | | 20 Th | 0228 | 9.5 | 291 | | 5 Sa | 0535 | 8.0 | 245 | | 20 Su | 0413 | 8.5 | 259 | | 5 M | 0536 | 7.1 | 216 | | 20 Tu | 0441 | 7.6 | 233 | |
| | 1028 | 3.6 | 111 | | | 0914 | 3.3 | 101 | | | 1214 | 2.7 | 82 | | | 1053 | 1.8 | 56 | | | 1205 | 2.0 | 61 | | | 1111 | 0.8 | 24 | |
| | 1600 | 7.1 | 216 | | | 1454 | 7.2 | 218 | | | 1824 | 7.5 | 228 | | | 2314 | 2.3 | 71 | | | 1837 | 7.7 | 235 | | | 1742 | 8.3 | 253 | |
| 6 Th | 0505 | 9.0 | 273 | | 21 F | 0336 | 9.1 | 276 | | 6 Su | 0032 | 3.1 | 94 | | 21 M | 0526 | 8.2 | 251 | | 6 Tu | 0058 | 3.1 | 93 | | 21 W | 0003 | 2.2 | 66 | |
| | 1158 | 3.6 | 111 | | | 1027 | 3.3 | 102 | | | 0643 | 7.9 | 241 | | | 1156 | 1.4 | 44 | | | 0641 | 6.9 | 211 | | | 0553 | 7.2 | 220 | |
| | 1741 | 7.1 | 215 | | | 1613 | 7.0 | 213 | | | 1309 | 2.4 | 72 | | | 1817 | 8.3 | 254 | | | 1259 | 1.8 | 56 | | | 1215 | 0.6 | 19 | |
| 7 F | 0631 | 8.8 | 268 | | 22 Sa | 0457 | 8.8 | 267 | | 7 M | 0138 | 2.8 | 85 | | 22 Tu | 0032 | 2.0 | 62 | | 7 W | 0159 | 2.8 | 84 | | 22 Th | 0123 | 2.0 | 60 | |
| | 1309 | 3.3 | 100 | | | 1143 | 3.0 | 91 | | | 0737 | 7.9 | 242 | | | 0632 | 8.2 | 249 | | | 0737 | 7.0 | 212 | | | 0702 | 7.1 | 215 | |
| | 1904 | 7.5 | 230 | | | 1744 | 7.3 | 223 | | | 1354 | 2.0 | 62 | | | 1254 | 1.0 | 29 | | | 1346 | 1.6 | 49 | | | 1317 | 0.4 | 11 | |
| 8 Sa | 0107 | 3.0 | 91 | | 23 Su | 0614 | 8.9 | 270 | | 8 Tu | 0228 | 2.4 | 74 | | 23 W | 0139 | 1.6 | 49 | | 8 Th | 0247 | 2.4 | 73 | | 23 F | 0230 | 1.6 | 50 | |
| | 0737 | 8.9 | 271 | | | 1248 | 2.4 | 72 | | | 0821 | 8.0 | 245 | | | 0730 | 8.2 | 250 | | | 0825 | 7.1 | 216 | | | 0804 | 7.1 | 216 | |
| | 1401 | 2.8 | 85 | | | 1854 | 8.1 | 248 | | | 1430 | 1.7 | 53 | | | 1346 | 0.5 | 14 | | | 1427 | 1.3 | 41 | | | 1414 | 0.1 | 2 | |
| 9 Su | 0207 | 2.6 | 79 | | 24 M | 0102 | 2.1 | 65 | | 9 W | 0309 | 2.1 | 65 | | 24 Th | 0237 | 1.2 | 38 | | 9 F | 0328 | 2.1 | 63 | | 24 Sa | 0326 | 1.3 | 40 | |
| | 0824 | 9.1 | 276 | | | 0714 | 9.1 | 277 | | | 0857 | 8.1 | 247 | | | 0821 | 8.2 | 250 | | | 0906 | 7.3 | 222 | | | 0859 | 7.2 | 220 | |
| | 1440 | 2.4 | 72 | | | 1339 | 1.6 | 50 | | | 1503 | 1.5 | 45 | | | 1434 | 0.1 | 2 | | | 1504 | 1.1 | 33 | | | 1507 | -0.2 | -7 | |
| 10 M | 0253 | 2.2 | 68 | | 25 Tu | 0202 | 1.5 | 46 | | 10 Th | 0345 | 2.0 | 60 | | 25 F | 0330 | 1.0 | 31 | | 10 Sa | 0404 | 1.8 | 56 | | 25 Su | 0416 | 1.1 | 33 | |
| | 0900 | 9.2 | 279 | | | 0804 | 9.4 | 285 | | | 1533 | 1.3 | 40 | | | 1520 | -0.2 | -7 | | | 0943 | 7.4 | 227 | | | 0949 | 7.4 | 226 | |
| | 1512 | 2.0 | 61 | | | 1423 | 1.0 | 29 | | | 2151 | 10.1 | 307 | | | 2142 | 11.1 | 339 | | | 1539 | 0.8 | 25 | | | 1555 | -0.4 | -12 | |
| 11 Tu | 0329 | 2.0 | 61 | | 26 W | 0253 | 1.0 | 31 | | 11 F | 0418 | 1.9 | 57 | | 26 Sa | 0420 | 1.0 | 29 | | 11 Su | 0438 | 1.7 | 51 | | 26 M | 0500 | 1.0 | 29 | |
| | 0930 | 9.2 | 280 | | | 0848 | 9.4 | 288 | | | 1602 | 1.2 | 36 | | | 1605 | -0.4 | -11 | | | 1017 | 7.5 | 230 | | | 1034 | 7.6 | 232 | |
| | 1540 | 1.8 | 54 | | | 1503 | 0.4 | 13 | | | 2220 | 10.3 | 315 | | | 2228 | 11.3 | 345 | | | 1614 | 0.6 | 19 | | | 1641 | -0.5 | -14 | |
| 12 W | 0402 | 1.9 | 59 | | 27 Th | 0341 | 0.8 | 24 | | 12 Sa | 0450 | 1.8 | 56 | | 27 Su | 0508 | 1.0 | 30 | | 12 M | 0511 | 1.6 | 48 | | 27 Tu | 0542 | 0.9 | 27 | |
| | 0958 | 9.2 | 280 | | | 0931 | 9.4 | 287 | | | 1034 | 8.2 | 249 | | | 1044 | 8.1 | 246 | | | 1050 | 7.6 | 232 | | | 1118 | 7.7 | 236 | |
| | 1606 | 1.6 | 49 | | | 1544 | 0.1 | 2 | | | 1633 | 1.0 | 32 | | | 1650 | -0.3 | -10 | | | 1649 | 0.5 | 14 | | | 1725 | -0.3 | -10 | |
| 13 Th | 0433 | 1.9 | 59 | | 28 F | 0428 | 0.8 | 24 | | 13 Su | 0523 | 1.9 | 57 | | 28 M | 0555 | 1.1 | 34 | | 13 Tu | 0545 | 1.5 | 45 | | 28 W | 0622 | 0.9 | 26 | |
| | 1026 | 9.1 | 278 | | | 1014 | 9.2 | 281 | | | 1106 | 8.1 | 247 | | | 1131 | 8.0 | 243 | | | 1124 | 7.6 | 232 | | | 1202 | 7.8 | 238 | |
| | 1632 | 1.5 | 46 | | | 1625 | -0.1 | -3 | | | 1705 | 1.0 | 30 | | | 1736 | -0.1 | -4 | | | 1725 | 0.4 | 12 | | | 1808 | 0.0 | -1 | |
| 14 F | 0505 | 2.0 | 61 | | 29 Sa | 0515 | 1.0 | 30 | | 14 M | 0557 | 1.9 | 59 | | 29 Tu | 0001 | 10.9 | 332 | | 14 W | 0620 | 1.3 | 41 | | 29 Th | 0027 | 9.9 | 301 | |
| | 1055 | 9.0 | 274 | | | 1058 | 9.0 | 273 | | | 1139 | 8.0 | 249 | | | 0642 | 1.3 | 40 | | | 1201 | 7.6 | 232 | | | 0701 | 0.9 | 26 | |
| | 1700 | 1.4 | 44 | | | 1707 | -0.1 | -3 | | | 1740 | 1.0 | 30 | | | 1218 | 7.8 | 239 | | | 1803 | 0.4 | 13 | | | 1246 | 7.8 | 237 | |
| 15 Sa | 0537 | 2.1 | 65 | | 30 Su | 0605 | 1.3 | 40 | | 15 Tu | 0633 | 2.0 | 61 | | 30 W | 0049 | 10.4 | 316 | | 15 Th | 0019 | 10.1 | 308 | | 30 F | 0107 | 9.4 | 286 | |
| | 1126 | 8.9 | 270 | | | 1144 | 8.6 | 262 | | | 1215 | 7.8 | 239 | | | 0729 | 1.5 | 45 | | | 0657 | 1.2 | 37 | | | 0741 | 0.9 | 28 | |
| | 1729 | 1.4 | 43 | | | 1752 | 0.1 | 4 | | | 1816 | 1.0 | 32 | | | 1308 | 7.6 | 233 | | | 1241 | 7.6 | 232 | | | 1332 | 7.7 | 234 | |
| | 2342 | 10.6 | 324 | | 31 M | 0015 | 11.4 | 346 | | | | | | | | | | | | | | | | | | | | | |
| | | | | 0656 | | 1.7 | 52 | | | | | | | | | | | | | | | | | | | | | | |
| | | | | 1232 | | 8.2 | 250 | | | | | | | | | | | | | | | | | | | | | | |
| | | | | 1839 | 0.6 | 17 | | | | | | | | | | | | | | | | | | | | | | | |

Time meridian 120° E. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
 Heights are referred to the chart datum of soundings.

Qinhuangdao, China, 2011

Times and Heights of High and Low Waters

| January | | | | February | | | | March | | | | | | | | | | | | | | | | | | | | |
|-----------------|------|--------|-----|----------|-----------------|--------|-----|-------|----|-----------------|------|------|-----|--------|-----------------|------|-----|-----|--|-----------------|------|-----|-----|--|-----------------|------|-----|-----|
| Time | | Height | | Time | | Height | | Time | | Height | | Time | | Height | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | | | | | |
| 1 Sa | 0444 | 3.8 | 116 | | 16 Su | 0415 | 3.9 | 119 | | 1 Tu | 0608 | 3.9 | 118 | | 16 W | 0508 | 4.0 | 122 | | 1 Tu | 0407 | 3.8 | 116 | | 16 W | 0334 | 4.1 | 125 |
| | 1522 | 0.4 | 11 | | | 1541 | 0.7 | 20 | | | 1651 | 0.1 | 3 | | | 1644 | 0.3 | 8 | | | 1544 | 0.6 | 17 | | | 1522 | 0.8 | 23 |
| 2 Su | 0526 | 4.0 | 123 | | 17 M | 0456 | 4.1 | 124 | | 2 W | 0717 | 3.7 | 113 | | 17 Th | 0610 | 3.8 | 117 | | 2 W | 0606 | 3.6 | 109 | | 17 Th | 0444 | 3.8 | 116 |
| | 1615 | 0.1 | 2 | | | 1624 | 0.4 | 11 | | | 1731 | 0.2 | 6 | | | 1723 | 0.2 | 7 | | | 1626 | 0.7 | 20 | | | 1608 | 0.8 | 24 |
| 3 M | 0613 | 4.1 | 126 | | 18 Tu | 0539 | 4.1 | 126 | | 3 Th | 0810 | 3.5 | 108 | | 18 F | 0728 | 3.6 | 109 | | 3 Th | 0719 | 3.4 | 103 | | 18 F | 0613 | 3.5 | 107 |
| | 1702 | -0.1 | -2 | | | 1705 | 0.1 | 4 | | | 1808 | 0.4 | 12 | | | 1801 | 0.4 | 12 | | | 1704 | 0.8 | 25 | | | 1647 | 1.0 | 29 |
| 4 Tu | 0706 | 4.1 | 126 | | 19 W | 0626 | 4.1 | 126 | | 4 F | 0853 | 3.3 | 102 | | 19 Sa | 0143 | 2.9 | 89 | | 4 F | 0053 | 2.7 | 81 | | 19 Sa | 0037 | 2.9 | 89 |
| | 1745 | -0.1 | -2 | | | 1745 | 0.0 | 0 | | | 1842 | 0.6 | 18 | | | 0405 | 2.5 | 76 | | | 0312 | 2.5 | 75 | | | 0318 | 2.5 | 75 |
| 5 W | 0755 | 4.0 | 123 | | 20 Th | 0717 | 4.0 | 122 | | 5 Sa | 0225 | 2.7 | 83 | | 20 Su | 0219 | 2.9 | 89 | | 5 Sa | 0120 | 2.8 | 84 | | 20 Su | 0112 | 3.0 | 90 |
| | 1826 | 0.0 | 1 | | | 1824 | 0.0 | 0 | | | 0443 | 2.4 | 72 | | | 0526 | 2.2 | 66 | | | 0416 | 2.3 | 69 | | | 0439 | 2.1 | 63 |
| 6 Th | 0839 | 3.9 | 118 | | 21 F | 0812 | 3.8 | 116 | | 6 Su | 0255 | 2.8 | 85 | | 21 M | 0255 | 2.9 | 89 | | 6 Su | 0151 | 2.9 | 87 | | 21 M | 0149 | 3.0 | 90 |
| | 1904 | 0.2 | 6 | | | 1902 | 0.1 | 3 | | | 0542 | 2.3 | 69 | | | 0635 | 1.8 | 56 | | | 0517 | 2.1 | 64 | | | 0546 | 1.6 | 50 |
| 7 F | 0918 | 3.7 | 113 | | 22 Sa | 0242 | 3.1 | 94 | | 7 M | 0325 | 2.8 | 86 | | 22 Tu | 0330 | 2.9 | 88 | | 7 M | 0222 | 2.9 | 88 | | 22 Tu | 0145 | 3.3 | 102 |
| | 1938 | 0.4 | 12 | | | 0450 | 2.7 | 81 | | | 0644 | 2.1 | 65 | | | 0734 | 1.5 | 45 | | | 0612 | 1.9 | 58 | | | 1457 | 2.6 | 78 |
| 8 Sa | 0959 | 3.5 | 107 | | 23 Su | 0320 | 3.1 | 93 | | 8 Tu | 0352 | 2.8 | 86 | | 23 W | 0201 | 2.2 | 67 | | 8 Tu | 0251 | 2.9 | 88 | | 23 W | 0734 | 0.9 | 27 |
| | 2008 | 0.6 | 18 | | | 0604 | 2.5 | 75 | | | 0742 | 2.0 | 60 | | | 0403 | 2.8 | 85 | | | 0701 | 1.7 | 53 | | | 1539 | 3.3 | 101 |
| 9 Su | 0353 | 2.9 | 88 | | 24 M | 0357 | 3.0 | 91 | | 9 W | 0414 | 2.8 | 85 | | 24 Th | 0008 | 3.2 | 99 | | 9 W | 0746 | 1.6 | 48 | | 24 Th | 0824 | 0.7 | 20 |
| | 0616 | 2.5 | 77 | | | 0721 | 2.2 | 66 | | | 0836 | 1.8 | 54 | | | 0926 | 0.9 | 26 | | | 1537 | 3.0 | 90 | | | 2315 | 4.2 | 128 |
| | 1042 | 3.3 | 100 | | | 1103 | 2.8 | 85 | | | 1219 | 2.3 | 71 | | | 1638 | 2.6 | 79 | | | 1836 | 2.2 | 68 | | | 2239 | 3.8 | 115 |
| | 2032 | 0.8 | 25 | | | 2022 | 1.0 | 31 | | | 1937 | 1.7 | 51 | | | 1901 | 2.1 | 63 | | | 2327 | 3.3 | 101 | | | 2144 | 2.8 | 85 |
| 10 M | 0421 | 2.9 | 88 | | 25 Tu | 0433 | 2.9 | 88 | | 10 Th | 0059 | 3.0 | 91 | | 25 F | 0045 | 3.7 | 113 | | 10 Th | 0830 | 1.4 | 43 | | 25 F | 0914 | 0.5 | 16 |
| | 0721 | 2.4 | 73 | | | 0826 | 1.8 | 55 | | | 0928 | 1.6 | 48 | | | 1032 | 0.7 | 21 | | | 1612 | 3.0 | 90 | | | 2356 | 4.5 | 136 |
| | 1128 | 3.0 | 91 | | | 1200 | 2.4 | 72 | | | 1707 | 2.2 | 68 | | | | | | | | 1858 | 2.4 | 72 | | | | | |
| | 2041 | 1.1 | 33 | | | 2012 | 1.3 | 41 | | | 1959 | 1.9 | 57 | | | | | | | | 2355 | 3.6 | 111 | | | | | |
| 11 Tu | 0446 | 2.9 | 88 | | 26 W | 0505 | 2.8 | 85 | | 11 F | 0128 | 3.3 | 102 | | 26 Sa | 0125 | 4.0 | 122 | | 11 F | 0914 | 1.2 | 38 | | 26 Sa | 1008 | 0.6 | 17 |
| | 0835 | 2.2 | 68 | | | 0930 | 1.4 | 44 | | | 1025 | 1.4 | 42 | | | 1152 | 0.6 | 18 | | | 1653 | 2.9 | 88 | | | | | |
| | 1216 | 2.7 | 81 | | | 1257 | 1.9 | 58 | | | 1804 | 2.2 | 66 | | | | | | | | 1921 | 2.5 | 76 | | | | | |
| | 2025 | 1.3 | 40 | | | 2008 | 1.6 | 49 | | | 2018 | 2.0 | 62 | | | | | | | | | | | | | | | |
| 12 W | 0503 | 2.9 | 89 | | 27 Th | 0146 | 3.0 | 91 | | 12 Sa | 0201 | 3.6 | 111 | | 27 Su | 0210 | 4.1 | 126 | | 12 Sa | 0027 | 3.9 | 120 | | 27 Su | 0041 | 4.5 | 138 |
| | 0943 | 2.0 | 61 | | | 1048 | 1.1 | 34 | | | 1158 | 1.2 | 37 | | | 1313 | 0.6 | 17 | | | 1002 | 1.1 | 35 | | | 1112 | 0.7 | 21 |
| | 1303 | 2.3 | 69 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2037 | 1.5 | 46 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 Th | 0253 | 3.0 | 92 | | 28 F | 0223 | 3.4 | 105 | | 13 Su | 0240 | 3.9 | 119 | | 28 M | 0300 | 4.0 | 123 | | 13 Su | 0105 | 4.2 | 127 | | 28 M | 0129 | 4.4 | 134 |
| | 1058 | 1.7 | 53 | | | 1222 | 0.8 | 24 | | | 1400 | 1.0 | 29 | | | 1449 | 0.5 | 16 | | | 1105 | 1.0 | 32 | | | 1223 | 0.9 | 27 |
| | 1353 | 1.8 | 56 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2052 | 1.8 | 54 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 F | 0310 | 3.3 | 102 | | 29 Sa | 0305 | 3.8 | 115 | | 14 M | 0324 | 4.1 | 124 | | 14 M | 0149 | 4.3 | 130 | | 14 M | 0149 | 4.3 | 130 | | 29 Tu | 0219 | 4.1 | 125 |
| | 1319 | 1.4 | 43 | | | 1350 | 0.5 | 15 | | | 1518 | 0.7 | 20 | | | 1228 | 1.0 | 29 | | | 1228 | 1.0 | 29 | | | 1337 | 1.1 | 33 |
| 15 Sa | 0339 | 3.6 | 111 | | 30 Su | 0351 | 4.0 | 121 | | 15 Tu | 0414 | 4.1 | 125 | | 15 Tu | 0238 | 4.3 | 130 | | 15 Tu | 0238 | 4.3 | 130 | | 30 W | 0319 | 3.7 | 112 |
| | 1452 | 1.0 | 31 | | | 1515 | 0.3 | 8 | | | 1603 | 0.4 | 12 | | | 1406 | 0.9 | 26 | | | 1406 | 0.9 | 26 | | | 1452 | 1.2 | 38 |
| | | | | | 31 M | 0446 | 4.0 | 121 | | | | | | | | | | | | | | | | | 31 Th | 0545 | 3.3 | 102 |
| | | | | | | 1606 | 0.1 | 3 | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Time meridian 120° E. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to the chart datum of soundings.

Qinhuangdao, China, 2011

Times and Heights of High and Low Waters

| October | | | | November | | | | December | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|----------------|------|-----|----------|-----------------|------|------|----------|-----------------|----------------|---------------|------|-----------------|-----------------|-----------------|------|-----------------|-----------------|-----------------|----------------|------|------|-----------------|-----------------|-----------------|-----------------|------|-----|----------------|------|-----|-----|--|
| Time | Height | | | Time | Height | | | Time | Height | | | Time | Height | | | | | | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | | | | | |
| 1 Sa | 0316 | 4.3 | 131 | | 16 Su | 0301 | 4.2 | 128 | | 1 Tu | 1055 | 5.1 | 155 | | 16 W | 0402 | 3.8 | 116 | | 1 Th | 1120 | 4.0 | 122 | | 16 F | 0433 | 3.3 | 102 | | | | | |
| | 0533 | 3.7 | 112 | | | 0536 | 3.6 | 110 | | | 2121 | 0.8 | 23 | | | 0608 | 3.4 | 105 | | | 2134 | 0.9 | 26 | | | 0653 | 3.0 | 90 | | | | | |
| | 1020 | 4.9 | 150 | | | 1014 | 4.8 | 147 | | | 1032 | 4.6 | 141 | | | 1032 | 4.6 | 141 | | | 1301 | 3.1 | 94 | | | 1100 | 3.7 | 113 | | 1100 | 3.7 | 113 | |
| | 2000 | 1.4 | 42 | | | 2003 | 1.7 | 51 | | | 2102 | 1.0 | 29 | | | 2205 | 1.2 | 36 | | | 2230 | 1.5 | 47 | | | 2105 | 0.8 | 23 | | 2105 | 0.8 | 23 | |
| 2 Su | 1055 | 5.3 | 161 | | 17 M | 0336 | 4.2 | 127 | | 2 W | 1144 | 4.8 | 147 | | 17 Th | 1117 | 4.5 | 137 | | 2 F | 0523 | 3.1 | 93 | | 17 Sa | 0515 | 3.2 | 98 | | | | | |
| | 2050 | 1.2 | 37 | | | 0602 | 3.6 | 111 | | | 2207 | 1.0 | 31 | | | 2136 | 1.0 | 31 | | | 0727 | 2.9 | 87 | | | 0808 | 2.8 | 85 | | | | | |
| 3 M | 1136 | 5.5 | 168 | | | 1042 | 5.0 | 153 | | 3 Th | 1236 | 4.5 | 136 | | 18 F | 1210 | 4.2 | 128 | | 3 Sa | 0859 | 2.7 | 83 | | | 18 Su | 0934 | 2.5 | 76 | | | | |
| | 2142 | 1.2 | 37 | | | 1115 | 5.1 | 156 | | | 2255 | 1.3 | 41 | | | 2208 | 1.1 | 35 | | | 1301 | 3.1 | 94 | | | | 1300 | 2.9 | 88 | | | | |
| | 4 Tu | 1221 | 5.5 | 168 | | 2124 | 1.5 | 47 | | | 4 F | 1326 | 3.9 | 120 | | | 19 Sa | 0628 | 3.3 | | 101 | | 4 Su | 1048 | 2.5 | | 76 | | 19 M | 1056 | 2.1 | 64 | |
| 2240 | | 1.3 | 41 | | 1157 | 5.2 | 157 | | 2348 | 1.7 | | 52 | | 1310 | 3.8 | 115 | | | 1349 | 2.6 | 78 | | | 1405 | 2.3 | 71 | | | | | | | |
| 5 W | 1309 | 5.3 | 162 | | 20 Th | 1245 | 5.0 | 153 | | 5 Sa | 1421 | 3.4 | 104 | | 20 Su | 0717 | 3.1 | 96 | | 5 M | 0541 | 3.2 | 99 | | 20 Tu | 0355 | 3.0 | 91 | | | | | |
| | 2347 | 1.5 | 47 | | | 2256 | 1.6 | 49 | | | 1039 | 2.9 | 89 | | | 1039 | 2.9 | 89 | | | 1334 | 2.0 | 62 | | | 1250 | 1.6 | 48 | | | | | |
| 6 Th | 1400 | 4.9 | 150 | | 21 F | 1338 | 4.7 | 144 | | 6 Su | 0042 | 2.1 | 63 | | 21 M | 0752 | 3.0 | 92 | | 6 Tu | 0550 | 3.5 | 106 | | 21 W | 0427 | 3.4 | 103 | | | | | |
| | 7 F | 0055 | 1.8 | 54 | | | 2354 | 1.7 | 52 | | | 0707 | 3.2 | 98 | | | 1243 | 2.4 | 74 | | | 1451 | 1.6 | 48 | | | 1414 | 1.0 | 32 | | | | |
| 1506 | | 4.4 | 135 | | 22 Sa | 1438 | 4.3 | 131 | | 1333 | 2.8 | 84 | | 1605 | 2.7 | 82 | | 7 W | 0611 | 3.7 | 112 | | 22 Th | 0503 | 3.8 | 115 | | | | | | | |
| 8 Sa | | 0206 | 2.0 | 61 | | | 2359 | 3.3 | 101 | | 0131 | 2.4 | 73 | | 0009 | 2.1 | 65 | | | 1540 | 1.2 | 36 | | | 1535 | 0.5 | 16 | | | | | | |
| | 1718 | 4.0 | 122 | | | 0210 | 2.7 | 83 | | 0648 | 3.4 | 103 | | 0542 | 3.1 | 96 | | | 8 Th | 0636 | 3.9 | 118 | | | 23 F | 0541 | 4.1 | 124 | | | | | |
| 9 Su | 0306 | 2.2 | 67 | | 0706 | 3.6 | 110 | | 1444 | 2.3 | 70 | | 1737 | 2.3 | 69 | | 9 F | 0702 | | 4.0 | 123 | | 24 Sa | 0621 | | 4.3 | 130 | | | | | | |
| | 1111 | 3.6 | 109 | | 1544 | 1.9 | 57 | | 1957 | 2.1 | 64 | | 1957 | 2.1 | 64 | | | 1703 | 0.7 | 22 | | 1717 | | -0.2 | -5 | | | | | | | | |
| | 1428 | 3.2 | 98 | | 2359 | 3.3 | 101 | | 0604 | 3.5 | 107 | | 0604 | 3.5 | 107 | | | 10 Sa | 0729 | 4.1 | 126 | | | 25 Su | 0707 | 4.3 | 132 | | | | | | |
| 1847 | 3.7 | 113 | | 0238 | 3.0 | 91 | | 1526 | 1.2 | 38 | | 1526 | 1.2 | 38 | | 1743 | 0.6 | | 19 | | 1803 | -0.2 | -7 | | | | | | | | | | |
| 10 M | 0349 | 2.5 | 75 | | 0728 | 3.8 | 116 | | 11 F | 0104 | 3.7 | 113 | | 26 Sa | 0738 | 4.5 | 137 | | 11 Su | 0754 | 4.2 | 128 | | 26 M | 0756 | 4.3 | 130 | | | | | | |
| | 1140 | 3.6 | 111 | | 1630 | 1.5 | 47 | | | 0331 | 3.3 | 102 | | | 1809 | 0.1 | 3 | | | 1822 | 0.6 | 17 | | | 1846 | -0.1 | -4 | | | | | | |
| 11 Tu | 0012 | 3.8 | 116 | | 0238 | 3.0 | 91 | | 0750 | 4.0 | 123 | | 27 Su | 0813 | 4.7 | 143 | | 12 M | 0148 | 3.5 | 106 | | 27 Tu | 0846 | 4.1 | 125 | | | | | | | |
| | 0423 | 2.7 | 83 | | 1712 | 1.3 | 40 | | 1712 | 1.3 | 40 | | | 1855 | 0.0 | 1 | | | 0354 | 3.1 | 96 | | | 1926 | 0.1 | 2 | | | | | | | |
| 12 W | 0829 | 3.6 | 111 | | 0104 | 3.7 | 113 | | 12 Th | 0134 | 3.8 | 117 | | 28 M | 0854 | 4.7 | 144 | | 13 Tu | 0227 | 3.5 | 107 | | 28 W | 0935 | 3.9 | 118 | | | | | | |
| | 1632 | 2.5 | 75 | | 0331 | 3.3 | 102 | | | 0836 | 4.4 | 133 | | | 1939 | 0.1 | 3 | | | 0435 | 3.1 | 96 | | | 2002 | 0.3 | 9 | | | | | | |
| 13 Th | 0053 | 3.9 | 120 | | 0813 | 4.2 | 128 | | 13 Su | 0205 | 3.9 | 120 | | 29 Tu | 0939 | 4.6 | 140 | | 14 W | 0308 | 3.5 | 107 | | 29 Th | 1024 | 3.6 | 109 | | | | | | |
| | 0443 | 3.0 | 92 | | 1753 | 1.2 | 36 | | | 0858 | 4.5 | 137 | | | 2020 | 0.3 | 8 | | | 0517 | 3.1 | 95 | | | 2034 | 0.6 | 18 | | | | | | |
| 14 F | 0845 | 3.9 | 119 | | 0134 | 3.8 | 117 | | 0858 | 4.5 | 137 | | 30 W | 1028 | 4.4 | 133 | | 15 Th | 0601 | 3.1 | 93 | | 30 F | 0642 | 2.5 | 77 | | | | | | | |
| | 1719 | 2.2 | 67 | | 0836 | 4.4 | 133 | | 1912 | 1.0 | 32 | | | 2059 | 0.5 | 16 | | | 1010 | 4.0 | 121 | | | 1113 | 3.2 | 99 | | | | | | | |
| 15 Sa | 0128 | 4.0 | 123 | | 1833 | 1.1 | 33 | | 14 M | 0241 | 4.0 | 121 | | 31 M | 1028 | 4.4 | 133 | | 31 Sa | 0452 | 2.9 | 88 | | | | | | | | | | | |
| | 0439 | 3.3 | 100 | | 0802 | 4.0 | 121 | | | 0503 | 3.5 | 106 | | | 2041 | 0.6 | 19 | | | 0800 | 2.4 | 73 | | | | | | | | | | | |
| 16 Su | 0904 | 4.1 | 126 | | 1723 | 1.3 | 39 | | 0923 | 4.6 | 141 | | 31 M | 2035 | 0.6 | 18 | | 1202 | 2.9 | 88 | | | | | | | | | | | | | |
| | 1803 | 2.0 | 61 | | 0306 | 2.8 | 85 | | 1950 | 1.0 | 30 | | | 2112 | 1.2 | 36 | | 2112 | 1.2 | 36 | | | | | | | | | | | | | |
| 17 M | 0159 | 4.1 | 126 | | 0829 | 3.6 | 109 | | 0359 | 3.5 | 106 | | | | | | | | | | | | | | | | | | | | | | |
| | 0450 | 3.4 | 105 | | 1625 | 1.8 | 54 | | 0857 | 4.8 | 145 | | | | | | | | | | | | | | | | | | | | | | |

Time meridian 120° E. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to the chart datum of soundings.

Tanggu (Xingang), China, 2011

Times and Heights of High and Low Waters

| January | | | | February | | | | March | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Time | | Height | | Time | | Height | | Time | | Height | | Time | | Height | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 Sa | 0015 | 9.8 | 298 | | 16 Su | 0012 | 9.4 | 288 | | 1 Tu | 0251 | 10.2 | 310 | | 16 W | 0153 | 10.1 | 308 | | 1 Tu | 0132 | 9.8 | 298 | | 16 W | 0005 | 9.8 | 299 | | 17 Th | 0725 | 6.6 | 202 | | 17 Th | 0556 | 6.6 | 201 | | 18 F | 0209 | 10.8 | 328 | | 18 F | 0828 | 4.9 | 148 | | 19 Sa | 0919 | 4.9 | 150 | | 19 Sa | 0250 | 11.1 | 337 | | 20 Su | 1006 | 3.1 | 94 | | 20 Su | 1531 | 11.6 | 354 | | 21 M | 1616 | 11.8 | 360 | | 21 M | 0400 | 11.2 | 341 | | 22 Tu | 1132 | 2.0 | 62 | | 22 Tu | 1701 | 11.8 | 361 | | 23 W | 1213 | 1.7 | 53 | | 23 W | 1746 | 11.8 | 359 | | 24 Th | 0032 | 4.2 | 127 | | 24 Th | 0537 | 11.3 | 345 | | 25 F | 0612 | 11.3 | 345 | | 25 F | 1336 | 1.6 | 50 | | 26 Sa | 1422 | 2.0 | 60 | | 26 Sa | 2027 | 10.8 | 328 | | 27 Su | 0235 | 6.4 | 196 | | 27 Su | 0739 | 10.7 | 325 | | 28 M | 0853 | 9.9 | 303 | | 28 M | 1632 | 3.2 | 99 | | 29 Tu | 2318 | 10.0 | 305 | | 29 Tu | 0523 | 7.0 | 213 | | 30 W | 1039 | 9.4 | 288 | | 30 W | 1801 | 3.6 | 110 | | 31 Th | 0042 | 10.2 | 311 | | 31 Th | 0701 | 6.2 | 190 | | 1 Tu | 1230 | 9.6 | 294 | | 2 Su | 1923 | 3.5 | 108 | | 3 M | 0139 | 10.6 | 322 | | 4 Tu | 0803 | 5.2 | 160 | | 5 W | 1342 | 10.2 | 312 | | 6 Th | 2022 | 3.3 | 102 | | 7 F | 0228 | 10.2 | 312 | | 8 Sa | 0832 | 5.7 | 175 | | 9 Su | 1402 | 10.0 | 306 | | 10 M | 2055 | 2.4 | 72 | | 11 Tu | 0304 | 10.6 | 322 | | 12 W | 0918 | 4.9 | 150 | | 13 Th | 1452 | 10.6 | 322 | | 14 Tu | 2140 | 2.2 | 68 | | 15 W | 0332 | 10.8 | 328 | | 16 Th | 0955 | 4.3 | 132 | | 17 Fr | 1529 | 10.9 | 332 | | 18 Sa | 2216 | 2.3 | 71 | | 19 Su | 0358 | 10.9 | 331 | | 20 Su | 1027 | 3.9 | 120 | | 21 M | 1558 | 11.0 | 336 | | 22 Tu | 2247 | 2.6 | 78 | | 23 W | 0423 | 11.0 | 334 | | 24 Th | 1056 | 3.7 | 112 | | 25 F | 1625 | 11.1 | 339 | | 26 Sa | 2313 | 2.9 | 87 | | 27 Su | 0447 | 11.1 | 337 | | 28 M | 1124 | 3.4 | 104 | | 29 Tu | 1653 | 11.2 | 342 | | 30 W | 2338 | 3.1 | 96 | | 31 Th | 0510 | 11.2 | 340 | | 1 Tu | 1153 | 3.1 | 95 | | 2 Su | 1725 | 11.4 | 346 | | 3 M | 0003 | 3.5 | 106 | | 4 Tu | 0531 | 11.3 | 343 | | 5 W | 1222 | 2.8 | 85 | | 6 Th | 1800 | 11.4 | 348 | | 7 F | 0031 | 3.9 | 119 | | 8 Sa | 0554 | 11.3 | 345 | | 9 Su | 1253 | 2.5 | 77 | | 10 M | 1837 | 11.4 | 347 | | 11 Tu | 0101 | 4.4 | 133 | | 12 W | 0620 | 11.4 | 346 | | 13 Th | 1326 | 2.4 | 74 | | 14 Tu | 1918 | 11.2 | 340 | | 15 W | 0134 | 4.9 | 150 | | 16 Th | 0650 | 11.3 | 343 | | 17 Fr | 1403 | 2.5 | 77 | | 18 Sa | 2004 | 10.7 | 327 | | 19 Su | 0212 | 5.5 | 169 | | 20 Su | 0726 | 10.9 | 333 | | 21 M | 1447 | 2.8 | 85 | | 22 Tu | 2104 | 10.2 | 310 | | 23 W | 0300 | 6.2 | 189 | | 24 Th | 0812 | 10.4 | 316 | | 25 F | 1546 | 3.1 | 96 | | 26 Sa | 2227 | 9.7 | 297 | | 27 Su | 0412 | 6.7 | 203 | | 28 M | 0925 | 9.7 | 297 | | 29 Tu | 1708 | 3.3 | 102 | | 30 W | 0047 | 9.6 | 292 | | 31 Th | 0622 | 6.6 | 200 | | 1 Tu | 1141 | 9.6 | 294 | | 2 Su | 1913 | 2.8 | 84 | | 3 M | 0451 | 10.8 | 330 | | 4 Tu | 1120 | 4.4 | 133 | | 5 W | 1639 | 10.8 | 330 | | 6 Th | 2340 | 2.1 | 65 | | 7 F | 0518 | 11.0 | 334 | | 8 Sa | 1149 | 4.0 | 123 | | 9 Su | 1710 | 10.9 | 332 | | 10 M | 0005 | 2.4 | 73 | | 11 Tu | 0546 | 11.1 | 339 | | 12 W | 1219 | 3.6 | 111 | | 13 Th | 1743 | 10.9 | 332 | | 14 Tu | 0016 | 2.1 | 64 | | 15 W | 0541 | 11.1 | 338 | | 16 Th | 1236 | 2.2 | 68 | | 17 Fr | 1759 | 11.3 | 344 | | 18 Sa | 0054 | 2.8 | 85 | | 19 Su | 0614 | 11.2 | 340 | | 20 Su | 1317 | 1.8 | 56 | | 21 M | 1847 | 11.1 | 339 | | 22 Tu | 0131 | 3.6 | 110 | | 23 W | 0648 | 11.2 | 341 | | 24 Th | 1359 | 1.7 | 52 | | 25 F | 1940 | 10.7 | 327 | | 26 Sa | 0210 | 4.6 | 139 | | 27 Su | 0726 | 11.0 | 336 | | 28 M | 1446 | 1.9 | 57 | | 29 Tu | 2043 | 10.2 | 310 | | 30 W | 0256 | 5.6 | 170 | | 31 Th | 0810 | 10.6 | 323 | | 1 Tu | 1544 | 2.3 | 70 | | 2 Su | 2206 | 9.6 | 293 | | 3 M | 0400 | 6.5 | 199 | | 4 Tu | 0914 | 9.9 | 303 | | 5 W | 1701 | 2.8 | 85 | | 6 Th | 2355 | 9.4 | 287 | | 7 F | 0538 | 7.0 | 214 | | 8 Sa | 1050 | 9.4 | 286 | | 9 Su | 1833 | 3.0 | 90 | | 10 M | 0334 | 5.9 | 180 | | 11 Tu | 0858 | 10.2 | 310 | | 12 W | 1630 | 3.1 | 96 | | 13 Th | 2317 | 9.3 | 284 | | 14 Tu | 0448 | 6.5 | 197 | | 15 W | 1011 | 9.7 | 297 | | 16 Th | 1750 | 3.1 | 96 | | 17 Fr | 0203 | 4.3 | 132 | | 18 Sa | 0735 | 11.0 | 335 | | 19 Su | 1440 | 2.8 | 84 | | 20 Su | 2036 | 10.0 | 304 | | 21 M | 0243 | 5.1 | 156 | | 22 Tu | 0810 | 10.7 | 325 | | 23 W | 1527 | 2.9 | 89 | | 24 Th | 2146 | 9.5 | 290 | | 25 F | 0325 | 4.6 | 140 | | 26 Sa | 0855 | 10.7 | 325 | | 27 Su | 1613 | 2.1 | 65 | | 28 M | 2226 | 9.4 | 288 | | 29 Tu | 0427 | 5.7 | 173 | | 30 W | 0953 | 10.2 | 310 | | 31 Th | 1726 | 2.3 | 71 | | 1 Tu | 0007 | 9.3 | 284 | | 2 Su | 0551 | 6.5 | 198 | | 3 M | 1108 | 9.7 | 296 | | 4 Tu | 1850 | 2.3 | 71 | | 5 W | 0145 | 9.7 | 295 | | 6 Th | 0729 | 6.6 | 202 | | 7 F | 1239 | 9.6 | 294 | | 8 Sa | 2009 | 2.0 | 62 | | 9 Su | 0427 | 10.9 | 331 | | 10 M | 0907 | 5.6 | 172 | | 11 Tu | 1413 | 10.5 | 319 | | 12 W | 2140 | 1.3 | 40 | | 13 Th | 0306 | 10.9 | 331 | | 14 Tu | 0907 | 5.6 | 172 | | 15 W | 1413 | 10.5 | 319 | | 16 Th | 2140 | 1.3 | 40 | | 17 Fr | 0348 | 11.1 | 339 | | 18 Sa | 0958 | 5.3 | 161 | | 19 Su | 1500 | 10.7 | 326 | | 20 Su | 2228 | 1.0 | 30 | | 21 M | 0427 | 11.2 | 341 | | 22 Tu | 1046 | 4.9 | 149 | | 23 W | 1546 | 10.8 | 330 | | 24 Th | 2313 | 0.9 | 27 | | 25 F | 0503 | 11.2 | 340 | | 26 Sa | 1132 | 4.4 | 135 | | 27 Su | 1632 | 10.9 | 332 | | 28 M | 2355 | 1.0 | 31 | | 29 Tu | 0539 | 11.1 | 339 | | 30 W | 1215 | 3.9 | 118 | | 31 Th | 1720 | 10.9 | 333 | | 1 Tu | 0035 | 1.3 | 41 | | 2 Su | 0614 | 11.1 | 339 | | 3 M | 1257 | 3.2 | 98 | | 4 Tu | 1809 | 10.9 | 331 | | 5 W | 0114 | 1.9 | 57 | | 6 Th | 0649 | 11.2 | 340 | | 7 F | 1340 | 2.6 | 79 | | 8 Sa | 1901 | 10.7 | 327 | | 9 Su | 0128 | 3.6 | 110 | | 10 M | 0705 | 11.2 | 340 | | 11 Tu | 1400 | 2.8 | 84 | | 12 W | 1944 | 10.4 | 317 | | 13 Th | 0203 | 4.3 | 132 | | 14 Tu | 0735 | 11.0 | 335 | | 15 W | 1440 | 2.8 | 84 | | 16 Th | 2036 | 10.0 | 304 | | 17 Fr | 0243 | 5.1 | 156 | | 18 Sa | 0810 | 10.7 | 325 | | 19 Su | 1527 | 2.9 | 89 | | 20 Su | 2146 | 9.5 | 290 | | 21 M | 0334 | 5.9 | 180 | | 22 Tu | 0858 | 10.2 | 310 | | 23 W | 1630 | 3.1 | 96 | | 24 Th | 2317 | 9.3 | 284 | | 25 F | 0448 | 6.5 | 197 | | 26 Sa | 1011 | 9.7 | 297 | | 27 Su | 1750 | 3.1 | 96 | | 28 M | 0047 | 9.6 | 292 | | 29 Tu | 0622 | 6.6 | 200 | | 30 W | 1141 | 9.6 | 294 | | 31 Th | 1913 | 2.8 | 84 | |

Time meridian 120° E. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to the chart datum of soundings.

Tanggu (Xingang), China, 2011

Times and Heights of High and Low Waters

| April | | | | May | | | | June | | | | | | | | | | | | | | | |
|-----------------|--------|------|------|-----------------|------|------|--------|-----------------|------|--------|-----|-----------------|--------|------|-----|-----------------|------|------|-----|-----------------|------|------|-----|
| Time | Height | | Time | Height | | Time | Height | | Time | Height | | Time | Height | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | |
| 1 F | 0220 | 10.9 | 332 | 16 Sa | 0123 | 11.2 | 340 | 1 Su | 0208 | 11.5 | 349 | 16 M | 0121 | 11.7 | 358 | 1 W | 0224 | 11.7 | 358 | 16 Th | 0221 | 11.8 | 361 |
| | 0849 | 4.4 | 133 | | 0756 | 4.1 | 125 | | 0848 | 3.6 | 109 | | 0819 | 2.7 | 81 | | 0926 | 2.8 | 85 | | 0951 | 2.0 | 61 |
| | 1432 | 10.8 | 329 | | 1332 | 11.0 | 336 | | 1442 | 11.5 | 350 | | 1413 | 12.1 | 368 | | 1535 | 12.9 | 392 | | 1555 | 12.9 | 392 |
| | 2108 | 3.3 | 100 | | 2023 | 3.2 | 98 | | 2106 | 4.6 | 141 | | 2050 | 4.9 | 150 | | 2148 | 6.2 | 188 | | 2221 | 6.9 | 210 |
| 2 Sa | 0254 | 11.1 | 339 | 17 Su | 0206 | 11.4 | 347 | 2 M | 0240 | 11.5 | 351 | 17 Tu | 0204 | 11.7 | 358 | 2 Th | 0255 | 11.8 | 359 | 17 F | 0308 | 11.9 | 363 |
| | 0926 | 3.8 | 115 | | 0850 | 3.1 | 95 | | 0924 | 3.1 | 96 | | 0913 | 2.2 | 66 | | 1005 | 2.6 | 79 | | 1041 | 1.9 | 59 |
| | 1509 | 11.2 | 340 | | 1428 | 11.7 | 356 | | 1519 | 11.9 | 364 | | 1506 | 12.5 | 380 | | 1610 | 13.1 | 400 | | 1638 | 13.0 | 395 |
| | 2145 | 3.3 | 102 | | 2118 | 3.4 | 103 | | 2142 | 4.8 | 147 | | 2143 | 5.4 | 164 | | 2227 | 6.2 | 190 | | 2308 | 6.9 | 211 |
| 3 Su | 0323 | 11.2 | 342 | 18 M | 0244 | 11.5 | 350 | 3 Tu | 0308 | 11.5 | 351 | 18 W | 0244 | 11.7 | 356 | 3 F | 0326 | 11.8 | 361 | 18 Sa | 0354 | 12.0 | 365 |
| | 0958 | 3.4 | 104 | | 0938 | 2.4 | 74 | | 0957 | 2.9 | 87 | | 1004 | 1.9 | 58 | | 1044 | 2.5 | 77 | | 1126 | 2.0 | 62 |
| | 1540 | 11.4 | 348 | | 1517 | 12.1 | 369 | | 1552 | 12.3 | 374 | | 1556 | 12.7 | 386 | | 1645 | 13.2 | 403 | | 1717 | 13.0 | 397 |
| | 2216 | 3.6 | 109 | | 2206 | 3.8 | 115 | | 2215 | 5.1 | 155 | | 2232 | 5.8 | 178 | | 2305 | 6.3 | 193 | | 2350 | 6.8 | 207 |
| 4 M | 0349 | 11.3 | 343 | 19 Tu | 0320 | 11.5 | 349 | 4 W | 0332 | 11.5 | 351 | 19 Th | 0323 | 11.7 | 356 | 4 Sa | 0358 | 11.9 | 362 | 19 Su | 0440 | 12.1 | 369 |
| | 1028 | 3.2 | 97 | | 1024 | 2.0 | 61 | | 1030 | 2.7 | 82 | | 1052 | 1.8 | 55 | | 1122 | 2.5 | 75 | | 1207 | 2.2 | 68 |
| | 1608 | 11.6 | 354 | | 1604 | 12.3 | 375 | | 1624 | 12.5 | 382 | | 1642 | 12.7 | 387 | | 1720 | 13.2 | 402 | | 1755 | 13.1 | 399 |
| | 2244 | 3.9 | 119 | | 2251 | 4.3 | 132 | | 2248 | 5.3 | 163 | | 2317 | 6.3 | 191 | | 2343 | 6.4 | 195 | | | | |
| 5 Tu | 0411 | 11.3 | 343 | 20 W | 0354 | 11.4 | 348 | 5 Th | 0355 | 11.5 | 351 | 20 F | 0402 | 11.7 | 357 | 5 Su | 0433 | 11.9 | 362 | 20 M | 0029 | 6.5 | 198 |
| | 1057 | 3.0 | 90 | | 1109 | 1.8 | 54 | | 1103 | 2.6 | 78 | | 1137 | 1.8 | 54 | | 1200 | 2.4 | 74 | | 0527 | 12.2 | 371 |
| | 1638 | 11.8 | 361 | | 1649 | 12.3 | 376 | | 1658 | 12.7 | 387 | | 1727 | 12.7 | 387 | | 1758 | 13.1 | 399 | | 1245 | 2.6 | 78 |
| | 2312 | 4.2 | 129 | | 2333 | 5.0 | 151 | | 2321 | 5.6 | 171 | | 2359 | 6.6 | 200 | | | | | | 1834 | 13.1 | 400 |
| 6 W | 0431 | 11.3 | 344 | 21 Th | 0428 | 11.5 | 349 | 6 F | 0420 | 11.6 | 353 | 21 Sa | 0445 | 11.8 | 359 | 6 M | 0023 | 6.4 | 195 | 21 Tu | 0108 | 6.1 | 186 |
| | 1127 | 2.7 | 83 | | 1152 | 1.6 | 50 | | 1136 | 2.5 | 76 | | 1220 | 1.9 | 57 | | 0512 | 11.9 | 363 | | 0614 | 12.1 | 369 |
| | 1710 | 12.0 | 366 | | 1735 | 12.3 | 375 | | 1732 | 12.7 | 388 | | 1812 | 12.7 | 386 | | 1239 | 2.4 | 74 | | 1321 | 3.0 | 91 |
| | 2340 | 4.6 | 139 | | | | | | 2354 | 5.8 | 178 | | | | | | 1836 | 12.9 | 394 | | 1914 | 13.1 | 399 |
| 7 Th | 0452 | 11.4 | 347 | 22 F | 0012 | 5.6 | 170 | 7 Sa | 0449 | 11.6 | 355 | 22 Su | 0041 | 6.6 | 202 | 7 Tu | 0105 | 6.3 | 192 | 22 W | 0148 | 5.7 | 175 |
| | 1157 | 2.5 | 77 | | 0504 | 11.5 | 352 | | 1210 | 2.5 | 75 | | 0532 | 11.8 | 360 | | 0557 | 11.8 | 361 | | 0703 | 11.9 | 362 |
| | 1744 | 12.1 | 369 | | 1234 | 1.6 | 50 | | 1809 | 12.7 | 386 | | 1302 | 2.1 | 64 | | 1319 | 2.5 | 77 | | 1359 | 3.5 | 107 |
| | | | | | 1823 | 12.1 | 370 | | | | | | 1857 | 12.6 | 384 | | 1918 | 12.8 | 390 | | 1956 | 13.0 | 395 |
| 8 F | 0010 | 4.9 | 150 | 23 Sa | 0052 | 6.1 | 185 | 8 Su | 0029 | 6.1 | 185 | 23 M | 0124 | 6.6 | 200 | 8 W | 0151 | 6.0 | 182 | 23 Th | 0232 | 5.4 | 166 |
| | 0516 | 11.5 | 350 | | 0545 | 11.5 | 352 | | 0522 | 11.6 | 355 | | 0624 | 11.7 | 356 | | 0649 | 11.7 | 357 | | 0757 | 11.5 | 351 |
| | 1228 | 2.4 | 73 | | 1317 | 1.8 | 55 | | 1246 | 2.4 | 74 | | 1344 | 2.5 | 77 | | 1404 | 2.8 | 86 | | 1439 | 4.2 | 129 |
| | 1821 | 12.1 | 368 | | 1914 | 11.9 | 363 | | 1848 | 12.5 | 380 | | 1944 | 12.4 | 379 | | 2004 | 12.6 | 385 | | 2041 | 12.7 | 387 |
| 9 Sa | 0041 | 5.3 | 161 | 24 Su | 0134 | 6.5 | 197 | 9 M | 0107 | 6.3 | 191 | 24 Tu | 0211 | 6.4 | 194 | 9 Th | 0242 | 5.5 | 168 | 24 F | 0321 | 5.2 | 158 |
| | 0545 | 11.5 | 351 | | 0631 | 11.4 | 346 | | 0601 | 11.6 | 353 | | 0721 | 11.4 | 347 | | 0748 | 11.5 | 349 | | 0859 | 11.1 | 339 |
| | 1300 | 2.4 | 72 | | 1403 | 2.2 | 67 | | 1325 | 2.5 | 76 | | 1429 | 3.1 | 96 | | 1453 | 3.3 | 101 | | 1524 | 5.1 | 155 |
| | 1900 | 11.9 | 362 | | 2009 | 11.6 | 353 | | 1933 | 12.2 | 371 | | 2035 | 12.2 | 372 | | 2053 | 12.5 | 380 | | 2128 | 12.3 | 376 |
| 10 Su | 0115 | 5.7 | 173 | 25 M | 0224 | 6.7 | 204 | 10 Tu | 0151 | 6.4 | 194 | 25 W | 0306 | 6.1 | 187 | 10 F | 0338 | 4.9 | 149 | 25 Sa | 0416 | 5.0 | 151 |
| | 0618 | 11.4 | 348 | | 0728 | 10.9 | 333 | | 0649 | 11.4 | 346 | | 0826 | 10.9 | 333 | | 0859 | 11.2 | 342 | | 1013 | 10.9 | 331 |
| | 1337 | 2.5 | 75 | | 1455 | 2.9 | 87 | | 1411 | 2.7 | 82 | | 1520 | 3.9 | 118 | | 1550 | 4.0 | 123 | | 1619 | 6.0 | 183 |
| | 1945 | 11.5 | 350 | | 2111 | 11.2 | 341 | | 2025 | 11.8 | 361 | | 2131 | 11.9 | 363 | | 2147 | 12.3 | 375 | | 2219 | 12.0 | 365 |
| 11 M | 0155 | 6.1 | 186 | 26 Tu | 0332 | 6.8 | 206 | 11 W | 0246 | 6.3 | 193 | 26 Th | 0409 | 5.8 | 178 | 11 Sa | 0440 | 4.2 | 129 | 26 Su | 0515 | 4.7 | 142 |
| | 0658 | 11.1 | 339 | | 0844 | 10.3 | 314 | | 0748 | 10.9 | 333 | | 0941 | 10.5 | 320 | | 1021 | 11.2 | 340 | | 1134 | 10.9 | 333 |
| | 1422 | 2.7 | 83 | | 1558 | 3.6 | 109 | | 1506 | 3.1 | 93 | | 1618 | 4.6 | 141 | | 1655 | 4.8 | 147 | | 1724 | 6.8 | 206 |
| | 2041 | 11.0 | 335 | | 2223 | 10.9 | 333 | | 2125 | 11.6 | 353 | | 2232 | 11.7 | 356 | | 2244 | 12.1 | 370 | | 2313 | 11.7 | 358 |
| 12 Tu | 0246 | 6.5 | 197 | 27 W | 0451 | 6.5 | 197 | 12 Th | 0355 | 6.0 | 182 | 27 F | 0514 | 5.4 | 165 | 12 Su | 0545 | 3.6 | 109 | 27 M | 0615 | 4.3 | 130 |
| | 0751 | 10.6 | 323 | | 1016 | 9.9 | 301 | | 0904 | 10.5 | 321 | | 1103 | 10.4 | 316 | | 1146 | 11.4 | 346 | | 1247 | 11.4 | 347 |
| | 1520 | 3.1 | 94 | | 1712 | 4.2 | 128 | | 1612 | 3.5 | 108 | | 1722 | 5.2 | 160 | | 1806 | 5.5 | 169 | | 1835 | 7.2 | 220 |
| | 2153 | 10.6 | 323 | | 2339 | 10.9 | 332 | | 2230 | 11.5 | 350 | | 2335 | 11.6 | 353 | | 2343 | 12.0 | 366 | | | | |
| 13 W | 0401 | 6.6 | 202 | 28 Th | 0612 | 5.8 | 177 | 13 F | 0510 | 5.3 | 161 | 28 Sa | 0617 | 4.9 | 148 | 13 M | 0650 | 3.0 | 92 | 28 Tu | 0008 | 11.6 | 355 |
| | 0908 | 10.0 | 305 | | 1152 | 9.9 | 303 | | 1036 | 10.5 | 319 | | 1221 | 10.7 | 325 | | 1301 | 11.8 | 360 | | 0714 | 3.8 | 116 |
| | 1636 | 3.4 | 103 | | 1829 | 4.5 | 136 | | 1726 | 4.0 | 121 | | 1831 | 5.7 | 173 | | 1921 | 6.1 | 186 | | 1347 | 12.0 | 366 |
| | 2317 | 10.5 | 321 | | | | | | 2335 | 11.5 | 351 | | | | | | | | | | 1942 | 7.3 | 223 |
| 14 Th | 0535 | 6.2 | 188 | 29 F | 0040 | 11.1 | 338 | 14 Sa | 0618 | 4.3 | 132 | 29 Su | 0029 | 11.6 | 353 | 14 Tu | 0040 | 11.9 | 363 | 29 W | 0059 | 11.7 | 357 |
| | 1051 | 9.8 | 300 | | 0718 | 5.0 | 151 | | 1204 | 10.9 | 332 | | 0714 | 4.2 | 128 | | 0755 | 2.6 | 78 | | 0809 | 3.3 | 102 |
| | 1800 | 3.4 | 105 | | 1305 | 10.4 | 317 | | 1841 | 4.3 | 131 | | 1323 | 11.2 | 342 | | 1406 | 12.3 | 374 | | 1435 | 12.6 | 385 |
| | | | | | 1934 | 4.5 | 138 | | | | | | 1933 | 5.9 | 180 | | 2029 | 6.5 | 197 | | 2036 | 7.2 | 219 |
| 15 F | 0030 | 10.8 | 330 | 30 Sa | 0128 | 11.3 | 344 | 15 Su | 0032 | 11.6 | 355 | 30 M | 0113 | 11.6 | 354 | 15 W | 0132 | 11.9 | 362 | 30 Th | 0145 | 11.8 | 361 |
| | 0653 | 5.2 | 159 | | 0807 | 4.2 | 128 | | 0721 | 3.4 | 103 | | 0803 | 3.6 | 110 | | 0856 | 2.2 | 67 | | 0858 | 2.9 | 89 |
| | 1224 | 10.3 | 314 | | 1400 | 11.0 | 334 | | 1314 | 11.5 | 351 | | 1415 | 11.8 | 361 | | 1505 | 12.6 | 385 | | 1516 | 13.1 | 399 |
| | 1919 | 3.3 | | | | | | | | | | | | | | | | | | | | | |

Tanggu (Xingang), China, 2011

Times and Heights of High and Low Waters

| July | | | | August | | | | September | | | | | | | | | | | | | | | | | | | | | |
|--------------------|--------|------|-----|--------|-----------------|------|------|-----------|--------|-----------------|------|------|--------|----|-----------------|------|------|-----|----|-----------------|------|------|-----|--|-----------------|------|------|-----|--|
| Time | Height | | | Time | Height | | | Time | Height | | | Time | Height | | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | |
| 1 F ● | 0226 | 12.0 | 367 | | 16 Sa | 0310 | 12.1 | 370 | | 1 M | 0332 | 12.7 | 386 | | 16 Tu | 0427 | 12.6 | 385 | | 1 Th | 0448 | 13.2 | 403 | | 16 F | 0512 | 12.8 | 390 | |
| | 0944 | 2.6 | 80 | | | 1032 | 2.2 | 66 | | | 1051 | 2.2 | 67 | | | 1126 | 3.2 | 99 | | | 1150 | 3.2 | 99 | | | 1151 | 4.7 | 144 | |
| | 1554 | 13.4 | 407 | | | 1629 | 13.1 | 400 | | | 1643 | 13.5 | 412 | | | 1704 | 13.2 | 402 | | | 1713 | 13.3 | 404 | | | 1714 | 12.9 | 392 | |
| | 2208 | 6.7 | 205 | | | 2257 | 6.7 | 204 | | | 2315 | 5.6 | 172 | | | 2344 | 5.1 | 155 | | | | | | | | | | | |
| 2 Sa | 0305 | 12.2 | 371 | | 17 Su | 0356 | 12.3 | 375 | | 2 Tu | 0415 | 12.8 | 389 | | 17 W | 0459 | 12.7 | 386 | | 2 F | 0013 | 3.1 | 96 | | 17 Sa | 0011 | 3.6 | 111 | |
| | 1027 | 2.4 | 74 | | | 1113 | 2.4 | 72 | | | 1132 | 2.3 | 71 | | | 1155 | 3.7 | 112 | | | 0534 | 13.2 | 401 | | | 0546 | 12.8 | 391 | |
| | 1630 | 13.5 | 410 | | | 1701 | 13.2 | 402 | | | 1716 | 13.5 | 411 | | | 1731 | 13.3 | 404 | | | 1229 | 3.9 | 120 | | | 1218 | 5.2 | 158 | |
| | 2251 | 6.6 | 200 | | | 2335 | 6.3 | 192 | | | 2357 | 5.1 | 154 | | | | | | | | 1746 | 13.3 | 404 | | | 1737 | 12.9 | 394 | |
| 3 Su | 0344 | 12.2 | 373 | | 18 M | 0437 | 12.4 | 379 | | 3 W | 0500 | 12.8 | 390 | | 18 Th | 0014 | 4.8 | 145 | | 3 Sa | 0054 | 2.7 | 83 | | 18 Su | 0042 | 3.4 | 104 | |
| | 1109 | 2.3 | 71 | | | 1149 | 2.7 | 82 | | | 1212 | 2.7 | 81 | | | 0533 | 12.7 | 386 | | | 0622 | 13.0 | 396 | | | 0624 | 12.8 | 389 | |
| | 1706 | 13.5 | 410 | | | 1732 | 13.3 | 405 | | | 1749 | 13.5 | 410 | | | 1221 | 4.1 | 125 | | | 1308 | 4.8 | 145 | | | 1247 | 5.7 | 173 | |
| | 2333 | 6.4 | 194 | | | | | | | | | | | | | 1758 | 13.3 | 406 | | | 1821 | 13.2 | 403 | | | 1803 | 12.9 | 394 | |
| 4 M | 0424 | 12.3 | 375 | | 19 Tu | 0010 | 5.9 | 179 | | 4 Th | 0038 | 4.4 | 135 | | 19 F | 0045 | 4.4 | 134 | | 4 Su | 0137 | 2.5 | 76 | | 19 M | 0114 | 3.3 | 101 | |
| | 1149 | 2.3 | 70 | | | 0516 | 12.5 | 380 | | | 0546 | 12.8 | 390 | | | 0610 | 12.6 | 384 | | | 0714 | 12.6 | 385 | | | 0705 | 12.5 | 381 | |
| | 1742 | 13.4 | 407 | | | 1222 | 3.1 | 94 | | | 1251 | 3.2 | 98 | | | 1249 | 4.6 | 141 | | | 1347 | 5.7 | 173 | | | 1319 | 6.2 | 189 | |
| | | | | | | 1805 | 13.4 | 407 | | | 1823 | 13.5 | 410 | | | 1824 | 13.3 | 406 | | | 1859 | 13.1 | 398 | | | 1834 | 12.8 | 389 | |
| 5 Tu | 0015 | 6.1 | 185 | | 20 W | 0044 | 5.5 | 167 | | 5 F | 0119 | 3.8 | 115 | | 20 Sa | 0117 | 4.1 | 125 | | 5 M | 0223 | 2.6 | 78 | | 20 Tu | 0150 | 3.4 | 104 | |
| | 0507 | 12.3 | 375 | | | 0556 | 12.4 | 379 | | | 0636 | 12.7 | 387 | | | 0651 | 12.5 | 380 | | | 0815 | 12.1 | 369 | | | 0750 | 12.1 | 368 | |
| | 1229 | 2.4 | 74 | | | 1253 | 3.5 | 107 | | | 1330 | 3.9 | 120 | | | 1319 | 5.3 | 161 | | | 1433 | 6.7 | 204 | | | 1356 | 6.8 | 206 | |
| | 1818 | 13.3 | 405 | | | 1838 | 13.4 | 409 | | | 1859 | 13.4 | 409 | | | 1851 | 13.2 | 402 | | | 1943 | 12.6 | 384 | | | 1910 | 12.4 | 378 | |
| 6 W | 0057 | 5.6 | 170 | | 21 Th | 0118 | 5.1 | 155 | | 6 Sa | 0202 | 3.3 | 100 | | 21 Su | 0152 | 3.9 | 120 | | 6 Tu | 0318 | 2.9 | 89 | | 21 W | 0231 | 3.7 | 113 | |
| | 0554 | 12.3 | 375 | | | 0637 | 12.3 | 375 | | | 0729 | 12.5 | 380 | | | 0736 | 12.1 | 370 | | | 0934 | 11.5 | 351 | | | 0848 | 11.5 | 352 | |
| | 1309 | 2.7 | 83 | | | 1324 | 4.0 | 123 | | | 1411 | 4.8 | 147 | | | 1352 | 6.1 | 185 | | | 1534 | 7.7 | 234 | | | 1441 | 7.3 | 223 | |
| | 1855 | 13.3 | 404 | | | 1913 | 13.3 | 406 | | | 1937 | 13.3 | 405 | | | 1921 | 13.0 | 395 | | | 2043 | 11.9 | 363 | | | 1955 | 11.8 | 360 | |
| 7 Th | 0140 | 5.0 | 152 | | 22 F | 0155 | 4.8 | 146 | | 7 Su | 0249 | 3.0 | 92 | | 22 M | 0230 | 3.9 | 120 | | 7 W | 0428 | 3.4 | 104 | | 22 Th | 0325 | 4.1 | 125 | |
| | 0646 | 12.2 | 373 | | | 0723 | 12.0 | 367 | | | 0831 | 12.1 | 368 | | | 0830 | 11.7 | 357 | | | 1116 | 11.3 | 343 | | | 1004 | 11.2 | 340 | |
| | 1350 | 3.2 | 98 | | | 1357 | 4.8 | 145 | | | 1458 | 5.9 | 180 | | | 1430 | 6.9 | 211 | | | 1704 | 8.2 | 251 | | | 1546 | 7.7 | 236 | |
| | 1934 | 13.2 | 402 | | | 1947 | 13.1 | 400 | | | 2022 | 12.9 | 394 | | | 1955 | 12.5 | 382 | | | 2214 | 11.2 | 342 | | | 2105 | 11.2 | 340 | |
| 8 F ● | 0225 | 4.3 | 132 | | 23 Sa | 0234 | 4.6 | 139 | | 8 M | 0343 | 3.1 | 93 | | 23 Tu | 0316 | 4.1 | 126 | | 8 Th | 0554 | 3.7 | 112 | | 23 F | 0439 | 4.3 | 132 | |
| | 0742 | 12.0 | 367 | | | 0815 | 11.7 | 356 | | | 0949 | 11.6 | 354 | | | 0940 | 11.3 | 344 | | | 1252 | 11.5 | 352 | | | 1132 | 11.2 | 340 | |
| | 1435 | 4.0 | 121 | | | 1434 | 5.6 | 172 | | | 1557 | 7.1 | 215 | | | 1519 | 7.7 | 236 | | | 1850 | 7.9 | 240 | | | 1725 | 7.6 | 233 | |
| | 2017 | 13.1 | 399 | | | 2023 | 12.8 | 389 | | | 2117 | 12.4 | 377 | | | 2041 | 12.0 | 365 | | | | | | | | 2246 | 10.9 | 331 | |
| 9 Sa | 0315 | 3.8 | 116 | | 24 Su | 0319 | 4.5 | 136 | | 9 Tu | 0451 | 3.2 | 99 | | 24 W | 0415 | 4.4 | 134 | | 9 F | 0002 | 11.1 | 338 | | 24 Sa | 0604 | 4.2 | 127 | |
| | 0847 | 11.8 | 360 | | | 0921 | 11.3 | 344 | | | 1126 | 11.4 | 348 | | | 1107 | 11.1 | 339 | | | 0720 | 3.5 | 107 | | | 1245 | 11.6 | 353 | |
| | 1525 | 4.9 | 149 | | | 1519 | 6.7 | 203 | | | 1717 | 8.0 | 243 | | | 1631 | 8.3 | 254 | | | 1357 | 12.0 | 366 | | | 1853 | 6.9 | 209 | |
| | 2104 | 12.8 | 391 | | | 2104 | 12.3 | 375 | | | 2229 | 11.8 | 360 | | | 2154 | 11.5 | 349 | | | 2005 | 6.9 | 210 | | | | | | |
| 10 Su | 0411 | 3.4 | 105 | | 25 M | 0412 | 4.4 | 135 | | 10 W | 0611 | 3.3 | 101 | | 25 Th | 0531 | 4.4 | 135 | | 10 Sa | 0128 | 11.5 | 352 | | 25 Su | 0015 | 11.2 | 342 | |
| | 1005 | 11.5 | 352 | | | 1041 | 11.1 | 339 | | | 1304 | 11.7 | 357 | | | 1232 | 11.5 | 349 | | | 0825 | 3.2 | 98 | | | 0722 | 3.7 | 112 | |
| | 1625 | 6.0 | 182 | | | 1618 | 7.6 | 231 | | | 1856 | 8.2 | 250 | | | 1808 | 8.3 | 253 | | | 1440 | 12.4 | 378 | | | 1337 | 12.1 | 369 | |
| | 2159 | 12.5 | 380 | | | 2156 | 11.9 | 362 | | | 2358 | 11.5 | 351 | | | 2324 | 11.3 | 344 | | | 2056 | 5.9 | 180 | | | 1958 | 5.7 | 174 | |
| 11 M | 0515 | 3.2 | 98 | | 26 Tu | 0515 | 4.4 | 133 | | 11 Th | 0733 | 3.1 | 93 | | 26 F | 0651 | 4.1 | 125 | | 11 Su | 0227 | 12.1 | 368 | | 26 M | 0122 | 11.9 | 363 | |
| | 1133 | 11.5 | 351 | | | 1205 | 11.3 | 345 | | | 1420 | 12.3 | 374 | | | 1334 | 12.0 | 367 | | | 0915 | 3.1 | 93 | | | 0824 | 3.2 | 97 | |
| | 1738 | 6.9 | 210 | | | 1734 | 8.1 | 248 | | | 2017 | 7.7 | 235 | | | 1931 | 7.7 | 235 | | | 1512 | 12.6 | 385 | | | 1419 | 12.5 | 382 | |
| | 2301 | 12.1 | 369 | | | 2300 | 11.6 | 354 | | | | | | | | | | | | | 2137 | 5.2 | 157 | | | 2050 | 4.6 | 140 | |
| 12 Tu | 0627 | 3.0 | 92 | | 27 W | 0624 | 4.1 | 126 | | 12 F | 0122 | 11.7 | 356 | | 27 Sa | 0042 | 11.6 | 354 | | 12 M | 0309 | 12.4 | 379 | | 27 Tu | 0216 | 12.6 | 383 | |
| | 1258 | 11.8 | 360 | | | 1315 | 11.8 | 361 | | | 0841 | 2.7 | 82 | | | 0801 | 3.4 | 105 | | | 0956 | 3.1 | 96 | | | 0915 | 3.0 | 90 | |
| | 1902 | 7.4 | 227 | | | 1856 | 8.2 | 249 | | | 1507 | 12.7 | 388 | | | 1421 | 12.6 | 384 | | | 1540 | 12.7 | 388 | | | 1455 | 12.7 | 388 | |
| | | | | | | | | | | | 2116 | 7.0 | 213 | | | 2033 | 6.8 | 208 | | | 2213 | 4.7 | 142 | | | 2137 | 3.6 | 111 | |
| 13 W | 0010 | 11.8 | 361 | | 28 Th | 0009 | 11.6 | 353 | | 13 Sa | 0227 | 12.1 | 368 | | 28 Su | 0143 | 12.1 | 370 | | 13 Tu | 0343 | 12.6 | 384 | | 28 W | 0304 | 13.1 | 398 | |
| | 0741 | 2.7 | 83 | | | 0732 | 3.7 | 114 | | | 0934 | 2.5 | 75 | | | 0857 | 2.8 | 86 | | | 1030 | 3.5 | 106 | | | 1002 | 3.1 | 93 | |
| | 1413 | 12.3 | 375 | | | 1409 | 12.4 | 379 | | | 1541 | 13.0 | 395 | | | 1501 | 13.0 | 397 | | | 1606 | 12.7 | 388 | | | 1529 | 12.8 | 390 | |
| | 2020 | 7.5 | 230 | | | 2005 | 7.8 | 237 | | | 2201 | 6.3 | 192 | | | 2123 | 5.9 | 181 | | | 2244 | 4.4 | 134 | | | 2222 | 3.0 | 90 | |
| 14 Th | 0117 | 11.8 | 360 | | 29 F | 0111 | 11.8 | 361 | | 14 Su | 0315 | 12.4 | 378 | | 29 M | 0233 | 12.6 | 385 | | 14 W | 0412 | 12.7 | 386 | | 29 Th | 0350 | 13.3 | 405 | |
| | 0848 | 2.4 | 73 | | | 0832 | 3.2 | 97 | | | 1018 | 2.6 | 78 | | | 0945 | 2.5 | 75 | | | 1059 | 3.9 | 118 | | | 1045 | 3.4 | 105 | |
| | 1511 | 12.7 | 388 | | | 1453 | 13.0 | 395 | | | 1609 | 13.1 | 398 | | | 1537 | 13.3 | 404 | | | 1630 | 12.8 | 389 | | | 1602 | 12.8 | 389 | |
| | 2123 | 7.3 | 224 | | | 2100 | 7.2 | 220 | | | 2239 | 5.8 | 177 | | | 2208 | 5.1 | 156 | | | 2314 | 4.2 | 127 | | | 2 | | | |

Tanggu (Xingang), China, 2011

Times and Heights of High and Low Waters

| October | | | | November | | | | December | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|------|------|--------|----------|-----------------|------|------|----------|----|-----------------|------|------|--------|----|-----------------|------|------|-----|--|-----------------|------|------|-----|--|-----------------|------|------|-----|--|-----------------|------|------|-----|--|
| | Time | | Height | | | Time | | Height | | | Time | | Height | | | | | | | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | | | | | | | | | | | |
| 1 Sa | 0521 | 13.2 | 403 | | 16 Su | 0528 | 12.9 | 392 | | 1 Tu | 0055 | 1.6 | 49 | | 16 W | 0024 | 2.3 | 70 | | 1 Th | 0124 | 1.9 | 57 | | 16 F | 0052 | 1.8 | 56 | | | | | | |
| | 1207 | 4.8 | 145 | | | 1153 | 5.5 | 167 | | | 0648 | 12.2 | 373 | | | 0624 | 12.2 | 373 | | | 0719 | 11.6 | 354 | | | 0648 | 11.6 | 354 | | | | | | |
| | 1708 | 12.7 | 387 | | | 1657 | 12.3 | 374 | | | 1313 | 6.2 | 189 | | | 1243 | 5.6 | 171 | | | 1347 | 5.3 | 163 | | | 1901 | 10.7 | 327 | | 1318 | 4.7 | 142 | | |
| 2 Su | 0030 | 1.9 | 59 | | 17 M | 0012 | 2.8 | 85 | | 2 W | 0142 | 2.0 | 61 | | 17 Th | 0100 | 2.3 | 71 | | 2 F | 0208 | 2.5 | 75 | | 17 Sa | 0131 | 2.0 | 62 | | 17 Su | 0728 | 11.5 | 350 | |
| | 0609 | 13.0 | 395 | | | 0603 | 12.8 | 390 | | | 0743 | 11.8 | 361 | | | 0704 | 12.0 | 366 | | | 0808 | 11.4 | 347 | | | 0728 | 11.5 | 350 | | | | | | |
| | 1246 | 5.5 | 167 | | | 1224 | 5.7 | 175 | | | 1402 | 6.4 | 194 | | | 1324 | 5.6 | 170 | | | 1439 | 5.0 | 153 | | | 1404 | 4.2 | 129 | | | | | | |
| 3 M | 0113 | 2.0 | 60 | | 18 Tu | 0043 | 2.8 | 85 | | 3 Th | 0233 | 2.7 | 81 | | 18 F | 0141 | 2.5 | 76 | | 3 Sa | 0256 | 3.2 | 98 | | 18 Su | 0216 | 2.4 | 74 | | 18 Mo | 0812 | 11.4 | 347 | |
| | 0700 | 12.5 | 382 | | | 0641 | 12.6 | 383 | | | 0843 | 11.5 | 349 | | | 0750 | 11.7 | 356 | | | 0901 | 11.1 | 339 | | | 0812 | 11.4 | 347 | | | | | | |
| | 1327 | 6.2 | 190 | | | 1257 | 6.0 | 183 | | | 1504 | 6.4 | 194 | | | 1413 | 5.5 | 167 | | | 1538 | 4.7 | 144 | | | 1456 | 3.7 | 113 | | | | | | |
| 4 Tu | 0200 | 2.2 | 68 | | 19 W | 0118 | 2.9 | 88 | | 4 F | 0332 | 3.4 | 105 | | 19 Sa | 0230 | 2.8 | 86 | | 4 Su | 0351 | 4.0 | 122 | | 19 M | 0307 | 3.0 | 92 | | 19 Tu | 0901 | 11.2 | 342 | |
| | 0800 | 12.0 | 366 | | | 0723 | 12.2 | 372 | | | 0950 | 11.1 | 338 | | | 0843 | 11.4 | 348 | | | 0958 | 10.9 | 331 | | | 0901 | 11.2 | 342 | | | | | | |
| | 1415 | 6.9 | 210 | | | 1335 | 6.3 | 192 | | | 1619 | 6.1 | 185 | | | 1512 | 5.2 | 158 | | | 1642 | 4.4 | 133 | | | 1554 | 3.1 | 96 | | | | | | |
| 5 W | 0255 | 2.8 | 86 | | 20 Th | 0159 | 3.1 | 96 | | 5 Sa | 0443 | 4.2 | 127 | | 20 Su | 0329 | 3.3 | 100 | | 5 M | 0453 | 4.7 | 144 | | 20 Tu | 0406 | 3.8 | 116 | | 20 W | 0956 | 11.0 | 336 | |
| | 0912 | 11.5 | 349 | | | 0814 | 11.7 | 358 | | | 1104 | 11.0 | 334 | | | 0943 | 11.2 | 342 | | | 1100 | 10.7 | 325 | | | 0956 | 11.0 | 336 | | | | | | |
| | 1519 | 7.4 | 226 | | | 1421 | 6.5 | 199 | | | 1737 | 5.5 | 167 | | | 1622 | 4.6 | 141 | | | 1748 | 3.9 | 119 | | | 1658 | 2.6 | 80 | | | | | | |
| 6 Th | 0403 | 3.5 | 107 | | 21 F | 0251 | 3.5 | 106 | | 6 Su | 0600 | 4.6 | 140 | | 21 M | 0439 | 3.7 | 114 | | 6 Tu | 0001 | 9.8 | 298 | | 21 W | 0515 | 4.6 | 139 | | 21 Th | 1054 | 10.8 | 330 | |
| | 1041 | 11.1 | 339 | | | 0917 | 11.3 | 345 | | | 1209 | 11.0 | 336 | | | 1046 | 11.2 | 340 | | | 0603 | 5.2 | 160 | | | 1054 | 10.8 | 330 | | | | | | |
| | 1649 | 7.4 | 227 | | | 1524 | 6.6 | 202 | | | 1848 | 4.7 | 142 | | | 1733 | 3.8 | 115 | | | 1200 | 10.6 | 322 | | | 1806 | 2.2 | 66 | | | | | | |
| 7 F | 0526 | 4.0 | 123 | | 22 Sa | 0358 | 3.8 | 117 | | 7 M | 0046 | 10.5 | 320 | | 22 Tu | 0554 | 4.1 | 126 | | 7 W | 0109 | 10.2 | 311 | | 22 Th | 0019 | 10.2 | 311 | | 22 F | 0631 | 5.2 | 158 | |
| | 1206 | 11.2 | 342 | | | 1032 | 11.1 | 339 | | | 0711 | 4.7 | 143 | | | 1145 | 11.2 | 342 | | | 0712 | 5.5 | 168 | | | 0631 | 5.2 | 158 | | | | | | |
| | 1824 | 6.8 | 207 | | | 1650 | 6.3 | 192 | | | 1302 | 11.2 | 340 | | | 1839 | 2.9 | 87 | | | 1250 | 10.6 | 322 | | | 1154 | 10.7 | 325 | | | | | | |
| 8 Sa | 0651 | 4.1 | 125 | | 23 Su | 0518 | 4.0 | 121 | | 8 Tu | 0145 | 11.0 | 336 | | 23 W | 0039 | 11.0 | 334 | | 8 Th | 0204 | 10.7 | 327 | | 23 F | 0132 | 10.6 | 322 | | 23 Sa | 0747 | 5.5 | 169 | |
| | 1308 | 11.5 | 351 | | | 1144 | 11.3 | 344 | | | 0806 | 4.7 | 144 | | | 0707 | 4.4 | 134 | | | 0807 | 5.6 | 170 | | | 0747 | 5.5 | 169 | | | | | | |
| | 1935 | 5.7 | 174 | | | 1812 | 5.4 | 164 | | | 1345 | 11.3 | 344 | | | 1239 | 11.3 | 344 | | | 1332 | 10.6 | 324 | | | 1254 | 10.6 | 323 | | | | | | |
| 9 Su | 0116 | 11.2 | 341 | | 24 M | 0637 | 3.9 | 119 | | 9 W | 0231 | 11.5 | 350 | | 24 Th | 0142 | 11.5 | 352 | | 9 F | 0248 | 11.3 | 343 | | 24 Sa | 0236 | 10.9 | 332 | | 24 Su | 0853 | 5.7 | 174 | |
| | 0756 | 3.9 | 120 | | | 1243 | 11.6 | 354 | | | 0850 | 4.8 | 146 | | | 0813 | 4.6 | 141 | | | 0851 | 5.6 | 170 | | | 0853 | 5.7 | 174 | | | | | | |
| | 1355 | 11.8 | 360 | | | 1918 | 4.2 | 129 | | | 1420 | 11.3 | 345 | | | 1327 | 11.3 | 345 | | | 1408 | 10.7 | 326 | | | 1349 | 10.6 | 323 | | | | | | |
| 10 M | 0212 | 11.7 | 357 | | 25 Tu | 0101 | 11.5 | 352 | | 10 Th | 0308 | 11.9 | 362 | | 25 F | 0237 | 11.9 | 364 | | 10 Sa | 0325 | 11.6 | 354 | | 25 Su | 0331 | 11.1 | 339 | | 25 M | 0950 | 5.8 | 176 | |
| | 0846 | 3.9 | 118 | | | 0746 | 3.7 | 114 | | | 0927 | 5.0 | 151 | | | 0910 | 4.9 | 150 | | | 0930 | 5.5 | 168 | | | 0950 | 5.8 | 176 | | | | | | |
| | 1432 | 12.0 | 367 | | | 1329 | 11.9 | 363 | | | 1449 | 11.3 | 345 | | | 1411 | 11.3 | 344 | | | 1440 | 10.8 | 329 | | | 1440 | 10.6 | 324 | | | | | | |
| 11 Tu | 0253 | 12.1 | 369 | | 26 W | 0158 | 12.2 | 373 | | 11 F | 0341 | 12.2 | 371 | | 26 Sa | 0329 | 12.1 | 369 | | 11 Su | 0358 | 11.8 | 361 | | 26 M | 0417 | 11.2 | 341 | | 26 Tu | 1041 | 5.7 | 175 | |
| | 0926 | 3.9 | 120 | | | 0844 | 3.7 | 113 | | | 1000 | 5.2 | 157 | | | 1001 | 5.2 | 160 | | | 1007 | 5.4 | 166 | | | 1041 | 5.7 | 175 | | | | | | |
| | 1503 | 12.1 | 369 | | | 1410 | 12.0 | 367 | | | 1512 | 11.3 | 345 | | | 1452 | 11.3 | 343 | | | 1511 | 10.9 | 332 | | | 1530 | 10.7 | 326 | | | | | | |
| 12 W | 0326 | 12.3 | 376 | | 27 Th | 0249 | 12.7 | 388 | | 12 Sa | 0411 | 12.4 | 377 | | 27 Su | 0418 | 12.1 | 369 | | 12 M | 0430 | 11.9 | 363 | | 27 Tu | 0457 | 11.2 | 342 | | 27 W | 1125 | 5.5 | 168 | |
| | 1029 | 4.2 | 128 | | | 0934 | 3.9 | 120 | | | 1031 | 5.3 | 162 | | | 1050 | 5.6 | 170 | | | 1042 | 5.3 | 163 | | | 1125 | 5.5 | 168 | | | | | | |
| | 1530 | 12.1 | 368 | | | 1447 | 12.1 | 368 | | | 1535 | 11.4 | 347 | | | 1534 | 11.2 | 342 | | | 1543 | 11.0 | 334 | | | 1619 | 10.8 | 329 | | | | | | |
| 13 Th | 0356 | 12.5 | 381 | | 28 F | 0337 | 13.0 | 395 | | 13 Su | 0442 | 12.5 | 381 | | 28 M | 0504 | 12.0 | 366 | | 13 Tu | 0502 | 11.9 | 363 | | 28 W | 0535 | 11.2 | 342 | | 28 Th | 1206 | 5.2 | 158 | |
| | 1029 | 4.6 | 139 | | | 1021 | 4.4 | 133 | | | 1102 | 5.4 | 165 | | | 1135 | 5.8 | 176 | | | 1119 | 5.3 | 161 | | | 1206 | 5.2 | 158 | | | | | | |
| | 1552 | 12.0 | 367 | | | 1523 | 12.0 | 366 | | | 1601 | 11.5 | 349 | | | 1619 | 11.2 | 342 | | | 1616 | 11.0 | 334 | | | 1708 | 10.8 | 330 | | | | | | |
| 14 F | 0425 | 12.7 | 386 | | 29 Sa | 0423 | 13.0 | 395 | | 14 M | 0514 | 12.5 | 381 | | 29 Tu | 0549 | 11.9 | 362 | | 14 W | 0535 | 11.8 | 360 | | 29 Th | 0612 | 11.3 | 344 | | 29 F | 1244 | 4.7 | 144 | |
| | 1057 | 4.9 | 149 | | | 1106 | 4.9 | 150 | | | 1134 | 5.5 | 168 | | | 1218 | 5.8 | 177 | | | 1156 | 5.2 | 158 | | | 0612 | 11.3 | 344 | | | | | | |
| | 1611 | 12.1 | 368 | | | 1559 | 12.0 | 365 | | | 1630 | 11.5 | 351 | | | 1708 | 11.2 | 341 | | | 1652 | 11.0 | 334 | | | 1244 | 4.7 | 144 | | | | | | |
| 15 Sa | 0455 | 12.8 | 390 | | 30 Su | 0510 | 12.8 | 390 | | 15 Tu | 0548 | 12.4 | 379 | | 30 W | 0041 | 1.4 | 43 | | 15 Th | 0015 | 1.8 | 55 | | 30 F | 0104 | 1.9 | 58 | | 30 Sa | 0651 | 11.3 | 345 | |
| | 1124 | 5.2 | 159 | | | 1148 | 5.5 | 167 | | | 1207 | 5.6 | 170 | | | 0633 | 11.7 | 358 | | | 0610 | 11.7 | 357 | | | 1324 | 4.3 | 131 | | | | | | |
| | 1632 | 12.2 | 371 | | | 1637 | 11.9 | 364 | | | 1703 | 11.5 | 351 | | | 1301 | 5.6 | 171 | | | 1236 | 5.0 | 152 | | | 1844 | 10.6 | 324 | | | | | | |
| 31 M | 0010 | 1.4 | 43 | | 31 M | 0010 | 1.4 | 43 | | 31 M | 0558 | 12.5 | 382 | | 31 M | 1802 | 11.0 | 336 | | 31 < | | | | | | | | | | | | | | |

Yantai, China, 2011

Times and Heights of High and Low Waters

| January | | | | February | | | | March | | | | | | | | | | | | | | | |
|-----------------|--------|-----|------|-----------------|--------|------|--------|-----------------|--------|--------|-----|-----------------|--------|------|-----|-----------------|--------|-----|-----|-----------------|--------|-----|-----|
| Time | Height | | Time | Height | | Time | Height | | Time | Height | | Time | Height | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | |
| 1 Sa | 0107 | 1.5 | 46 | 16 Su | 0058 | 2.1 | 65 | 1 Tu | 0310 | 1.1 | 33 | 16 W | 0231 | 1.3 | 39 | 1 Tu | 0204 | 1.6 | 49 | 16 W | 0053 | 1.9 | 57 |
| | 0707 | 6.0 | 184 | | 0656 | 5.6 | 170 | | 0924 | 6.3 | 192 | | 0836 | 6.2 | 189 | | 0822 | 5.9 | 181 | | 0704 | 5.9 | 180 |
| | 1306 | 2.2 | 67 | | 1245 | 2.7 | 82 | | 1506 | 2.2 | 67 | | 1426 | 2.1 | 64 | | 1412 | 2.8 | 84 | | 1256 | 2.8 | 86 |
| | 1929 | 7.2 | 219 | | 1905 | 6.6 | 202 | | 2120 | 7.3 | 221 | | 2041 | 7.2 | 220 | | 2020 | 6.6 | 200 | | 1911 | 6.6 | 201 |
| 2 Su | 0214 | 1.2 | 38 | 17 M | 0202 | 1.7 | 52 | 2 W | 0350 | 0.9 | 26 | 17 Th | 0314 | 0.8 | 24 | 2 W | 0254 | 1.3 | 39 | 17 Th | 0157 | 1.3 | 41 |
| | 0822 | 6.2 | 190 | | 0802 | 5.9 | 180 | | 1003 | 6.6 | 202 | | 0923 | 6.7 | 204 | | 0910 | 6.4 | 195 | | 0805 | 6.5 | 197 |
| | 1411 | 2.2 | 67 | | 1351 | 2.5 | 75 | | 1544 | 1.9 | 57 | | 1512 | 1.5 | 47 | | 1458 | 2.3 | 70 | | 1404 | 2.1 | 65 |
| | 2031 | 7.4 | 226 | | 2008 | 7.1 | 215 | | 2159 | 7.5 | 229 | | 2128 | 7.7 | 235 | | 2107 | 7.0 | 213 | | 2015 | 7.1 | 217 |
| 3 M | 0310 | 1.0 | 30 | 18 Tu | 0254 | 1.2 | 38 | 3 Th | 0421 | 0.7 | 22 | 18 F | 0351 | 0.4 | 12 | 3 Th | 0329 | 1.0 | 32 | 18 F | 0241 | 0.9 | 26 |
| | 0922 | 6.5 | 199 | | 0858 | 6.3 | 192 | | 1034 | 6.9 | 209 | | 1003 | 7.2 | 218 | | 0944 | 6.8 | 206 | | 0853 | 7.1 | 216 |
| | 1504 | 2.1 | 64 | | 1443 | 2.1 | 64 | | 1617 | 1.6 | 49 | | 1552 | 1.0 | 32 | | 1532 | 1.9 | 57 | | 1451 | 1.5 | 45 |
| | 2121 | 7.7 | 234 | | 2100 | 7.5 | 229 | | ● 2233 | 7.7 | 235 | | ○ 2210 | 8.0 | 245 | | 2144 | 7.3 | 222 | | 2104 | 7.6 | 232 |
| 4 Tu | 0356 | 0.8 | 25 | 19 W | 0337 | 0.9 | 26 | 4 F | 0449 | 0.7 | 20 | 19 Sa | 0425 | 0.1 | 3 | 4 F | 0356 | 1.0 | 29 | 19 Sa | 0319 | 0.5 | 15 |
| | 1009 | 6.8 | 206 | | 0943 | 6.7 | 203 | | 1101 | 7.1 | 215 | | 1040 | 7.5 | 229 | | 1011 | 7.1 | 215 | | 0935 | 7.6 | 232 |
| | 1549 | 1.9 | 59 | | 1528 | 1.7 | 52 | | 1648 | 1.4 | 42 | | 1632 | 0.7 | 20 | | 1600 | 1.5 | 47 | | 1532 | 0.9 | 28 |
| | ● 2204 | 7.9 | 241 | | 2144 | 7.9 | 240 | | 2304 | 7.7 | 236 | | 2249 | 8.2 | 249 | | 2216 | 7.5 | 228 | | 2147 | 8.0 | 243 |
| 5 W | 0434 | 0.7 | 22 | 20 Th | 0415 | 0.5 | 16 | 5 Sa | 0517 | 0.6 | 19 | 20 Su | 0500 | 0.0 | -1 | 5 Sa | 0422 | 0.9 | 28 | 20 Su | 0355 | 0.3 | 9 |
| | 1047 | 6.9 | 211 | | 1023 | 7.0 | 212 | | 1129 | 7.2 | 220 | | 1117 | 7.8 | 238 | | 1036 | 7.3 | 222 | | 1013 | 8.0 | 245 |
| | 1628 | 1.8 | 54 | | 1609 | 1.3 | 41 | | 1719 | 1.2 | 37 | | 1712 | 0.4 | 13 | | 1628 | 1.3 | 39 | | 1612 | 0.5 | 16 |
| | 2242 | 8.0 | 244 | | ○ 2226 | 8.1 | 248 | | 2336 | 7.7 | 235 | | 2329 | 8.2 | 250 | | ● 2245 | 7.6 | 231 | | ○ 2227 | 8.1 | 248 |
| 6 Th | 0509 | 0.7 | 21 | 21 F | 0450 | 0.3 | 9 | 6 Su | 0545 | 0.6 | 19 | 21 M | 0536 | -0.1 | -2 | 6 Su | 0447 | 0.9 | 27 | 21 M | 0431 | 0.2 | 7 |
| | 1120 | 7.1 | 215 | | 1101 | 7.2 | 220 | | 1158 | 7.3 | 224 | | 1156 | 8.0 | 244 | | 1102 | 7.5 | 228 | | 1051 | 8.3 | 254 |
| | 1704 | 1.6 | 50 | | 1649 | 1.0 | 32 | | 1750 | 1.1 | 35 | | 1754 | 0.3 | 10 | | 1657 | 1.1 | 34 | | 1653 | 0.3 | 10 |
| | 2319 | 8.0 | 245 | | 2306 | 8.2 | 251 | | 0007 | 7.6 | 231 | | 0011 | 8.0 | 245 | | 0513 | 0.9 | 28 | | 0509 | 0.4 | 11 |
| 7 F | 0542 | 0.7 | 20 | 22 Sa | 0526 | 0.1 | 4 | 7 M | 0613 | 0.7 | 20 | 22 Tu | 0615 | 0.1 | 2 | 7 M | 1129 | 7.7 | 234 | 22 Tu | 1129 | 8.5 | 260 |
| | 1153 | 7.2 | 218 | | 1140 | 7.4 | 226 | | 1229 | 7.4 | 226 | | 1236 | 8.1 | 247 | | 1726 | 1.0 | 32 | | 1736 | 0.3 | 9 |
| | 1740 | 1.6 | 48 | | 1730 | 0.9 | 26 | | 1824 | 1.2 | 36 | | 1839 | 0.4 | 12 | | 2343 | 7.5 | 230 | | 2352 | 8.0 | 244 |
| | 2354 | 7.9 | 242 | | 2347 | 8.2 | 250 | | 0039 | 7.4 | 225 | | 0055 | 7.7 | 236 | | 0539 | 1.0 | 29 | | 0549 | 0.6 | 18 |
| 8 Sa | 0615 | 0.7 | 20 | 23 Su | 0603 | 0.0 | 0 | 8 Tu | 0641 | 0.8 | 23 | 23 W | 0655 | 0.4 | 12 | 8 Tu | 1158 | 7.8 | 237 | 23 W | 1210 | 8.6 | 261 |
| | 1226 | 7.2 | 220 | | 1220 | 7.6 | 231 | | 1301 | 7.4 | 226 | | 1317 | 8.0 | 245 | | 1758 | 1.0 | 32 | | 1822 | 0.4 | 13 |
| | 1815 | 1.5 | 47 | | 1813 | 0.8 | 23 | | 1859 | 1.2 | 38 | | 1928 | 0.6 | 19 | | 0013 | 7.4 | 227 | | 0038 | 7.7 | 236 |
| | 0030 | 7.7 | 235 | | 0030 | 8.0 | 245 | | 0112 | 7.1 | 217 | | 0143 | 7.3 | 223 | | 0607 | 1.0 | 32 | | 0631 | 1.0 | 31 |
| 9 Su | 0647 | 0.7 | 22 | 24 M | 0642 | 0.0 | 1 | 9 W | 0712 | 1.0 | 30 | 24 Th | 0739 | 1.0 | 29 | 9 W | 1227 | 7.8 | 239 | 24 Th | 1252 | 8.4 | 257 |
| | 1301 | 7.2 | 219 | | 1302 | 7.6 | 233 | | 1334 | 7.3 | 223 | | 1402 | 7.8 | 237 | | 1831 | 1.1 | 34 | | 1912 | 0.7 | 22 |
| | 1852 | 1.6 | 49 | | 1859 | 0.8 | 23 | | 1936 | 1.4 | 43 | | 2023 | 1.0 | 31 | | 0044 | 7.3 | 222 | | 0127 | 7.3 | 224 |
| | 0107 | 7.4 | 226 | | 0115 | 7.7 | 236 | | 0149 | 6.8 | 206 | | 0235 | 6.7 | 204 | | 0637 | 1.2 | 38 | | 0716 | 1.6 | 48 |
| 10 M | 0720 | 0.9 | 26 | 25 Tu | 0723 | 0.2 | 6 | 10 Th | 0745 | 1.3 | 41 | 25 F | 0829 | 1.7 | 51 | 10 Th | 1257 | 7.8 | 238 | 25 F | 1336 | 8.1 | 246 |
| | 1338 | 7.1 | 217 | | 1346 | 7.6 | 233 | | 1408 | 7.2 | 218 | | 1451 | 7.3 | 222 | | 1907 | 1.2 | 37 | | 2009 | 1.1 | 35 |
| | 1931 | 1.7 | 53 | | 1948 | 0.9 | 27 | | 2018 | 1.7 | 51 | | ● 2135 | 1.5 | 46 | | 0120 | 7.0 | 214 | | 0221 | 6.8 | 207 |
| | 0145 | 7.0 | 213 | | 0204 | 7.3 | 223 | | 0230 | 6.4 | 194 | | 0337 | 6.0 | 183 | | 0710 | 1.5 | 47 | | 0807 | 2.3 | 69 |
| 11 Tu | 0754 | 1.1 | 34 | 26 W | 0808 | 0.6 | 18 | 11 F | 0823 | 1.8 | 55 | 26 Sa | 0934 | 2.5 | 75 | 11 F | 1330 | 7.7 | 234 | 26 Sa | 1425 | 7.5 | 229 |
| | 1416 | 7.0 | 212 | | 1433 | 7.5 | 228 | | 1448 | 6.9 | 210 | | 1548 | 6.7 | 203 | | 1947 | 1.4 | 43 | | 2119 | 1.6 | 49 |
| | 2014 | 1.9 | 59 | | ● 2045 | 1.1 | 35 | | ● 2111 | 2.0 | 60 | | 2303 | 1.9 | 57 | | 0201 | 6.7 | 204 | | 0324 | 6.2 | 190 |
| | 0226 | 6.6 | 200 | | 0257 | 6.7 | 205 | | 0320 | 5.9 | 179 | | 0509 | 5.5 | 168 | | 0748 | 2.0 | 61 | | 0914 | 3.0 | 90 |
| 12 W | 0831 | 1.5 | 45 | 27 Th | 0859 | 1.2 | 37 | 12 Sa | 0912 | 2.4 | 72 | 27 Su | 1105 | 3.1 | 93 | 12 Sa | 1408 | 7.4 | 226 | 27 Su | 1522 | 6.8 | 208 |
| | 1457 | 6.8 | 206 | | 1524 | 7.2 | 218 | | 1536 | 6.6 | 201 | | 1712 | 6.1 | 187 | | 2035 | 1.7 | 53 | | 2238 | 2.0 | 60 |
| | ● 2105 | 2.2 | 66 | | 2156 | 1.5 | 46 | | 2228 | 2.2 | 68 | | 0047 | 1.9 | 58 | | 0250 | 6.2 | 189 | | 0453 | 5.8 | 178 |
| | 0313 | 6.1 | 186 | | 0358 | 6.1 | 186 | | 0426 | 5.4 | 166 | | 0655 | 5.5 | 168 | | 0835 | 2.5 | 76 | | 1044 | 3.4 | 104 |
| 13 Th | 0915 | 1.9 | 58 | 28 F | 1003 | 1.9 | 58 | 13 Su | 1027 | 2.9 | 87 | 28 M | 1254 | 3.1 | 96 | 13 Su | 1457 | 7.0 | 213 | 28 M | 1641 | 6.2 | 190 |
| | 1543 | 6.5 | 199 | | 1624 | 6.8 | 206 | | 1640 | 6.3 | 192 | | 1912 | 6.2 | 188 | | ● 2144 | 2.0 | 62 | | 1641 | 6.2 | 190 |
| | 2212 | 2.4 | 72 | | 2324 | 1.7 | 53 | | 0008 | 2.2 | 68 | | 0617 | 5.3 | 163 | | 0351 | 5.7 | 175 | | 0623 | 5.8 | 178 |
| | 0411 | 5.7 | 173 | | 0521 | 5.6 | 171 | | 0617 | 5.3 | 163 | | 1159 | 3.0 | 91 | | 0945 | 3.0 | 91 | | 1231 | 3.4 | 104 |
| 14 F | 1013 | 2.4 | 72 | 29 Sa | 1125 | 2.5 | 76 | 14 M | 1814 | 6.3 | 191 | 15 Tu | 0134 | 1.8 | 56 | 14 M | 1600 | 6.5 | 199 | 29 Tu | 1839 | 6.1 | 187 |
| | 1640 | 6.4 | 194 | | 1745 | 6.4 | 196 | | 0134 | 1.8 | 56 | | 0735 | 5.7 | 174 | | 2315 | 2.2 | 66 | | 0009 | 2.1 | 64 |
| | 2338 | 2.4 | 72 | | 0100 | 1.7 | 52 | | 0134 | 1.8 | 56 | | 1325 | 2.7 | 81 | | 0541 | 5.5 | 169 | | 0745 | 6.2 | 189 |
| | 0533 | 5.4 | 166 | | 0703 | 5.5 | 169 | | 1942 | 6.7 | 203 | | 1922 | 6.5 | 199 | | 1121 | 3.1 | 96 | | 1349 | 3.0 | 91 |
| 15 Sa | 1129 | 2.7 | 82 | 30 Su | 1258 | 2.7 | 82 | 15 Tu | 0134 | 1.8 | 56 | 30 W | 0541 | 5.5 | 169 | 15 Tu | 1729 | 6.3 | 192 | 30 W | 1951 | 6.5 | 197 |
| | 1752 | 6.4 | 194 | | 1922 | 6.5 | 199 | | 0134 | 1.8 | 56 | | 0735 | 5.7 | 174 | | 1121 | 3.1 | 96 | | 1349 | 3.0 | 91 |
| | 0216 | 1.4 | 42 | | 0216 | 1.4 | 42 | | 0134 | 1.8 | 56 | | 0735 | 5.7 | 174 | | 1729 | 6.3 | 192 | | 1951 | 6.5 | 197 |
| | 0829 | 5.9 | 179 | | 1414 | 2.5 | 77 | | 0134 | 1.8 | 56 | | 0735 | 5.7 | 174 | | 0541 | 5.5 | 169 | | 0745 | 6 | |

Yantai, China, 2011

Times and Heights of High and Low Waters

| July | | | | August | | | | September | | | | | | | | | | | | | | | |
|-----------------|------|--------|-----------------|-----------------|------|--------|-----|-----------------|------|----------------|------|-----------------|------|--------|-----|-----------------|------|-----|-----|-----------------|------|-----|-----|
| Time | | Height | | Time | | Height | | Time | | Height | | Time | | Height | | | | | | | | | |
| | h m | ft | cm | | h m | ft | cm | | h m | ft | cm | | h m | ft | cm | | | | | | | | |
| 1 F | 0334 | 3.3 | 100 | 16 Sa | 0415 | 3.2 | 98 | 1 M | 0433 | 2.7 | 81 | 16 Tu | 0508 | 2.7 | 83 | 1 Th | 0533 | 1.7 | 51 | 16 F | 0547 | 2.3 | 69 |
| | 0949 | 9.1 | 277 | | 1029 | 9.3 | 283 | | 1051 | 9.6 | 293 | | 1123 | 9.2 | 280 | | 1148 | 9.5 | 291 | | 1201 | 8.7 | 265 |
| | 1621 | 1.8 | 54 | | 1655 | 1.6 | 49 | | 1708 | 1.3 | 41 | | 1731 | 1.9 | 57 | | 1753 | 1.3 | 40 | | 1756 | 2.3 | 71 |
| | 2237 | 8.2 | 250 | | 2315 | 8.5 | 259 | | 2328 | 9.0 | 273 | | 2349 | 8.9 | 272 | | | | | | | | |
| 2 Sa | 0411 | 3.1 | 94 | 17 Su | 0453 | 3.1 | 93 | 2 Tu | 0512 | 2.4 | 73 | 17 W | 0540 | 2.7 | 81 | 2 F | 0614 | 9.6 | 294 | 17 Sa | 0621 | 9.1 | 277 |
| | 1028 | 9.3 | 283 | | 1108 | 9.3 | 284 | | 1130 | 9.6 | 293 | | 1156 | 9.1 | 276 | | 1233 | 1.6 | 50 | | 0621 | 2.3 | 70 |
| | 1656 | 1.6 | 50 | | 1729 | 1.6 | 49 | | 1743 | 1.2 | 38 | | 1800 | 2.0 | 60 | | 1833 | 1.6 | 49 | | 1234 | 8.5 | 259 |
| | 2313 | 8.4 | 255 | | 2349 | 8.6 | 263 | | | | | | | | | | | | | | 1825 | 2.6 | 78 |
| 3 Su | 0450 | 2.9 | 88 | 18 M | 0530 | 3.0 | 90 | 3 W | 0005 | 9.2 | 279 | 18 Th | 0020 | 9.0 | 275 | 3 Sa | 0055 | 9.6 | 293 | 18 Su | 0045 | 9.0 | 275 |
| | 1107 | 9.4 | 285 | | 1145 | 9.3 | 282 | | 0554 | 2.2 | 67 | | 0614 | 2.6 | 80 | | 0705 | 1.8 | 54 | | 0656 | 2.4 | 73 |
| | 1731 | 1.5 | 46 | | 1801 | 1.6 | 50 | | 1211 | 9.5 | 290 | | 1229 | 8.9 | 270 | | 1321 | 8.9 | 271 | | 1309 | 8.2 | 251 |
| | 2350 | 8.5 | 259 | | | | | | 1820 | 1.2 | 38 | | 1830 | 2.1 | 65 | | 1917 | 2.1 | 63 | | 1858 | 2.8 | 86 |
| 4 M | 0530 | 2.7 | 83 | 19 Tu | 0022 | 8.7 | 266 | 4 Th | 0044 | 9.3 | 283 | 19 F | 0052 | 9.0 | 275 | 4 Su | 0139 | 9.4 | 287 | 19 M | 0117 | 8.9 | 270 |
| | 1147 | 9.4 | 285 | | 0606 | 2.9 | 88 | | 0638 | 2.1 | 64 | | 0650 | 2.7 | 81 | | 0800 | 2.1 | 63 | | 0736 | 2.6 | 79 |
| | 1807 | 1.4 | 43 | | 1222 | 9.1 | 277 | | 1254 | 9.3 | 284 | | 1304 | 8.6 | 262 | | 1413 | 8.3 | 254 | | 1349 | 7.9 | 240 |
| | | | | | 1834 | 1.7 | 53 | | 1900 | 1.4 | 43 | | 1900 | 2.4 | 73 | | 2006 | 2.7 | 83 | | 1935 | 3.2 | 98 |
| 5 Tu | 0029 | 8.6 | 263 | 20 W | 0056 | 8.8 | 267 | 5 F | 0125 | 9.4 | 285 | 20 Sa | 0124 | 8.9 | 272 | 5 M | 0228 | 9.0 | 274 | 20 Tu | 0154 | 8.6 | 262 |
| | 0612 | 2.6 | 79 | | 0644 | 2.9 | 88 | | 0726 | 2.1 | 65 | | 0728 | 2.8 | 85 | | 0908 | 2.4 | 74 | | 0823 | 2.8 | 86 |
| | 1229 | 9.3 | 282 | | 1259 | 8.8 | 269 | | 1342 | 9.0 | 273 | | 1341 | 8.2 | 251 | | 1514 | 7.7 | 234 | | 1436 | 7.4 | 226 |
| | 1846 | 1.3 | 41 | | 1908 | 1.9 | 59 | | 1943 | 1.8 | 54 | | 1933 | 2.8 | 85 | | 2108 | 3.5 | 106 | | 2021 | 3.7 | 112 |
| 6 W | 0109 | 8.7 | 266 | 21 Th | 0132 | 8.7 | 266 | 6 Sa | 0209 | 9.3 | 283 | 21 Su | 0159 | 8.8 | 267 | 6 Tu | 0324 | 8.4 | 255 | 21 W | 0239 | 8.2 | 249 |
| | 0657 | 2.5 | 76 | | 0723 | 3.0 | 91 | | 0819 | 2.3 | 69 | | 0810 | 3.0 | 91 | | 1031 | 2.8 | 85 | | 0927 | 3.1 | 94 |
| | 1314 | 9.0 | 275 | | 1338 | 8.4 | 257 | | 1433 | 8.4 | 257 | | 1423 | 7.8 | 237 | | 1637 | 7.1 | 216 | | 1534 | 7.0 | 212 |
| | 1927 | 1.4 | 42 | | 1942 | 2.2 | 68 | | 2031 | 2.3 | 71 | | 2010 | 3.3 | 100 | | 2232 | 4.1 | 125 | | 2125 | 4.1 | 125 |
| 7 Th | 0153 | 8.8 | 268 | 22 F | 0208 | 8.6 | 262 | 7 Su | 0258 | 9.0 | 275 | 22 M | 0236 | 8.5 | 259 | 7 W | 0437 | 7.8 | 238 | 22 Th | 0339 | 7.7 | 235 |
| | 0746 | 2.5 | 75 | | 0806 | 3.1 | 95 | | 0925 | 2.5 | 77 | | 0902 | 3.2 | 99 | | 1208 | 2.9 | 88 | | 1049 | 3.2 | 97 |
| | 1402 | 8.7 | 266 | | 1420 | 8.0 | 244 | | 1531 | 7.8 | 239 | | 1511 | 7.3 | 222 | | 1819 | 7.0 | 213 | | 1718 | 6.7 | 205 |
| | 2011 | 1.5 | 47 | | 2018 | 2.7 | 81 | | 2129 | 3.1 | 93 | | 2056 | 3.8 | 117 | | | | | | 2255 | 4.2 | 129 |
| 8 F | 0240 | 8.8 | 268 | 23 Sa | 0247 | 8.4 | 256 | 8 M | 0353 | 8.6 | 263 | 23 Tu | 0321 | 8.2 | 249 | 8 Th | 0015 | 4.3 | 131 | 23 F | 0502 | 7.4 | 226 |
| | 0841 | 2.5 | 77 | | 0856 | 3.3 | 101 | | 1047 | 2.8 | 85 | | 1017 | 3.5 | 106 | | 0633 | 7.6 | 233 | | 1220 | 3.0 | 91 |
| | 1455 | 8.3 | 253 | | 1505 | 7.5 | 230 | | 1647 | 7.3 | 222 | | 1618 | 6.9 | 209 | | 1333 | 2.6 | 80 | | 1841 | 7.1 | 215 |
| | 2101 | 1.9 | 59 | | 2059 | 3.2 | 97 | | 2246 | 3.7 | 114 | | 2204 | 4.3 | 132 | | 1947 | 7.3 | 223 | | | | |
| 9 Sa | 0330 | 8.7 | 265 | 24 Su | 0330 | 8.2 | 249 | 9 Tu | 0502 | 8.2 | 250 | 24 W | 0420 | 7.8 | 238 | 9 F | 0146 | 4.0 | 122 | 24 Sa | 0026 | 3.9 | 120 |
| | 0947 | 2.6 | 80 | | 1003 | 3.5 | 106 | | 1221 | 2.8 | 86 | | 1150 | 3.5 | 106 | | 0750 | 7.9 | 242 | | 0645 | 7.6 | 232 |
| | 1553 | 7.8 | 239 | | 1602 | 7.1 | 216 | | 1827 | 7.1 | 216 | | 1807 | 6.8 | 206 | | 1430 | 2.3 | 70 | | 1329 | 2.5 | 76 |
| | 2159 | 2.5 | 76 | | 2152 | 3.7 | 114 | | | | | | 2335 | 4.5 | 138 | | 2045 | 7.8 | 237 | | 1940 | 7.6 | 231 |
| 10 Su | 0428 | 8.6 | 261 | 25 M | 0421 | 7.9 | 242 | 10 W | 0016 | 8.1 | 126 | 25 Th | 0550 | 7.7 | 235 | 10 Sa | 0240 | 3.5 | 108 | 25 Su | 0139 | 3.3 | 100 |
| | 1105 | 2.7 | 81 | | 1124 | 3.5 | 107 | | 0638 | 8.1 | 246 | | 1313 | 3.1 | 95 | | 0844 | 8.3 | 254 | | 0750 | 8.1 | 248 |
| | 1705 | 7.4 | 226 | | 1723 | 6.8 | 207 | | 1346 | 2.6 | 78 | | 1922 | 7.1 | 216 | | 1510 | 2.1 | 64 | | 1417 | 2.0 | 61 |
| | 2308 | 3.1 | 93 | | 2305 | 4.2 | 128 | | 1958 | 7.3 | 224 | | | | | | 2124 | 8.2 | 249 | | 2028 | 8.2 | 249 |
| 11 M | 0534 | 8.4 | 256 | 26 Tu | 0529 | 7.8 | 238 | 11 Th | 0147 | 4.1 | 124 | 26 F | 0103 | 4.3 | 130 | 11 Su | 0317 | 3.1 | 94 | 26 M | 0228 | 2.6 | 78 |
| | 1229 | 2.6 | 78 | | 1242 | 3.3 | 101 | | 0758 | 8.3 | 254 | | 0721 | 8.0 | 245 | | 0925 | 8.6 | 263 | | 0839 | 8.7 | 264 |
| | 1830 | 7.3 | 221 | | 1847 | 6.9 | 210 | | 1447 | 2.2 | 67 | | 1412 | 2.6 | 79 | | 1540 | 2.0 | 61 | | 1456 | 1.6 | 48 |
| | | | | | | | | | 2103 | 7.8 | 238 | | 2022 | 7.6 | 232 | | 2155 | 8.4 | 257 | | 2109 | 8.7 | 265 |
| 12 Tu | 0025 | 3.4 | 105 | 27 W | 0025 | 4.3 | 132 | 12 F | 0247 | 3.7 | 114 | 27 Sa | 0208 | 3.7 | 113 | 12 M | 0347 | 2.8 | 84 | 27 Tu | 0309 | 1.9 | 59 |
| | 0649 | 8.4 | 256 | | 0645 | 7.9 | 242 | | 0855 | 8.7 | 265 | | 0821 | 8.6 | 261 | | 0959 | 8.8 | 268 | | 0922 | 9.1 | 276 |
| | 1345 | 2.3 | 70 | | 1349 | 3.0 | 90 | | 1532 | 1.9 | 59 | | 1456 | 2.1 | 63 | | 1607 | 2.0 | 61 | | 1532 | 1.3 | 40 |
| | 1952 | 7.4 | 226 | | 1958 | 7.2 | 220 | | 2147 | 8.2 | 249 | | 2108 | 8.1 | 248 | | 2222 | 8.7 | 264 | | 2148 | 9.2 | 279 |
| 13 W | 0141 | 3.6 | 110 | 28 Th | 0137 | 4.2 | 127 | 13 Sa | 0330 | 3.4 | 104 | 28 Su | 0254 | 3.1 | 94 | 13 Tu | 0415 | 2.5 | 76 | 28 W | 0349 | 1.5 | 45 |
| | 0759 | 8.6 | 262 | | 0752 | 8.3 | 254 | | 0940 | 9.0 | 274 | | 0908 | 9.1 | 276 | | 1030 | 8.9 | 270 | | 1003 | 9.3 | 282 |
| | 1447 | 2.0 | 61 | | 1442 | 2.5 | 76 | | 1605 | 1.8 | 56 | | 1532 | 1.7 | 51 | | 1633 | 2.0 | 62 | | 1609 | 1.2 | 37 |
| | 2103 | 7.7 | 236 | | 2055 | 7.7 | 234 | | 2222 | 8.5 | 258 | | 2146 | 8.6 | 262 | | 2248 | 8.8 | 269 | | 2225 | 9.4 | 288 |
| 14 Th | 0244 | 3.5 | 108 | 29 F | 0232 | 3.8 | 116 | 14 Su | 0404 | 3.1 | 95 | 29 M | 0334 | 2.6 | 78 | 14 W | 0445 | 2.3 | 71 | 29 Th | 0431 | 1.2 | 37 |
| | 0858 | 8.9 | 271 | | 0845 | 8.8 | 267 | | 1017 | 9.2 | 279 | | 0950 | 9.4 | 287 | | 1100 | 8.9 | 270 | | 1044 | 9.3 | 284 |
| | 1538 | 1.8 | 54 | | 1525 | 2.1 | 63 | | 1634 | 1.8 | 55 | | 1605 | 1.4 | 43 | | 1700 | 2.1 | 64 | | 1647 | 1.3 | 39 |
| | 2156 | 8.1 | 246 | | 2139 | 8.1 | 247 | | 2252 | 8.7 | 264 | | 2222 | 9.0 | 274 | | 2315 | 9.0 | 273 | | 2304 | 9.6 | 294 |
| 15 F | 0333 | 3.4 | 103 | 30 Sa | 0316 | 3.4 | 103 | 15 M | 0436 | 2.9 | 88 | 30 Tu | 0412 | 2.1 | 65 | 15 Th | 0515 | 2.3 | 69 | 30 F | 0514 | 1.1 | 34 |
| | 0947 | 9.1 | 278 | | 0931 | 9.2 | 280 | | 1051 | 9.2 | 281 | | 1029 | 9.6 | 293 | | 1130 | 8.8 | 268 | | 1127 | 9.2 | 280 |
| | 1619 | 1.6 | 50 | | 1601 | 1.8 | 54 | | 1703 | 1.8 | 55 | | 1639 | 1.2 | 38 | | 1728 | 2.2 | 67 | | 1727 | 1.5 | 46 |
| | 2238 | 8.3 | 254 | | 2217 | 8.4 | 257 | | 2320 | 8.8 | 268 | | 2258 | 9.3 | 283 | | 2344 | 9.1 | 276 | | 2344 | 9.7 | 295 |
| | | | 31 Su | 0355 | 3.0 | 91 | | | | 31 W | 0452 | 1.8 | | | | | | | | | | | |

Yantai, China, 2011

Times and Heights of High and Low Waters

| October | | | November | | | December | | | | | | | | | | | | | | | | | |
|-----------------|--------|-----|----------|-----------------|------|----------------|--------|-----------------|-----------------|--------|----------------|-----------------|------|----------------|------|-----------------|------|------|-----|-----------------|------|-----|-----|
| Time | Height | | Time | Height | | Time | Height | | Time | Height | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | |
| 1 Sa | 0600 | 1.2 | 37 | | | 1 Tu | 0054 | 8.8 | 269 | | 16 W | 0026 | 8.4 | 256 | | | | | | | | | |
| | 1214 | 8.9 | 272 | 16 Su | 1209 | | 8.2 | 250 | 16 Th | 0127 | | 8.0 | 243 | 16 F | 0055 | 7.9 | 240 | | | | | | |
| | 1810 | 1.8 | 56 | | 1758 | | 2.6 | 78 | | 1345 | | 7.7 | 235 | | 0800 | 1.2 | 36 | 0721 | 0.9 | 26 | | | |
| 2 Su | 0028 | 9.5 | 291 | 17 M | 0013 | 8.9 | 271 | 2 W | 0145 | 8.3 | 253 | 17 Th | 0106 | 8.1 | 247 | 2 F | 0219 | 7.4 | 226 | 17 Sa | 0142 | 7.6 | 231 |
| | 0649 | 1.4 | 44 | | 0634 | 2.0 | 60 | | 0831 | 1.7 | 52 | | 0741 | 1.5 | 47 | | 0851 | 1.5 | 45 | | 0805 | 0.9 | 26 |
| | 1304 | 8.5 | 260 | | 1245 | 8.0 | 244 | | 1444 | 7.3 | 223 | | 1354 | 7.3 | 222 | | 1513 | 7.0 | 213 | | 1424 | 7.3 | 221 |
| 3 M | 0113 | 9.2 | 281 | 18 Tu | 0046 | 8.7 | 266 | 3 Th | 0242 | 7.6 | 233 | 18 F | 0155 | 7.7 | 235 | 3 Sa | 0314 | 6.8 | 208 | 18 Su | 0236 | 7.2 | 220 |
| | 0745 | 1.8 | 54 | | 0713 | 2.1 | 63 | | 0934 | 2.0 | 62 | | 0831 | 1.6 | 49 | | 0947 | 1.8 | 56 | | 0854 | 1.0 | 30 |
| | 1358 | 8.0 | 245 | | 1325 | 7.7 | 236 | | 1554 | 7.0 | 213 | | 1447 | 7.1 | 217 | | 1615 | 6.8 | 207 | | 1518 | 7.2 | 219 |
| 4 Tu | 0204 | 8.7 | 264 | 19 W | 0124 | 8.4 | 257 | 4 F | 0349 | 7.0 | 214 | 19 Sa | 0255 | 7.3 | 222 | 4 Su | 0420 | 6.3 | 192 | 19 M | 0335 | 6.9 | 209 |
| | 0852 | 2.2 | 66 | | 0759 | 2.2 | 68 | | 1041 | 2.3 | 71 | | 0928 | 1.7 | 52 | | 1049 | 2.2 | 66 | | 0951 | 1.2 | 38 |
| | 1500 | 7.4 | 227 | | 1411 | 7.4 | 225 | | 1709 | 6.9 | 210 | | 1550 | 7.0 | 214 | | 1719 | 6.7 | 205 | | 1618 | 7.2 | 218 |
| 5 W | 2053 | 3.5 | 107 | 20 Th | 0212 | 8.0 | 243 | 5 Sa | 0519 | 6.7 | 203 | 20 Su | 0402 | 7.0 | 212 | 5 M | 0540 | 6.1 | 185 | 20 Tu | 0441 | 6.5 | 199 |
| | 1623 | 7.0 | 214 | | 0856 | 2.4 | 74 | | 1154 | 2.5 | 75 | | 1031 | 1.7 | 53 | | 1155 | 2.4 | 73 | | 1055 | 1.5 | 46 |
| | 2218 | 4.0 | 121 | | 2104 | 3.5 | 107 | | 1816 | 7.0 | 213 | | 1705 | 7.1 | 217 | | 1820 | 6.8 | 208 | | 1725 | 7.2 | 220 |
| 6 Th | 0416 | 7.3 | 224 | 21 F | 0313 | 7.5 | 228 | 6 Su | 0041 | 3.2 | 97 | 21 M | 0518 | 6.8 | 208 | 6 Tu | 0052 | 2.5 | 76 | 21 W | 0559 | 6.4 | 195 |
| | 1132 | 2.7 | 83 | | 1004 | 2.5 | 77 | | 0643 | 6.7 | 203 | | 1138 | 1.7 | 53 | | 0653 | 6.1 | 186 | | 1205 | 1.7 | 52 |
| | 1751 | 7.0 | 212 | | 1626 | 6.9 | 209 | | 1300 | 2.4 | 74 | | 1812 | 7.4 | 227 | | 1257 | 2.5 | 75 | | 1833 | 7.4 | 226 |
| 7 F | 2357 | 4.0 | 123 | 22 Sa | 0429 | 7.2 | 218 | 7 M | 0140 | 2.7 | 83 | 22 Tu | 0030 | 2.0 | 62 | 7 W | 0148 | 2.1 | 64 | 22 Th | 0113 | 1.3 | 41 |
| | 0609 | 7.2 | 218 | | 1118 | 2.5 | 75 | | 0744 | 6.9 | 210 | | 0634 | 7.0 | 213 | | 0754 | 6.3 | 193 | | 0713 | 6.5 | 198 |
| | 1257 | 2.6 | 80 | | 1756 | 7.1 | 215 | | 1350 | 2.4 | 72 | | 1244 | 1.6 | 50 | | 1349 | 2.5 | 75 | | 1314 | 1.8 | 55 |
| 8 Sa | 1909 | 7.2 | 220 | 23 Su | 2349 | 3.2 | 99 | 8 Tu | 2005 | 7.6 | 231 | 23 W | 0133 | 1.5 | 45 | 8 Th | 0234 | 1.7 | 53 | 23 F | 0216 | 1.0 | 30 |
| | 0124 | 3.6 | 111 | | 0601 | 7.2 | 219 | | 0832 | 7.2 | 219 | | 0736 | 7.3 | 222 | | 0844 | 6.6 | 202 | | 0819 | 6.7 | 204 |
| | 0726 | 7.4 | 225 | | 1232 | 2.2 | 66 | | 1429 | 2.3 | 70 | | 1341 | 1.5 | 46 | | 1432 | 2.4 | 72 | | 1416 | 1.8 | 54 |
| 9 Su | 1354 | 2.4 | 73 | 24 M | 2311 | 7.6 | 231 | 9 W | 2043 | 7.9 | 241 | 24 Th | 2000 | 8.3 | 253 | 9 F | 2046 | 7.6 | 233 | 24 Sa | 2034 | 8.0 | 243 |
| | 2009 | 7.6 | 232 | | 0105 | 2.6 | 80 | | 0259 | 1.9 | 58 | | 0226 | 1.0 | 30 | | 0315 | 1.5 | 45 | | 0310 | 0.7 | 21 |
| | 0217 | 3.1 | 95 | | 0713 | 7.6 | 231 | | 0911 | 7.4 | 226 | | 0831 | 7.5 | 230 | | 0924 | 6.9 | 210 | | 0919 | 7.0 | 212 |
| 10 M | 1435 | 2.3 | 69 | 25 Tu | 1330 | 1.8 | 55 | 10 Th | 1503 | 2.3 | 70 | 25 F | 1432 | 1.5 | 45 | 10 Sa | 1510 | 2.3 | 69 | 25 Su | 1509 | 1.7 | 51 |
| | 2049 | 8.0 | 243 | | 1947 | 8.1 | 248 | | 2116 | 8.2 | 249 | | 2049 | 8.7 | 264 | | 2122 | 7.9 | 241 | | 2126 | 8.2 | 251 |
| | 0253 | 2.7 | 81 | | 0200 | 1.9 | 59 | | 0333 | 1.7 | 51 | | 0315 | 0.7 | 21 | | 0352 | 1.3 | 39 | | 0359 | 0.5 | 16 |
| 11 Tu | 0902 | 8.0 | 244 | 26 W | 0807 | 8.0 | 245 | 11 F | 0945 | 7.6 | 232 | 26 Sa | 0923 | 7.7 | 236 | 11 Su | 0959 | 7.1 | 217 | 26 M | 1011 | 7.2 | 218 |
| | 1507 | 2.2 | 66 | | 1417 | 1.5 | 46 | | 1535 | 2.3 | 70 | | 1519 | 1.5 | 45 | | 1544 | 2.2 | 66 | | 1557 | 1.6 | 48 |
| | 2121 | 8.3 | 252 | | 2033 | 8.7 | 264 | | 2146 | 8.4 | 255 | | 2135 | 8.9 | 271 | | 2156 | 8.1 | 247 | | 2214 | 8.4 | 256 |
| 12 W | 0324 | 2.3 | 70 | 27 Th | 0246 | 1.3 | 41 | 12 Sa | 0405 | 1.5 | 47 | 27 Su | 0402 | 0.6 | 17 | 12 M | 0426 | 1.2 | 36 | 27 Tu | 0444 | 0.4 | 13 |
| | 0937 | 8.2 | 249 | | 0854 | 8.4 | 256 | | 1016 | 7.7 | 235 | | 1013 | 7.8 | 239 | | 1032 | 7.2 | 220 | | 1057 | 7.3 | 222 |
| | 1536 | 2.2 | 66 | | 1459 | 1.3 | 41 | | 1605 | 2.3 | 70 | | 1606 | 1.6 | 48 | | 1616 | 2.1 | 63 | | 1642 | 1.5 | 46 |
| 13 Th | 2149 | 8.5 | 259 | 28 F | 2115 | 9.1 | 276 | 13 Su | 2217 | 8.5 | 260 | 28 M | 2221 | 9.0 | 274 | 13 Tu | 2230 | 8.2 | 251 | 28 W | 2258 | 8.4 | 257 |
| | 0353 | 2.0 | 62 | | 0329 | 1.0 | 29 | | 0437 | 1.5 | 45 | | 0450 | 0.6 | 17 | | 0458 | 1.1 | 34 | | 0525 | 0.4 | 13 |
| | 1008 | 8.3 | 253 | | 0939 | 8.6 | 262 | | 1047 | 7.8 | 237 | | 1102 | 7.8 | 239 | | 1104 | 7.3 | 223 | | 1139 | 7.3 | 224 |
| 14 F | 1603 | 2.2 | 67 | 29 M | 1541 | 1.3 | 40 | 14 Th | 1634 | 2.3 | 70 | 29 Su | 1652 | 1.7 | 51 | 14 W | 1649 | 1.9 | 59 | 29 Tu | 1725 | 1.5 | 45 |
| | 2216 | 8.7 | 265 | | 2156 | 9.4 | 285 | | 2247 | 8.6 | 262 | | 2306 | 8.9 | 272 | | 2303 | 8.3 | 253 | | 2341 | 8.3 | 254 |
| | 0423 | 1.9 | 58 | | 0413 | 0.8 | 23 | | 0510 | 1.5 | 45 | | 0537 | 0.6 | 19 | | 0531 | 1.1 | 33 | | 0605 | 0.5 | 14 |
| 15 Sa | 1037 | 8.3 | 254 | 30 Tu | 1024 | 8.7 | 264 | 15 W | 1118 | 7.8 | 237 | 30 F | 1150 | 7.7 | 236 | 15 Th | 1138 | 7.3 | 223 | 30 Sa | 1220 | 7.4 | 225 |
| | 1631 | 2.3 | 69 | | 1623 | 1.4 | 44 | | 1705 | 2.3 | 70 | | 1738 | 1.8 | 55 | | 1724 | 1.8 | 56 | | 1807 | 1.5 | 46 |
| | 2244 | 8.8 | 269 | | 2238 | 9.4 | 288 | | 2318 | 8.6 | 263 | | 2352 | 8.8 | 267 | | 2337 | 8.2 | 251 | | 1870 | 1.5 | 46 |
| 16 Su | 0454 | 1.8 | 56 | 31 M | 0459 | 0.8 | 23 | 16 Tu | 0543 | 1.5 | 46 | 31 W | 0624 | 0.8 | 23 | 16 Th | 0605 | 1.0 | 30 | 31 Sa | 0645 | 0.6 | 17 |
| | 1106 | 8.4 | 255 | | 1111 | 8.6 | 261 | | 1151 | 7.7 | 236 | | 1238 | 7.6 | 233 | | 1213 | 7.3 | 224 | | 1301 | 7.3 | 224 |
| | 1658 | 2.3 | 71 | | 1706 | 1.7 | 51 | | 1738 | 2.3 | 70 | | 1826 | 2.0 | 60 | | 1803 | 1.8 | 55 | | 1850 | 1.6 | 49 |
| 17 M | 2312 | 8.9 | 271 | 31 Tu | 2321 | 9.4 | 287 | 17 W | 2350 | 8.6 | 261 | 31 Th | 0039 | 8.4 | 257 | 17 F | 0014 | 8.1 | 247 | 31 Sa | 0105 | 7.7 | 236 |
| | 0525 | 1.9 | 57 | | 0546 | 0.9 | 27 | | 0619 | 1.5 | 46 | | 0712 | 0.9 | 28 | | 0641 | 0.9 | 28 | | 0724 | 0.7 | 22 |
| | 1137 | 8.3 | 253 | | 1200 | 8.4 | 255 | | 1227 | 7.6 | 233 | | 1327 | 7.4 | 227 | | 1252 | 7.3 | 223 | | 1343 | 7.2 | 220 |
| 18 Tu | 1727 | 2.4 | 74 | 31 W | 1752 | 2.0 | 60 | 18 Th | 1816 | 2.4 | 72 | 31 F | 1915 | 2.2 | 67 | 18 Sa | 1845 | 1.8 | 54 | 31 Su | 1935 | 1.8 | 55 |
| | 2342 | 8.9 | 272 | | 0006 | 9.2 | 281 | | 0637 | 1.1 | 33 | | 0712 | 0.9 | 28 | | 0805 | 1.0 | 31 | | 0805 | 1.0 | 31 |
| | | | | | 1251 | 8.1 | 246 | | 1841 | 2.3 | 70 | | | | | | 2024 | 2.0 | 62 | | 1427 | 7.1 | 215 |

Time meridian 120° E. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to the chart datum of soundings.

Qingdao (Da Gang), China, 2011

Times and Heights of High and Low Waters

| January | | | | February | | | | March | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|--------|------|-----|----------|-----------------|--------|------|-------|--------|-----------------|--------|------|--------|----|-----------------|--------|------|-----|----|-----------------|------|------|-----|--|-----------------|--------|------|-----|--|-----------------|------|------|-----|--|
| Time | Height | | | Time | Height | | | Time | Height | | | Time | Height | | | | | | | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | | | | | | |
| 1 Sa | 0123 | 11.3 | 345 | | 16 Su | 0106 | 10.3 | 315 | | 1 Tu | 0314 | 11.2 | 342 | | 16 W | 0237 | 11.3 | 343 | | 1 Tu | 0210 | 10.4 | 317 | | 16 W | 0105 | 10.4 | 318 | | | | | | |
| | 0832 | 1.6 | 49 | | | 0802 | 2.8 | 86 | | | 1017 | 1.2 | 37 | | | 0937 | 1.3 | 40 | | | 0911 | 2.1 | 65 | | | 0802 | 2.3 | 70 | | | | | | |
| | 1434 | 11.5 | 352 | | | 1425 | 10.8 | 330 | | | 1608 | 12.0 | 366 | | | 1538 | 12.4 | 377 | | | 1517 | 11.4 | 348 | | | 1424 | 11.7 | 357 | | | | | | |
| | 2101 | 4.2 | 128 | | | 2032 | 5.1 | 154 | | | 2240 | 3.9 | 119 | | | 2206 | 3.6 | 110 | | | 2141 | 4.6 | 139 | | | 2046 | 4.4 | 134 | | | | | | |
| 2 Su | 0223 | 11.5 | 351 | | 17 M | 0204 | 10.8 | 330 | | 2 W | 0358 | 11.8 | 360 | | 17 Th | 0327 | 12.2 | 373 | | 2 W | 0304 | 11.1 | 337 | | 17 Th | 0214 | 11.4 | 347 | | 17 Th | 0909 | 1.4 | 43 | |
| | 0931 | 1.1 | 34 | | | 0905 | 2.1 | 63 | | | 1101 | 0.9 | 27 | | | 1028 | 0.4 | 12 | | | 1002 | 1.6 | 50 | | | 1508 | 12.6 | 384 | | | | | | |
| | 1528 | 12.1 | 369 | | | 1516 | 11.6 | 354 | | | 1642 | 12.4 | 378 | | | 1615 | 13.2 | 401 | | | 1552 | 11.9 | 362 | | | 1508 | 12.6 | 384 | | | | | | |
| | 2159 | 4.0 | 122 | | | 2132 | 4.5 | 137 | | | 2317 | 3.4 | 103 | | | 2252 | 2.6 | 79 | | | 2223 | 3.8 | 116 | | | 2142 | 3.2 | 99 | | | | | | |
| 3 M | 0315 | 11.8 | 361 | | 18 Tu | 0256 | 11.5 | 350 | | 3 Th | 0434 | 12.3 | 376 | | 18 F | 0410 | 13.2 | 403 | | 3 Th | 0344 | 11.7 | 357 | | 18 F | 0306 | 12.5 | 381 | | 18 F | 1003 | 0.6 | 17 | |
| | 1023 | 0.8 | 24 | | | 0958 | 1.2 | 38 | | | 1138 | 0.7 | 22 | | | 1113 | -0.4 | -11 | | | 1042 | 1.3 | 41 | | | 1547 | 13.4 | 407 | | | | | | |
| | 1613 | 12.5 | 382 | | | 1558 | 12.4 | 378 | | | 1713 | 12.7 | 387 | | | 1650 | 13.7 | 419 | | | 1622 | 12.3 | 374 | | | 1547 | 13.4 | 407 | | | | | | |
| | 2247 | 3.8 | 115 | | | 2224 | 3.8 | 115 | | | ● 2352 | 2.9 | 89 | | | ○ 2334 | 1.7 | 52 | | | 2259 | 3.1 | 95 | | | 2229 | 2.1 | 64 | | | | | | |
| 4 Tu | 0401 | 12.2 | 372 | | 19 W | 0342 | 12.2 | 372 | | 4 F | 0508 | 12.7 | 387 | | 19 Sa | 0451 | 14.0 | 426 | | 4 F | 0419 | 12.2 | 373 | | 19 Sa | 0351 | 13.5 | 412 | | 19 Sa | 1049 | 0.0 | -1 | |
| | 1109 | 0.6 | 18 | | | 1046 | 0.5 | 15 | | | 1211 | 0.7 | 21 | | | 1155 | -0.8 | -24 | | | 1117 | 1.2 | 37 | | | 1649 | 12.6 | 384 | | | | | | |
| | 1652 | 12.8 | 390 | | | 1635 | 13.1 | 398 | | | 1742 | 12.9 | 393 | | | 1724 | 14.1 | 430 | | | 1649 | 12.6 | 384 | | | 1622 | 13.9 | 425 | | | | | | |
| | ● 2328 | 3.5 | 107 | | | 2309 | 3.1 | 93 | | | ● | | | | | ○ | | | | | 2331 | 2.5 | 76 | | | 2311 | 1.1 | 34 | | | | | | |
| 5 W | 0442 | 12.5 | 382 | | 20 Th | 0424 | 12.9 | 394 | | 5 Sa | 0025 | 2.5 | 76 | | 20 Su | 0014 | 1.0 | 30 | | 5 Sa | 0450 | 12.7 | 386 | | 20 Su | 0433 | 14.3 | 436 | | 20 Su | 1131 | -0.3 | -9 | |
| | 1150 | 0.5 | 15 | | | 1131 | -0.1 | -4 | | | 0540 | 12.9 | 393 | | | 0530 | 14.4 | 440 | | | 1147 | 1.2 | 36 | | | 1657 | 14.3 | 437 | | | | | | |
| | 1728 | 13.0 | 395 | | | ○ 2351 | 2.4 | 73 | | | 1241 | 0.8 | 23 | | | 1234 | -0.9 | -26 | | | 1716 | 12.8 | 391 | | | ○ 2352 | 0.3 | 10 | | | | | | |
| | | | | | | ○ | | | | | 1811 | 13.0 | 396 | | | 1759 | 14.3 | 435 | | | ● | | | | | | | | | | | | | |
| 6 Th | 0006 | 3.3 | 100 | | 21 F | 0504 | 13.5 | 412 | | 6 Su | 0057 | 2.2 | 67 | | 21 M | 0054 | 0.5 | 16 | | 6 Su | 0002 | 2.0 | 62 | | 21 M | 0513 | 14.7 | 449 | | 21 M | 1212 | -0.1 | -4 | |
| | 0520 | 12.8 | 389 | | | 1212 | -0.6 | -18 | | | 0612 | 12.9 | 393 | | | 0611 | 14.5 | 441 | | | 0520 | 13.0 | 395 | | | 1212 | -0.1 | -4 | | | | | | |
| | 1227 | 0.5 | 16 | | | 1746 | 13.9 | 423 | | | 1311 | 1.0 | 29 | | | 1313 | -0.5 | -15 | | | 1216 | 1.3 | 39 | | | 1732 | 14.4 | 440 | | | | | | |
| | 1803 | 13.1 | 398 | | | | | | | | 1839 | 13.0 | 395 | | | 1835 | 14.1 | 430 | | | 1741 | 13.0 | 396 | | | | | | | | | | | |
| 7 F | 0043 | 3.1 | 95 | | 22 Sa | 0032 | 1.8 | 56 | | 7 M | 0128 | 2.1 | 63 | | 22 Tu | 0134 | 0.3 | 10 | | 7 M | 0032 | 1.7 | 52 | | 22 Tu | 0032 | -0.1 | -4 | | 22 Tu | 0555 | 14.7 | 449 | |
| | 0556 | 12.8 | 390 | | | 0545 | 13.9 | 423 | | | 0644 | 12.7 | 387 | | | 0654 | 14.1 | 429 | | | 0550 | 13.1 | 398 | | | 1252 | 0.4 | 13 | | | | | | |
| | 1302 | 0.7 | 20 | | | 1253 | -0.8 | -24 | | | 1340 | 1.3 | 40 | | | 1353 | 0.3 | 9 | | | 1244 | 1.4 | 44 | | | 1808 | 14.2 | 434 | | | | | | |
| | 1838 | 13.0 | 396 | | | 1823 | 14.0 | 426 | | | 1908 | 12.7 | 388 | | | 1913 | 13.6 | 416 | | | 1806 | 13.0 | 396 | | | | | | | | | | | |
| 8 Sa | 0119 | 3.0 | 91 | | 23 Su | 0113 | 1.5 | 45 | | 8 Tu | 0200 | 2.1 | 64 | | 23 W | 0216 | 0.4 | 13 | | 8 Tu | 0101 | 1.6 | 48 | | 23 W | 0112 | -0.2 | -7 | | 23 W | 0639 | 14.3 | 436 | |
| | 0631 | 12.6 | 385 | | | 0626 | 13.9 | 424 | | | 0719 | 12.3 | 375 | | | 0740 | 13.3 | 404 | | | 0621 | 13.0 | 397 | | | 1332 | 1.3 | 41 | | | | | | |
| | 1335 | 0.9 | 28 | | | 1333 | -0.6 | -19 | | | 1409 | 1.8 | 56 | | | 1435 | 1.5 | 46 | | | 1312 | 1.8 | 54 | | | 1846 | 13.7 | 418 | | | | | | |
| | 1912 | 12.8 | 391 | | | 1901 | 13.8 | 421 | | | 1937 | 12.3 | 375 | | | 1954 | 12.9 | 393 | | | 1831 | 12.9 | 392 | | | | | | | | | | | |
| 9 Su | 0155 | 3.0 | 90 | | 24 M | 0155 | 1.3 | 40 | | 9 W | 0233 | 2.3 | 70 | | 24 Th | 0301 | 0.9 | 27 | | 9 W | 0131 | 1.6 | 49 | | 24 Th | 0154 | 0.0 | 1 | | 24 Th | 0726 | 13.5 | 412 | |
| | 0708 | 12.3 | 374 | | | 0710 | 13.6 | 414 | | | 0757 | 11.7 | 358 | | | 0834 | 12.2 | 371 | | | 0654 | 12.8 | 389 | | | 1415 | 2.5 | 77 | | | | | | |
| | 1408 | 1.4 | 42 | | | 1414 | -0.1 | -2 | | | 1442 | 2.6 | 78 | | | 1521 | 3.0 | 90 | | | 1341 | 2.2 | 68 | | | 1928 | 12.9 | 393 | | | | | | |
| | 1947 | 12.5 | 380 | | | 1941 | 13.4 | 409 | | | 2009 | 11.8 | 360 | | | 2042 | 11.9 | 362 | | | 1859 | 12.6 | 384 | | | | | | | | | | | |
| 10 M | 0231 | 3.1 | 93 | | 25 Tu | 0239 | 1.3 | 41 | | 10 Th | 0309 | 2.6 | 79 | | 25 F | 0354 | 1.6 | 48 | | 10 Th | 0202 | 1.8 | 54 | | 25 F | 0240 | 0.7 | 21 | | 25 F | 0819 | 12.5 | 380 | |
| | 0747 | 11.7 | 357 | | | 0758 | 12.9 | 392 | | | 0841 | 11.1 | 338 | | | 0941 | 11.0 | 336 | | | 0730 | 12.3 | 376 | | | 1502 | 3.8 | 116 | | | | | | |
| | 1442 | 2.0 | 60 | | | 1457 | 0.9 | 28 | | | 1519 | 3.5 | 106 | | | 1619 | 4.4 | 135 | | | 1413 | 2.9 | 88 | | | 2016 | 11.9 | 362 | | | | | | |
| | 2023 | 11.9 | 364 | | | 2026 | 12.8 | 389 | | | 2046 | 11.2 | 342 | | | ● 2141 | 10.8 | 329 | | | 1930 | 12.2 | 373 | | | | | | | | | | | |
| 11 Tu | 0310 | 3.2 | 98 | | 26 W | 0327 | 1.6 | 48 | | 11 F | 0352 | 2.9 | 89 | | 26 Sa | 0501 | 2.3 | 71 | | 11 F | 0236 | 2.0 | 62 | | 26 Sa | 0332 | 1.6 | 48 | | 26 Sa | 0927 | 11.4 | 347 | |
| | 0831 | 11.1 | 337 | | | 0853 | 11.9 | 363 | | | 0936 | 10.4 | 317 | | | 1123 | 10.2 | 312 | | | 0812 | 11.7 | 358 | | | 1601 | 5.0 | 153 | | | | | | |
| | 1518 | 2.7 | 83 | | | 1546 | 2.2 | 68 | | | 1605 | 4.4 | 135 | | | 1738 | 5.5 | 168 | | | 1450 | 3.7 | 114 | | | 2117 | 10.8 | 329 | | | | | | |
| | 2102 | 11.4 | 346 | | | ● 2116 | 11.9 | 364 | | | ● 2134 | 10.6 | 323 | | | 2308 | 10.0 | 305 | | | 2007 | 11.7 | 357 | | | | | | | | | | | |
| 12 W | 0353 | 3.4 | 105 | | 27 Th | 0423 | 1.9 | 59 | | 12 Sa | 0447 | 3.2 | 97 | | 27 Su | 0628 | 2.8 | 85 | | 12 Sa | 0317 | 2.4 | 73 | | 27 Su | 0438 | 2.5 | 75 | | 27 Su | 1107 | 10.7 | 325 | |
| | 0923 | 10.4 | 317 | | | 1002 | 10.9 | 332 | | | 1054 | 9.9 | 301 | | | 1322 | 10.4 | 316 | | | 0904 | 11.1 | 338 | | | 1719 | 5.8 | 178 | | | | | | |
| | 1600 | 3.6 | 109 | | | 1645 | 3.6 | 111 | | | 1708 | 5.3 | 161 | | | 1920 | 5.8 | 177 | | | 1535 | 4.6 | 141 | | | 2247 | 10.1 | 307 | | | | | | |
| | ● 2148 | 10.8 | 328 | | | 2218 | 11.1 | 338 | | | 2240 | 10.1 | 308 | | | | | | | | 2052 | 11.1 | 337 | | | | | | | | | | | |
| 13 Th | 0443 | 3.6 | 110 | | 28 F | 0531 | 2.3 | 70 | | 13 Su | 0555 | 3.2 | 99 | | 28 M | 0053 | 9.9 | 302 | | 13 Su | 0409 | 2.8 | 84 | | 28 M | 0600 | 3.0 | 92 | | 28 M | 1252 | 10.7 | 326 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Qingdao (Da Gang), China, 2011

Times and Heights of High and Low Waters

| April | | | | May | | | | June | | | | | | | | | | | | | | | |
|-----------------|--------|------|------|-----------------|------|------|--------|-----------------|------|--------|------|-----------------|--------|------|------|-----------------|------|------|------|-----------------|------|------|-----|
| Time | Height | | Time | Height | | Time | Height | | Time | Height | | Time | Height | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | |
| 1 F | 0322 | 11.6 | 354 | 16 Sa | 0242 | 12.8 | 389 | 1 Su | 0332 | 12.1 | 370 | 16 M | 0313 | 13.7 | 417 | 1 W | 0422 | 13.2 | 402 | 16 Th | 0441 | 14.4 | 438 |
| | 1012 | 2.2 | 67 | | 0933 | 1.2 | 37 | | 1010 | 3.3 | 101 | | 0957 | 2.4 | 74 | | 1053 | 4.4 | 134 | | 1122 | 4.1 | 125 |
| | 1552 | 12.3 | 374 | | 1513 | 13.5 | 413 | | 1543 | 12.4 | 379 | | 1522 | 13.9 | 424 | | 1606 | 12.9 | 394 | | 1630 | 13.8 | 421 |
| | 2231 | 2.9 | 88 | | 2202 | 1.6 | 49 | | 2231 | 2.3 | 69 | | 2223 | 0.6 | 18 | | 2312 | 1.7 | 51 | | 2342 | 0.5 | 15 |
| 2 Sa | 0357 | 12.2 | 371 | 17 Su | 0330 | 13.7 | 418 | 2 M | 0407 | 12.7 | 386 | 17 Tu | 0401 | 14.3 | 435 | 2 Th | 0456 | 13.5 | 413 | 17 F | 0524 | 14.5 | 442 |
| | 1047 | 2.1 | 65 | | 1022 | 1.0 | 29 | | 1046 | 3.3 | 100 | | 1046 | 2.6 | 79 | | 1130 | 4.3 | 132 | | 1206 | 4.1 | 126 |
| | 1619 | 12.5 | 382 | | 1552 | 14.0 | 428 | | 1609 | 12.6 | 385 | | 1603 | 14.1 | 429 | | 1639 | 13.2 | 403 | | 1713 | 13.9 | 423 |
| | 2304 | 2.3 | 69 | | 2247 | 0.7 | 21 | | 2305 | 1.8 | 56 | | 2309 | 0.1 | 4 | | 2349 | 1.4 | 43 | | | | |
| 3 Su | 0429 | 12.7 | 386 | 18 M | 0415 | 14.4 | 439 | 3 Tu | 0439 | 13.1 | 399 | 18 W | 0447 | 14.6 | 445 | 3 F | 0531 | 13.8 | 422 | 18 Sa | 0606 | 14.4 | 440 |
| | 1118 | 2.1 | 64 | | 1107 | 1.0 | 29 | | 1120 | 3.3 | 101 | | 1133 | 2.9 | 88 | | 1208 | 4.3 | 130 | | 1249 | 4.2 | 128 |
| | 1644 | 12.8 | 389 | | 1629 | 14.3 | 437 | | 1636 | 12.9 | 392 | | 1644 | 14.1 | 430 | | 1714 | 13.5 | 410 | | 1755 | 13.8 | 420 |
| | 2335 | 1.8 | 55 | | 2329 | 0.0 | 1 | | 2337 | 1.6 | 48 | | 2354 | 0.0 | 0 | | | | | | | | |
| 4 M | 0459 | 13.0 | 397 | 19 Tu | 0458 | 14.8 | 450 | 4 W | 0511 | 13.4 | 407 | 19 Th | 0532 | 14.7 | 447 | 4 Sa | 0606 | 14.0 | 427 | 19 Su | 0648 | 14.2 | 434 |
| | 1148 | 2.2 | 66 | | 1150 | 1.3 | 39 | | 1152 | 3.4 | 103 | | 1217 | 3.2 | 99 | | 1246 | 4.2 | 128 | | 1331 | 4.3 | 132 |
| | 1708 | 12.9 | 393 | | 1706 | 14.4 | 438 | | 1703 | 13.0 | 397 | | 1725 | 13.9 | 425 | | 1751 | 13.5 | 412 | | 1837 | 13.5 | 412 |
| | | | | | | | | | | | | | | | | | | | | | | | |
| 5 Tu | 0005 | 1.5 | 46 | 20 W | 0011 | -0.3 | -9 | 5 Th | 0009 | 1.4 | 43 | 20 F | 0037 | 0.1 | 4 | 5 Su | 0104 | 1.1 | 35 | 20 M | 0730 | 13.9 | 424 |
| | 0529 | 13.2 | 403 | | 0541 | 14.8 | 450 | | 0544 | 13.5 | 412 | | 0617 | 14.4 | 440 | | 0645 | 14.1 | 429 | | 0730 | 13.9 | 424 |
| | 1217 | 2.3 | 71 | | 1232 | 1.9 | 57 | | 1225 | 3.5 | 108 | | 1301 | 3.7 | 112 | | 1327 | 4.2 | 128 | | 1413 | 4.5 | 136 |
| | 1733 | 13.0 | 396 | | 1744 | 14.1 | 431 | | 1733 | 13.1 | 400 | | 1808 | 13.6 | 415 | | 1831 | 13.4 | 409 | | 1920 | 13.0 | 397 |
| 6 W | 0034 | 1.4 | 43 | 21 Th | 0053 | -0.3 | -8 | 6 F | 0042 | 1.3 | 41 | 21 Sa | 0122 | 0.5 | 15 | 6 M | 0144 | 1.2 | 36 | 21 Tu | 0229 | 1.8 | 55 |
| | 0601 | 13.3 | 404 | | 0626 | 14.4 | 439 | | 0619 | 13.5 | 412 | | 0703 | 14.0 | 426 | | 0726 | 14.0 | 426 | | 0814 | 13.5 | 411 |
| | 1247 | 2.6 | 79 | | 1315 | 2.6 | 80 | | 1300 | 3.8 | 115 | | 1346 | 4.2 | 127 | | 1411 | 4.2 | 129 | | 1458 | 4.6 | 141 |
| | 1759 | 13.0 | 395 | | 1824 | 13.6 | 415 | | 1806 | 13.1 | 399 | | 1853 | 13.1 | 399 | | 1916 | 13.2 | 402 | | 2006 | 12.4 | 377 |
| 7 Th | 0104 | 1.4 | 43 | 22 F | 0136 | 0.2 | 5 | 7 Sa | 0117 | 1.4 | 42 | 22 Su | 0207 | 1.0 | 32 | 7 Tu | 0228 | 1.3 | 41 | 22 W | 0311 | 2.6 | 78 |
| | 0634 | 13.2 | 401 | | 0714 | 13.7 | 419 | | 0658 | 13.4 | 408 | | 0753 | 13.4 | 409 | | 0811 | 13.8 | 420 | | 0900 | 13.0 | 395 |
| | 1318 | 3.0 | 91 | | 1359 | 3.5 | 107 | | 1338 | 4.1 | 125 | | 1433 | 4.6 | 141 | | 1459 | 4.2 | 129 | | 1546 | 4.8 | 145 |
| | 1829 | 12.8 | 391 | | 1908 | 12.9 | 393 | | 1844 | 12.9 | 392 | | 1941 | 12.4 | 379 | | 2006 | 12.8 | 390 | | 2059 | 11.7 | 356 |
| 8 F | 0136 | 1.5 | 46 | 23 Sa | 0222 | 0.8 | 25 | 8 Su | 0156 | 1.5 | 46 | 23 M | 0254 | 1.7 | 53 | 8 W | 0316 | 1.7 | 51 | 23 Th | 0355 | 3.4 | 104 |
| | 0711 | 12.9 | 392 | | 0808 | 12.9 | 393 | | 0741 | 13.2 | 401 | | 0847 | 12.8 | 390 | | 0903 | 13.5 | 410 | | 0952 | 12.4 | 378 |
| | 1352 | 3.5 | 108 | | 1448 | 4.4 | 135 | | 1420 | 4.5 | 136 | | 1525 | 5.1 | 154 | | 1553 | 4.2 | 128 | | 1638 | 4.9 | 148 |
| | 1902 | 12.5 | 382 | | 1958 | 12.0 | 366 | | 1927 | 12.5 | 380 | | 2036 | 11.7 | 357 | | 2105 | 12.3 | 375 | | 2203 | 11.1 | 337 |
| 9 Sa | 0212 | 1.7 | 53 | 24 Su | 0314 | 1.7 | 51 | 9 M | 0240 | 1.7 | 53 | 24 Tu | 0345 | 2.5 | 76 | 9 Th | 0411 | 2.2 | 66 | 24 F | 0444 | 4.3 | 131 |
| | 0754 | 12.4 | 378 | | 0912 | 12.0 | 366 | | 0831 | 12.8 | 391 | | 0948 | 12.3 | 374 | | 1001 | 13.1 | 400 | | 1050 | 11.9 | 364 |
| | 1431 | 4.2 | 127 | | 1546 | 5.2 | 159 | | 1510 | 4.8 | 145 | | 1624 | 5.3 | 162 | | 1655 | 4.0 | 122 | | 1735 | 4.8 | 145 |
| | 1942 | 12.1 | 368 | | 2059 | 11.1 | 339 | | 2018 | 12.0 | 365 | | 2142 | 11.0 | 336 | | 2215 | 11.9 | 363 | | 2319 | 10.8 | 329 |
| 10 Su | 0254 | 2.1 | 63 | 25 M | 0414 | 2.5 | 76 | 10 Tu | 0331 | 2.1 | 63 | 25 W | 0440 | 3.2 | 98 | 10 F | 0512 | 2.7 | 83 | 25 Sa | 0542 | 5.1 | 156 |
| | 0846 | 11.9 | 362 | | 1033 | 11.4 | 348 | | 0929 | 12.5 | 380 | | 1056 | 11.9 | 362 | | 1105 | 12.9 | 394 | | 1151 | 11.7 | 356 |
| | 1519 | 4.9 | 148 | | 1656 | 5.7 | 174 | | 1610 | 5.0 | 151 | | 1729 | 5.3 | 161 | | 1802 | 3.6 | 109 | | 1836 | 4.5 | 138 |
| | 2030 | 11.5 | 349 | | 2219 | 10.5 | 319 | | 2121 | 11.5 | 349 | | 2257 | 10.6 | 322 | | 2334 | 11.8 | 361 | | | | |
| 11 M | 0346 | 2.4 | 74 | 26 Tu | 0524 | 3.1 | 96 | 11 W | 0432 | 2.4 | 72 | 26 Th | 0541 | 3.9 | 119 | 11 Sa | 0621 | 3.3 | 100 | 26 Su | 0637 | 10.9 | 333 |
| | 0950 | 11.4 | 347 | | 1201 | 11.3 | 343 | | 1037 | 12.3 | 374 | | 1203 | 11.7 | 357 | | 1213 | 12.9 | 394 | | 0648 | 5.6 | 172 |
| | 1621 | 5.4 | 164 | | 1816 | 5.7 | 173 | | 1720 | 4.8 | 146 | | 1835 | 5.0 | 151 | | 1910 | 2.9 | 89 | | 1248 | 11.6 | 354 |
| | 2134 | 10.8 | 330 | | 2346 | 10.2 | 312 | | 2239 | 11.2 | 341 | | | | | | | | | | 1937 | 4.1 | 124 |
| 12 Tu | 0451 | 2.7 | 82 | 27 W | 0639 | 3.5 | 106 | 12 Th | 0540 | 2.6 | 78 | 27 F | 0614 | 10.5 | 321 | 12 Su | 0655 | 12.2 | 371 | 27 M | 0747 | 11.4 | 347 |
| | 1113 | 11.2 | 342 | | 1308 | 11.4 | 347 | | 1152 | 12.3 | 376 | | 0646 | 4.4 | 133 | | 0732 | 3.7 | 113 | | 0754 | 5.8 | 178 |
| | 1740 | 5.4 | 166 | | 1931 | 5.2 | 157 | | 1833 | 4.2 | 129 | | 1300 | 11.7 | 357 | | 1314 | 13.1 | 399 | | 1337 | 11.8 | 359 |
| | 2301 | 10.5 | 320 | | | | | | | | 1937 | | 4.4 | 133 | 2015 | | 2.1 | 65 | 2032 | | 3.5 | 106 | |
| 13 W | 0608 | 2.7 | 82 | 28 Th | 0104 | 10.4 | 318 | 13 F | 0003 | 11.4 | 347 | 28 Sa | 0124 | 10.9 | 332 | 13 M | 0205 | 12.8 | 390 | 28 Tu | 0243 | 12.0 | 367 |
| | 1240 | 11.5 | 352 | | 0748 | 3.5 | 107 | | 0653 | 2.6 | 79 | | 0748 | 4.6 | 140 | | 0839 | 3.9 | 120 | | 0852 | 5.8 | 176 |
| | 1903 | 4.9 | 150 | | 1359 | 11.6 | 355 | | 1258 | 12.7 | 386 | | 1348 | 11.8 | 360 | | 1409 | 13.3 | 405 | | 1421 | 12.1 | 370 |
| | | | | | 2030 | 4.4 | 133 | | 1942 | 3.3 | 102 | | 2029 | 3.7 | 113 | | 2113 | 1.4 | 44 | | 2122 | 2.9 | 87 |
| 14 Th | 0033 | 10.9 | 331 | 29 F | 0205 | 10.9 | 333 | 14 Sa | 0117 | 12.0 | 367 | 29 Su | 0221 | 11.5 | 350 | 14 Tu | 0304 | 13.5 | 411 | 29 W | 0328 | 12.7 | 387 |
| | 0727 | 2.3 | 71 | | 0844 | 3.4 | 105 | | 0802 | 2.5 | 76 | | 0844 | 4.7 | 142 | | 0939 | 4.0 | 123 | | 0944 | 5.5 | 169 |
| | 1343 | 12.2 | 371 | | 1440 | 11.9 | 364 | | 1352 | 13.2 | 401 | | 1428 | 12.0 | 366 | | 1459 | 13.5 | 411 | | 1503 | 12.6 | 384 |
| | 2015 | 3.9 | 119 | | 2116 | 3.6 | 109 | | 2042 | 2.3 | 70 | | 2115 | 3.1 | 94 | | 2207 | 0.9 | 27 | | 2208 | 2.3 | 69 |
| 15 F | 0145 | 11.7 | 357 | 30 Sa | 0253 | 11.5 | 352 | 15 Su | 0220 | 12.9 | 392 | 30 M | 0307 | 12.1 | 369 | 15 W | 0355 | 14.0 | 427 | 30 Th | 0406 | 13.3 | 406 |
| | 0836 | 1.7 | 53 | | 0931 | 3.4 | 103 | | 0903 | 2.4 | 73 | | 0931 | 4.6 | 140 | | 1033 | 4.1 | 124 | | 1029 | 5.2 | 159 |
| | 1432 | 12.9 | 393 | | 1514 | 12.2 | 371 | | 1439 | 13.6 | 414 | | 1502 | 12.3 | 374 | | 1546 | 13.7 | 417 | | 1542 | 13.1 | 399 |
| | 2112 | 2.8 | 84 | | 2155 | 2.9 | 87 | | 2135 | 1.3 | 41 | | 2156 | 2.5 | 76</ | | | | | | | | |

Qingdao (Da Gang), China, 2011

Times and Heights of High and Low Waters

| July | | | | August | | | | September | | | | | | | | | | | | | | | |
|---------------------|--------|------|------|-----------------|------|------|--------|-----------------|------|--------|------|-----------------|--------|------|------|-----------------|------|------|------|-----------------|------|------|-----|
| Time | Height | | Time | Height | | Time | Height | | Time | Height | | Time | Height | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | |
| 1 F ● | 0441 | 13.8 | 422 | 16 Sa | 0514 | 14.3 | 437 | 1 M | 0527 | 15.1 | 460 | 16 Tu | 0028 | 1.7 | 51 | | | | | | | | |
| | 1112 | 4.8 | 146 | | 1155 | 4.4 | 134 | | 1214 | 3.2 | 99 | | 0554 | 14.3 | 436 | 1 Th | 0051 | 0.5 | 16 | | | | |
| | 1620 | 13.6 | 415 | | 1702 | 14.0 | 427 | | 1723 | 15.2 | 463 | | 1245 | 3.4 | 104 | | 1312 | 1.3 | 39 | | | | |
| | 2331 | 1.3 | 39 | | | | | | | | | | 1754 | 14.2 | 434 | | 1828 | 15.7 | 478 | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| 2 Sa | 0516 | 14.3 | 435 | 17 Su | 0014 | 1.0 | 31 | 2 Tu | 0034 | 0.3 | 10 | 17 W | 0059 | 2.0 | 61 | 2 F | 0131 | 1.2 | 37 | 17 Sa | 0130 | 3.5 | 108 |
| | 1153 | 4.4 | 134 | | 0549 | 14.4 | 440 | | 0602 | 15.3 | 467 | | 0623 | 14.2 | 433 | | 0647 | 15.2 | 463 | | 0638 | 13.6 | 414 |
| | 1659 | 14.0 | 427 | | 1233 | 4.2 | 127 | | 1254 | 2.8 | 84 | | 1318 | 3.3 | 100 | | 1353 | 1.3 | 39 | | 1349 | 2.8 | 86 |
| | | | 1740 | | 14.1 | 430 | 1804 | | 15.4 | 468 | 1828 | | 14.0 | 427 | 1914 | | 15.0 | 456 | 1912 | | 13.4 | 408 | |
| 3 Su | 0011 | 1.0 | 29 | 18 M | 0051 | 1.2 | 36 | 3 W | 0113 | 0.4 | 12 | 18 Th | 0130 | 2.5 | 76 | 3 Sa | 0213 | 2.3 | 70 | 18 Su | 0201 | 4.2 | 128 |
| | 0550 | 14.6 | 445 | | 0624 | 14.4 | 438 | | 0638 | 15.3 | 466 | | 0651 | 14.0 | 426 | | 0728 | 14.5 | 442 | | 0709 | 13.2 | 402 |
| | 1233 | 4.0 | 122 | | 1310 | 4.0 | 123 | | 1335 | 2.5 | 75 | | 1351 | 3.3 | 101 | | 1439 | 1.6 | 49 | | 1422 | 3.1 | 94 |
| | 1738 | 14.3 | 435 | | 1817 | 14.0 | 426 | | 1846 | 15.2 | 462 | | 1903 | 13.6 | 415 | | 2006 | 13.9 | 423 | | 1954 | 12.8 | 389 |
| 4 M | 0051 | 0.8 | 23 | 19 Tu | 0126 | 1.5 | 47 | 4 Th | 0153 | 0.9 | 26 | 19 F | 0201 | 3.1 | 96 | 4 Su | 0300 | 3.7 | 112 | 19 M | 0236 | 5.0 | 152 |
| | 0626 | 14.8 | 450 | | 0659 | 14.2 | 433 | | 0717 | 15.1 | 459 | | 0720 | 13.5 | 413 | | 0814 | 13.5 | 412 | | 0745 | 12.7 | 386 |
| | 1313 | 3.7 | 113 | | 1347 | 4.0 | 121 | | 1417 | 2.3 | 71 | | 1424 | 3.5 | 107 | | 1531 | 2.2 | 67 | | 1502 | 3.4 | 105 |
| | 1819 | 14.3 | 437 | | 1855 | 13.6 | 415 | | 1932 | 14.6 | 445 | | 1941 | 13.0 | 397 | | 2112 | 12.7 | 388 | | 2046 | 12.1 | 368 |
| 5 Tu | 0131 | 0.7 | 22 | 20 W | 0200 | 2.1 | 63 | 5 F | 0236 | 1.7 | 52 | 20 Sa | 0233 | 4.0 | 121 | 5 M | 0356 | 5.1 | 156 | 20 Tu | 0319 | 5.8 | 177 |
| | 0704 | 14.8 | 450 | | 0734 | 13.9 | 423 | | 0759 | 14.5 | 443 | | 0752 | 13.0 | 397 | | 0913 | 12.4 | 379 | | 0830 | 12.0 | 367 |
| | 1356 | 3.5 | 107 | | 1425 | 4.0 | 122 | | 1504 | 2.4 | 73 | | 1500 | 3.8 | 115 | | 1635 | 2.9 | 89 | | 1551 | 3.8 | 116 |
| | 1903 | 14.2 | 433 | | 1934 | 13.1 | 398 | | 2025 | 13.7 | 418 | | 2026 | 12.3 | 376 | | 2248 | 11.9 | 362 | | 2158 | 11.5 | 351 |
| 6 W | 0213 | 1.0 | 29 | 21 Th | 0235 | 2.8 | 85 | 6 Sa | 0322 | 2.9 | 89 | 21 Su | 0309 | 4.9 | 150 | 6 Tu | 0511 | 6.3 | 191 | 21 W | 0415 | 6.5 | 198 |
| | 0746 | 14.5 | 443 | | 0810 | 13.4 | 407 | | 0847 | 13.8 | 420 | | 0828 | 12.5 | 380 | | 1038 | 11.6 | 353 | | 0934 | 11.4 | 347 |
| | 1440 | 3.4 | 103 | | 1504 | 4.2 | 127 | | 1557 | 2.7 | 81 | | 1542 | 4.1 | 125 | | 1758 | 3.4 | 103 | | 1654 | 4.0 | 123 |
| | 1950 | 13.8 | 420 | | 2018 | 12.4 | 378 | | 2129 | 12.7 | 388 | | 2123 | 11.6 | 355 | | | | | | 2336 | 11.5 | 349 |
| 7 Th | 0257 | 1.5 | 45 | 22 F | 0311 | 3.7 | 112 | 7 Su | 0418 | 4.3 | 131 | 22 M | 0353 | 5.9 | 179 | 7 W | 0051 | 12.0 | 365 | 22 Th | 0534 | 6.8 | 207 |
| | 0832 | 14.2 | 432 | | 0849 | 12.8 | 389 | | 0945 | 13.0 | 395 | | 0915 | 11.9 | 362 | | 0649 | 6.6 | 201 | | 1109 | 11.1 | 339 |
| | 1530 | 3.3 | 101 | | 1547 | 4.4 | 133 | | 1701 | 3.0 | 90 | | 1635 | 4.4 | 133 | | 1220 | 11.5 | 349 | | 1812 | 3.9 | 120 |
| | 2045 | 13.2 | 401 | | 2110 | 11.7 | 357 | | 2255 | 12.0 | 366 | | 2246 | 11.2 | 340 | | 1930 | 3.2 | 99 | | | | |
| 8 F ● | 0347 | 2.3 | 71 | 23 Sa | 0352 | 4.7 | 142 | 8 M | 0529 | 5.5 | 169 | 23 Tu | 0452 | 6.7 | 205 | 8 Th | 0202 | 12.4 | 379 | 23 F | 0058 | 12.0 | 365 |
| | 0923 | 13.7 | 417 | | 0933 | 12.2 | 371 | | 1059 | 12.2 | 373 | | 1023 | 11.4 | 348 | | 0817 | 6.1 | 187 | | 0705 | 6.4 | 194 |
| | 1626 | 3.3 | 100 | | 1635 | 4.6 | 139 | | 1818 | 3.1 | 94 | | 1741 | 4.4 | 135 | | 1339 | 11.9 | 362 | | 1240 | 11.6 | 353 |
| | 2151 | 12.5 | 380 | | 2218 | 11.2 | 340 | | | | | | | | | | 2043 | 2.8 | 84 | | 1935 | 3.4 | 103 |
| 9 Sa | 0444 | 3.4 | 103 | 24 Su | 0442 | 5.6 | 172 | 9 Tu | 0049 | 12.0 | 366 | 24 W | 0028 | 11.3 | 344 | 9 F | 0251 | 12.9 | 394 | 24 Sa | 0154 | 12.8 | 389 |
| | 1023 | 13.2 | 401 | | 1029 | 11.7 | 356 | | 0657 | 6.2 | 189 | | 0613 | 7.1 | 217 | | 0917 | 5.3 | 162 | | 0820 | 5.3 | 163 |
| | 1731 | 3.1 | 96 | | 1733 | 4.6 | 140 | | 1226 | 12.0 | 366 | | 1155 | 11.4 | 346 | | 1436 | 12.5 | 381 | | 1345 | 12.5 | 381 |
| | 2311 | 12.0 | 367 | | 2344 | 11.0 | 335 | | 1942 | 2.9 | 87 | | 1859 | 4.1 | 125 | | 2138 | 2.3 | 69 | | 2043 | 2.5 | 76 |
| 10 Su | 0552 | 4.4 | 134 | 25 M | 0546 | 6.4 | 195 | 10 W | 0210 | 12.5 | 382 | 25 Th | 0143 | 11.9 | 363 | 10 Sa | 0329 | 13.3 | 406 | 25 Su | 0239 | 13.6 | 415 |
| | 1132 | 12.8 | 389 | | 1139 | 11.5 | 349 | | 0822 | 6.1 | 186 | | 0741 | 6.9 | 209 | | 1002 | 4.6 | 139 | | 0916 | 4.1 | 126 |
| | 1842 | 2.9 | 87 | | 1839 | 4.4 | 134 | | 1343 | 12.2 | 373 | | 1312 | 11.8 | 360 | | 1520 | 13.1 | 398 | | 1438 | 13.6 | 414 |
| | | | | | | | | | 2054 | 2.4 | 72 | | 2015 | 3.4 | 104 | | 2221 | 2.0 | 61 | | 2137 | 1.6 | 49 |
| 11 M | 0043 | 12.1 | 369 | 26 Tu | 0110 | 11.3 | 344 | 11 Th | 0306 | 13.1 | 400 | 26 F | 0235 | 12.8 | 389 | 11 Su | 0401 | 13.6 | 414 | 26 M | 0318 | 14.4 | 438 |
| | 0710 | 5.1 | 155 | | 0702 | 6.8 | 206 | | 0928 | 5.6 | 171 | | 0851 | 6.0 | 184 | | 1040 | 3.9 | 119 | | 1003 | 2.9 | 89 |
| | 1243 | 12.6 | 385 | | 1246 | 11.6 | 353 | | 1444 | 12.7 | 388 | | 1412 | 12.6 | 385 | | 1557 | 13.5 | 413 | | 1524 | 14.6 | 446 |
| | 1954 | 2.4 | 73 | | 1947 | 3.9 | 119 | | 2152 | 1.9 | 57 | | 2116 | 2.5 | 76 | | 2258 | 2.0 | 60 | | 2224 | 0.9 | 28 |
| 12 Tu | 0204 | 12.6 | 385 | 27 W | 0217 | 11.9 | 364 | 12 F | 0348 | 13.6 | 414 | 27 Sa | 0316 | 13.6 | 415 | 12 M | 0429 | 13.8 | 420 | 27 Tu | 0354 | 15.0 | 457 |
| | 0826 | 5.3 | 162 | | 0816 | 6.6 | 202 | | 1019 | 5.0 | 153 | | 0944 | 5.0 | 152 | | 1114 | 3.4 | 103 | | 1046 | 1.8 | 56 |
| | 1349 | 12.7 | 388 | | 1345 | 12.0 | 366 | | 1532 | 13.3 | 405 | | 1501 | 13.6 | 414 | | 1630 | 13.9 | 423 | | 1606 | 15.5 | 471 |
| | 2100 | 1.9 | 57 | | 2049 | 3.2 | 98 | | 2240 | 1.5 | 46 | | 2206 | 1.6 | 49 | | 2331 | 2.1 | 64 | | 2307 | 0.6 | 18 |
| 13 W | 0305 | 13.3 | 404 | 28 Th | 0306 | 12.7 | 388 | 13 Sa | 0423 | 13.9 | 424 | 28 Su | 0351 | 14.4 | 438 | 13 Tu | 0455 | 13.9 | 425 | 28 W | 0429 | 15.4 | 470 |
| | 0932 | 5.2 | 159 | | 0917 | 6.1 | 187 | | 1100 | 4.5 | 137 | | 1030 | 3.9 | 120 | | 1146 | 3.0 | 90 | | 1127 | 1.0 | 30 |
| | 1447 | 13.0 | 397 | | 1436 | 12.6 | 385 | | 1612 | 13.7 | 419 | | 1545 | 14.5 | 443 | | 1701 | 14.1 | 430 | | 1647 | 15.9 | 486 |
| | 2158 | 1.4 | 43 | | 2143 | 2.4 | 74 | | 2320 | 1.4 | 43 | | 2251 | 0.9 | 26 | | | | | | 2348 | 0.7 | 20 |
| 14 Th | 0354 | 13.8 | 420 | 29 F | 0346 | 13.5 | 411 | 14 Su | 0455 | 14.1 | 431 | 29 M | 0426 | 15.0 | 457 | 14 W | 0001 | 2.3 | 70 | 29 Th | 0504 | 15.6 | 475 |
| | 1027 | 5.0 | 151 | | 1008 | 5.4 | 165 | | 1137 | 4.1 | 124 | | 1112 | 3.0 | 90 | | 0520 | 14.0 | 427 | | 1208 | 0.4 | 13 |
| | 1538 | 13.4 | 408 | | 1522 | 13.4 | 407 | | 1648 | 14.1 | 429 | | 1626 | 15.3 | 467 | | 1217 | 2.7 | 82 | | 1729 | 16.0 | 488 |
| | 2249 | 1.1 | 34 | | 2230 | 1.7 | 52 | | 2355 | 1.5 | 45 | | 2332 | 0.4 | 12 | | 1731 | 14.2 | 433 | | | | |
| 15 F ○ | 0436 | 14.1 | 431 | 30 Sa | 0420 | 14.1 | 431 | 15 M | 0525 | 14.3 | 435 | 30 Tu | 0459 | 15.4 | 470 | 15 Th | 0031 | 2.6 | 79 | 30 F | 0029 | 1.1 | 33 |
| | 1113 | 4.7 | 142 | | 1053 | 4.7 | 142 | | 1212 | 3.7 | 112 | | 1152 | 2.2 | 66 | | 0545 | 14.0 | 426 | | 0541 | 15.4 | 470 |
| | 1622 | 13.7 | 419 | | 1604 | 14.1 | 429 | | 1721 | 14.2 | 434 | | 1706 | 15.8 | 483 | | 1247 | 2.6 | 78 | | 1249 | 0.2 | 7 |
| | 2334 | 1.0 | 30 | | 2313 | 1.0 | 32 | | | | | | | | | | 1803 | 14.1 | | | | | |

Qingdao (Da Gang), China, 2011

Times and Heights of High and Low Waters

| October | | | | November | | | | December | | | | | | | | | | | | | | | | | | | | | |
|-----------------|------|------|--------|----------|-----------------|------|------|----------|----|-----------------|------|------|--------|----|-----------------|------|------|-----|--|-----------------|------|------|-----|------|-----------------|------|------|-----|--|
| | Time | | Height | | | Time | | Height | | | Time | | Height | | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | | | | | | |
| 1 Sa | 0110 | 1.9 | 58 | | 16 Su | 0103 | 3.8 | 115 | | 1 Tu | 0224 | 4.2 | 128 | | 16 W | 0157 | 4.2 | 127 | | 1 Th | 0257 | 4.1 | 126 | | 16 F | 0227 | 3.2 | 98 | |
| | 0619 | 14.9 | 455 | | | 0606 | 13.4 | 409 | | | 0731 | 12.7 | 386 | | | 0703 | 12.6 | 383 | | | 0811 | 11.7 | 357 | | | 0738 | 12.4 | 377 | |
| | 1331 | 0.5 | 14 | | | 1320 | 2.1 | 65 | | | 1449 | 1.5 | 47 | | | 1415 | 1.8 | 56 | | | 1518 | 2.0 | 60 | | | 1444 | 1.2 | 37 | |
| | 1859 | 14.9 | 453 | | | 1850 | 13.5 | 410 | | | 2041 | 12.6 | 383 | | | 2001 | 12.8 | 390 | | | 2114 | 11.9 | 364 | | | 2026 | 12.8 | 390 | |
| 2 Su | 0153 | 3.0 | 91 | | 17 M | 0136 | 4.2 | 129 | | 2 W | 0319 | 5.0 | 153 | | 17 Th | 0242 | 4.4 | 135 | | 2 F | 0352 | 4.5 | 138 | | 17 Sa | 0314 | 3.2 | 99 | |
| | 0701 | 14.1 | 430 | | | 0639 | 13.1 | 400 | | | 0832 | 11.6 | 355 | | | 0750 | 12.0 | 366 | | | 0915 | 10.9 | 332 | | | 0831 | 11.9 | 362 | |
| | 1417 | 1.0 | 31 | | | 1354 | 2.4 | 72 | | | 1547 | 2.5 | 75 | | | 1501 | 2.1 | 65 | | | 1612 | 2.9 | 87 | | | 1532 | 1.6 | 50 | |
| | 1952 | 13.8 | 420 | | | 1931 | 13.0 | 396 | | | 2159 | 11.8 | 360 | | | 2055 | 12.4 | 378 | | | 2220 | 11.4 | 347 | | | 2118 | 12.4 | 378 | |
| 3 M | 0241 | 4.2 | 128 | | 18 Tu | 0213 | 4.8 | 145 | | 3 Th | 0426 | 5.6 | 170 | | 18 F | 0334 | 4.6 | 140 | | 3 Sa | 0456 | 4.7 | 142 | | 18 Su | 0409 | 3.2 | 99 | |
| | 0749 | 13.1 | 398 | | | 0718 | 12.6 | 385 | | | 0953 | 10.9 | 331 | | | 0849 | 11.5 | 349 | | | 1031 | 10.3 | 314 | | | 0933 | 11.4 | 347 | |
| | 1508 | 1.9 | 58 | | | 1434 | 2.7 | 81 | | | 1656 | 3.2 | 99 | | | 1555 | 2.5 | 75 | | | 1713 | 3.7 | 112 | | | 1628 | 2.2 | 68 | |
| | 2058 | 12.6 | 385 | | | 2021 | 12.4 | 379 | | | 2330 | 11.5 | 352 | | | 2158 | 12.1 | 369 | | | 2332 | 11.1 | 339 | | | 2219 | 12.0 | 367 | |
| 4 Tu | 0337 | 5.4 | 165 | | 19 W | 0257 | 5.3 | 162 | | 4 F | 0549 | 5.6 | 172 | | 19 Sa | 0437 | 4.6 | 140 | | 4 Su | 0607 | 4.5 | 137 | | 19 M | 0513 | 3.1 | 94 | |
| | 0850 | 11.9 | 363 | | | 0805 | 12.0 | 366 | | | 1125 | 10.6 | 322 | | | 1003 | 11.1 | 338 | | | 1152 | 10.1 | 308 | | | 1049 | 11.1 | 338 | |
| | 1611 | 2.8 | 86 | | | 1521 | 3.0 | 92 | | | 1815 | 3.7 | 112 | | | 1659 | 2.7 | 83 | | | 1823 | 4.2 | 129 | | | 1734 | 2.9 | 87 | |
| | 2235 | 11.8 | 361 | | | 2124 | 12.0 | 365 | | | 1930 | 3.8 | 115 | | | 2310 | 12.1 | 368 | | | 1933 | 4.5 | 136 | | | 2327 | 11.9 | 362 | |
| 5 W | 0453 | 6.2 | 190 | | 20 Th | 0352 | 5.8 | 176 | | 5 Sa | 0041 | 11.6 | 354 | | 20 Su | 0550 | 4.2 | 128 | | 5 M | 0036 | 11.1 | 337 | | 20 Tu | 0624 | 2.7 | 81 | |
| | 1021 | 11.1 | 338 | | | 0907 | 11.4 | 346 | | | 0711 | 5.1 | 155 | | | 1127 | 11.2 | 341 | | | 0717 | 4.0 | 122 | | | 1211 | 11.2 | 341 | |
| | 1733 | 3.4 | 105 | | | 1620 | 3.3 | 102 | | | 1243 | 10.7 | 327 | | | 1812 | 2.8 | 86 | | | 1307 | 10.4 | 316 | | | 1849 | 3.3 | 101 | |
| | | | | | | 2244 | 11.8 | 359 | | | 1930 | 3.8 | 115 | | | 2019 | 12.3 | 376 | | | 1933 | 4.5 | 136 | | | | | | |
| 6 Th | 0024 | 11.8 | 360 | | 21 F | 0505 | 5.9 | 179 | | 6 Su | 0134 | 11.8 | 361 | | 21 M | 0019 | 12.3 | 376 | | 6 Tu | 0128 | 11.1 | 339 | | 21 W | 0035 | 11.9 | 364 | |
| | 0630 | 6.3 | 193 | | | 1034 | 11.0 | 335 | | | 0813 | 4.3 | 130 | | | 0703 | 3.4 | 104 | | | 0815 | 3.3 | 102 | | | 0736 | 2.0 | 61 | |
| | 1203 | 11.0 | 336 | | | 1733 | 3.4 | 104 | | | 1346 | 11.2 | 341 | | | 1243 | 11.7 | 358 | | | 1407 | 10.9 | 331 | | | 1328 | 11.7 | 356 | |
| | 1904 | 3.5 | 107 | | | | | | | | 2029 | 3.7 | 112 | | | 1926 | 2.7 | 83 | | | 2032 | 4.5 | 136 | | | 2004 | 3.4 | 105 | |
| 7 F | 0131 | 12.1 | 370 | | 22 Sa | 0006 | 12.0 | 367 | | 7 M | 0217 | 12.1 | 368 | | 22 Tu | 0117 | 12.8 | 390 | | 7 W | 0212 | 11.3 | 344 | | 22 Th | 0136 | 12.2 | 372 | |
| | 0755 | 5.7 | 173 | | | 0628 | 5.4 | 164 | | | 0900 | 3.4 | 105 | | | 0809 | 2.4 | 72 | | | 0903 | 2.7 | 83 | | | 0842 | 1.2 | 37 | |
| | 1319 | 11.4 | 348 | | | 1205 | 11.4 | 346 | | | 1435 | 11.7 | 353 | | | 1348 | 12.6 | 383 | | | 1455 | 11.4 | 348 | | | 1434 | 12.4 | 377 | |
| | 2017 | 3.2 | 97 | | | 1853 | 3.1 | 95 | | | 2117 | 3.6 | 110 | | | 2032 | 2.5 | 76 | | | 2121 | 4.3 | 131 | | | 2110 | 3.3 | 102 | |
| 8 Sa | 0220 | 12.5 | 381 | | 23 Su | 0109 | 12.7 | 386 | | 8 Tu | 0253 | 12.3 | 374 | | 23 W | 0207 | 13.3 | 405 | | 8 Th | 0250 | 11.5 | 352 | | 23 F | 0231 | 12.5 | 381 | |
| | 0852 | 4.8 | 145 | | | 0743 | 4.4 | 133 | | | 0940 | 2.7 | 83 | | | 0906 | 1.3 | 39 | | | 0945 | 2.2 | 66 | | | 0940 | 0.5 | 15 | |
| | 1416 | 12.0 | 365 | | | 1315 | 12.2 | 372 | | | 1516 | 12.2 | 373 | | | 1444 | 13.4 | 409 | | | 1535 | 12.0 | 365 | | | 1528 | 13.0 | 396 | |
| | 2110 | 2.9 | 87 | | | 2005 | 2.5 | 76 | | | 2157 | 3.5 | 108 | | | 2129 | 2.3 | 70 | | | 2203 | 4.1 | 125 | | | 2207 | 3.2 | 97 | |
| 9 Su | 0258 | 12.8 | 391 | | 24 M | 0159 | 13.4 | 408 | | 9 W | 0323 | 12.5 | 380 | | 24 Th | 0253 | 13.7 | 418 | | 9 F | 0323 | 11.9 | 362 | | 24 Sa | 0322 | 12.9 | 392 | |
| | 0936 | 3.9 | 119 | | | 0843 | 3.1 | 96 | | | 1016 | 2.2 | 67 | | | 0956 | 0.4 | 12 | | | 1024 | 1.7 | 52 | | | 1032 | 0.0 | 0 | |
| | 1500 | 12.5 | 381 | | | 1412 | 13.3 | 404 | | | 1551 | 12.7 | 388 | | | 1534 | 14.1 | 429 | | | 1610 | 12.4 | 378 | | | 1616 | 13.5 | 411 | |
| | 2153 | 2.7 | 83 | | | 2104 | 1.8 | 56 | | | 2232 | 3.5 | 107 | | | 2220 | 2.2 | 68 | | | 2241 | 3.9 | 119 | | | 2257 | 3.0 | 91 | |
| 10 M | 0329 | 13.1 | 398 | | 25 Tu | 0242 | 14.0 | 428 | | 10 Th | 0350 | 12.7 | 386 | | 25 F | 0336 | 14.0 | 427 | | 10 Sa | 0355 | 12.2 | 373 | | 25 Su | 0409 | 13.2 | 401 | |
| | 1013 | 3.2 | 97 | | | 0934 | 1.9 | 58 | | | 1050 | 1.8 | 55 | | | 1044 | -0.2 | -7 | | | 1100 | 1.3 | 41 | | | 1120 | -0.3 | -8 | |
| | 1537 | 13.0 | 396 | | | 1502 | 14.2 | 434 | | | 1623 | 13.1 | 399 | | | 1621 | 14.5 | 442 | | | 1643 | 12.8 | 389 | | | 1700 | 13.7 | 418 | |
| | 2230 | 2.7 | 83 | | | 2155 | 1.4 | 43 | | | 2305 | 3.5 | 106 | | | 2308 | 2.3 | 71 | | | 2316 | 3.7 | 112 | | | 2343 | 2.8 | 86 | |
| 11 Tu | 0357 | 13.3 | 404 | | 26 W | 0322 | 14.6 | 445 | | 11 F | 0417 | 12.9 | 392 | | 26 Sa | 0419 | 14.1 | 430 | | 11 Su | 0426 | 12.6 | 383 | | 26 M | 0454 | 13.4 | 407 | |
| | 1046 | 2.6 | 80 | | | 1020 | 0.9 | 26 | | | 1123 | 1.6 | 48 | | | 1130 | -0.5 | -16 | | | 1136 | 1.1 | 33 | | | 1205 | -0.3 | -10 | |
| | 1610 | 13.4 | 408 | | | 1548 | 15.0 | 457 | | | 1654 | 13.3 | 406 | | | 1706 | 14.6 | 445 | | | 1715 | 13.1 | 398 | | | 1742 | 13.7 | 419 | |
| | 2302 | 2.8 | 86 | | | 2241 | 1.3 | 39 | | | 2337 | 3.5 | 107 | | | 2353 | 2.5 | 77 | | | 2352 | 3.5 | 106 | | | | | | |
| 12 W | 0422 | 13.4 | 408 | | 27 Th | 0400 | 15.0 | 456 | | 12 Sa | 0444 | 13.1 | 398 | | 27 Su | 0501 | 14.0 | 428 | | 12 M | 0500 | 12.8 | 391 | | 27 Tu | 0026 | 2.8 | 84 | |
| | 1118 | 2.2 | 68 | | | 1103 | 0.1 | 3 | | | 1154 | 1.4 | 44 | | | 1214 | -0.5 | -14 | | | 1210 | 0.9 | 28 | | | 0536 | 13.4 | 408 | |
| | 1640 | 13.7 | 418 | | | 1631 | 15.5 | 471 | | | 1726 | 13.5 | 410 | | | 1751 | 14.4 | 439 | | | 1748 | 13.3 | 404 | | | 1247 | -0.2 | -5 | |
| | 2333 | 3.0 | 90 | | | 2326 | 1.4 | 44 | | | | | | | | | | | | | | | | 1823 | | 13.6 | 414 | | |
| 13 Th | 0446 | 13.5 | 411 | | 28 F | 0438 | 15.0 | 458 | | 13 Su | 0009 | 3.6 | 109 | | 28 M | 0038 | 2.9 | 87 | | 13 Tu | 0027 | 3.3 | 102 | | 28 W | 0107 | 2.8 | 84 | |
| | 1149 | 2.0 | 61 | | | 1146 | -0.3 | -10 | | | 0513 | 13.2 | 401 | | | 0545 | 13.7 | 419 | | | 0535 | 13.0 | 395 | | | 0619 | 13.2 | 402 | |
| | 1710 | 13.9 | 423 | | | 1715 | 15.5 | 472 | | | 1226 | 1.4 | 43 | | | 1259 | -0.1 | -4 | | | 1245 | 0.9 | 26 | | | 1328 | 0.2 | 7 | |
| | | | | | | | | | | | 1759 | 13.5 | 410 | | | 1837 | 13.9 | 425 | | | 1822 | 13.3 | 406 | | | | | | |

Lianyun Gang, China, 2011

Times and Heights of High and Low Waters

| January | | | | February | | | | March | | | | | | | | | | | | | | | | | | |
|-----------------|------|------|--------|-----------------|------|------|--------|-----------------|------|------|--------|-----------------|------|------|--------|-----------------|------|------|------|-----------------|------|------|-----|------|------|-----|
| | Time | | Height | | Time | | Height | | Time | | Height | | Time | | Height | | | | | | | | | | | |
| | h | m | | | ft | cm | | | h | m | | | ft | cm | | h | m | ft | cm | | | | | | | |
| 1 Sa | 0257 | 14.2 | 432 | 16 Su | 0232 | 13.0 | 396 | 1 Tu | 0448 | 13.8 | 422 | 16 W | 0407 | 13.9 | 425 | 1 Tu | 0342 | 12.8 | 390 | 16 W | 0229 | 13.1 | 399 | | | |
| | 1007 | 2.3 | 71 | | 0935 | 3.8 | 115 | | 1200 | 2.0 | 61 | | 1107 | 2.2 | 67 | | 1049 | 2.9 | 88 | | 0929 | 3.1 | 94 | | | |
| | 1606 | 14.8 | 450 | | 1557 | 13.7 | 419 | | 1750 | 15.2 | 462 | | 1714 | 15.4 | 470 | | 1654 | 14.4 | 440 | | 1555 | 14.6 | 445 | 1555 | 14.6 | 445 |
| | 2236 | 5.1 | 155 | | 2205 | 5.9 | 181 | | | | | | 2339 | 4.4 | 133 | | 2319 | 5.5 | 167 | | 2319 | 5.5 | 167 | 2217 | 5.2 | 159 |
| 2 Su | 0358 | 14.3 | 437 | 17 M | 0336 | 13.5 | 411 | 2 W | 0020 | 4.8 | 147 | 17 Th | 0458 | 15.1 | 460 | 2 W | 0439 | 13.5 | 413 | 17 Th | 0342 | 14.1 | 429 | | | |
| | 1109 | 1.9 | 58 | | 1036 | 3.0 | 91 | | 0532 | 14.5 | 442 | | 1202 | 1.2 | 38 | | 1145 | 2.4 | 73 | | 1038 | 2.2 | 67 | | | |
| | 1704 | 15.3 | 467 | | 1650 | 14.7 | 447 | | 1246 | 1.7 | 52 | | 1753 | 16.2 | 495 | | 1735 | 14.9 | 455 | | 1644 | 15.6 | 474 | | | |
| | 2335 | 4.9 | 149 | | 2306 | 5.3 | 161 | | 1826 | 15.5 | 473 | | | | | | | | 2316 | | 3.9 | 120 | | | | |
| 3 M | 0450 | 14.7 | 447 | 18 Tu | 0429 | 14.2 | 434 | 3 Th | 0057 | 4.3 | 130 | 18 F | 0027 | 3.3 | 101 | 3 Th | 0005 | 4.7 | 142 | 18 F | 0437 | 15.3 | 467 | | | |
| | 1203 | 1.6 | 49 | | 1130 | 2.2 | 66 | | 0609 | 15.1 | 460 | | 0542 | 16.2 | 493 | | 0521 | 14.3 | 436 | | 1136 | 1.3 | 40 | | | |
| | 1752 | 15.7 | 480 | | 1735 | 15.5 | 473 | | 1322 | 1.6 | 49 | | 1250 | 0.5 | 15 | | 1228 | 2.1 | 64 | | 1228 | 2.1 | 64 | | | |
| | | | | | 2357 | 4.5 | 137 | | 1856 | 15.8 | 481 | | 1829 | 16.9 | 514 | | 1807 | 15.3 | 466 | | 1807 | 15.3 | 466 | | | |
| 4 Tu | 0024 | 4.7 | 142 | 19 W | 0515 | 15.1 | 461 | 4 F | 0129 | 3.8 | 115 | 19 Sa | 0111 | 2.4 | 74 | 4 F | 0041 | 3.9 | 119 | 19 Sa | 0006 | 2.7 | 83 | | | |
| | 0536 | 15.1 | 459 | | 1220 | 1.4 | 43 | | 0642 | 15.5 | 473 | | 0623 | 17.0 | 519 | | 0555 | 14.9 | 455 | | 0523 | 16.5 | 502 | | | |
| | 1250 | 1.5 | 45 | | 1814 | 16.2 | 495 | | 1351 | 1.6 | 49 | | 1333 | 0.0 | 1 | | 1302 | 2.0 | 61 | | 1226 | 0.7 | 21 | | | |
| | 1834 | 16.0 | 488 | | | | | | 1925 | 15.9 | 486 | | 1903 | 17.3 | 527 | | 1834 | 15.6 | 474 | | 1800 | 17.1 | 520 | | | |
| 5 W | 0104 | 4.4 | 135 | 20 Th | 0043 | 3.8 | 115 | 5 Sa | 0158 | 3.3 | 102 | 20 Su | 0152 | 1.8 | 55 | 5 Sa | 0111 | 3.2 | 99 | 20 Su | 0051 | 1.7 | 53 | | | |
| | 0616 | 15.4 | 470 | | 0557 | 16.0 | 487 | | 0715 | 15.8 | 482 | | 0704 | 17.5 | 533 | | 0627 | 15.4 | 470 | | 0606 | 17.3 | 527 | | | |
| | 1330 | 1.5 | 45 | | 1305 | 0.8 | 24 | | 1417 | 1.7 | 52 | | 1413 | 0.0 | -1 | | 1330 | 2.0 | 62 | | 1311 | 0.5 | 14 | | | |
| | 1911 | 16.1 | 492 | | 1851 | 16.8 | 511 | | 1952 | 16.1 | 490 | | 1938 | 17.4 | 531 | | 1858 | 15.7 | 480 | | 1835 | 17.4 | 531 | | | |
| 6 Th | 0139 | 4.2 | 129 | 21 F | 0125 | 3.1 | 96 | 6 Su | 0228 | 3.0 | 92 | 21 M | 0232 | 1.4 | 42 | 6 Su | 0139 | 2.8 | 85 | 21 M | 0133 | 1.0 | 32 | | | |
| | 0653 | 15.7 | 478 | | 0637 | 16.6 | 507 | | 0748 | 15.8 | 483 | | 0747 | 17.6 | 535 | | 0658 | 15.8 | 481 | | 0649 | 17.7 | 540 | | | |
| | 1404 | 1.5 | 47 | | 1348 | 0.4 | 11 | | 1442 | 1.8 | 56 | | 1451 | 0.3 | 10 | | 1354 | 2.1 | 65 | | 1352 | 0.6 | 19 | | | |
| | 1945 | 16.2 | 494 | | 1926 | 17.1 | 520 | | 2021 | 16.0 | 489 | | 2014 | 17.3 | 527 | | 1923 | 15.9 | 484 | | 1910 | 17.5 | 534 | | | |
| 7 F | 0213 | 4.0 | 122 | 22 Sa | 0207 | 2.7 | 82 | 7 M | 0259 | 2.9 | 88 | 22 Tu | 0313 | 1.2 | 38 | 7 M | 0207 | 2.5 | 76 | 22 Tu | 0213 | 0.7 | 20 | | | |
| | 0729 | 15.8 | 481 | | 0718 | 17.0 | 519 | | 0823 | 15.7 | 478 | | 0833 | 17.1 | 522 | | 0729 | 16.0 | 487 | | 0734 | 17.7 | 541 | | | |
| | 1434 | 1.7 | 51 | | 1428 | 0.2 | 6 | | 1509 | 2.1 | 65 | | 1530 | 1.1 | 34 | | 1419 | 2.3 | 69 | | 1431 | 1.2 | 36 | | | |
| | 2019 | 16.2 | 493 | | 2003 | 17.2 | 524 | | 2050 | 15.8 | 482 | | 2054 | 16.8 | 513 | | 1947 | 15.9 | 485 | | 1947 | 17.3 | 527 | | | |
| 8 Sa | 0246 | 3.8 | 117 | 23 Su | 0248 | 2.4 | 74 | 8 Tu | 0331 | 3.0 | 90 | 23 W | 0356 | 1.4 | 42 | 8 Tu | 0235 | 2.4 | 73 | 23 W | 0253 | 0.6 | 19 | | | |
| | 0806 | 15.6 | 477 | | 0800 | 17.1 | 520 | | 0900 | 15.3 | 466 | | 0924 | 16.3 | 498 | | 0803 | 15.9 | 486 | | 0821 | 17.4 | 529 | | | |
| | 1504 | 1.9 | 58 | | 1508 | 0.3 | 10 | | 1539 | 2.6 | 80 | | 1613 | 2.3 | 69 | | 1445 | 2.5 | 77 | | 1512 | 2.1 | 63 | | | |
| | 2053 | 16.0 | 488 | | 2041 | 17.1 | 520 | | 2120 | 15.4 | 470 | | 2137 | 16.0 | 488 | | 2013 | 15.8 | 482 | | 2026 | 16.7 | 509 | | | |
| 9 Su | 0322 | 3.8 | 116 | 24 M | 0331 | 2.3 | 70 | 9 W | 0405 | 3.2 | 97 | 24 Th | 0443 | 1.8 | 54 | 9 W | 0304 | 2.5 | 75 | 24 Th | 0335 | 0.9 | 28 | | | |
| | 0845 | 15.3 | 465 | | 0847 | 16.7 | 509 | | 0942 | 14.7 | 448 | | 1023 | 15.3 | 467 | | 0838 | 15.7 | 478 | | 0913 | 16.6 | 506 | | | |
| | 1536 | 2.3 | 70 | | 1549 | 0.9 | 26 | | 1614 | 3.3 | 102 | | 1701 | 3.7 | 112 | | 1514 | 3.0 | 90 | | 1555 | 3.2 | 98 | | | |
| | 2129 | 15.6 | 477 | | 2122 | 16.7 | 509 | | 2153 | 14.9 | 453 | | 2226 | 14.9 | 453 | | 2041 | 15.6 | 475 | | 2110 | 15.8 | 482 | | | |
| 10 M | 0401 | 3.9 | 118 | 25 Tu | 0417 | 2.3 | 71 | 10 Th | 0443 | 3.5 | 108 | 25 F | 0539 | 2.4 | 74 | 10 Th | 0334 | 2.7 | 81 | 25 F | 0422 | 1.5 | 46 | | | |
| | 0927 | 14.7 | 447 | | 0938 | 15.9 | 486 | | 1029 | 14.0 | 427 | | 1135 | 14.2 | 434 | | 0917 | 15.3 | 465 | | 1013 | 15.6 | 476 | | | |
| | 1610 | 2.9 | 87 | | 1633 | 1.8 | 54 | | 1654 | 4.3 | 130 | | 1800 | 5.2 | 158 | | 1546 | 3.6 | 110 | | 1644 | 4.5 | 137 | | | |
| | 2205 | 15.1 | 461 | | 2208 | 16.0 | 488 | | 2231 | 14.2 | 434 | | 2326 | 13.6 | 416 | | 2113 | 15.2 | 464 | | 2201 | 14.7 | 447 | | | |
| 11 Tu | 0443 | 4.1 | 125 | 26 W | 0508 | 2.5 | 77 | 11 F | 0528 | 3.9 | 119 | 26 Sa | 0647 | 3.1 | 96 | 11 F | 0409 | 3.0 | 90 | 26 Sa | 0517 | 2.4 | 72 | | | |
| | 1014 | 14.0 | 426 | | 1038 | 15.0 | 457 | | 1126 | 13.3 | 406 | | 1305 | 13.5 | 412 | | 1002 | 14.7 | 447 | | 1124 | 14.6 | 446 | | | |
| | 1650 | 3.6 | 110 | | 1724 | 3.0 | 92 | | 1743 | 5.3 | 161 | | 1916 | 6.4 | 194 | | 1625 | 4.5 | 136 | | 1742 | 5.8 | 176 | | | |
| | 2244 | 14.5 | 441 | | 2300 | 15.1 | 460 | | 2318 | 13.5 | 413 | | | | | | 2151 | 14.7 | 447 | | 2302 | 13.5 | 412 | | | |
| 12 W | 0529 | 4.4 | 133 | 27 Th | 0607 | 2.8 | 86 | 12 Sa | 0624 | 4.2 | 128 | 27 Su | 0044 | 12.6 | 385 | 12 Sa | 0450 | 3.3 | 100 | 27 Su | 0624 | 3.2 | 97 | | | |
| | 1109 | 13.3 | 405 | | 1151 | 14.1 | 429 | | 1239 | 12.8 | 391 | | 0810 | 3.5 | 108 | | 1056 | 14.0 | 428 | | 1247 | 13.9 | 424 | | | |
| | 1736 | 4.5 | 137 | | 1825 | 4.4 | 134 | | 1846 | 6.2 | 189 | | 1437 | 13.4 | 408 | | 1712 | 5.4 | 166 | | 1858 | 6.7 | 204 | | | |
| | 2329 | 13.8 | 420 | | | | | | | | 2053 | | 6.8 | 207 | 2238 | | 13.9 | 425 | | | | | | | | |
| 13 Th | 0622 | 4.6 | 140 | 28 F | 0000 | 14.1 | 429 | 13 Su | 0020 | 12.9 | 394 | 28 M | 0221 | 12.3 | 376 | 13 Su | 0543 | 3.6 | 111 | 28 M | 0022 | 12.6 | 384 | | | |
| | 1215 | 12.8 | 389 | | 0716 | 3.1 | 94 | | 0734 | 4.2 | 129 | | 0937 | 3.4 | 103 | | 1203 | 13.5 | 412 | | 0744 | 3.7 | 113 | | | |
| | 1831 | 5.3 | 163 | | 1320 | 13.5 | 412 | | 1407 | 12.8 | 391 | | 1556 | 13.8 | 422 | | 1814 | 6.3 | 192 | | 1412 | 13.7 | 418 | | | |
| | | | | | 1939 | 5.6 | 170 | | 2005 | 6.7 | 203 | | 2218 | 6.3 | 193 | | 2340 | 13.2 | 403 | | 2030 | 6.9 | 209 | | | |
| 14 F | 0022 | 13.2 | 403 | 29 Sa | 0113 | 13.3 | 404 | 14 M | 0137 | 12.6 | 385 | 14 M | 0652 | 3.9 | 118 | 14 M | 0652 | 3.9 | 118 | 29 Tu | 0158 | 12.3 | 376 | | | |
| | 0724 | 4.6 | 141 | | 0833 | 3.2 | 97 | | 0850 | 3.9 | 118 | | 1326 | 13.3 | 406 | | 1326 | 13.3 | 406 | | 0906 | 3.7 | 114 | | | |
| | 1333 | 12.6 | 384 | | 1449 | 13.6 | 414 | | 1527 | 13.5 | 410 | | 1934 | 6.7 | 203 | | 1934 | 6.7 | 203 | | 1527 | 14.0 | 426 | | | |
| | 1938 | 6.0 | 183 | | 2108 | 6.1 | 187 | | 2132 | 6.4 | 195 | | | | | | | | 2150 | | 6.2 | 190 | | | | |
| 15 Sa | 0124 | 12.9 | 393 | 30 Su | 0236 | 12.9 | 394 | 15 Tu | 0300 | 13.0 | 396 | 15 Tu | 0102 | 12.8 | 390 | 15 Tu | 0102 | 12.8 | 390 | 30 W | 0318 | 12.8 | 389 | | | |
| | 0830 | 4.3 | 132 | | 0953 | 2.9 | 89 | | 1003 | 3.1 | 96 | | 0812 | 3.7 | 113 | | 0812 | 3.7 | 113 | | 1016 | 3.4 | 105 | | | |
| | 1452 | 13.0 | 396 | | 1605 | 14.1 | 429 | | 1627 | 14.4 | 440 | | 1450 | 13.7 | 419 | | 1450 | 13.7 | 419 | | 1622 | 14.4 | 440 | | | |
| | 2052 | | | | | | | | | | | | | | | | | | | | | | | | | |

Lianyun Gang, China, 2011

Times and Heights of High and Low Waters

| July | | | | August | | | | September | | | | | | | | | | | | | | | | | |
|-----------------|--------|------|------|-----------------|------|-----------------|--------|-----------------|---------------|----------------|------|-----------------|--------|----------------|-----------------|-----------------|------|------|----------------|-----------------|------|------|------|------|-----|
| Time | Height | | Time | Height | | Time | Height | | Time | Height | | Time | Height | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | | |
| 1 F | 0025 | 2.4 | 74 | | | 16 Tu | 0210 | 2.7 | 81 | 1 Th | 0229 | 1.4 | 44 | 16 F | 0232 | 3.9 | 120 | | | | | | | | |
| | 0627 | 17.1 | 520 | 16 Sa | 0702 | | 17.5 | 534 | 1 M | | 0713 | 18.2 | 555 | | 16 Tu | 0741 | 17.3 | 526 | 16 F | 0757 | 16.6 | 507 | | | |
| | 1248 | 5.4 | 166 | | 1338 | | 5.3 | 163 | | | 1351 | 4.1 | 125 | | | 1423 | 4.4 | 135 | | 1451 | 2.4 | 72 | 1451 | 3.7 | 112 |
| | 1800 | 16.4 | 499 | | 1840 | | 16.7 | 509 | | | 1901 | 18.1 | 551 | | | 1936 | 17.0 | 518 | | 2010 | 18.6 | 567 | 2025 | 16.6 | 507 |
| 2 Sa | 0107 | 2.0 | 62 | 17 Su | 0159 | 1.9 | 58 | 2 Tu | 0210 | 1.2 | 37 | 2 F | 0310 | 2.1 | 65 | 17 Sa | 0301 | 4.4 | 134 | | | | | | |
| | 0703 | 17.5 | 533 | | 0738 | 17.6 | 535 | | 0747 | 18.4 | 561 | | 0810 | 17.2 | 523 | | 0830 | 18.2 | 555 | 0825 | 16.4 | 499 | | | |
| | 1329 | 5.1 | 154 | | 1414 | 5.2 | 158 | | 1432 | 3.7 | 113 | | 1453 | 4.3 | 131 | | 1534 | 2.4 | 72 | 1522 | 3.8 | 117 | | | |
| | 1837 | 16.8 | 512 | | 1918 | 16.8 | 512 | | 1942 | 18.2 | 556 | | 2012 | 16.8 | 512 | | 2101 | 17.9 | 546 | 2105 | 16.2 | 493 | | | |
| 3 Su | 0147 | 1.8 | 54 | 18 M | 0232 | 2.2 | 66 | 3 W | 0250 | 1.3 | 40 | 18 Th | 0302 | 3.4 | 104 | 3 Sa | 0353 | 3.1 | 96 | 18 Su | 0334 | 5.0 | 153 | | |
| | 0738 | 17.7 | 541 | | 0812 | 17.5 | 534 | | 0823 | 18.4 | 561 | | 0839 | 16.9 | 516 | | 0913 | 17.5 | 533 | | 0857 | 16.0 | 488 | | |
| | 1409 | 4.8 | 145 | | 1448 | 5.0 | 153 | | 1514 | 3.4 | 105 | | 1525 | 4.3 | 131 | | 1623 | 2.6 | 80 | | 1557 | 4.1 | 126 | | |
| | 1916 | 17.1 | 521 | | 1957 | 16.7 | 508 | | 2027 | 18.0 | 550 | | 2051 | 16.4 | 501 | | 2159 | 17.0 | 517 | | 2151 | 15.6 | 476 | | |
| 4 M | 0226 | 1.6 | 50 | 19 Tu | 0303 | 2.5 | 76 | 4 Th | 0330 | 1.7 | 53 | 19 F | 0332 | 4.0 | 122 | 4 Su | 0443 | 4.5 | 137 | 19 M | 0412 | 5.8 | 177 | | |
| | 0814 | 17.9 | 546 | | 0846 | 17.4 | 529 | | 0902 | 18.2 | 555 | | 0910 | 16.5 | 504 | | 1003 | 16.5 | 502 | | 0934 | 15.5 | 472 | | |
| | 1450 | 4.5 | 138 | | 1523 | 4.9 | 150 | | 1559 | 3.3 | 102 | | 1559 | 4.5 | 136 | | 1718 | 3.1 | 95 | | 1638 | 4.4 | 135 | | |
| | 1958 | 17.2 | 524 | | 2037 | 16.4 | 499 | | 2117 | 17.5 | 533 | | 2134 | 15.8 | 483 | | 2311 | 15.9 | 486 | | 2245 | 15.0 | 457 | | |
| 5 Tu | 0306 | 1.6 | 50 | 20 W | 0333 | 3.0 | 91 | 5 F | 0414 | 2.5 | 77 | 20 Sa | 0406 | 4.8 | 145 | 5 M | 0542 | 5.9 | 179 | 20 Tu | 0458 | 6.7 | 203 | | |
| | 0851 | 17.9 | 546 | | 0921 | 17.0 | 519 | | 0946 | 17.7 | 540 | | 0943 | 16.0 | 488 | | 1103 | 15.3 | 467 | | 1021 | 14.8 | 452 | | |
| | 1533 | 4.4 | 133 | | 1600 | 4.9 | 149 | | 1648 | 3.3 | 102 | | 1638 | 4.7 | 144 | | 1826 | 3.6 | 111 | | 1730 | 4.8 | 145 | | |
| | 2043 | 17.1 | 520 | | 2120 | 15.8 | 483 | | 2215 | 16.7 | 509 | | 2223 | 15.2 | 463 | | 2352 | 14.5 | 443 | | 2352 | 14.5 | 443 | | |
| 6 W | 0347 | 1.8 | 56 | 21 Th | 0407 | 3.6 | 111 | 6 Sa | 0503 | 3.7 | 112 | 21 Su | 0446 | 5.7 | 174 | 6 Tu | 0039 | 15.3 | 465 | 21 W | 0557 | 7.4 | 225 | | |
| | 0933 | 17.8 | 542 | | 0958 | 16.5 | 504 | | 1035 | 17.0 | 517 | | 1021 | 15.4 | 469 | | 0655 | 7.0 | 214 | | 1123 | 14.2 | 433 | | |
| | 1620 | 4.3 | 130 | | 1641 | 5.0 | 153 | | 1744 | 3.4 | 105 | | 1723 | 5.0 | 153 | | 1220 | 14.4 | 438 | | 1835 | 4.9 | 150 | | |
| | 2134 | 16.6 | 507 | | 2208 | 15.2 | 464 | | 2324 | 15.9 | 484 | | 2323 | 14.6 | 444 | | 1945 | 4.0 | 121 | | 1950 | 4.7 | 144 | | |
| 7 Th | 0433 | 2.3 | 70 | 22 F | 0445 | 4.5 | 137 | 7 Su | 0601 | 5.0 | 153 | 22 M | 0534 | 6.7 | 205 | 7 W | 0208 | 15.1 | 461 | 22 Th | 0110 | 14.4 | 440 | | |
| | 1019 | 17.5 | 532 | | 1037 | 15.9 | 484 | | 1133 | 16.0 | 489 | | 1107 | 14.8 | 450 | | 0825 | 7.5 | 228 | | 0712 | 7.6 | 233 | | |
| | 1713 | 4.1 | 126 | | 1726 | 5.2 | 158 | | 1849 | 3.6 | 110 | | 1817 | 5.2 | 160 | | 1352 | 14.0 | 428 | | 1243 | 13.9 | 423 | | |
| | 2233 | 16.1 | 490 | | 2303 | 14.6 | 444 | | 2303 | 14.6 | 444 | | 2303 | 14.6 | 444 | | 2108 | 3.8 | 117 | | 1950 | 4.7 | 144 | | |
| 8 F | 0525 | 3.1 | 94 | 23 Sa | 0529 | 5.5 | 167 | 8 M | 0049 | 15.3 | 467 | 23 Tu | 0036 | 14.1 | 431 | 8 Th | 0327 | 15.5 | 471 | 23 F | 0226 | 14.8 | 451 | | |
| | 1111 | 17.0 | 517 | | 1121 | 15.2 | 463 | | 0711 | 6.3 | 192 | | 0634 | 7.6 | 232 | | 0950 | 7.1 | 216 | | 0834 | 7.2 | 220 | | |
| | 1811 | 4.0 | 121 | | 1817 | 5.3 | 163 | | 1242 | 15.2 | 463 | | 1208 | 14.2 | 433 | | 1514 | 14.4 | 439 | | 1407 | 14.2 | 434 | | |
| | 2342 | 15.5 | 473 | | 2303 | 14.6 | 444 | | 2003 | 3.6 | 111 | | 1923 | 5.2 | 159 | | 2221 | 3.4 | 103 | | 2103 | 4.1 | 126 | | |
| 9 Sa | 0624 | 4.1 | 124 | 24 Su | 0009 | 14.1 | 429 | 9 Tu | 0217 | 15.3 | 465 | 24 W | 0158 | 14.2 | 433 | 9 F | 0428 | 16.0 | 487 | 24 Sa | 0328 | 15.6 | 475 | | |
| | 1209 | 16.4 | 500 | | 0622 | 6.5 | 197 | | 0834 | 7.0 | 214 | | 0749 | 8.0 | 245 | | 1054 | 6.3 | 192 | | 0947 | 6.2 | 188 | | |
| | 1915 | 3.7 | 113 | | 1211 | 14.6 | 445 | | 1401 | 14.7 | 448 | | 1322 | 14.0 | 427 | | 1615 | 15.1 | 459 | | 1517 | 15.2 | 463 | | |
| | | | | | 1914 | 5.4 | 164 | | 2120 | 3.4 | 105 | | 2034 | 4.9 | 148 | | 2320 | 3.0 | 90 | | 2208 | 3.3 | 100 | | |
| 10 Su | 0101 | 15.2 | 464 | 25 M | 0125 | 13.9 | 424 | 10 W | 0337 | 15.7 | 478 | 25 Th | 0312 | 14.8 | 450 | 10 Sa | 0514 | 16.4 | 500 | 25 Su | 0417 | 16.5 | 502 | | |
| | 0731 | 5.1 | 155 | | 0724 | 7.3 | 222 | | 0958 | 7.1 | 215 | | 0910 | 7.8 | 238 | | 1144 | 5.5 | 167 | | 1045 | 4.9 | 149 | | |
| | 1312 | 15.9 | 484 | | 1309 | 14.2 | 433 | | 1519 | 14.8 | 451 | | 1441 | 14.3 | 437 | | 1701 | 15.7 | 479 | | 1612 | 16.4 | 500 | | |
| | 2023 | 3.3 | 102 | | 2017 | 5.2 | 157 | | 2233 | 3.0 | 91 | | 2142 | 4.2 | 127 | | 2305 | 2.4 | 74 | | 2305 | 2.4 | 74 | | |
| 11 M | 0222 | 15.4 | 469 | 26 Tu | 0242 | 14.2 | 433 | 11 Th | 0442 | 16.3 | 496 | 26 F | 0410 | 15.6 | 477 | 11 Su | 0008 | 2.8 | 84 | 26 M | 0458 | 17.3 | 528 | | |
| | 0845 | 5.8 | 178 | | 0835 | 7.7 | 234 | | 1107 | 6.6 | 200 | | 1020 | 6.9 | 211 | | 0549 | 16.6 | 507 | | 1135 | 3.6 | 111 | | |
| | 1419 | 15.6 | 474 | | 1415 | 14.1 | 431 | | 1622 | 15.3 | 467 | | 1547 | 15.2 | 464 | | 1224 | 4.8 | 146 | | 1659 | 17.6 | 535 | | |
| | 2132 | 2.9 | 89 | | 2120 | 4.6 | 141 | | 2335 | 2.5 | 77 | | 2244 | 3.3 | 100 | | 1738 | 16.2 | 495 | | 2355 | 1.8 | 54 | | |
| 12 Tu | 0337 | 15.9 | 484 | 27 W | 0348 | 14.9 | 453 | 12 F | 0533 | 16.8 | 511 | 27 Sa | 0456 | 16.6 | 505 | 12 M | 0046 | 2.8 | 86 | 27 Tu | 0534 | 18.0 | 549 | | |
| | 1003 | 6.1 | 187 | | 0948 | 7.5 | 230 | | 1202 | 6.0 | 183 | | 1115 | 5.8 | 177 | | 0617 | 16.7 | 510 | | 1220 | 2.6 | 80 | | |
| | 1526 | 15.5 | 472 | | 1520 | 14.5 | 443 | | 1711 | 15.9 | 484 | | 1638 | 16.3 | 497 | | 1257 | 4.3 | 130 | | 1742 | 18.4 | 562 | | |
| | 2238 | 2.5 | 75 | | 2220 | 3.9 | 120 | | 2337 | 2.4 | 74 | | 2337 | 2.4 | 74 | | 1811 | 16.6 | 507 | | 2352 | 14.5 | 443 | | |
| 13 W | 0442 | 16.5 | 503 | 28 Th | 0442 | 15.7 | 480 | 13 Sa | 0027 | 2.2 | 68 | 28 Su | 0535 | 17.4 | 529 | 13 Tu | 0116 | 3.1 | 93 | 28 W | 0041 | 1.5 | 45 | | |
| | 1111 | 6.1 | 185 | | 1050 | 7.0 | 212 | | 0612 | 17.1 | 520 | | 1203 | 4.7 | 144 | | 0642 | 16.8 | 512 | | 0609 | 18.4 | 562 | | |
| | 1625 | 15.7 | 479 | | 1615 | 15.2 | 464 | | 1246 | 5.5 | 167 | | 1722 | 17.4 | 530 | | 1326 | 3.9 | 119 | | 1303 | 1.9 | 57 | | |
| | 2339 | 2.1 | 63 | | 2314 | 3.2 | 97 | | 1752 | 16.4 | 500 | | | | | | 1842 | 16.9 | 515 | | 1825 | 18.9 | 577 | | |
| 14 Th | 0537 | 17.0 | 519 | 29 F | 0527 | 16.6 | 505 | 14 Su | 0109 | 2.2 | 67 | 29 M | 0025 | 1.7 | 52 | 14 W | 0142 | 3.3 | 101 | 29 Th | 0124 | 1.6 | 48 | | |
| | 1208 | 5.8 | 177 | | 1141 | 6.2 | 189 | | 0645 | 17.2 | 525 | | 0609 | 18.0 | 549 | | 0706 | 16.8 | 512 | | 0644 | 18.6 | 567 | | |
| | 1716 | 16.1 | 490 | | 1701 | 16.0 | 489 | | 1322 | 5.1 | 154 | | 1247 | 3.8 | 116 | | 1354 | 3.7 | 112 | | 1344 | 1.4 | 43 | | |
| | | | | | | | | | 1827 | 16.8 | 511 | | 1802 | 18.2 | 556 | | 1915 | 17.0 | 518 | | 1909 | 19.0 | 579 | | |
| 15 F | 0033 | 1.8 | 56 | 30 Sa | 0003 | 2.5 | 75 | 15 M | 0143 | 2.4 | 73 | 30 Tu | 0108 | 1.2 | 38 | 15 Th | 0206 | 3.6 | 110 | 30 F | 0205 | 2.0 | 62 | | |
| | 0622 | 17.4 | 529 | | 0605 | 17.3 | 527 | | 0714 | 17.3 | 527 | | 0643 | 18.4 | 562 | | 0731 | 16.8 | 511 | | 0720 | 18.4 | 561 | | |
| | 1257 | 5.6 | 170 | | 1228 | 5.4 | 164 | | 1354 | 4.7 | 143 | | 1329 | 3.1 | 94 | | 1422 | 3.6 | 110 | | 1426 | 1.3 | 40 | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |

Wusong (Shanghai), China, 2011

Times and Heights of High and Low Waters

| January | | | | February | | | | March | | | | | | | | | | | | | |
|-----------------|--------|------|------|----------|----------------|-----------------|--------|-------|-----------------|-----------------|------|------|-----------------|-----------------|------|------|-----------------|-----------------|------|------|-----|
| Time | Height | | Time | Height | | Time | Height | | Time | Height | | Time | Height | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | |
| 1 Sa | 0444 | 2.1 | 64 | | | 1 Tu | 0646 | 1.6 | 50 | 16 W | 0555 | 2.2 | 67 | 1 Tu | 0532 | 2.6 | 80 | 16 W | 0412 | 3.5 | 106 |
| | 1025 | 9.8 | 298 | | | | 1209 | 10.2 | 312 | | 1121 | 10.4 | 318 | | 1106 | 9.2 | 281 | | 0955 | 9.4 | 287 |
| | 1758 | 2.6 | 80 | | | | 1945 | 1.7 | 52 | | 1900 | 2.1 | 65 | | 1838 | 2.0 | 61 | | 1736 | 2.7 | 81 |
| | 2244 | 7.9 | 241 | | | | | | | | 2343 | 9.0 | 275 | | 2331 | 7.9 | 241 | | 2235 | 8.3 | 254 |
| 2 Su | 0552 | 1.9 | 57 | | | 2 W | 0024 | 8.5 | 260 | 17 Th | 0703 | 1.5 | 47 | 2 W | 0635 | 1.9 | 58 | 17 Th | 0538 | 2.6 | 78 |
| | 1124 | 10.4 | 318 | | | | 0741 | 1.2 | 36 | | 1208 | 11.4 | 347 | | 1148 | 9.9 | 302 | | 1052 | 10.5 | 321 |
| | 1903 | 2.2 | 66 | | | | 1246 | 10.7 | 325 | | 1954 | 1.7 | 51 | | 1927 | 1.8 | 55 | | 1839 | 2.0 | 60 |
| | 2341 | 8.4 | 255 | | | | 2034 | 1.5 | 47 | | | | | | | | 2322 | | 9.7 | 296 | |
| 3 M | 0653 | 1.6 | 48 | | | 3 Th | 0100 | 9.1 | 277 | 18 F | 0026 | 10.1 | 307 | 3 Th | 0007 | 8.8 | 269 | 18 F | 0644 | 1.8 | 55 |
| | 1214 | 11.0 | 335 | | | | 0832 | 0.9 | 26 | | 0803 | 1.0 | 32 | | 0728 | 1.6 | 48 | | 1136 | 11.5 | 349 |
| | 1955 | 1.9 | 57 | | | | 1321 | 11.0 | 334 | | 2046 | 1.1 | 35 | | 1223 | 10.4 | 318 | | 1938 | 1.3 | 40 |
| | | | | | | | 2057 | 1.8 | 54 | | ○ | | | | 1954 | 1.7 | 52 | | | | |
| 4 Tu | 0027 | 8.9 | 270 | | | 4 F | 0131 | 9.5 | 289 | 19 Sa | 0111 | 10.8 | 330 | 4 F | 0036 | 9.5 | 289 | 19 Sa | 0007 | 10.8 | 330 |
| | 0746 | 1.3 | 40 | | | | 0857 | 1.0 | 31 | | 0853 | 0.6 | 19 | | 0800 | 1.3 | 40 | | 0744 | 1.2 | 36 |
| | 1255 | 11.3 | 345 | | | | 1351 | 11.0 | 334 | | 2141 | 0.5 | 16 | | 1254 | 10.6 | 324 | | 1219 | 12.2 | 372 |
| | 2043 | 1.7 | 51 | | | | 2135 | 1.5 | 47 | | | | | | 2035 | 1.5 | 46 | | 2035 | 0.8 | 24 |
| 5 W | 0109 | 9.2 | 281 | | | 5 Sa | 0202 | 9.7 | 296 | 20 Su | 0149 | 11.3 | 345 | 5 Sa | 0107 | 10.0 | 305 | 20 Su | 0042 | 11.6 | 355 |
| | 0836 | 1.1 | 34 | | | | 0935 | 1.0 | 29 | | 0942 | 0.2 | 7 | | 0839 | 1.2 | 36 | | 0841 | 0.6 | 19 |
| | 1329 | 11.5 | 352 | | | | 1419 | 11.0 | 334 | | 2231 | 0.6 | 17 | | 1321 | 10.9 | 331 | | 1304 | 12.4 | 377 |
| | 2131 | 1.6 | 50 | | | | 2153 | 1.7 | 51 | | | | | | 2054 | 1.7 | 51 | | ○ | 2102 | 1.2 | 37 |
| 6 Th | 0147 | 9.4 | 286 | | | 6 Su | 0228 | 9.8 | 300 | 21 M | 0225 | 11.8 | 359 | 6 Su | 0131 | 10.3 | 315 | 21 M | 0121 | 12.5 | 380 |
| | 0907 | 1.3 | 40 | | | | 0949 | 1.3 | 41 | | 1035 | 0.2 | 5 | | 0903 | 1.5 | 47 | | 0937 | 0.4 | 11 |
| | 1410 | 11.5 | 349 | | | | 1441 | 10.8 | 328 | | 1439 | 12.1 | 369 | | 1345 | 10.8 | 330 | | 1330 | 12.5 | 380 |
| | 2149 | 1.9 | 57 | | | | 2232 | 1.4 | 42 | | 2246 | 0.6 | 18 | | 2133 | 1.4 | 44 | | 2142 | 0.6 | 19 |
| 7 F | 0220 | 9.4 | 288 | | | 7 M | 0258 | 9.8 | 298 | 22 Tu | 0311 | 11.6 | 355 | 7 M | 0202 | 10.6 | 322 | 22 Tu | 0208 | 12.5 | 382 |
| | 0941 | 1.2 | 38 | | | | 1021 | 1.6 | 50 | | 1052 | 1.1 | 33 | | 0936 | 1.5 | 45 | | 1001 | 1.3 | 40 |
| | 1436 | 11.3 | 343 | | | | 1508 | 10.5 | 321 | | 1522 | 11.5 | 352 | | 1412 | 10.8 | 329 | | 1419 | 12.0 | 365 |
| | 2232 | 1.7 | 53 | | | | 2244 | 1.4 | 43 | | 2328 | 1.1 | 35 | | 2145 | 1.5 | 47 | | 2224 | 1.2 | 37 |
| 8 Sa | 0253 | 9.4 | 285 | | | 8 Tu | 0323 | 9.7 | 296 | 23 W | 0347 | 11.2 | 341 | 8 Tu | 0225 | 10.7 | 327 | 23 W | 0234 | 12.4 | 377 |
| | 1004 | 1.6 | 49 | | | | 1039 | 1.7 | 53 | | 1135 | 1.4 | 44 | | 0951 | 1.8 | 55 | | 1042 | 1.2 | 36 |
| | 1508 | 11.0 | 334 | | | | 1529 | 10.1 | 308 | | 1604 | 10.4 | 317 | | 1433 | 10.5 | 321 | | 1500 | 11.1 | 338 |
| | 2249 | 1.8 | 54 | | | | 2303 | 1.6 | 49 | | 2340 | 1.3 | 39 | | 2207 | 1.7 | 53 | | 2240 | 1.2 | 38 |
| 9 Su | 0323 | 9.2 | 280 | | | 9 W | 0353 | 9.5 | 289 | 24 Th | 0429 | 10.6 | 322 | 9 W | 0252 | 10.7 | 325 | 24 Th | 0322 | 12.0 | 367 |
| | 1034 | 1.7 | 53 | | | | 1057 | 2.2 | 66 | | 1158 | 2.4 | 72 | | 1025 | 2.1 | 63 | | 1114 | 2.0 | 62 |
| | 1533 | 10.5 | 321 | | | | 1558 | 9.4 | 287 | | 1645 | 9.0 | 275 | | 1500 | 10.1 | 309 | | 1538 | 10.0 | 305 |
| | 2321 | 1.8 | 56 | | | | 2331 | 1.7 | 52 | | 2355 | 2.0 | 60 | | 2233 | 1.6 | 50 | | 2254 | 1.9 | 58 |
| 10 M | 0357 | 8.9 | 271 | | | 10 Th | 0425 | 9.2 | 279 | 25 F | 0520 | 9.5 | 291 | 10 Th | 0319 | 10.6 | 322 | 25 F | 0403 | 11.2 | 340 |
| | 1049 | 2.2 | 66 | | | | 1131 | 2.6 | 78 | | 1247 | 3.1 | 95 | | 1043 | 2.2 | 67 | | 1147 | 2.5 | 77 |
| | 1603 | 10.0 | 305 | | | | 1628 | 8.5 | 260 | | 1739 | 7.5 | 228 | | 1525 | 9.5 | 290 | | 1622 | 8.7 | 265 |
| | 2343 | 1.7 | 53 | | | | 2344 | 2.1 | 64 | | ○ | | | | 2242 | 2.0 | 60 | | 2317 | 2.6 | 80 |
| 11 Tu | 0430 | 8.6 | 263 | | | 11 F | 0505 | 8.7 | 265 | 26 Sa | 0032 | 2.7 | 81 | 11 F | 0347 | 10.2 | 310 | 26 Sa | 0448 | 10.1 | 307 |
| | 1120 | 2.6 | 79 | | | | 1203 | 3.2 | 98 | | 0628 | 8.5 | 258 | | 1108 | 2.7 | 81 | | 1235 | 3.2 | 97 |
| | 1633 | 9.3 | 283 | | | | 1710 | 7.5 | 229 | | 1412 | 3.6 | 111 | | 1557 | 8.7 | 265 | | 1719 | 7.3 | 223 |
| | | | | | | | ○ | | | | 1905 | 6.2 | 190 | | 2258 | 2.4 | 72 | | ○ | 2341 | 3.3 | 102 |
| 12 W | 0006 | 2.0 | 62 | | | 12 Sa | 0013 | 2.6 | 80 | 27 Su | 0138 | 3.4 | 104 | 12 Sa | 0423 | 9.6 | 294 | 27 Su | 0553 | 8.9 | 271 |
| | 0512 | 8.3 | 253 | | | | 0602 | 8.2 | 249 | | 0822 | 7.9 | 242 | | 1144 | 3.1 | 95 | | 1353 | 3.6 | 110 |
| | 1150 | 3.1 | 93 | | | | 1310 | 3.8 | 115 | | 1615 | 3.3 | 101 | | 1637 | 7.7 | 235 | | 1852 | 6.3 | 192 |
| | 1712 | 8.4 | 256 | | | | 1816 | 6.6 | 201 | | 2120 | 6.0 | 183 | | 2330 | 2.9 | 88 | | | | |
| 13 Th | 0041 | 2.3 | 71 | | | 13 Su | 0107 | 3.1 | 96 | 28 M | 0355 | 3.4 | 103 | 13 Su | 0513 | 9.0 | 273 | 28 M | 0055 | 4.1 | 126 |
| | 0603 | 8.0 | 243 | | | | 0728 | 7.9 | 241 | | 1006 | 8.4 | 256 | | 1241 | 3.7 | 113 | | 0742 | 8.1 | 248 |
| | 1245 | 3.6 | 110 | | | | 1506 | 3.9 | 119 | | 1740 | 2.6 | 79 | | 1741 | 6.8 | 207 | | 1542 | 3.4 | 103 |
| | 1804 | 7.5 | 228 | | | | 2006 | 6.2 | 189 | | 2247 | 6.9 | 209 | | ○ | | | | 2105 | 6.4 | 194 |
| 14 F | 0122 | 2.7 | 83 | | | 14 M | 0253 | 3.3 | 102 | 29 Sa | 0253 | 3.3 | 102 | 14 M | 0012 | 3.5 | 108 | 29 Tu | 0332 | 4.1 | 124 |
| | 0711 | 7.8 | 239 | | | | 0913 | 8.3 | 254 | | 0636 | 8.4 | 255 | | 0636 | 8.4 | 255 | | 0928 | 8.4 | 256 |
| | 1413 | 3.9 | 120 | | | | 1649 | 3.4 | 103 | | 1429 | 3.9 | 120 | | 1429 | 3.9 | 120 | | 1700 | 2.8 | 86 |
| | 1922 | 6.8 | 206 | | | | 2152 | 6.8 | 207 | | 1932 | 6.4 | 194 | | 1932 | 6.4 | 194 | | 2221 | 7.3 | 223 |
| 15 Sa | 0231 | 3.0 | 90 | | | 15 Tu | 0439 | 2.9 | 88 | 30 W | 0208 | 4.0 | 121 | 15 Tu | 0208 | 4.0 | 121 | 30 W | 0458 | 3.3 | 101 |
| | 0835 | 8.1 | 247 | | | | 1026 | 9.3 | 284 | | 0830 | 8.5 | 259 | | 0830 | 8.5 | 259 | | 1030 | 9.1 | 276 |
| | 1559 | 3.7 | 114 | | | | 1800 | 2.7 | 82 | | 1617 | 3.4 | 105 | | 1617 | 3.4 | 105 | | 1755 | 2.3 | 71 |
| | 2058 | 6.7 | 204 | | | | 2256 | 7.9 | 240 | | 2129 | 7.1 | 215 | | 2129 | 7.1 | 215 | | 2303 | 8.4 | 256 |
| | | | | | 31 M | 0541 | 2.2 | 67 | 31 Th | 1122 | 9.5 | 291 | 31 Th | 0558 | 2.6 | 79 | 31 Th | 0558 | 2.6 | 79 | |
| | | | | | | 1855 | 2.1 | 63 | | 1840 | 2.0 | 61 | | 1840 | 2.0 | 61 | | 1112 | 9.7 | 296 | |
| | | | | | | 2343 | 7.7 | 236 | | 2334 | 9.3 | 284 | | 2334 | 9.3 | 284 | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |

Time meridian 120° E. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to the chart datum of soundings.

Wusong (Shanghai), China, 2011

Times and Heights of High and Low Waters

| July | | | | August | | | | September | | | | | | | | | | | | | | | |
|--------------------|--------|------|------|-----------------|------|------|--------|-----------------|------|--------|------|-----------------|--------|------|------|-----------------|------|------|------|-----------------|------|------|------|
| Time | Height | | Time | Height | | Time | Height | | Time | Height | | Time | Height | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | |
| 1 F ● | 0014 | 13.2 | 402 | 16 Sa | 0100 | 13.5 | 411 | 1 M | 0108 | 14.4 | 440 | 16 Tu | 0134 | 13.3 | 406 | 1 Th | 0153 | 14.4 | 438 | 16 F | 0200 | 12.4 | 379 |
| | 0809 | 3.1 | 94 | | 0857 | 2.5 | 77 | | 0930 | 2.3 | 70 | | 0939 | 2.4 | 73 | | 0957 | 2.3 | 71 | | 0940 | 2.6 | 79 |
| | 1230 | 10.9 | 331 | | 1320 | 11.3 | 344 | | 1324 | 12.6 | 384 | | 1401 | 12.1 | 370 | | 1417 | 14.2 | 434 | | 1419 | 12.9 | 393 |
| | 1950 | 2.9 | 88 | | 2043 | 2.7 | 81 | | 2108 | 2.6 | 78 | | 2132 | 2.8 | 85 | | 2232 | 2.0 | 62 | | 2149 | 3.2 | 98 |
| 2 Sa | 0047 | 13.6 | 415 | 17 Su | 0129 | 13.7 | 417 | 2 Tu | 0128 | 14.8 | 451 | 17 W | 0209 | 13.1 | 400 | 2 F | 0225 | 13.9 | 425 | 17 Sa | 0223 | 11.9 | 364 |
| | 0848 | 2.7 | 83 | | 0941 | 2.3 | 69 | | 0949 | 2.2 | 68 | | 0953 | 2.7 | 83 | | 1038 | 1.8 | 56 | | 0952 | 3.0 | 91 |
| | 1310 | 11.4 | 346 | | 1358 | 11.5 | 349 | | 1408 | 12.9 | 393 | | 1425 | 12.2 | 373 | | 1500 | 13.8 | 420 | | 1443 | 12.7 | 386 |
| | 2038 | 2.6 | 80 | | 2124 | 2.9 | 89 | | 2144 | 2.5 | 76 | | 2145 | 3.2 | 98 | | 2245 | 3.0 | 90 | | 2224 | 3.6 | 111 |
| 3 Su | 0123 | 14.0 | 428 | 18 M | 0211 | 13.4 | 409 | 3 W | 0218 | 14.6 | 445 | 18 Th | 0229 | 12.8 | 390 | 3 Sa | 0314 | 12.7 | 388 | 18 Su | 0252 | 11.2 | 340 |
| | 0939 | 2.4 | 73 | | 1006 | 2.8 | 84 | | 1040 | 1.8 | 54 | | 1027 | 2.9 | 89 | | 1054 | 2.7 | 82 | | 1010 | 3.3 | 100 |
| | 1348 | 11.6 | 354 | | 1428 | 11.5 | 352 | | 1440 | 13.0 | 396 | | 1455 | 12.1 | 368 | | 1535 | 13.2 | 403 | | 1514 | 12.3 | 375 |
| | 2121 | 2.9 | 87 | | 2147 | 3.0 | 91 | | 2234 | 2.4 | 73 | | 2212 | 3.6 | 109 | | 2329 | 3.8 | 115 | | 2242 | 3.8 | 117 |
| 4 M | 0207 | 14.0 | 427 | 19 Tu | 0235 | 13.1 | 398 | 4 Th | 0300 | 13.9 | 424 | 19 F | 0257 | 12.2 | 371 | 4 Su | 0356 | 11.3 | 344 | 19 M | 0320 | 10.2 | 311 |
| | 1011 | 2.8 | 86 | | 1038 | 2.5 | 76 | | 1058 | 2.5 | 77 | | 1039 | 2.9 | 87 | | 1118 | 3.3 | 101 | | 1031 | 3.5 | 107 |
| | 1424 | 11.8 | 361 | | 1504 | 11.4 | 348 | | 1522 | 13.1 | 399 | | 1523 | 11.9 | 364 | | 1627 | 12.3 | 375 | | 1546 | 11.7 | 356 |
| | 2153 | 2.8 | 84 | | 2214 | 3.3 | 102 | | 2301 | 3.2 | 98 | | 2237 | 3.8 | 117 | | 2300 | 4.4 | 134 | | 2314 | 4.5 | 137 |
| 5 Tu | 0234 | 13.8 | 422 | 20 W | 0309 | 12.6 | 385 | 5 F | 0334 | 13.1 | 398 | 20 Sa | 0323 | 11.4 | 347 | 5 M | 0005 | 4.5 | 138 | 20 Tu | 0358 | 9.1 | 278 |
| | 1047 | 2.4 | 72 | | 1056 | 2.7 | 83 | | 1137 | 2.4 | 72 | | 1050 | 3.3 | 100 | | 0447 | 9.6 | 293 | | 1037 | 4.1 | 125 |
| | 1509 | 11.8 | 361 | | 1533 | 11.2 | 341 | | 1612 | 12.7 | 386 | | 1554 | 11.5 | 352 | | 1140 | 4.0 | 122 | | 1630 | 10.9 | 331 |
| | 2236 | 2.9 | 87 | | 2239 | 3.6 | 109 | | 2340 | 3.7 | 114 | | 2300 | 4.4 | 134 | | 1728 | 11.1 | 338 | | 1728 | 11.1 | 338 |
| 6 W | 0321 | 13.6 | 414 | 21 Th | 0335 | 12.0 | 366 | 6 Sa | 0421 | 11.8 | 361 | 21 Su | 0354 | 10.3 | 314 | 6 Tu | 0126 | 5.2 | 158 | 21 W | 0009 | 5.1 | 155 |
| | 1134 | 2.3 | 70 | | 1128 | 3.0 | 92 | | 1159 | 3.0 | 92 | | 1107 | 3.7 | 113 | | 0604 | 8.0 | 245 | | 0455 | 8.0 | 245 |
| | 1552 | 11.7 | 358 | | 1610 | 11.0 | 334 | | 1701 | 12.0 | 366 | | 1630 | 11.0 | 336 | | 1231 | 4.9 | 150 | | 1113 | 4.9 | 148 |
| | 2312 | 3.4 | 103 | | 2302 | 4.1 | 125 | | ● | ● | 2341 | | 5.0 | 151 | 2341 | | 5.0 | 151 | 1913 | | 10.2 | 310 | 1747 | 10.1 | 307 |
| 7 Th | 0405 | 12.8 | 391 | 22 F | 0406 | 11.2 | 340 | 7 Su | 0023 | 4.6 | 140 | 22 M | 0432 | 9.1 | 277 | 7 W | 0331 | 4.9 | 148 | 22 Th | 0154 | 5.3 | 162 |
| | 1158 | 2.8 | 84 | | 1144 | 3.2 | 97 | | 0512 | 10.3 | 315 | | 1131 | 4.2 | 127 | | 0826 | 7.4 | 226 | | 0644 | 7.4 | 225 |
| | 1637 | 11.5 | 352 | | 1646 | 10.6 | 322 | | 1236 | 3.5 | 108 | | 1721 | 10.4 | 317 | | 1448 | 5.3 | 161 | | 1259 | 5.5 | 169 |
| | 2355 | 3.8 | 116 | | 2338 | 4.6 | 139 | | 1804 | 11.2 | 342 | | ● | ● | 2113 | | 10.4 | 318 | 2113 | | 10.4 | 318 | 1947 | 10.0 | 305 |
| 8 F | 0451 | 11.8 | 361 | 23 Sa | 0442 | 10.1 | 308 | 8 M | 0139 | 5.1 | 156 | 23 Tu | 0045 | 5.6 | 171 | 8 Th | 0503 | 3.9 | 120 | 23 F | 0345 | 4.7 | 144 |
| | 1240 | 2.9 | 89 | | 1204 | 3.7 | 113 | | 0623 | 8.8 | 269 | | 0531 | 7.9 | 242 | | 1013 | 8.4 | 255 | | 0902 | 8.0 | 245 |
| | 1733 | 11.3 | 343 | | 1730 | 10.2 | 310 | | 1324 | 4.3 | 131 | | 1205 | 4.9 | 148 | | 1644 | 4.5 | 137 | | 1532 | 5.1 | 156 |
| | ● | ● | ● | | ● | ● | ● | | 1933 | 10.6 | 324 | | 1847 | 9.9 | 302 | | 2223 | 11.3 | 345 | | 2117 | 10.9 | 333 |
| 9 Sa | 0049 | 4.4 | 134 | 24 Su | 0027 | 5.2 | 159 | 9 Tu | 0334 | 5.0 | 152 | 24 W | 0250 | 5.6 | 171 | 9 F | 0607 | 3.2 | 97 | 24 Sa | 0458 | 3.9 | 118 |
| | 0547 | 10.7 | 325 | | 0529 | 9.0 | 273 | | 0815 | 8.0 | 243 | | 0726 | 7.3 | 223 | | 1102 | 9.6 | 293 | | 1006 | 9.5 | 291 |
| | 1325 | 3.4 | 104 | | 1239 | 4.2 | 128 | | 1458 | 4.7 | 142 | | 1351 | 5.3 | 162 | | 1751 | 3.6 | 110 | | 1653 | 4.1 | 125 |
| | 1842 | 11.0 | 334 | | 1831 | 9.8 | 300 | | 2120 | 10.9 | 331 | | 2037 | 10.2 | 312 | | 2309 | 12.1 | 370 | | 2214 | 12.1 | 369 |
| 10 Su | 0206 | 4.8 | 147 | 25 M | 0152 | 5.6 | 170 | 10 W | 0512 | 4.2 | 127 | 25 Th | 0432 | 4.9 | 148 | 10 Sa | 0653 | 2.7 | 82 | 25 Su | 0558 | 3.1 | 96 |
| | 0659 | 9.5 | 291 | | 0643 | 7.9 | 242 | | 1004 | 8.3 | 254 | | 0929 | 7.9 | 242 | | 1133 | 10.7 | 326 | | 1047 | 11.1 | 338 |
| | 1423 | 3.8 | 115 | | 1334 | 4.7 | 143 | | 1645 | 4.3 | 130 | | 1554 | 4.9 | 150 | | 1846 | 3.0 | 90 | | 1803 | 3.2 | 98 |
| | 2004 | 10.9 | 332 | | 1958 | 9.9 | 302 | | 2233 | 11.7 | 357 | | 2151 | 11.3 | 344 | | 2342 | 12.7 | 386 | | 2259 | 13.1 | 400 |
| 11 M | 0344 | 4.6 | 141 | 26 Tu | 0346 | 5.3 | 161 | 11 Th | 0630 | 3.3 | 102 | 26 F | 0537 | 4.0 | 122 | 11 Su | 0738 | 2.2 | 68 | 26 M | 0650 | 2.5 | 76 |
| | 0828 | 8.9 | 270 | | 0829 | 7.6 | 232 | | 1108 | 9.4 | 285 | | 1028 | 9.2 | 281 | | 1207 | 11.6 | 353 | | 1122 | 12.5 | 382 |
| | 1538 | 3.8 | 117 | | 1503 | 4.8 | 147 | | 1759 | 3.6 | 111 | | 1717 | 4.1 | 126 | | 1935 | 2.5 | 76 | | 1906 | 2.6 | 79 |
| | 2127 | 11.3 | 344 | | 2121 | 10.6 | 322 | | 2324 | 12.6 | 383 | | 2241 | 12.5 | 380 | | ● | ● | 2326 | | 14.1 | 429 | |
| 12 Tu | 0516 | 4.0 | 123 | 27 W | 0506 | 4.6 | 140 | 12 F | 0729 | 2.9 | 87 | 27 Sa | 0636 | 3.2 | 99 | 12 M | 0016 | 13.0 | 397 | 27 Tu | 0744 | 1.6 | 49 |
| | 0958 | 9.0 | 273 | | 0958 | 8.2 | 249 | | 1152 | 10.3 | 315 | | 1111 | 10.6 | 323 | | 0803 | 2.6 | 78 | | 1204 | 13.5 | 411 |
| | 1656 | 3.7 | 114 | | 1634 | 4.4 | 135 | | 1858 | 3.1 | 94 | | 1826 | 3.4 | 103 | | 1229 | 12.2 | 373 | | 1951 | 2.1 | 65 |
| | 2236 | 12.0 | 365 | | 2221 | 11.5 | 351 | | ● | ● | 2323 | | 13.5 | 413 | 2323 | | 13.5 | 413 | 2005 | | 2.7 | 83 | ● |
| 13 W | 0634 | 3.2 | 98 | 28 Th | 0606 | 3.9 | 120 | 13 Sa | 0007 | 13.1 | 400 | 28 Su | 0735 | 2.5 | 77 | 13 Tu | 0037 | 13.0 | 396 | 28 W | 0014 | 14.4 | 440 |
| | 1106 | 9.5 | 291 | | 1052 | 9.2 | 279 | | 0758 | 2.6 | 80 | | 1148 | 11.8 | 359 | | 0839 | 2.2 | 66 | | 0839 | 0.9 | 28 |
| | 1810 | 3.4 | 104 | | 1741 | 3.8 | 117 | | 1225 | 11.2 | 341 | | 1927 | 2.8 | 85 | | 1303 | 12.5 | 381 | | 1224 | 14.6 | 445 |
| | 2330 | 12.7 | 387 | | 2309 | 12.5 | 382 | | 1947 | 2.7 | 83 | | ● | ● | 2038 | | 2.5 | 77 | 2044 | | 1.2 | 37 | |
| 14 Th | 0737 | 2.6 | 79 | 29 F | 0656 | 3.4 | 104 | 14 Su | 0033 | 13.4 | 408 | 29 M | 0004 | 14.2 | 433 | 14 W | 0111 | 13.0 | 397 | 29 Th | 0050 | 14.1 | 430 |
| | 1159 | 10.2 | 312 | | 1131 | 10.2 | 311 | | 0841 | 2.3 | 70 | | 0813 | 2.7 | 83 | | 0852 | 2.6 | 79 | | 0856 | 2.0 | 61 |
| | 1910 | 3.1 | 94 | | 1841 | 3.3 | 100 | | 1302 | 11.7 | 356 | | 1222 | 12.9 | 393 | | 1324 | 12.9 | 392 | | 1315 | 14.9 | 453 |
| | ● | ● | ● | | 2347 | 13.4 | 408 | | 2033 | 2.5 | 76 | | ● | ● | 2019 | | 2.5 | 75 | 2058 | | 3.0 | 91 | 2141 | 0.9 | 28 |
| 15 F | 0019 | 13.3 | 404 | 30 Sa | 0746 | 2.9 | 88 | 15 M | 0114 | 13.5 | 412 | 30 Tu | 0025 | 14.9 | 455 | 15 Th | 0129 | 12.9 | 393 | 30 F | 0123 | 14.0 | 427 |
| | 0832 | 2.3 | 70 | | 1211 | 11.2 | 342 | | 0907 | 2.8 | 85 | | 0847 | 1.9 | 59 | | 0931 | 2.4 | 72 | | 0939 | 1.3 | 39 |
| | 1241 | 10.8 | 329 | | 1937 | 2.8 | 84 | | 1327 | 12.1 | 368 | | 1305 | 13.5 | | | | | | | | | |

Wusong (Shanghai), China, 2011

Times and Heights of High and Low Waters

| October | | | | November | | | | December | | | | | | | | | | | | | | | | | | | | | |
|-----------------|--------|------|------|----------|-----------------|------|--------|----------|------|-----------------|------|------|--------|----|-----------------|------|------|-----|--|-----------------|------|------|-----|--|-----------------|------|------|-----|--|
| Time | Height | | Time | Height | | Time | Height | | Time | Height | | Time | Height | | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | | | | | | |
| 1 Sa | 0214 | 13.0 | 397 | | 16 Su | 0205 | 11.3 | 345 | | 1 Tu | 0337 | 9.6 | 294 | | 16 W | 0303 | 9.7 | 296 | | 1 Th | 0424 | 8.7 | 266 | | 16 F | 0347 | 9.5 | 289 | |
| | 0959 | 2.3 | 71 | | | 0933 | 2.5 | 77 | | | 1031 | 3.2 | 97 | | | 0958 | 2.9 | 87 | | | 1057 | 3.2 | 98 | | | 1051 | 2.3 | 71 | |
| | 1426 | 14.4 | 438 | | | 1421 | 13.1 | 398 | | | 1553 | 11.8 | 361 | | | 1519 | 11.9 | 363 | | | 1635 | 10.4 | 318 | | | 1604 | 11.3 | 343 | |
| | 2241 | 2.4 | 73 | | | 2205 | 3.1 | 94 | | | 2353 | 3.3 | 100 | | | 2310 | 2.9 | 89 | | | | | | | | 2353 | 2.1 | 65 | |
| 2 Su | 0256 | 11.8 | 360 | | 17 M | 0231 | 10.7 | 325 | | 2 W | 0434 | 8.5 | 260 | | 17 Th | 0348 | 9.1 | 278 | | 2 F | 0031 | 2.6 | 80 | | 17 Sa | 0436 | 9.2 | 280 | |
| | 1032 | 2.5 | 77 | | | 0943 | 2.9 | 89 | | | 1047 | 4.0 | 123 | | | 1037 | 3.2 | 99 | | | 0521 | 8.1 | 247 | | | 1139 | 2.8 | 84 | |
| | 1519 | 13.4 | 409 | | | 1448 | 12.6 | 383 | | | 1649 | 10.6 | 323 | | | 1604 | 11.2 | 341 | | | 1143 | 3.7 | 114 | | | 1652 | 10.5 | 321 | |
| | 2317 | 3.5 | 106 | | | 2238 | 3.2 | 98 | | | | | | | | 2354 | 3.1 | 95 | | | 1728 | 9.4 | 287 | | | | | | |
| 3 M | 0341 | 10.4 | 317 | | 18 Tu | 0306 | 9.9 | 302 | | 3 Th | 0052 | 3.7 | 112 | | 18 F | 0445 | 8.6 | 261 | | 3 Sa | 0116 | 2.9 | 88 | | 18 Su | 0041 | 2.2 | 67 | |
| | 1041 | 3.4 | 103 | | | 0958 | 3.4 | 103 | | | 0551 | 7.7 | 234 | | | 1124 | 3.9 | 119 | | | 0627 | 7.7 | 236 | | | 0535 | 9.0 | 273 | |
| | 1604 | 12.2 | 372 | | | 1523 | 12.0 | 365 | | | 1150 | 4.8 | 147 | | | 1703 | 10.4 | 317 | | | 1252 | 4.2 | 128 | | | 1236 | 3.2 | 99 | |
| | 2355 | 4.1 | 125 | | | 2306 | 3.7 | 114 | | | 1809 | 9.5 | 289 | | | | | | | | 1835 | 8.5 | 259 | | | 1752 | 9.7 | 296 | |
| 4 Tu | 0435 | 8.9 | 270 | | 19 W | 0347 | 9.1 | 276 | | 4 F | 0212 | 3.7 | 114 | | 19 Sa | 0055 | 3.3 | 101 | | 4 Su | 0214 | 3.0 | 90 | | 19 M | 0137 | 2.3 | 71 | |
| | 1059 | 4.3 | 131 | | | 1023 | 3.9 | 118 | | | 0735 | 7.5 | 229 | | | 0601 | 8.3 | 254 | | | 0746 | 7.7 | 236 | | | 0648 | 8.9 | 272 | |
| | 1704 | 10.8 | 330 | | | 1607 | 11.1 | 339 | | | 1355 | 5.1 | 155 | | | 1240 | 4.3 | 132 | | | 1427 | 4.3 | 131 | | | 1351 | 3.6 | 109 | |
| | | | | | | 2356 | 4.2 | 127 | | | 1951 | 9.0 | 274 | | | 1822 | 9.8 | 299 | | | 1953 | 8.0 | 244 | | | 1904 | 9.0 | 275 | |
| 5 W | 0111 | 4.6 | 140 | | 20 Th | 0446 | 8.2 | 250 | | 5 Sa | 0334 | 3.4 | 104 | | 20 Su | 0211 | 3.3 | 100 | | 5 M | 0317 | 2.9 | 88 | | 20 Tu | 0242 | 2.4 | 73 | |
| | 0601 | 7.6 | 231 | | | 1102 | 4.6 | 141 | | | 0908 | 8.2 | 250 | | | 0730 | 8.7 | 264 | | | 0859 | 8.2 | 250 | | | 0809 | 9.2 | 280 | |
| | 1154 | 5.2 | 160 | | | 1715 | 10.2 | 312 | | | 1545 | 4.5 | 137 | | | 1430 | 4.3 | 130 | | | 1554 | 3.9 | 119 | | | 1528 | 3.5 | 107 | |
| | 1847 | 9.7 | 297 | | | | | | | | 2110 | 9.2 | 279 | | | 1950 | 9.7 | 295 | | | 2106 | 7.9 | 242 | | | 2025 | 8.7 | 264 | |
| 6 Th | 0304 | 4.4 | 134 | | 21 F | 0115 | 4.5 | 136 | | 6 Su | 0436 | 3.0 | 90 | | 21 M | 0333 | 2.9 | 89 | | 6 Tu | 0417 | 2.7 | 82 | | 21 W | 0352 | 2.3 | 69 | |
| | 0825 | 7.4 | 226 | | | 0620 | 7.7 | 236 | | | 1001 | 9.2 | 280 | | | 0852 | 9.6 | 293 | | | 0955 | 9.0 | 274 | | | 0925 | 9.8 | 300 | |
| | 1443 | 5.5 | 167 | | | 1243 | 5.2 | 159 | | | 1654 | 3.7 | 114 | | | 1600 | 3.7 | 112 | | | 1704 | 3.3 | 102 | | | 1652 | 3.0 | 92 | |
| | 2048 | 9.8 | 299 | | | 1900 | 9.9 | 301 | | | 2204 | 9.5 | 291 | | | 2106 | 10.0 | 305 | | | 2204 | 8.2 | 250 | | | 2143 | 8.7 | 265 | |
| 7 F | 0434 | 3.7 | 112 | | 22 Sa | 0255 | 4.2 | 127 | | 7 M | 0530 | 2.6 | 80 | | 22 Tu | 0442 | 2.4 | 73 | | 7 W | 0510 | 2.4 | 74 | | 22 Th | 0506 | 2.0 | 61 | |
| | 0958 | 8.5 | 259 | | | 0819 | 8.3 | 254 | | | 1038 | 10.1 | 309 | | | 0953 | 10.8 | 329 | | | 1038 | 9.8 | 300 | | | 1029 | 10.7 | 326 | |
| | 1631 | 4.5 | 138 | | | 1459 | 4.9 | 150 | | | 1749 | 3.1 | 94 | | | 1725 | 3.0 | 90 | | | 1801 | 2.8 | 86 | | | 1811 | 2.5 | 76 | |
| | 2158 | 10.5 | 319 | | | 2036 | 10.4 | 316 | | | 2245 | 10.0 | 305 | | | 2207 | 10.5 | 320 | | | 2251 | 8.7 | 264 | | | 2249 | 9.1 | 276 | |
| 8 Sa | 0535 | 3.0 | 91 | | 23 Su | 0419 | 3.5 | 107 | | 8 Tu | 0606 | 2.4 | 72 | | 23 W | 0544 | 1.9 | 58 | | 8 Th | 0557 | 2.1 | 65 | | 23 F | 0617 | 1.7 | 51 | |
| | 1039 | 9.7 | 296 | | | 0932 | 9.7 | 297 | | | 1112 | 11.0 | 336 | | | 1041 | 11.9 | 362 | | | 1118 | 10.7 | 326 | | | 1126 | 11.5 | 350 | |
| | 1735 | 3.6 | 109 | | | 1634 | 3.9 | 118 | | | 1839 | 2.6 | 78 | | | 1836 | 2.0 | 62 | | | 1850 | 2.4 | 74 | | | 1927 | 2.1 | 63 | |
| | 2242 | 11.1 | 339 | | | 2142 | 11.3 | 343 | | | 2319 | 10.4 | 318 | | | 2259 | 10.9 | 333 | | | 2329 | 9.2 | 279 | | | 2345 | 9.5 | 289 | |
| 9 Su | 0623 | 2.7 | 81 | | 24 M | 0531 | 2.7 | 81 | | 9 W | 0644 | 2.1 | 63 | | 24 Th | 0641 | 1.4 | 43 | | 9 F | 0644 | 1.8 | 56 | | 24 Sa | 0717 | 1.4 | 43 | |
| | 1112 | 10.8 | 329 | | | 1021 | 11.3 | 344 | | | 1138 | 11.7 | 358 | | | 1125 | 12.9 | 393 | | | 1153 | 11.4 | 347 | | | 1218 | 12.0 | 367 | |
| | 1830 | 2.9 | 88 | | | 1743 | 3.0 | 90 | | | 1930 | 2.2 | 67 | | | 1939 | 1.4 | 43 | | | 1939 | 2.1 | 64 | | | 2026 | 1.8 | 55 | |
| | 2317 | 11.6 | 355 | | | 2229 | 12.2 | 371 | | | 2351 | 10.7 | 327 | | | 2346 | 11.2 | 340 | | | | | | | | | | | |
| 10 M | 0652 | 2.4 | 72 | | 25 Tu | 0633 | 1.9 | 57 | | 10 Th | 0730 | 2.1 | 65 | | 25 F | 0737 | 1.0 | 31 | | 10 Sa | 0006 | 9.6 | 293 | | 25 Su | 0034 | 9.8 | 298 | |
| | 1136 | 11.6 | 354 | | | 1105 | 12.6 | 383 | | | 1213 | 12.3 | 376 | | | 1216 | 13.4 | 408 | | | 0733 | 1.5 | 47 | | | 0807 | 1.2 | 37 | |
| | 1907 | 2.7 | 82 | | | 1844 | 2.2 | 66 | | | 1953 | 2.3 | 70 | | | 2037 | 1.1 | 34 | | | 1225 | 12.0 | 366 | | | 1305 | 12.3 | 375 | |
| | 2346 | 11.9 | 364 | | | 2315 | 12.8 | 390 | | | | | | | | | | | | | 2024 | 2.3 | 69 | | | 2100 | 1.6 | 50 | |
| 11 Tu | 0735 | 2.0 | 61 | | 26 W | 0731 | 1.3 | 40 | | 11 F | 0021 | 11.0 | 334 | | 26 Sa | 0029 | 11.3 | 344 | | 11 Su | 0040 | 9.9 | 303 | | | | | | |
| | 1209 | 12.3 | 374 | | | 1127 | 13.8 | 421 | | | 0749 | 2.0 | 60 | | | 0828 | 1.4 | 42 | | | 0803 | 1.6 | 49 | | 0850 | 1.1 | 34 | | |
| | 1942 | 2.4 | 72 | | | 1944 | 1.3 | 40 | | | 1234 | 12.7 | 388 | | | 1301 | 13.5 | 410 | | | 1303 | 12.2 | 373 | | 1340 | 12.3 | 376 | | |
| | | | | | | 2357 | 13.0 | 395 | | | 2039 | 2.0 | 60 | | | 2110 | 1.7 | 53 | | | 2049 | 2.1 | 65 | | 2147 | 1.3 | 41 | | |
| 12 W | 0015 | 12.2 | 371 | | 27 Th | 0750 | 1.6 | 49 | | 12 Sa | 0053 | 11.0 | 335 | | 27 Su | 0118 | 11.1 | 338 | | 12 M | 0114 | 10.2 | 310 | | 27 Tu | 0206 | 10.0 | 304 | |
| | 0752 | 2.3 | 70 | | | 1217 | 14.5 | 442 | | | 0830 | 1.8 | 55 | | | 0852 | 1.4 | 44 | | | 0842 | 1.4 | 44 | | | 0936 | 1.0 | 32 | |
| | 1228 | 12.8 | 391 | | | 2043 | 0.6 | 19 | | | 1313 | 13.0 | 396 | | | 1329 | 13.6 | 414 | | | 1329 | 12.5 | 381 | | | 1424 | 12.3 | 374 | |
| | 2031 | 2.2 | 67 | | | | | | | | 2100 | 2.4 | 74 | | | 2150 | 1.4 | 44 | | | 2136 | 1.9 | 59 | | | 2236 | 1.3 | 41 | |
| 13 Th | 0039 | 12.1 | 370 | | 28 F | 0028 | 13.1 | 398 | | 13 Su | 0121 | 10.9 | 333 | | 28 M | 0204 | 10.6 | 324 | | 13 Tu | 0149 | 10.2 | 310 | | 28 W | 0246 | 9.8 | 298 | |
| | 0833 | 2.0 | 61 | | | 0838 | 1.0 | 29 | | | 0847 | 2.0 | 62 | | | 0935 | 1.6 | 48 | | | 0915 | 1.7 | 52 | | | 1003 | 1.5 | 45 | |
| | 1302 | 13.0 | 397 | | | 1306 | 14.4 | 439 | | | 1334 | 13.0 | 395 | | | 1423 | 13.1 | 400 | | | 1411 | 12.4 | 377 | | | 1506 | 11.7 | 358 | |
| | 2044 | 2.4 | 74 | | | 2134 | 1.1 | 34 | | | 2139 | 2.2 | 67 | | | 2240 | 1.6 | 48 | | | 2159 | 2.2 | 67 | | | 2256 | 1.7 | 52 | |
| 14 F | 0110 | 12.1 | 368 | | 29 Sa | 0118 | 12.6 | 384 | | | | | | | | | | | | | | | | | | | | | |

Zhongjun, Changjiang Approach, China, 2011

Times and Heights of High and Low Waters

| January | | | | February | | | | March | | | | | | | | | | | | | | | |
|-----------------|--------|------|----------------|-----------------|--------|------|--------|-----------------|--------|--------|-----|-----------------|--------|------|-----|-----------------|--------|------|-----|-----------------|--------|------|-----|
| Time | Height | | Time | Height | | Time | Height | | Time | Height | | Time | Height | | | | | | | | | | |
| | h | m | | ft | cm | | h | m | | ft | cm | | h | m | ft | cm | | | | | | | |
| 1 Sa | 0249 | 2.9 | 89 | 16 Su | 0202 | 3.9 | 118 | 1 Tu | 0450 | 2.4 | 72 | 16 W | 0404 | 2.8 | 86 | 1 Tu | 0334 | 3.5 | 108 | 16 W | 0223 | 4.2 | 129 |
| | 0857 | 11.3 | 345 | | 0824 | 10.4 | 317 | | 1035 | 11.9 | 364 | | 0954 | 12.0 | 366 | | 0930 | 10.8 | 330 | | 0828 | 10.9 | 332 |
| | 1606 | 3.5 | 108 | | 1533 | 4.3 | 132 | | 1752 | 2.3 | 70 | | 1713 | 2.7 | 82 | | 1642 | 2.7 | 83 | | 1544 | 3.3 | 101 |
| | 2103 | 9.5 | 289 | | 2036 | 8.7 | 264 | | 2243 | 10.1 | 307 | | 2208 | 10.3 | 315 | | 2150 | 9.3 | 283 | | 2101 | 9.4 | 287 |
| 2 Su | 0358 | 2.6 | 78 | 17 M | 0321 | 3.3 | 100 | 2 W | 0545 | 1.7 | 52 | 17 Th | 0512 | 1.9 | 59 | 2 W | 0438 | 2.6 | 79 | 17 Th | 0344 | 3.1 | 94 |
| | 0955 | 12.0 | 367 | | 0924 | 11.4 | 347 | | 1114 | 12.4 | 379 | | 1039 | 12.9 | 394 | | 1014 | 11.6 | 353 | | 0926 | 12.0 | 365 |
| | 1711 | 2.9 | 88 | | 1637 | 3.5 | 107 | | 1839 | 2.0 | 61 | | 1809 | 2.0 | 61 | | 1733 | 2.1 | 65 | | 1646 | 2.4 | 73 |
| | 2201 | 9.9 | 303 | | 2134 | 9.5 | 290 | | 2319 | 10.7 | 326 | | 2254 | 11.4 | 348 | | 2226 | 10.3 | 313 | | 2151 | 10.8 | 329 |
| 3 M | 0459 | 2.1 | 65 | 18 Tu | 0430 | 2.5 | 75 | 3 Th | 0635 | 1.2 | 38 | 18 F | 0614 | 1.2 | 37 | 3 Th | 0533 | 1.9 | 57 | 18 F | 0451 | 2.1 | 64 |
| | 1043 | 12.6 | 385 | | 1014 | 12.3 | 376 | | 1148 | 12.6 | 384 | | 1120 | 13.6 | 416 | | 1050 | 12.0 | 367 | | 1013 | 12.9 | 392 |
| | 1805 | 2.4 | 74 | | 1735 | 2.8 | 85 | | 1913 | 2.0 | 62 | | 1858 | 1.4 | 43 | | 1808 | 1.9 | 59 | | 1743 | 1.6 | 48 |
| | 2249 | 10.4 | 317 | | 2221 | 10.4 | 317 | | ● 2353 | 11.1 | 339 | | ○ 2337 | 12.3 | 374 | | 2300 | 11.0 | 336 | | 2235 | 12.0 | 365 |
| 4 Tu | 0552 | 1.7 | 53 | 19 W | 0531 | 1.7 | 51 | 4 F | 0706 | 1.3 | 39 | 19 Sa | 0705 | 0.7 | 22 | 4 F | 0610 | 1.6 | 49 | 19 Sa | 0552 | 1.3 | 41 |
| | 1124 | 13.0 | 397 | | 1058 | 13.2 | 401 | | 1218 | 12.7 | 386 | | 1200 | 14.0 | 427 | | 1120 | 12.3 | 375 | | 1055 | 13.5 | 410 |
| | 1850 | 2.2 | 66 | | 1832 | 2.2 | 67 | | 1943 | 1.8 | 56 | | 1946 | 0.8 | 24 | | 1842 | 1.7 | 51 | | 1839 | 0.9 | 28 |
| | ● 2330 | 10.7 | 327 | | 2305 | 11.2 | 341 | | | | | | | | | | 2329 | 11.5 | 351 | | 2316 | 13.0 | 395 |
| 5 W | 0640 | 1.4 | 44 | 20 Th | 0630 | 1.0 | 31 | 5 Sa | 0022 | 11.4 | 346 | 20 Su | 0015 | 12.9 | 393 | 5 Sa | 0645 | 1.4 | 42 | 20 Su | 0647 | 0.8 | 25 |
| | 1204 | 13.1 | 400 | | 1139 | 13.7 | 418 | | 0740 | 1.2 | 38 | | 0749 | 0.4 | 13 | | 1149 | 12.4 | 377 | | 1134 | 13.7 | 417 |
| | 1936 | 2.1 | 63 | | 1922 | 2.0 | 61 | | 1245 | 12.5 | 382 | | 1237 | 14.0 | 426 | | 1910 | 1.7 | 53 | | 1928 | 1.0 | 32 |
| | | | | | ○ 2349 | 11.8 | 360 | | 2007 | 1.9 | 58 | | 2034 | 0.5 | 16 | | ● 2359 | 11.9 | 362 | | ○ 2357 | 13.6 | 415 |
| 6 Th | 0006 | 10.9 | 333 | 21 F | 0716 | 0.9 | 27 | 6 Su | 0051 | 11.5 | 349 | 21 M | 0055 | 13.2 | 403 | 6 Su | 0717 | 1.6 | 49 | 21 M | 0739 | 0.5 | 16 |
| | 0718 | 1.5 | 46 | | 1219 | 14.1 | 431 | | 0800 | 1.6 | 49 | | 0836 | 0.5 | 14 | | 1214 | 12.4 | 377 | | 1212 | 13.6 | 414 |
| | 1236 | 13.0 | 397 | | 1959 | 1.6 | 48 | | 1308 | 12.4 | 378 | | 1312 | 13.7 | 417 | | 1938 | 1.5 | 46 | | 1950 | 0.8 | 23 |
| | 2002 | 2.3 | 69 | | | | | | 2036 | 1.7 | 51 | | 2052 | 0.8 | 25 | | | | | | | | |
| 7 F | 0041 | 11.0 | 334 | 22 Sa | 0031 | 12.2 | 371 | 7 M | 0117 | 11.5 | 350 | 22 Tu | 0131 | 13.1 | 400 | 7 M | 0026 | 12.1 | 369 | 22 Tu | 0035 | 13.8 | 421 |
| | 0746 | 1.5 | 47 | | 0756 | 0.7 | 21 | | 0831 | 1.8 | 55 | | 0903 | 1.3 | 41 | | 0743 | 1.6 | 50 | | 0819 | 1.2 | 38 |
| | 1308 | 12.8 | 391 | | 1258 | 14.2 | 432 | | 1329 | 12.2 | 371 | | 1347 | 13.0 | 395 | | 1238 | 12.2 | 373 | | 1249 | 13.1 | 400 |
| | 2036 | 2.2 | 67 | | 2044 | 1.1 | 34 | | 2050 | 1.8 | 55 | | 2124 | 1.3 | 39 | | 1956 | 1.6 | 50 | | 2031 | 0.8 | 23 |
| 8 Sa | 0111 | 10.9 | 332 | 23 Su | 0109 | 12.4 | 378 | 8 Tu | 0145 | 11.4 | 346 | 23 W | 0210 | 12.8 | 389 | 8 Tu | 0053 | 12.2 | 373 | 23 W | 0113 | 13.8 | 420 |
| | 0815 | 1.9 | 59 | | 0840 | 0.7 | 22 | | 0846 | 2.3 | 69 | | 0936 | 1.9 | 59 | | 0804 | 2.0 | 61 | | 0846 | 1.4 | 43 |
| | 1333 | 12.5 | 381 | | 1333 | 13.9 | 423 | | 1353 | 11.7 | 358 | | 1421 | 11.9 | 363 | | 1301 | 12.0 | 367 | | 1323 | 12.3 | 376 |
| | 2056 | 2.3 | 70 | | 2126 | 1.4 | 44 | | 2110 | 2.0 | 62 | | 2140 | 1.6 | 50 | | 2021 | 1.9 | 57 | | 2043 | 1.4 | 42 |
| 9 Su | 0143 | 10.7 | 327 | 24 M | 0151 | 12.3 | 376 | 9 W | 0212 | 11.2 | 341 | 24 Th | 0251 | 12.0 | 367 | 9 W | 0118 | 12.2 | 373 | 24 Th | 0150 | 13.3 | 405 |
| | 0840 | 2.2 | 68 | | 0917 | 1.5 | 45 | | 0908 | 2.8 | 86 | | 1003 | 3.0 | 92 | | 0833 | 2.2 | 67 | | 0922 | 2.3 | 69 |
| | 1359 | 12.1 | 370 | | 1410 | 13.3 | 406 | | 1416 | 11.1 | 339 | | 1459 | 10.6 | 323 | | 1323 | 11.6 | 354 | | 1359 | 11.3 | 345 |
| | 2125 | 2.4 | 73 | | 2146 | 1.3 | 41 | | 2133 | 2.3 | 70 | | 2156 | 2.5 | 75 | | 2037 | 1.9 | 59 | | 2058 | 2.1 | 64 |
| 10 M | 0213 | 10.5 | 319 | 25 Tu | 0231 | 12.0 | 365 | 10 Th | 0245 | 10.8 | 330 | 25 F | 0338 | 11.1 | 337 | 10 Th | 0145 | 12.1 | 368 | 25 F | 0227 | 12.6 | 383 |
| | 0859 | 2.8 | 85 | | 0946 | 2.1 | 65 | | 0937 | 3.4 | 104 | | 1048 | 4.0 | 122 | | 0851 | 2.7 | 81 | | 0950 | 3.0 | 90 |
| | 1424 | 11.6 | 355 | | 1448 | 12.4 | 377 | | 1446 | 10.3 | 313 | | 1548 | 9.1 | 278 | | 1348 | 11.0 | 336 | | 1440 | 10.0 | 306 |
| | 2146 | 2.5 | 75 | | 2217 | 1.8 | 56 | | 2148 | 2.9 | 87 | | ● 2230 | 3.4 | 103 | | 2049 | 2.3 | 71 | | 2122 | 2.9 | 89 |
| 11 Tu | 0249 | 10.1 | 309 | 26 W | 0318 | 11.5 | 350 | 11 F | 0325 | 10.4 | 316 | 26 Sa | 0447 | 10.0 | 306 | 11 F | 0213 | 11.8 | 359 | 26 Sa | 0313 | 11.5 | 351 |
| | 0931 | 3.3 | 102 | | 1024 | 3.1 | 96 | | 1012 | 4.2 | 129 | | 1207 | 4.8 | 145 | | 0917 | 3.3 | 100 | | 1036 | 3.8 | 116 |
| | 1454 | 10.9 | 333 | | 1529 | 11.1 | 339 | | 1525 | 9.2 | 281 | | 1707 | 7.7 | 236 | | 1416 | 10.2 | 311 | | 1532 | 8.7 | 265 |
| | 2210 | 2.8 | 86 | | ● 2243 | 2.3 | 70 | | ● 2217 | 3.5 | 107 | | 2332 | 4.3 | 131 | | 2106 | 2.9 | 89 | | ● 2148 | 3.9 | 118 |
| 12 W | 0329 | 9.8 | 300 | 27 Th | 0414 | 10.7 | 327 | 12 Sa | 0423 | 9.8 | 299 | 27 Su | 0640 | 9.4 | 288 | 12 Sa | 0250 | 11.2 | 342 | 27 Su | 0417 | 10.4 | 316 |
| | 0959 | 4.1 | 124 | | 1111 | 4.1 | 125 | | 1116 | 5.0 | 152 | | 1413 | 4.5 | 138 | | 0951 | 3.9 | 120 | | 1153 | 4.4 | 135 |
| | 1530 | 10.1 | 307 | | 1621 | 9.7 | 297 | | 1627 | 8.2 | 250 | | 1921 | 7.3 | 223 | | 1454 | 9.3 | 282 | | 1657 | 7.6 | 232 |
| | ● 2242 | 3.2 | 99 | | 2323 | 3.0 | 92 | | 2312 | 4.2 | 127 | | | | | | 2134 | 3.5 | 108 | | 2256 | 4.9 | 148 |
| 13 Th | 0422 | 9.5 | 290 | 28 F | 0527 | 10.0 | 306 | 13 Su | 0556 | 9.4 | 288 | 28 M | 0153 | 4.4 | 135 | 13 Su | 0340 | 10.5 | 320 | 28 M | 0604 | 9.6 | 293 |
| | 1052 | 4.8 | 146 | | 1236 | 4.8 | 145 | | 1312 | 5.2 | 159 | | 0828 | 9.9 | 303 | | 1048 | 4.7 | 143 | | 1344 | 4.3 | 130 |
| | 1620 | 9.1 | 278 | | 1738 | 8.5 | 258 | | 1816 | 7.6 | 232 | | 1543 | 3.6 | 109 | | 1554 | 8.2 | 251 | | 1910 | 7.5 | 229 |
| | 2326 | 3.7 | 114 | | | | | | | | | | 2100 | 8.2 | 249 | | ● 2219 | 4.4 | 133 | | | | |
| 14 F | 0534 | 9.4 | 285 | 29 Sa | 0032 | 3.6 | 110 | 14 M | 0100 | 4.4 | 134 | 15 Tu | 0248 | 3.8 | 115 | 14 M | 0505 | 9.8 | 300 | 29 Tu | 0132 | 5.0 | 151 |
| | 1220 | 5.3 | 161 | | 0711 | 9.8 | 299 | | 0744 | 9.9 | 301 | | 0859 | 10.9 | 332 | | 1235 | 5.0 | 153 | | 0751 | 9.9 | 301 |
| | 1737 | 8.3 | 254 | | 1428 | 4.6 | 140 | | 1459 | 4.5 | 137 | | 2010 | 8.1 | 247 | | 1745 | 7.6 | 232 | | 1506 | 3.5 | 107 |
| | | | | | 1926 | 7.9 | 242 | | | | | | | | | | | | | | 2038 | 8.5 | 259 |
| 15 Sa | 0036 | 4.0 | 122 | 30 Su | 0214 | 3.7 | 113 | 15 Tu | 0248 | 3.8 | 115 | 15 Tu | 0016 | 4.9 | 148 | 15 Tu | 0016 | 4.9 | 148 | 30 W | 0305 | 4.1 | 124 |
| | 0705 | 9.6 | 294 | | 0845 | 10.4 | 316 | | 0859 | 10.9 | 332 | | 0702 | 10.0 | 304 | | 0702 | 10.0 | 304 | | 0855 | 10.6 | 322 |
| | 1408 | 5.1 | 154 | | 1556 | 3.7 | 113 | | 1611 | 3.5 | 108 | | 1429 | 4.4 | 133 | | 1429 | 4.4 | 133 | | 1602 | 2.8 | 86 |
| | 1914 | 8.2 | 249 | | 2100 | 8.4 | 256 | | 2119 | 9.2 | 280 | | 1951 | 8.2 | 249 | | 1951 | 8.2 | 249 | | 2123 | 9.6 | 294 |
| | | | 31 M | 0343 | 3.1 | 94 | | | | | | | | | | 31 Th | 0407 | 3.1 | 96 | | | | |
| | | | | 0948 | 11.2 | 342 | | | | | | | | | | | 0939 | 11.2 | 341 | | | | |
| | | | | 1701 | 2.9 | 88 | | | | | | | | | | | 1648 | 2.3 | 70 | | | | |
| | | | | 2200 | 9.3 | 282 | | | | | | | | | | | 2159 | 10.6 | 324 | | | | |

Time meridian 120° E. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to the chart datum of soundings.

Zhongjun, Changjiang Approach, China, 2011

Times and Heights of High and Low Waters

| July | | | | August | | | | September | | | | | | | | | | | | | | | |
|-----------------|------|--------|-----|-----------------|------|--------|-----|-----------------|------|--------|-----|-----------------|------|--------|-----|-----------------|------|------|------|-----------------|------|------|-----|
| Time | | Height | | Time | | Height | | Time | | Height | | Time | | Height | | | | | | | | | |
| h | m | ft | cm | h | m | ft | cm | h | m | ft | cm | h | m | ft | cm | | | | | | | | |
| 1 F | 0614 | 2.6 | 80 | 16 Sa | 0704 | 1.9 | 57 | 1 M | 0733 | 1.3 | 40 | 16 Tu | 0010 | 14.2 | 434 | 1 Th | 0026 | 15.2 | 464 | | | | |
| | 1100 | 11.6 | 353 | | 1146 | 11.9 | 364 | | 1155 | 13.3 | 406 | | 0741 | 1.7 | 52 | | 0816 | 1.5 | 46 | 16 F | 0026 | 13.3 | 405 |
| | 1756 | 2.3 | 71 | | 1847 | 2.1 | 63 | | 1920 | 1.6 | 50 | | 1223 | 13.0 | 395 | | 1248 | 14.9 | 455 | | 0742 | 2.1 | 65 |
| | 2327 | 14.6 | 445 | | | | | | | | | | 1935 | 2.2 | 67 | | 2032 | 1.5 | 45 | | 1247 | 13.8 | 421 |
| | | | | | | | | | | | | | | | | 1954 | 2.9 | 88 | | | | | |
| 2 Sa | 0653 | 2.3 | 70 | 17 Su | 0008 | 14.5 | 442 | 2 Tu | 0016 | 15.5 | 472 | 17 W | 0035 | 13.9 | 425 | 2 F | 0100 | 14.6 | 444 | 17 Sa | 0050 | 12.8 | 391 |
| | 1139 | 12.0 | 366 | | 0743 | 1.6 | 50 | | 0757 | 1.5 | 46 | | 0800 | 2.0 | 61 | | 0838 | 1.3 | 40 | | 0756 | 2.5 | 76 |
| | 1842 | 2.0 | 61 | | 1220 | 12.2 | 371 | | 1234 | 13.6 | 416 | | 1253 | 13.0 | 397 | | 1324 | 14.7 | 448 | | 1313 | 13.7 | 418 |
| | | | | 1931 | 2.0 | 62 | | | | 1953 | 1.7 | 51 | | | | 2049 | 2.5 | 77 | 2024 | 3.3 | 101 | | |
| 3 Su | 0004 | 14.9 | 453 | 18 M | 0040 | 14.3 | 436 | 3 W | 0051 | 15.3 | 467 | 18 Th | 0058 | 13.6 | 415 | 3 Sa | 0138 | 13.5 | 413 | 18 Su | 0114 | 12.1 | 369 |
| | 0740 | 1.9 | 58 | | 0815 | 2.0 | 60 | | 0840 | 1.1 | 33 | | 0829 | 2.2 | 68 | | 0853 | 2.1 | 65 | | 0814 | 3.0 | 90 |
| | 1215 | 12.3 | 372 | | 1255 | 12.2 | 372 | | 1310 | 13.8 | 422 | | 1318 | 13.0 | 396 | | 1408 | 14.1 | 429 | | 1342 | 13.3 | 406 |
| | 1931 | 1.8 | 55 | | 1952 | 2.4 | 73 | | 2036 | 1.8 | 54 | | 2019 | 3.1 | 94 | | 2129 | 3.5 | 108 | | 2046 | 3.9 | 118 |
| 4 M | 0040 | 15.0 | 456 | 19 Tu | 0109 | 14.0 | 427 | 4 Th | 0128 | 14.8 | 452 | 19 F | 0122 | 13.1 | 399 | 4 Su | 0216 | 12.2 | 371 | 19 M | 0143 | 11.2 | 342 |
| | 0827 | 2.1 | 64 | | 0841 | 1.9 | 57 | | 0906 | 1.7 | 52 | | 0840 | 2.4 | 72 | | 0916 | 3.0 | 90 | | 0831 | 3.4 | 105 |
| | 1255 | 12.5 | 382 | | 1325 | 12.1 | 370 | | 1352 | 13.7 | 419 | | 1348 | 12.8 | 390 | | 1456 | 13.1 | 400 | | 1417 | 12.8 | 389 |
| | 2000 | 2.1 | 64 | | 2023 | 2.9 | 88 | | 2107 | 2.7 | 82 | | 2042 | 3.5 | 106 | | 2207 | 4.5 | 138 | | 2121 | 4.7 | 143 |
| 5 Tu | 0116 | 14.9 | 453 | 20 W | 0136 | 13.5 | 413 | 5 F | 0203 | 14.0 | 427 | 20 Sa | 0147 | 12.4 | 377 | 5 M | 0305 | 10.6 | 323 | 20 Tu | 0219 | 10.2 | 310 |
| | 0851 | 1.8 | 56 | | 0901 | 2.2 | 67 | | 0936 | 1.8 | 54 | | 0854 | 2.9 | 87 | | 0944 | 3.9 | 120 | | 0849 | 4.2 | 129 |
| | 1334 | 12.5 | 376 | | 1359 | 12.0 | 365 | | 1434 | 13.4 | 407 | | 1419 | 12.5 | 381 | | 1559 | 12.0 | 366 | | 1504 | 11.9 | 364 |
| | 2040 | 2.3 | 71 | | 2044 | 3.2 | 99 | | 2142 | 3.4 | 104 | | 2108 | 4.2 | 129 | | 2325 | 5.5 | 167 | | 2214 | 5.5 | 168 |
| 6 W | 0153 | 14.5 | 442 | 21 Th | 0202 | 13.0 | 396 | 6 Sa | 0244 | 12.8 | 391 | 21 Su | 0215 | 11.4 | 347 | 6 Tu | 0420 | 9.0 | 275 | 21 W | 0315 | 9.1 | 276 |
| | 0935 | 1.7 | 52 | | 0930 | 2.4 | 73 | | 0958 | 2.5 | 77 | | 0912 | 3.5 | 108 | | 1039 | 5.2 | 157 | | 0930 | 5.2 | 159 |
| | 1416 | 12.5 | 382 | | 1431 | 11.7 | 357 | | 1526 | 12.8 | 390 | | 1459 | 12.0 | 366 | | 1744 | 11.2 | 341 | | 1623 | 11.1 | 339 |
| | 2120 | 3.0 | 90 | | 2110 | 3.9 | 119 | | 2230 | 4.4 | 135 | | 2146 | 5.1 | 155 | | | | | | | | |
| 7 Th | 0232 | 13.8 | 422 | 22 F | 0230 | 12.2 | 372 | 7 Su | 0332 | 11.4 | 347 | 22 M | 0253 | 10.2 | 311 | 7 W | 0129 | 5.3 | 163 | 22 Th | 0001 | 5.9 | 179 |
| | 1002 | 2.2 | 66 | | 0947 | 2.9 | 89 | | 1035 | 3.3 | 101 | | 0937 | 4.2 | 129 | | 0637 | 8.3 | 254 | | 0506 | 8.3 | 253 |
| | 1505 | 12.3 | 378 | | 1511 | 11.4 | 348 | | 1632 | 12.0 | 367 | | 1553 | 11.4 | 347 | | 1259 | 5.6 | 172 | | 1122 | 6.0 | 184 |
| | 2200 | 3.6 | 110 | | 2144 | 4.6 | 140 | | 2341 | 5.3 | 162 | | 2252 | 5.9 | 181 | | 1944 | 11.5 | 350 | | 1826 | 11.1 | 338 |
| 8 F | 0316 | 12.9 | 393 | 23 Sa | 0304 | 11.2 | 342 | 8 M | 0441 | 9.9 | 302 | 23 Tu | 0351 | 9.0 | 275 | 8 Th | 0304 | 4.2 | 127 | 23 F | 0155 | 5.1 | 156 |
| | 1041 | 2.5 | 76 | | 1013 | 3.6 | 109 | | 1129 | 4.3 | 130 | | 1022 | 5.1 | 156 | | 0830 | 9.2 | 280 | | 0727 | 8.9 | 272 |
| | 1603 | 12.0 | 367 | | 1558 | 11.1 | 338 | | 1807 | 11.6 | 353 | | 1720 | 11.0 | 334 | | 1451 | 4.7 | 142 | | 1346 | 5.4 | 164 |
| | 2254 | 4.4 | 133 | | 2234 | 5.4 | 164 | | | | | | | | | | 2053 | 12.4 | 379 | | 1954 | 12.0 | 367 |
| 9 Sa | 0410 | 11.8 | 359 | 24 Su | 0350 | 10.1 | 307 | 9 Tu | 0131 | 5.3 | 162 | 24 W | 0052 | 6.1 | 186 | 9 F | 0407 | 3.1 | 94 | 24 Sa | 0307 | 3.9 | 120 |
| | 1129 | 3.1 | 93 | | 1048 | 4.2 | 129 | | 0626 | 9.0 | 273 | | 0544 | 8.3 | 252 | | 0922 | 10.5 | 321 | | 0834 | 10.4 | 316 |
| | 1712 | 11.8 | 359 | | 1703 | 10.8 | 330 | | 1308 | 4.7 | 144 | | 1213 | 5.6 | 172 | | 1558 | 3.5 | 108 | | 1506 | 4.1 | 124 |
| | | | | | 2355 | 5.9 | 181 | | 1950 | 11.9 | 363 | | 1911 | 11.3 | 345 | | 2138 | 13.3 | 404 | | 2050 | 13.2 | 402 |
| 10 Su | 0010 | 5.0 | 151 | 25 M | 0500 | 9.0 | 275 | 10 W | 0310 | 4.3 | 132 | 25 Th | 0235 | 5.2 | 158 | 10 Sa | 0456 | 2.3 | 70 | 25 Su | 0405 | 2.9 | 88 |
| | 0519 | 10.6 | 324 | | 1147 | 4.8 | 147 | | 0817 | 9.2 | 281 | | 0750 | 8.8 | 268 | | 0959 | 11.7 | 356 | | 0917 | 11.9 | 364 |
| | 1227 | 3.5 | 108 | | 1828 | 10.9 | 333 | | 1450 | 4.2 | 129 | | 1409 | 5.0 | 152 | | 1652 | 2.7 | 82 | | 1612 | 2.9 | 87 |
| | 1835 | 11.8 | 359 | | | | | | 2103 | 12.8 | 390 | | 2026 | 12.4 | 377 | | 2213 | 13.8 | 420 | | 2133 | 14.1 | 431 |
| 11 M | 0146 | 4.9 | 148 | 26 Tu | 0145 | 5.7 | 174 | 11 Th | 0423 | 3.2 | 97 | 26 F | 0340 | 4.0 | 121 | 11 Su | 0540 | 1.8 | 54 | 26 M | 0459 | 2.1 | 64 |
| | 0646 | 9.9 | 302 | | 0643 | 8.6 | 262 | | 0925 | 10.2 | 310 | | 0855 | 10.0 | 306 | | 1029 | 12.6 | 383 | | 0956 | 13.4 | 408 |
| | 1342 | 3.7 | 113 | | 1319 | 4.9 | 150 | | 1604 | 3.4 | 103 | | 1528 | 3.9 | 118 | | 1739 | 2.1 | 64 | | 1718 | 2.0 | 61 |
| | 2001 | 12.2 | 373 | | 1953 | 11.6 | 354 | | 2154 | 13.6 | 415 | | 2117 | 13.5 | 412 | | 2245 | 14.0 | 426 | | 2211 | 14.8 | 452 |
| 12 Tu | 0315 | 4.1 | 126 | 27 W | 0307 | 4.8 | 147 | 12 F | 0521 | 2.4 | 73 | 27 Sa | 0436 | 2.9 | 88 | 12 M | 0615 | 1.9 | 58 | 27 Tu | 0548 | 1.4 | 42 |
| | 0814 | 9.9 | 301 | | 0814 | 9.1 | 276 | | 1011 | 11.2 | 341 | | 0938 | 11.4 | 346 | | 1100 | 13.1 | 400 | | 1034 | 14.4 | 440 |
| | 1502 | 3.5 | 107 | | 1442 | 4.4 | 133 | | 1703 | 2.7 | 81 | | 1632 | 2.7 | 82 | | 1815 | 2.1 | 65 | | 1811 | 1.5 | 46 |
| | 2109 | 13.0 | 397 | | 2055 | 12.6 | 384 | | 2234 | 14.2 | 432 | | 2159 | 14.5 | 442 | | 2312 | 14.0 | 426 | | 2248 | 15.1 | 461 |
| 13 W | 0432 | 3.1 | 95 | 28 Th | 0407 | 3.9 | 118 | 13 Sa | 0603 | 2.0 | 60 | 28 Su | 0534 | 2.0 | 60 | 13 Tu | 0641 | 1.6 | 50 | 28 W | 0641 | 0.7 | 20 |
| | 0924 | 10.4 | 316 | | 0913 | 10.0 | 304 | | 1051 | 12.0 | 365 | | 1015 | 12.6 | 384 | | 1127 | 13.5 | 411 | | 1111 | 15.2 | 464 |
| | 1614 | 3.1 | 94 | | 1547 | 3.5 | 108 | | 1751 | 2.2 | 66 | | 1732 | 1.8 | 54 | | 1842 | 2.0 | 61 | | 1850 | 1.1 | 35 |
| | 2204 | 13.7 | 419 | | 2142 | 13.5 | 413 | | 2310 | 14.4 | 440 | | 2236 | 15.2 | 462 | | 2339 | 13.8 | 422 | | 2328 | 15.0 | 457 |
| 14 Th | 0534 | 2.3 | 70 | 29 F | 0459 | 3.1 | 93 | 14 Su | 0643 | 1.6 | 49 | 29 M | 0631 | 1.3 | 40 | 14 W | 0701 | 1.9 | 59 | 29 Th | 0725 | 1.3 | 40 |
| | 1018 | 11.0 | 336 | | 0958 | 11.0 | 335 | | 1123 | 12.5 | 381 | | 1054 | 13.6 | 416 | | 1156 | 13.7 | 418 | | 1151 | 15.6 | 475 |
| | 1714 | 2.6 | 80 | | 1645 | 2.8 | 84 | | 1835 | 1.9 | 57 | | 1831 | 1.1 | 33 | | 1909 | 2.4 | 72 | | 1940 | 0.9 | 27 |
| | 2250 | 14.3 | 435 | | 2224 | 14.4 | 439 | | 2342 | 14.4 | 439 | | 2313 | 15.6 | 474 | | | | | | | | |
| 15 F | 0630 | 1.8 | 54 | 30 Sa | 0548 | 2.4 | 73 | 15 M | 0717 | 1.9 | 58 | 30 Tu | 0656 | 1.4 | 42 | 15 Th | 0002 | 13.6 | 416 | 30 F | 0002 | 14.5 | 443 |
| | 1104 | 11.6 | 353 | | 1039 | 11.9 | 362 | | 1156 | 12.8 | 391 | | 1134 | 14.3 | 437 | | 0732 | 1.8 | 55 | | 0742 | 1.1 | 33 |
| | 1803 | 2.3 | 69 | | 1740 | 2.1 | 63 | | 1902 | 2.2 | 66 | | 1907 | 1.4 | 42 | | | | | | | | |

Zhongjun, Changjiang Approach, China, 2011

Times and Heights of High and Low Waters

| October | | | | November | | | | December | | | | | | | | | | | | | | | | | | | | | |
|-----------------|--------|------|-----|----------|-----------------|------|------|----------|--------|-----------------|------|------|--------|-----|-----------------|------|------|------|-----|-----------------|------|------|------|------|-----------------|------|------|------|------|
| Time | Height | | | Time | Height | | | Time | Height | | | Time | Height | | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | |
| 1 Sa | 0042 | 13.7 | 419 | | 16 Su | 0029 | 12.3 | 374 | | 1 Tu | 0159 | 10.6 | 324 | | 16 W | 0125 | 10.9 | 332 | | 1 Th | 0245 | 9.9 | 301 | | 16 F | 0207 | 10.9 | 333 | |
| | 0803 | 1.9 | 57 | | | 0735 | 2.4 | 72 | | | 0834 | 3.3 | 102 | | | 0810 | 3.1 | 95 | | | 0910 | 3.7 | 113 | | | 0858 | 2.8 | 86 | |
| | 1309 | 15.1 | 459 | | | 1253 | 14.1 | 430 | | | 1427 | 13.0 | 396 | | | 1353 | 13.2 | 402 | | | 1506 | 11.8 | 359 | | | 1431 | 12.8 | 390 | |
| | 2041 | 2.4 | 73 | | | 2010 | 3.2 | 97 | | | 2158 | 3.8 | 115 | | | 2116 | 3.5 | 107 | | | 2235 | 3.4 | 104 | | | 2156 | 2.8 | 84 | |
| 2 Su | 0119 | 12.6 | 384 | | 17 M | 0057 | 11.7 | 356 | | 2 W | 0255 | 9.5 | 290 | | 17 Th | 0209 | 10.3 | 314 | | 2 F | 0341 | 9.3 | 282 | | 17 Sa | 0257 | 10.6 | 322 | |
| | 0827 | 2.5 | 75 | | | 0747 | 2.9 | 87 | | | 0902 | 4.4 | 134 | | | 0842 | 3.7 | 112 | | | 0954 | 4.5 | 137 | | | 0943 | 3.4 | 104 | |
| | 1349 | 14.2 | 434 | | | 1322 | 13.7 | 418 | | | 1523 | 11.7 | 358 | | | 1437 | 12.5 | 381 | | | 1557 | 10.8 | 328 | | | 1518 | 12.1 | 368 | |
| | 2117 | 3.4 | 105 | | | 2039 | 3.5 | 107 | | | 2259 | 4.4 | 133 | | | 2200 | 3.8 | 116 | | | 2325 | 3.8 | 115 | | | 2243 | 2.9 | 89 | |
| 3 M | 0201 | 11.3 | 344 | | 18 Tu | 0127 | 11.0 | 334 | | 3 Th | 0411 | 8.7 | 265 | | 18 F | 0306 | 9.7 | 297 | | 3 Sa | 0452 | 8.9 | 271 | | 18 Su | 0357 | 10.3 | 314 | |
| | 0841 | 3.3 | 100 | | | 0807 | 3.4 | 105 | | | 1004 | 5.4 | 166 | | | 0933 | 4.4 | 135 | | | 1102 | 5.2 | 159 | | | 1040 | 4.1 | 125 | |
| | 1435 | 13.2 | 401 | | | 1357 | 13.1 | 399 | | | 1645 | 10.7 | 325 | | | 1536 | 11.7 | 358 | | | 1702 | 9.9 | 301 | | | 1615 | 11.3 | 343 | |
| | 2200 | 4.4 | 133 | | | 2111 | 4.2 | 127 | | | ☉ | | | | | ☉ | 2302 | 4.0 | 123 | | | ☉ | 2338 | 3.1 | | 95 | | | |
| 4 Tu | 0255 | 9.8 | 299 | | 19 W | 0208 | 10.1 | 308 | | 4 F | 0024 | 4.5 | 137 | | 19 Sa | 0424 | 9.4 | 287 | | 4 Su | 0026 | 3.9 | 118 | | 19 M | 0512 | 10.2 | 311 | |
| | 0910 | 4.5 | 136 | | | 0835 | 4.1 | 126 | | | 0602 | 8.5 | 260 | | | 1050 | 5.1 | 156 | | | 0614 | 9.0 | 274 | | | 1158 | 4.6 | 141 | |
| | 1536 | 11.8 | 361 | | | 1442 | 12.3 | 374 | | | 1211 | 5.9 | 181 | | | 1654 | 11.1 | 339 | | | 1241 | 5.4 | 165 | | | 1727 | 10.5 | 321 | |
| | 2315 | 5.1 | 156 | | | 2202 | 4.8 | 146 | | | 1824 | 10.2 | 312 | | | 1821 | 11.0 | 335 | | | 1820 | 9.4 | 286 | | | | | | |
| 5 W | 0417 | 8.5 | 260 | | 20 Th | 0307 | 9.2 | 281 | | 5 Sa | 0145 | 4.0 | 123 | | 20 Su | 0020 | 4.0 | 121 | | 5 M | 0131 | 3.7 | 114 | | 20 Tu | 0045 | 3.1 | 96 | |
| | 1007 | 5.7 | 174 | | | 0917 | 5.1 | 156 | | | 0737 | 9.3 | 283 | | | 0602 | 9.7 | 297 | | | 0728 | 9.6 | 292 | | | 0637 | 10.5 | 320 | |
| | 1722 | 10.8 | 330 | | | 1553 | 11.4 | 348 | | | 1401 | 5.3 | 161 | | | 1240 | 5.1 | 155 | | | 1411 | 5.0 | 152 | | | 1336 | 4.5 | 138 | |
| | | | | | | ☉ | 2326 | 5.2 | 157 | | | 1942 | 10.4 | 318 | | | 1821 | 11.0 | 335 | | | 1933 | 9.4 | 285 | | | 1849 | 10.1 | 309 |
| 6 Th | 0111 | 5.0 | 152 | | 21 F | 0447 | 8.7 | 265 | | 6 Su | 0246 | 3.4 | 105 | | 21 M | 0140 | 3.5 | 106 | | 6 Tu | 0231 | 3.4 | 105 | | 21 W | 0158 | 3.0 | 91 | |
| | 0646 | 8.3 | 253 | | | 1059 | 5.9 | 179 | | | 0830 | 10.4 | 317 | | | 0724 | 10.8 | 328 | | | 0825 | 10.4 | 318 | | | 0758 | 11.2 | 342 | |
| | 1256 | 6.0 | 184 | | | 1738 | 11.0 | 336 | | | 1510 | 4.4 | 133 | | | 1413 | 4.4 | 133 | | | 1519 | 4.3 | 131 | | | 1502 | 3.9 | 120 | |
| | 1920 | 10.9 | 333 | | | | | | | | 2034 | 10.9 | 331 | | | 1935 | 11.3 | 344 | | | 2030 | 9.6 | 294 | | | 2006 | 10.2 | 310 | |
| 7 F | 0239 | 4.0 | 123 | | 22 Sa | 0108 | 4.7 | 144 | | 7 M | 0336 | 2.9 | 88 | | 22 Tu | 0248 | 2.8 | 86 | | 7 W | 0322 | 3.1 | 94 | | 22 Th | 0313 | 2.6 | 79 | |
| | 0822 | 9.4 | 288 | | | 0652 | 9.3 | 283 | | | 0909 | 11.5 | 349 | | | 0826 | 12.0 | 366 | | | 0910 | 11.4 | 346 | | | 0905 | 12.1 | 370 | |
| | 1442 | 4.9 | 150 | | | 1317 | 5.4 | 165 | | | 1601 | 3.5 | 108 | | | 1532 | 3.4 | 103 | | | 1612 | 3.6 | 110 | | | 1620 | 3.2 | 98 | |
| | 2028 | 11.6 | 355 | | | 1913 | 11.5 | 352 | | | 2113 | 11.3 | 345 | | | 2036 | 11.8 | 359 | | | 2115 | 10.1 | 308 | | | 2111 | 10.5 | 321 | |
| 8 Sa | 0338 | 3.1 | 95 | | 23 Su | 0229 | 3.8 | 115 | | 8 Tu | 0417 | 2.6 | 78 | | 23 W | 0349 | 2.2 | 67 | | 8 Th | 0407 | 2.7 | 82 | | 23 F | 0423 | 2.2 | 66 | |
| | 0907 | 10.8 | 329 | | | 0806 | 10.7 | 327 | | | 0941 | 12.3 | 376 | | | 0918 | 13.2 | 402 | | | 0949 | 12.2 | 371 | | | 1001 | 13.0 | 395 | |
| | 1544 | 3.8 | 115 | | | 1444 | 4.2 | 127 | | | 1646 | 2.9 | 89 | | | 1638 | 2.5 | 77 | | | 1658 | 3.1 | 94 | | | 1731 | 2.4 | 73 | |
| | 2112 | 12.3 | 376 | | | 2016 | 12.4 | 378 | | | 2148 | 11.7 | 356 | | | 2128 | 12.2 | 371 | | | 2155 | 10.6 | 322 | | | 2208 | 11.0 | 334 | |
| 9 Su | 0427 | 2.5 | 77 | | 24 M | 0334 | 2.8 | 84 | | 9 W | 0451 | 2.2 | 68 | | 24 Th | 0446 | 1.7 | 51 | | 9 F | 0450 | 2.3 | 69 | | 24 Sa | 0527 | 1.7 | 53 | |
| | 0938 | 11.9 | 362 | | | 0855 | 12.3 | 374 | | | 1012 | 13.1 | 398 | | | 1006 | 14.1 | 429 | | | 1024 | 12.9 | 393 | | | 1050 | 13.6 | 414 | |
| | 1636 | 2.9 | 89 | | | 1552 | 3.0 | 92 | | | 1732 | 2.5 | 76 | | | 1740 | 1.9 | 58 | | | 1743 | 2.7 | 83 | | | 1831 | 1.9 | 58 | |
| | 2147 | 12.8 | 390 | | | 2105 | 13.2 | 403 | | | 2218 | 11.9 | 364 | | | 2214 | 12.4 | 379 | | | 2231 | 11.0 | 335 | | | 2258 | 11.3 | 344 | |
| 10 M | 0500 | 2.2 | 66 | | 25 Tu | 0434 | 1.9 | 57 | | 10 Th | 0532 | 1.9 | 59 | | 25 F | 0540 | 1.3 | 39 | | 10 Sa | 0536 | 1.8 | 56 | | 25 Su | 0618 | 1.4 | 44 | |
| | 1007 | 12.8 | 390 | | | 0936 | 13.6 | 415 | | | 1043 | 13.6 | 415 | | | 1052 | 14.6 | 445 | | | 1101 | 13.4 | 408 | | | 1135 | 13.9 | 423 | |
| | 1718 | 2.5 | 77 | | | 1654 | 2.2 | 66 | | | 1802 | 2.5 | 75 | | | 1838 | 1.5 | 46 | | | 1830 | 2.5 | 76 | | | 1917 | 2.0 | 60 | |
| | 2216 | 13.1 | 398 | | | 2148 | 13.8 | 420 | | | 2250 | 12.1 | 369 | | | ☉ | 2300 | 12.5 | 380 | | | ☉ | 2305 | 11.4 | | 346 | | ☉ | 2345 |
| 11 Tu | 0537 | 1.8 | 55 | | 26 W | 0532 | 1.2 | 36 | | 11 F | 0556 | 2.0 | 60 | | 26 Sa | 0633 | 1.1 | 34 | | 11 Su | 0613 | 1.7 | 53 | | 26 M | 0659 | 1.3 | 40 | |
| | 1035 | 13.4 | 407 | | | 1016 | 14.7 | 448 | | | 1114 | 14.0 | 427 | | | 1134 | 14.8 | 451 | | | 1134 | 13.7 | 417 | | | 1218 | 14.0 | 426 | |
| | 1749 | 2.2 | 67 | | | 1750 | 1.5 | 47 | | | 1839 | 2.3 | 70 | | | 1931 | 1.5 | 46 | | | 1858 | 2.6 | 79 | | | 1955 | 1.8 | 55 | |
| | 2245 | 13.2 | 401 | | | 2230 | 14.0 | 426 | | | ☉ | 2319 | 12.1 | 369 | | | 2346 | 12.2 | 373 | | | 2340 | 11.5 | 351 | | | | | |
| 12 W | 0601 | 1.9 | 59 | | 27 Th | 0608 | 1.3 | 41 | | 12 Sa | 0633 | 1.8 | 54 | | 27 Su | 0701 | 1.5 | 46 | | 12 M | 0647 | 1.6 | 48 | | 27 Tu | 0027 | 11.4 | 347 | |
| | 1104 | 13.8 | 422 | | | 1058 | 15.3 | 467 | | | 1144 | 14.2 | 432 | | | 1218 | 14.8 | 450 | | | 1210 | 13.8 | 422 | | | 0741 | 1.3 | 39 | |
| | 1831 | 2.0 | 61 | | | 1844 | 1.1 | 33 | | | 1910 | 2.6 | 80 | | | 1958 | 1.9 | 59 | | | 1938 | 2.5 | 76 | | | 1258 | 13.7 | 418 | |
| | 2311 | 13.1 | 400 | | | ☉ | 2308 | 13.8 | 422 | | | 2350 | 12.0 | 367 | | | | | | | | | | | | | 2039 | 1.8 | 55 |
| 13 Th | 0634 | 1.7 | 53 | | 28 F | 0644 | 1.0 | 32 | | 13 Su | 0653 | 2.0 | 61 | | 28 M | 0029 | 11.8 | 359 | | 13 Tu | 0012 | 11.6 | 353 | | 28 W | 0106 | 11.3 | 343 | |
| | 1130 | 14.1 | 431 | | | 1138 | 15.5 | 473 | | | 1215 | 14.2 | 433 | | | 0739 | 1.7 | 51 | | | 0729 | 1.8 | 54 | | | 0814 | 1.7 | 53 | |
| | 1849 | 2.3 | 69 | | | 1936 | 1.1 | 33 | | | 1940 | 2.7 | 81 | | | 1301 | 14.3 | 437 | | | 1243 | 13.8 | 420 | | | 1333 | 13.2 | 403 | |
| | 2338 | 13.0 | 395 | | | 2350 | 13.5 | 410 | | | | | | | | 2042 | 2.1 | 63 | | | 2010 | 2.7 | 81 | | | 2105 | 2.2 | 66 | |
| 14 F | 0649 | 2.0 | 60 | | 29 Sa | 0725 | 1.5 | 47 | | 14 M | 0018 | 11.8 | 359 | | 29 Tu | 0111 | 11.2 | 342 | | 14 W | 0049 | 11.5 | 349 | | 29 Th | 0145 | 10.9 | 332 | |
| | 1159 | 14.3 | 435 | | | 1219 | 15.4 | 470 | | | 0725 | 2.3 | 70 | | | 0806 | 2.3 | 69 | | | 0752 | 1.9 | 58 | | | 0842 | 2.1 | 65 | |
| | 1925 | 2.6 | 78 | | | 2001 | 1.9 | 59 | | | 1246 | 14.0 | 427 | | | 1341 | 13.6 | 416 | | | 1317 | 13.6 | 416 | | | 1407 | 12.6 | 384 | |
| | | | | | | | | | | | 2008 | 3.0 | 92 | | | 2117 | 2.7 | 82 | | | 2044 | 2.5 | 77 | | | 2 | | | |

Ch'ang Chiang Approach (Side Saddle), China, 2011

Times and Heights of High and Low Waters

| January | | | | February | | | | March | | | | | | | | | | | | | | | | | | | | | |
|-----------------|--------|------|------|----------|-----------------|--------|--------|-------|------|-----------------|--------|------|--------|----|-----------------|--------|------|-----|--|-----------------|--------|------|-----|--|-----------------|--------|--------|-----|--|
| Time | Height | | Time | Height | | Time | Height | | Time | Height | | Time | Height | | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | | | | | | |
| 1 Sa | 0110 | 4.8 | 146 | | 16 Su | 0022 | 6.0 | 183 | | 1 Tu | 0254 | 4.3 | 131 | | 16 W | 0215 | 4.7 | 143 | | 1 Tu | 0147 | 5.7 | 174 | | 16 W | 0039 | 6.2 | 189 | |
| | 0745 | 13.5 | 411 | | | 0715 | 12.6 | 384 | | | 0918 | 14.4 | 439 | | | 0841 | 14.5 | 442 | | | 0817 | 13.3 | 405 | | | 0720 | 13.3 | 405 | |
| | 1416 | 6.3 | 192 | | | 1347 | 7.1 | 216 | | | 1547 | 5.1 | 155 | | | 1512 | 5.1 | 155 | | | 1450 | 6.0 | 183 | | | 1356 | 6.2 | 189 | |
| | 1940 | 11.7 | 357 | | | 1915 | 11.1 | 338 | | | 2119 | 12.2 | 372 | | | 2049 | 12.7 | 387 | | | 2026 | 11.6 | 354 | | | 1939 | 11.9 | 363 | |
| 2 Su | 0211 | 4.2 | 128 | | 17 M | 0136 | 5.3 | 162 | | 2 W | 0338 | 3.7 | 113 | | 17 Th | 0307 | 3.5 | 107 | | 2 W | 0241 | 5.0 | 152 | | 17 Th | 0153 | 5.1 | 155 | |
| | 0840 | 14.3 | 436 | | | 0812 | 13.6 | 415 | | | 0954 | 14.9 | 454 | | | 0925 | 15.5 | 472 | | | 0857 | 14.0 | 427 | | | 0814 | 14.4 | 439 | |
| | 1511 | 5.6 | 171 | | | 1445 | 6.1 | 186 | | | 1623 | 4.5 | 137 | | | 1553 | 4.0 | 122 | | | 1526 | 5.1 | 155 | | | 1444 | 4.9 | 149 | |
| | 2035 | 12.1 | 369 | | | 2013 | 11.7 | 357 | | | 2157 | 12.9 | 393 | | | 2134 | 13.7 | 418 | | | 2107 | 12.6 | 384 | | | 2031 | 13.2 | 402 | |
| 3 M | 0302 | 3.7 | 113 | | 18 Tu | 0233 | 4.3 | 131 | | 3 Th | 0416 | 3.4 | 104 | | 18 F | 0353 | 2.6 | 79 | | 3 Th | 0322 | 4.3 | 131 | | 18 F | 0248 | 3.9 | 119 | |
| | 0926 | 15.0 | 457 | | | 0900 | 14.7 | 448 | | | 1026 | 15.3 | 466 | | | 1004 | 16.2 | 494 | | | 0930 | 14.6 | 445 | | | 0858 | 15.2 | 463 | |
| | 1557 | 5.0 | 152 | | | 1532 | 5.2 | 158 | | | 1655 | 4.1 | 125 | | | 1631 | 3.1 | 94 | | | 1557 | 4.5 | 137 | | | 1525 | 3.8 | 116 | |
| | 2122 | 12.5 | 381 | | | 2102 | 12.5 | 381 | | | ● 2231 | 13.3 | 405 | | | ○ 2215 | 14.6 | 445 | | | 2141 | 13.3 | 405 | | | 2116 | 14.5 | 442 | |
| 4 Tu | 0347 | 3.3 | 101 | | 19 W | 0322 | 3.4 | 104 | | 4 F | 0449 | 3.3 | 101 | | 19 Sa | 0436 | 2.0 | 61 | | 4 F | 0357 | 3.9 | 119 | | 19 Sa | 0335 | 3.0 | 91 | |
| | 1006 | 15.4 | 469 | | | 0943 | 15.5 | 472 | | | 1056 | 15.4 | 469 | | | 1042 | 16.5 | 503 | | | 1000 | 14.9 | 454 | | | 0938 | 15.8 | 482 | |
| | 1637 | 4.6 | 140 | | | 1613 | 4.4 | 134 | | | 1723 | 3.9 | 119 | | | 1708 | 2.5 | 76 | | | 1626 | 4.0 | 122 | | | 1604 | 2.8 | 85 | |
| | ● 2204 | 12.8 | 390 | | | 2147 | 13.2 | 402 | | | 2302 | 13.6 | 415 | | | 2255 | 15.2 | 463 | | | 2211 | 14.0 | 427 | | | 2157 | 15.5 | 472 | |
| 5 W | 0427 | 3.1 | 94 | | 20 Th | 0406 | 2.7 | 82 | | 5 Sa | 0520 | 3.3 | 101 | | 20 Su | 0517 | 1.9 | 58 | | 5 Sa | 0429 | 3.6 | 110 | | 20 Su | 0419 | 2.4 | 73 | |
| | 1042 | 15.6 | 475 | | | 1023 | 16.2 | 494 | | | 1123 | 15.3 | 466 | | | 1118 | 16.4 | 500 | | | 1027 | 15.1 | 460 | | | 1016 | 16.0 | 488 | |
| | 1714 | 4.4 | 134 | | | 1652 | 3.7 | 113 | | | 1750 | 3.8 | 116 | | | 1744 | 2.2 | 67 | | | 1652 | 3.7 | 113 | | | 1641 | 2.2 | 67 | |
| | 2242 | 13.0 | 396 | | | ○ 2228 | 13.8 | 421 | | | 2332 | 13.8 | 421 | | | 2335 | 15.5 | 472 | | | ● 2240 | 14.4 | 439 | | | ○ 2238 | 16.1 | 491 | |
| 6 Th | 0504 | 3.2 | 98 | | 21 F | 0449 | 2.2 | 67 | | 6 Su | 0548 | 3.6 | 110 | | 21 M | 0558 | 2.2 | 67 | | 6 Su | 0459 | 3.6 | 110 | | 21 M | 0502 | 2.3 | 70 | |
| | 1116 | 15.6 | 475 | | | 1101 | 16.5 | 503 | | | 1149 | 15.0 | 457 | | | 1153 | 15.9 | 485 | | | 1053 | 15.0 | 457 | | | 1053 | 15.8 | 482 | |
| | 1747 | 4.4 | 134 | | | 1731 | 3.2 | 98 | | | 1814 | 3.9 | 119 | | | 1821 | 2.3 | 70 | | | 1717 | 3.5 | 107 | | | 1718 | 1.9 | 58 | |
| | 2318 | 13.1 | 399 | | | 2309 | 14.3 | 436 | | | | | | | | | | | | | 2308 | 14.6 | 445 | | | 2317 | 16.4 | 500 | |
| 7 F | 0537 | 3.5 | 107 | | 22 Sa | 0530 | 2.1 | 64 | | 7 M | 0000 | 13.8 | 421 | | 22 Tu | 0015 | 15.4 | 469 | | 7 M | 0526 | 3.7 | 113 | | 22 Tu | 0544 | 2.7 | 82 | |
| | 1147 | 15.4 | 469 | | | 1139 | 16.5 | 503 | | | 0615 | 4.0 | 122 | | | 0639 | 2.9 | 88 | | | 1118 | 14.8 | 451 | | | 1128 | 15.3 | 466 | |
| | 1818 | 4.5 | 137 | | | 1808 | 3.0 | 91 | | | 1213 | 14.5 | 442 | | | 1228 | 15.0 | 457 | | | 1740 | 3.5 | 107 | | | 1754 | 2.1 | 64 | |
| | 2351 | 13.0 | 396 | | | 2349 | 14.4 | 439 | | | 1837 | 4.1 | 125 | | | 1857 | 2.7 | 82 | | | 2334 | 14.7 | 448 | | | 2357 | 16.2 | 494 | |
| 8 Sa | 0608 | 3.9 | 119 | | 23 Su | 0611 | 2.3 | 70 | | 8 Tu | 0027 | 13.6 | 415 | | 23 W | 0056 | 14.9 | 454 | | 8 Tu | 0553 | 4.0 | 122 | | 23 W | 0625 | 3.4 | 104 | |
| | 1216 | 15.0 | 457 | | | 1215 | 16.1 | 491 | | | 0642 | 4.5 | 137 | | | 0721 | 4.0 | 122 | | | 1142 | 14.4 | 439 | | | 1203 | 14.5 | 442 | |
| | 1847 | 4.7 | 143 | | | 1846 | 3.0 | 91 | | | 1237 | 14.0 | 427 | | | 1303 | 13.9 | 424 | | | 1803 | 3.7 | 113 | | | 1831 | 2.6 | 79 | |
| | | | | | | | | | | | 1901 | 4.3 | 131 | | | 1935 | 3.4 | 104 | | | | | | | | | | | |
| 9 Su | 0023 | 12.9 | 393 | | 24 M | 0030 | 14.3 | 436 | | 9 W | 0057 | 13.4 | 408 | | 24 Th | 0141 | 14.1 | 430 | | 9 W | 0001 | 14.6 | 445 | | 24 Th | 0038 | 15.6 | 475 | |
| | 0638 | 4.4 | 134 | | | 0653 | 3.0 | 91 | | | 0711 | 5.1 | 155 | | | 0806 | 5.4 | 165 | | | 0620 | 4.4 | 134 | | | 0707 | 4.5 | 137 | |
| | 1244 | 14.5 | 442 | | | 1252 | 15.3 | 466 | | | 1302 | 13.3 | 405 | | | 1341 | 12.7 | 387 | | | 1206 | 13.9 | 424 | | | 1239 | 13.5 | 411 | |
| | 1914 | 4.9 | 149 | | | 1924 | 3.3 | 101 | | | 1927 | 4.7 | 143 | | | 2017 | 4.3 | 131 | | | 1826 | 3.9 | 119 | | | 1909 | 3.5 | 107 | |
| 10 M | 0055 | 12.6 | 384 | | 25 Tu | 0114 | 13.9 | 424 | | 10 Th | 0130 | 12.9 | 393 | | 25 F | 0236 | 13.1 | 399 | | 10 Th | 0028 | 14.3 | 436 | | 25 F | 0121 | 14.6 | 445 | |
| | 0707 | 5.0 | 152 | | | 0736 | 4.0 | 122 | | | 0744 | 5.8 | 177 | | | 0903 | 6.7 | 204 | | | 0649 | 5.0 | 152 | | | 0752 | 5.7 | 174 | |
| | 1313 | 13.8 | 421 | | | 1330 | 14.2 | 433 | | | 1331 | 12.5 | 381 | | | 1428 | 11.4 | 347 | | | 1230 | 13.3 | 405 | | | 1317 | 12.4 | 378 | |
| | 1942 | 5.2 | 158 | | | 2005 | 3.8 | 116 | | | 1959 | 5.2 | 158 | | | ● 2110 | 5.4 | 165 | | | 1852 | 4.3 | 131 | | | 1949 | 4.6 | 140 | |
| 11 Tu | 0131 | 12.3 | 375 | | 26 W | 0204 | 13.3 | 405 | | 11 F | 0211 | 12.4 | 378 | | 26 Sa | 0355 | 12.2 | 372 | | 11 F | 0059 | 13.9 | 424 | | 26 Sa | 0212 | 13.5 | 411 | |
| | 0740 | 5.7 | 174 | | | 0825 | 5.3 | 162 | | | 0827 | 6.7 | 204 | | | 1029 | 7.7 | 235 | | | 0721 | 5.7 | 174 | | | 0847 | 6.9 | 210 | |
| | 1343 | 13.1 | 399 | | | 1413 | 13.0 | 396 | | | 1407 | 11.6 | 354 | | | 1544 | 10.3 | 314 | | | 1258 | 12.6 | 384 | | | 1404 | 11.2 | 341 | |
| | 2013 | 5.5 | 168 | | | ● 2052 | 4.5 | 137 | | | ● 2042 | 5.7 | 174 | | | 2233 | 6.2 | 189 | | | 1923 | 4.9 | 149 | | | ● 2040 | 5.8 | 177 | |
| 12 W | 0213 | 11.9 | 363 | | 27 Th | 0307 | 12.6 | 384 | | 12 Sa | 0314 | 11.8 | 360 | | 27 Su | 0547 | 11.9 | 363 | | 12 Sa | 0137 | 13.3 | 405 | | 27 Su | 0323 | 12.5 | 381 | |
| | 0819 | 6.4 | 195 | | | 0926 | 6.5 | 198 | | | 0931 | 7.6 | 232 | | | 1238 | 7.8 | 238 | | | 0803 | 6.6 | 201 | | | 1007 | 7.8 | 238 | |
| | 1419 | 12.3 | 375 | | | 1506 | 11.8 | 360 | | | 1506 | 10.7 | 326 | | | 1754 | 10.0 | 305 | | | 1333 | 11.8 | 360 | | | 1522 | 10.3 | 314 | |
| | ● 2052 | 5.9 | 180 | | | 2151 | 5.2 | 158 | | | 2147 | 6.3 | 192 | | | | | | | | 2004 | 5.6 | 171 | | | 2157 | 6.8 | 207 | |
| 13 Th | 0309 | 11.6 | 354 | | 28 F | 0432 | 12.1 | 369 | | 13 Su | 0456 | 11.6 | 354 | | 28 M | 0026 | 6.4 | 195 | | 13 Su | 0232 | 12.6 | 384 | | 28 M | 0508 | 12.1 | 369 | |
| | 0912 | 7.2 | 219 | | | 1056 | 7.4 | 226 | | | 1121 | 8.0 | 244 | | | 0719 | 12.5 | 381 | | | 0903 | 7.5 | 229 | | | 1205 | 7.8 | 238 | |
| | 1509 | 11.5 | 351 | | | 1625 | 10.8 | 329 | | | 1658 | 10.2 | 311 | | | 1402 | 6.9 | 210 | | | 1426 | 10.9 | 332 | | | 1737 | 10.2</ | | |

Ch'ang Chiang Approach (Side Saddle), China, 2011

Times and Heights of High and Low Waters

| April | | | | May | | | | June | | | | | | | | | | | | | | | | | | | | | |
|-----------------|------|------|--------|-----|-----------------|------|------|--------|----|-----------------|------|------|--------|----|-----------------|------|------|-----|--|-----------------|------|------|-----|--|-----------------|------|------|-----|--|
| | Time | | Height | | | Time | | Height | | | Time | | Height | | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | | | | | | |
| 1 F | 0257 | 5.2 | 158 | | 16 Sa | 0226 | 4.6 | 140 | | 1 Su | 0302 | 5.7 | 174 | | 16 M | 0300 | 4.9 | 149 | | 1 W | 0351 | 5.8 | 177 | | 16 Th | 0429 | 5.2 | 158 | |
| | 0854 | 14.1 | 430 | | | 0825 | 14.7 | 448 | | | 0844 | 13.6 | 415 | | | 0839 | 14.1 | 430 | | | 0921 | 13.3 | 405 | | | 0953 | 13.4 | 408 | |
| | 1522 | 4.7 | 143 | | | 1452 | 3.7 | 113 | | | 1509 | 4.6 | 140 | | | 1506 | 3.2 | 98 | | | 1540 | 4.3 | 131 | | | 1618 | 3.4 | 104 | |
| | 2114 | 13.8 | 421 | | | 2054 | 15.1 | 460 | | | 2114 | 14.7 | 448 | | | 2120 | 16.1 | 491 | | | 2158 | 15.8 | 482 | | | 2237 | 16.6 | 506 | |
| 2 Sa | 0332 | 4.7 | 143 | | 17 Su | 0317 | 3.8 | 116 | | 2 M | 0338 | 5.2 | 158 | | 17 Tu | 0350 | 4.5 | 137 | | 2 Th | 0428 | 5.5 | 168 | | 17 F | 0512 | 5.0 | 152 | |
| | 0925 | 14.4 | 439 | | | 0908 | 15.1 | 460 | | | 0917 | 13.8 | 421 | | | 0923 | 14.1 | 430 | | | 0958 | 13.4 | 408 | | | 1037 | 13.5 | 411 | |
| | 1550 | 4.1 | 125 | | | 1534 | 2.8 | 85 | | | 1539 | 4.2 | 128 | | | 1550 | 2.8 | 85 | | | 1616 | 4.1 | 125 | | | 1701 | 3.6 | 110 | |
| | 2145 | 14.5 | 442 | | | 2138 | 16.0 | 488 | | | 2146 | 15.3 | 466 | | | 2204 | 16.6 | 506 | | | 2233 | 16.1 | 491 | | | 2317 | 16.6 | 506 | |
| 3 Su | 0405 | 4.3 | 131 | | 18 M | 0403 | 3.3 | 101 | | 3 Tu | 0412 | 5.0 | 152 | | 18 W | 0436 | 4.3 | 131 | | 3 F | 0506 | 5.3 | 162 | | 18 Sa | 0553 | 5.1 | 155 | |
| | 0954 | 14.5 | 442 | | | 0949 | 15.1 | 460 | | | 0949 | 13.8 | 421 | | | 1006 | 14.0 | 427 | | | 1034 | 13.5 | 411 | | | 1118 | 13.4 | 408 | |
| | 1616 | 3.8 | 116 | | | 1614 | 2.3 | 70 | | | 1608 | 3.9 | 119 | | | 1632 | 2.7 | 82 | | | 1653 | 4.0 | 122 | | | 1741 | 3.9 | 119 | |
| | 2214 | 15.0 | 457 | | | 2219 | 16.6 | 506 | | | 2218 | 15.6 | 475 | | | 2247 | 16.8 | 512 | | | 2309 | 16.2 | 494 | | | 2355 | 16.3 | 497 | |
| 4 M | 0435 | 4.2 | 128 | | 19 Tu | 0448 | 3.2 | 98 | | 4 W | 0445 | 4.9 | 149 | | 19 Th | 0521 | 4.4 | 134 | | 4 Sa | 0543 | 5.2 | 158 | | 19 Su | 0632 | 5.3 | 162 | |
| | 1021 | 14.5 | 442 | | | 1027 | 14.9 | 454 | | | 1020 | 13.8 | 421 | | | 1048 | 13.8 | 421 | | | 1110 | 13.4 | 408 | | | 1158 | 13.3 | 405 | |
| | 1642 | 3.6 | 110 | | | 1653 | 2.2 | 67 | | | 1638 | 3.8 | 116 | | | 1713 | 3.0 | 91 | | | 1730 | 4.0 | 122 | | | 1818 | 4.5 | 137 | |
| | 2242 | 15.3 | 466 | | | 2300 | 16.8 | 512 | | | 2249 | 15.8 | 482 | | | 2329 | 16.6 | 506 | | | 2346 | 16.2 | 494 | | | | | | |
| 5 Tu | 0504 | 4.2 | 128 | | 20 W | 0531 | 3.5 | 107 | | 5 Th | 0518 | 4.9 | 149 | | 20 F | 0604 | 4.8 | 146 | | 5 Su | 0622 | 5.3 | 162 | | 20 M | 0708 | 5.6 | 171 | |
| | 1048 | 14.3 | 436 | | | 1105 | 14.5 | 442 | | | 1050 | 13.6 | 415 | | | 1128 | 13.4 | 408 | | | 1148 | 13.3 | 405 | | | 1238 | 13.0 | 396 | |
| | 1707 | 3.6 | 110 | | | 1731 | 2.4 | 73 | | | 1709 | 3.9 | 119 | | | 1754 | 3.5 | 107 | | | 1809 | 4.3 | 131 | | | 1855 | 5.2 | 158 | |
| | 2310 | 15.4 | 469 | | | 2341 | 16.5 | 503 | | | 2321 | 15.8 | 482 | | | | | | | | | | | | | | | | |
| 6 W | 0533 | 4.4 | 134 | | 21 Th | 0613 | 4.2 | 128 | | 6 F | 0552 | 5.1 | 155 | | 21 Sa | 0610 | 16.1 | 491 | | 6 M | 0702 | 5.5 | 168 | | 21 Tu | 0744 | 6.0 | 183 | |
| | 1114 | 14.0 | 427 | | | 1143 | 13.9 | 424 | | | 1121 | 13.4 | 408 | | | 0647 | 5.3 | 162 | | | 0729 | 5.5 | 168 | | | 0744 | 6.0 | 183 | |
| | 1732 | 3.7 | 113 | | | 1810 | 3.0 | 91 | | | 1741 | 4.1 | 125 | | | 1209 | 12.9 | 393 | | | 1229 | 13.1 | 399 | | | 1319 | 12.7 | 387 | |
| | 2338 | 15.3 | 466 | | | 2354 | 15.6 | 475 | | | 2354 | 15.6 | 475 | | | 1833 | 4.3 | 131 | | | 1851 | 4.7 | 143 | | | 1931 | 6.0 | 183 | |
| 7 Th | 0603 | 4.7 | 143 | | 22 F | 0622 | 15.9 | 485 | | 7 Sa | 0628 | 5.4 | 165 | | 22 Su | 0730 | 5.9 | 180 | | 7 Tu | 0746 | 5.7 | 174 | | 22 W | 0820 | 6.3 | 192 | |
| | 1139 | 13.6 | 415 | | | 0657 | 5.0 | 152 | | | 1154 | 13.1 | 399 | | | 1252 | 12.4 | 378 | | | 1316 | 12.9 | 393 | | | 1405 | 12.3 | 375 | |
| | 1759 | 3.9 | 119 | | | 1849 | 3.9 | 119 | | | 1815 | 4.4 | 134 | | | 1914 | 5.2 | 158 | | | 1938 | 5.3 | 162 | | | 2010 | 6.8 | 207 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 F | 0007 | 15.1 | 460 | | 23 Sa | 0105 | 15.0 | 457 | | 8 Su | 0030 | 15.3 | 466 | | 23 M | 0133 | 14.6 | 445 | | 8 W | 0152 | 14.9 | 454 | | 23 Th | 0222 | 13.7 | 418 | |
| | 0634 | 5.2 | 158 | | | 0742 | 5.9 | 180 | | | 0708 | 5.9 | 180 | | | 0814 | 6.5 | 198 | | | 0835 | 5.9 | 180 | | | 0859 | 6.6 | 201 | |
| | 1207 | 13.2 | 402 | | | 1302 | 12.2 | 372 | | | 1231 | 12.7 | 387 | | | 1341 | 11.8 | 360 | | | 1414 | 12.6 | 384 | | | 1500 | 12.1 | 369 | |
| | 1828 | 4.4 | 134 | | | 1930 | 5.0 | 152 | | | 1854 | 4.9 | 149 | | | 1957 | 6.2 | 189 | | | 2033 | 6.0 | 183 | | | 2056 | 7.6 | 232 | |
| 9 Sa | 0040 | 14.6 | 445 | | 24 Su | 0153 | 14.0 | 427 | | 9 M | 0112 | 14.8 | 451 | | 24 Tu | 0221 | 13.8 | 421 | | 9 Th | 0246 | 14.2 | 433 | | 24 F | 0308 | 12.9 | 393 | |
| | 0710 | 5.9 | 180 | | | 0834 | 6.8 | 207 | | | 0754 | 6.3 | 192 | | | 0903 | 6.9 | 210 | | | 0931 | 6.0 | 183 | | | 0944 | 6.9 | 210 | |
| | 1238 | 12.6 | 384 | | | 1352 | 11.4 | 347 | | | 1316 | 12.1 | 369 | | | 1442 | 11.4 | 347 | | | 1529 | 12.4 | 378 | | | 1609 | 12.0 | 366 | |
| | 1902 | 4.9 | 149 | | | 2018 | 6.1 | 186 | | | 1942 | 5.6 | 171 | | | 2048 | 7.0 | 213 | | | 2140 | 6.7 | 204 | | | 2157 | 8.2 | 250 | |
| 10 Su | 0120 | 14.1 | 430 | | 25 M | 0254 | 13.1 | 399 | | 10 Tu | 0204 | 14.2 | 433 | | 25 W | 0317 | 13.1 | 399 | | 10 F | 0352 | 13.5 | 411 | | 25 Sa | 0407 | 12.3 | 375 | |
| | 0755 | 6.6 | 201 | | | 0940 | 7.5 | 229 | | | 0851 | 6.7 | 204 | | | 1001 | 7.2 | 219 | | | 1036 | 6.0 | 183 | | | 1039 | 6.9 | 210 | |
| | 1318 | 11.9 | 363 | | | 1508 | 10.7 | 326 | | | 1419 | 11.6 | 354 | | | 1601 | 11.3 | 344 | | | 1655 | 12.7 | 387 | | | 1723 | 12.3 | 375 | |
| | 1946 | 5.6 | 171 | | | 2124 | 7.1 | 216 | | | 2042 | 6.3 | 192 | | | 2153 | 7.7 | 235 | | | 2303 | 7.1 | 216 | | | 2319 | 8.5 | 259 | |
| 11 M | 0213 | 13.3 | 405 | | 26 Tu | 0414 | 12.5 | 381 | | 11 W | 0312 | 13.6 | 415 | | 26 Th | 0423 | 12.6 | 384 | | 11 Sa | 0506 | 13.1 | 399 | | 26 Su | 0516 | 12.0 | 366 | |
| | 0856 | 7.3 | 223 | | | 1107 | 7.6 | 232 | | | 1001 | 6.8 | 207 | | | 1105 | 7.2 | 219 | | | 1145 | 5.6 | 171 | | | 1143 | 6.8 | 207 | |
| | 1416 | 11.1 | 338 | | | 1658 | 10.6 | 323 | | | 1550 | 11.4 | 347 | | | 1724 | 11.6 | 354 | | | 1815 | 13.4 | 408 | | | 1831 | 12.8 | 390 | |
| | 2049 | 6.4 | 195 | | | 2258 | 7.6 | 232 | | | 2203 | 6.8 | 207 | | | 2317 | 8.0 | 244 | | | | | | | | | | | |
| 12 Tu | 0335 | 12.8 | 390 | | 27 W | 0538 | 12.4 | 378 | | 12 Th | 0435 | 13.2 | 402 | | 27 F | 0530 | 12.4 | 378 | | 12 Su | 0617 | 12.9 | 393 | | 27 M | 0624 | 11.9 | 363 | |
| | 1024 | 7.6 | 232 | | | 1229 | 7.2 | 219 | | | 1119 | 6.5 | 198 | | | 1208 | 6.8 | 207 | | | 1252 | 5.1 | 155 | | | 1247 | 6.4 | 195 | |
| | 1602 | 10.7 | 326 | | | 1827 | 11.3 | 344 | | | 1729 | 12.0 | 366 | | | 1829 | 12.2 | 372 | | | 1921 | 14.3 | 436 | | | 1927 | 13.6 | 415 | |
| | 2223 | 6.8 | 207 | | | | | | | | 2335 | 6.8 | 207 | | | | | | | | | | | | | | | | |
| 13 W | 0519 | 12.8 | 390 | | 28 Th | 0032 | 7.4 | 226 | | 13 F | 0554 | 13.3 | 405 | | 28 Sa | 0628 | 12.4 | 378 | | 13 M | 0720 | 13.0 | 396 | | 28 Tu | 0722 | 12.2 | 372 | |
| | 1203 | 7.1 | 216 | | | 0642 | 12.7 | 387 | | | 1230 | 5.8 | 177 | | | 1301 | 6.3 | 192 | | | 1352 | 4.5 | 137 | | | 1344 | 5.9 | 180 | |
| | 1759 | 11.2 | 341 | | | 1324 | 6.5 | 198 | | | 1844 | 13.0 | 396 | | | 1921 | 13.1 | 399 | | | 2018 | 15.2 | 463 | | | 2016 | 14.4 | 439 | |
| | | | | | | 1923 | 12.2 | 372 | | | | | | | | | | | | | | | | | | | | | |
| 14 Th | 0008 | 6.5 | 198 | | 29 F | 0136 | 6.9 | 210 | | 14 Sa | 0058 | 6.3 | 192 | | 29 Su | 0140 | 7.3 | 223 | | 14 Tu | 0249 | 6.0 | 183 | | 29 W | 0248 | 7.0 | 213 | |
| | 0640 | 13.4 | 408 | | | 0730 | 13.0 | 396 | | | 0657 | 13.6 | 415 | | | 0718 | 12.6 | 384 | | | 0816 | 13.1 | 399 | | | 0813 | 12.5 | 381 | |
| | 1316 | 6.0 | 183 | | | 1404 | 5.8 | 177 | | | 1329 | 4.8 | 146 | | | 1346 | 5.7 | 174 | | | 1445 | 3.9 | 119 | | | 1433 | 5.3 | 162 | |
| | 1913 | 12.5 | 381 | | | 2005 | 13.1 | 399 | | | 1943 | 14.2 | 433 | | | 2004 | 13.9 | 424 | | | 2108 | 15.9 | 485 | | | 2100 | 15.2 | 463 | |
| 15 F | 0126 | 5.6 | 171 | | | | | | | | | | | | | | | | | | | | | | | | | | |

Ch'ang Chiang Approach (Side Saddle), China, 2011

Times and Heights of High and Low Waters

| July | | | | August | | | | September | | | | | | | | | | | | | | | | | | | | |
|-----------------|--------|------|------|--------|-----------------|------|--------|-----------|------|-----------------|------|------|--------|----|-----------------|------|------|-----|--|-----------------|------|------|-----|--|-----------------|------|------|-----|
| Time | Height | | Time | Height | | Time | Height | | Time | Height | | Time | Height | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | | | | | |
| 1 F | 0413 | 5.8 | 177 | | 16 Sa | 0459 | 5.2 | 158 | | 1 M | 0510 | 4.4 | 134 | | 16 Th | 0536 | 4.7 | 143 | | 1 Th | 0555 | 3.3 | 101 | | 16 F | 0547 | 4.7 | 143 |
| | 0941 | 13.4 | 408 | | | 1028 | 13.8 | 421 | | | 1049 | 15.1 | 460 | | | 1119 | 14.9 | 454 | | | 1150 | 16.6 | 506 | | | 1147 | 15.5 | 472 |
| | 1600 | 4.2 | 128 | | | 1648 | 4.0 | 122 | | | 1708 | 3.4 | 104 | | | 1736 | 4.7 | 143 | | | 1814 | 4.0 | 122 | | | 1806 | 5.7 | 174 |
| | 2220 | 16.4 | 500 | | | 2302 | 16.6 | 506 | | | 2316 | 17.3 | 527 | | | 2333 | 16.1 | 491 | | | 2349 | 14.7 | 448 | | | 2349 | 14.7 | 448 |
| 2 Sa | 0452 | 5.3 | 162 | | 17 Su | 0535 | 5.0 | 152 | | 2 Tu | 0546 | 4.1 | 125 | | 17 W | 0602 | 4.8 | 146 | | 2 F | 0002 | 16.2 | 494 | | 17 Sa | 0611 | 5.0 | 152 |
| | 1022 | 13.8 | 421 | | | 1106 | 14.0 | 427 | | | 1128 | 15.4 | 469 | | | 1148 | 14.9 | 454 | | | 0632 | 3.5 | 107 | | | 1214 | 15.2 | 463 |
| | 1641 | 3.9 | 119 | | | 1725 | 4.2 | 128 | | | 1749 | 3.5 | 107 | | | 1804 | 5.2 | 158 | | | 1231 | 16.2 | 494 | | | 1834 | 6.3 | 192 |
| | 2258 | 16.8 | 512 | | | 2335 | 16.4 | 500 | | | 2352 | 17.1 | 521 | | | 2359 | 15.6 | 475 | | | 1857 | 5.0 | 152 | | | | | |
| 3 Su | 0531 | 5.0 | 152 | | 18 M | 0608 | 5.0 | 152 | | 3 W | 0623 | 4.0 | 122 | | 18 Th | 0626 | 5.0 | 152 | | 3 Sa | 0037 | 15.2 | 463 | | 18 Su | 0013 | 14.1 | 430 |
| | 1101 | 14.0 | 427 | | | 1142 | 14.0 | 427 | | | 1208 | 15.5 | 472 | | | 1217 | 14.7 | 448 | | | 0710 | 4.2 | 128 | | | 0635 | 5.4 | 165 |
| | 1721 | 3.8 | 116 | | | 1759 | 4.6 | 140 | | | 1830 | 4.0 | 122 | | | 1832 | 5.7 | 174 | | | 1316 | 15.5 | 472 | | | 1244 | 14.8 | 451 |
| | 2335 | 16.9 | 515 | | | | | | | | | | | | | | | | | | 1943 | 6.2 | 189 | | | 1906 | 7.0 | 213 |
| 4 M | 0609 | 4.8 | 146 | | 19 Tu | 0005 | 16.1 | 491 | | 4 Th | 0028 | 16.4 | 500 | | 19 F | 0023 | 15.0 | 457 | | 4 Su | 0116 | 14.0 | 427 | | 19 M | 0039 | 13.4 | 408 |
| | 1141 | 14.2 | 433 | | | 0638 | 5.2 | 158 | | | 0700 | 4.1 | 125 | | | 0649 | 5.4 | 165 | | | 0752 | 5.0 | 152 | | | 0705 | 6.0 | 183 |
| | 1802 | 3.9 | 119 | | | 1216 | 13.9 | 424 | | | 1251 | 15.2 | 463 | | | 1246 | 14.5 | 442 | | | 1410 | 14.6 | 445 | | | 1321 | 14.2 | 433 |
| | | | | | | 1831 | 5.2 | 158 | | | 1913 | 4.9 | 149 | | | 1900 | 6.4 | 195 | | | 2039 | 7.5 | 229 | | | 1945 | 7.8 | 238 |
| 5 Tu | 0012 | 16.7 | 509 | | 20 W | 0034 | 15.5 | 472 | | 5 F | 0104 | 15.5 | 472 | | 20 Sa | 0048 | 14.3 | 436 | | 5 M | 0201 | 12.7 | 387 | | 20 Tu | 0111 | 12.6 | 384 |
| | 0647 | 4.7 | 143 | | | 0706 | 5.5 | 168 | | | 0740 | 4.5 | 137 | | | 0714 | 5.7 | 174 | | | 0844 | 6.0 | 183 | | | 0743 | 6.6 | 201 |
| | 1223 | 14.2 | 433 | | | 1249 | 13.7 | 418 | | | 1338 | 14.8 | 451 | | | 1319 | 14.0 | 427 | | | 1523 | 13.7 | 418 | | | 1411 | 13.5 | 411 |
| | 1843 | 4.3 | 131 | | | 1901 | 5.8 | 177 | | | 2000 | 6.0 | 183 | | | 1932 | 7.1 | 216 | | | 2158 | 8.6 | 262 | | | 2043 | 8.6 | 262 |
| 6 W | 0050 | 16.2 | 494 | | 21 Th | 0102 | 14.9 | 454 | | 6 Sa | 0145 | 14.4 | 439 | | 21 Su | 0115 | 13.5 | 411 | | 6 Tu | 0311 | 11.6 | 354 | | 21 W | 0159 | 11.8 | 360 |
| | 0727 | 4.8 | 146 | | | 0734 | 5.8 | 177 | | | 0823 | 5.1 | 155 | | | 0744 | 6.2 | 189 | | | 0959 | 6.9 | 210 | | | 0841 | 7.3 | 223 |
| | 1308 | 14.0 | 427 | | | 1324 | 13.4 | 408 | | | 1435 | 14.1 | 430 | | | 1358 | 13.5 | 411 | | | 1711 | 13.3 | 405 | | | 1538 | 12.9 | 393 |
| | 1927 | 5.0 | 152 | | | 1933 | 6.6 | 201 | | | 2056 | 7.2 | 219 | | | 2012 | 8.0 | 244 | | | 2356 | 8.8 | 268 | | | 2219 | 9.1 | 277 |
| 7 Th | 0131 | 15.4 | 469 | | 22 F | 0132 | 14.1 | 430 | | 7 Su | 0233 | 13.2 | 402 | | 22 M | 0148 | 12.7 | 387 | | 7 W | 0515 | 11.1 | 338 | | 22 Th | 0342 | 11.1 | 338 |
| | 0809 | 5.1 | 155 | | | 0803 | 6.1 | 186 | | | 0917 | 5.8 | 177 | | | 0824 | 6.8 | 207 | | | 1145 | 7.2 | 219 | | | 1016 | 7.8 | 238 |
| | 1359 | 13.7 | 418 | | | 1404 | 13.1 | 399 | | | 1550 | 13.5 | 411 | | | 1456 | 12.9 | 393 | | | 1848 | 13.7 | 418 | | | 1736 | 13.1 | 399 |
| | 2017 | 5.9 | 180 | | | 2009 | 7.3 | 223 | | | 2213 | 8.2 | 250 | | | 2112 | 8.8 | 268 | | | | | | | | | | |
| 8 F | 0216 | 14.5 | 442 | | 23 Sa | 0205 | 13.3 | 405 | | 8 M | 0341 | 12.1 | 369 | | 23 Tu | 0240 | 11.8 | 360 | | 8 Th | 0130 | 8.0 | 244 | | 23 F | 0018 | 8.6 | 262 |
| | 0858 | 5.4 | 165 | | | 0837 | 6.5 | 198 | | | 1028 | 6.4 | 195 | | | 0923 | 7.4 | 226 | | | 0700 | 11.7 | 357 | | | 0600 | 11.4 | 347 |
| | 1502 | 13.3 | 405 | | | 1455 | 12.7 | 387 | | | 1729 | 13.4 | 408 | | | 1633 | 12.7 | 387 | | | 1314 | 6.8 | 207 | | | 1206 | 7.4 | 226 |
| | 2117 | 6.9 | 210 | | | 2056 | 8.1 | 247 | | | | | | | 2253 | 9.2 | 280 | | | 1949 | 14.5 | 442 | | | 1855 | 14.0 | 427 | |
| 9 Sa | 0311 | 13.5 | 411 | | 24 Su | 0248 | 12.5 | 381 | | 9 Tu | 0002 | 8.6 | 262 | | 24 W | 0426 | 11.2 | 341 | | 9 F | 0224 | 7.0 | 213 | | 24 Sa | 0130 | 7.4 | 226 |
| | 0955 | 5.7 | 174 | | | 0922 | 6.9 | 210 | | | 0520 | 11.5 | 351 | | | 1056 | 7.6 | 232 | | | 0802 | 12.6 | 384 | | | 0715 | 12.6 | 384 |
| | 1622 | 13.2 | 402 | | | 1607 | 12.5 | 381 | | | 1200 | 6.5 | 198 | | | 1817 | 13.2 | 402 | | | 1414 | 6.0 | 183 | | | 1324 | 6.4 | 195 |
| | 2235 | 7.7 | 235 | | | 2204 | 8.7 | 265 | | | 1859 | 13.9 | 424 | | | | | | | | 2033 | 15.2 | 463 | | | 1948 | 15.0 | 457 |
| 10 Su | 0421 | 12.6 | 384 | | 25 M | 0353 | 11.8 | 360 | | 10 W | 0139 | 8.0 | 244 | | 25 Th | 0055 | 8.8 | 268 | | 10 Sa | 0303 | 6.1 | 186 | | 25 Su | 0218 | 6.1 | 186 |
| | 1104 | 5.9 | 180 | | | 1025 | 7.2 | 219 | | | 0656 | 11.7 | 357 | | | 0624 | 11.5 | 351 | | | 0845 | 13.6 | 415 | | | 0806 | 13.9 | 424 |
| | 1749 | 13.5 | 411 | | | 1735 | 12.7 | 387 | | | 1324 | 6.1 | 186 | | | 1237 | 7.2 | 219 | | | 1459 | 5.4 | 165 | | | 1420 | 5.3 | 162 |
| | | | | | | 2346 | 8.9 | 271 | | | 2004 | 14.7 | 448 | | | 1927 | 14.2 | 433 | | | 2108 | 15.7 | 479 | | | 2031 | 15.9 | 485 |
| 11 M | 0012 | 7.9 | 241 | | 26 Tu | 0526 | 11.5 | 351 | | 11 Th | 0240 | 7.1 | 216 | | 26 F | 0204 | 7.7 | 235 | | 11 Su | 0337 | 5.4 | 165 | | 26 M | 0258 | 4.9 | 149 |
| | 0543 | 12.1 | 369 | | | 1148 | 7.1 | 216 | | | 0805 | 12.4 | 378 | | | 0735 | 12.4 | 378 | | | 0921 | 14.4 | 439 | | | 0850 | 15.1 | 460 |
| | 1222 | 5.7 | 174 | | | 1852 | 13.3 | 405 | | | 1425 | 5.4 | 165 | | | 1349 | 6.2 | 189 | | | 1537 | 4.9 | 149 | | | 1508 | 4.3 | 131 |
| | 1907 | 14.1 | 430 | | | | | | | | 2053 | 15.5 | 472 | | | 2018 | 15.3 | 466 | | | 2139 | 16.0 | 488 | | | 2111 | 16.5 | 503 |
| 12 Tu | 0139 | 7.5 | 229 | | 27 W | 0125 | 8.4 | 256 | | 12 F | 0325 | 6.2 | 189 | | 27 Sa | 0249 | 6.5 | 198 | | 12 M | 0407 | 4.8 | 146 | | 27 Tu | 0336 | 3.9 | 119 |
| | 0700 | 12.2 | 372 | | | 0649 | 11.7 | 357 | | | 0856 | 13.2 | 402 | | | 0827 | 13.5 | 411 | | | 0953 | 15.0 | 457 | | | 0931 | 16.2 | 494 |
| | 1333 | 5.3 | 162 | | | 1308 | 6.6 | 201 | | | 1514 | 4.9 | 149 | | | 1442 | 5.1 | 155 | | | 1611 | 4.7 | 143 | | | 1552 | 3.6 | 110 |
| | 2010 | 14.9 | 454 | | | 1952 | 14.2 | 433 | | | 2132 | 16.1 | 491 | | | 2100 | 16.2 | 494 | | | 2207 | 16.1 | 491 | | | 2148 | 16.8 | 512 |
| 13 W | 0245 | 6.8 | 207 | | 28 Th | 0227 | 7.6 | 232 | | 13 Sa | 0403 | 5.5 | 168 | | 28 Su | 0329 | 5.4 | 165 | | | | | | | | | | |

Ch'ang Chiang Approach (Side Saddle), China, 2011

Times and Heights of High and Low Waters

| October | | | November | | | December | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|--------|------|----------|--------|--|-----------------|--------|------|------|--------|-----------------|------|------|------|----------------|-----------------|------|------|----------------|------|-----------------|------|----------------|------|------|-----------------|------|------|-----|--|------|------|-----|
| Time | Height | | Time | Height | | Time | Height | | Time | Height | | | | | | | | | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | | | | | | | | | | |
| 1 Sa | 0606 | 3.2 | 98 | | | 16 Su | 0541 | 4.7 | 143 | | 1 Tu | 0040 | 12.9 | 393 | 16 W | 0009 | 12.9 | 393 | 1 Th | 0118 | 12.1 | 369 | 16 F | 0048 | 12.8 | 390 | | | | | | | |
| | 1213 | 16.7 | 509 | | | | 1151 | 15.6 | 475 | | | | 0711 | 4.8 | | 146 | | | | 0633 | 5.0 | 152 | | | | 0740 | 5.4 | 165 | | | 0710 | 4.5 | 137 |
| | 1844 | 5.2 | 158 | | | | 1817 | 6.1 | 186 | | | | 1333 | 14.8 | | 451 | | | | 1250 | 14.9 | 454 | | | | 1400 | 14.0 | 427 | | | 1321 | 14.7 | 448 |
| | | | | | | 2348 | 13.7 | 418 | | | 2014 | 7.0 | 213 | | | 1928 | 6.5 | 198 | | | 2042 | 6.5 | 198 | | | 2001 | 5.4 | 165 | | | | | |
| 2 Su | 0014 | 14.5 | 442 | | | 17 M | 0609 | 5.1 | 155 | | 2 W | 0129 | 12.0 | 366 | | 17 Th | 0049 | 12.4 | 378 | | 2 F | 0215 | 11.5 | 351 | | 17 Sa | 0136 | 12.4 | 378 | | | | |
| | 0645 | 4.0 | 122 | | | | 1223 | 15.1 | 460 | | | | 0800 | 6.0 | 183 | | | | 0715 | 5.5 | | 168 | | | 0829 | | 6.4 | 195 | | | 0758 | 5.2 | 158 |
| | 1258 | 15.8 | 482 | | | | 1852 | 6.7 | 204 | | | | 1432 | 13.8 | 421 | | | | 1336 | 14.3 | | 436 | | | 1453 | | 13.1 | 399 | | | 1408 | 13.9 | 424 |
| | 1931 | 6.3 | 192 | | | | 1934 | 7.4 | 226 | | | 2118 | 7.6 | 232 | | | 2019 | 6.8 | 207 | | | 2137 | 6.8 | 207 | | | 2051 | 5.6 | 171 | | | | |
| 3 M | 0053 | 13.4 | 408 | | | 18 Tu | 0017 | 13.1 | 399 | | 3 Th | 0240 | 11.2 | 341 | | 18 F | 0143 | 11.9 | 363 | | 3 Sa | 0329 | 11.1 | 338 | | 18 Su | 0239 | 12.1 | 369 | | | | |
| | 0728 | 5.0 | 152 | | | | 0642 | 5.6 | 171 | | | | 0904 | 7.0 | 213 | | | | 0809 | 6.2 | | 189 | | | 0930 | | 7.3 | 223 | | | 0857 | 6.0 | 183 |
| | 1349 | 14.8 | 451 | | | | 1300 | 14.6 | 445 | | | | 1551 | 13.1 | 399 | | | | 1435 | 13.7 | | 418 | | | 1556 | | 12.4 | 378 | | | 1506 | 13.1 | 399 |
| | 2026 | 7.5 | 229 | | | 1934 | 7.4 | 226 | | | 2241 | 7.8 | 238 | | | 2123 | 7.0 | 213 | | | 2242 | 6.9 | 210 | | | 2150 | 5.7 | 174 | | | | | |
| 4 Tu | 0140 | 12.3 | 375 | | | 19 W | 0053 | 12.5 | 381 | | 4 F | 0430 | 11.0 | 335 | | 19 Sa | 0301 | 11.5 | 351 | | 4 Su | 0457 | 11.2 | 341 | | 19 M | 0400 | 12.0 | 366 | | | | |
| | 0819 | 6.2 | 189 | | | | 0722 | 6.3 | 192 | | | | 1032 | 7.7 | 235 | | | | 0921 | 6.8 | | 207 | | | 1051 | | 7.8 | 238 | | | 1013 | 6.7 | 204 |
| | 1459 | 13.7 | 418 | | | | 1349 | 13.9 | 424 | | | | 1716 | 12.9 | 393 | | | | 1553 | 13.2 | | 402 | | | 1707 | | 12.1 | 369 | | | 1619 | 12.4 | 378 |
| | 2144 | 8.4 | 256 | | | 2031 | 8.0 | 244 | | | | | | | | 2239 | 6.8 | 207 | | | 2350 | 6.7 | 204 | | | 2301 | 5.5 | 168 | | | | | |
| 5 W | 0254 | 11.3 | 344 | | | 20 Th | 0145 | 11.7 | 357 | | 5 Sa | 0005 | 7.4 | 226 | | 20 Su | 0444 | 11.7 | 357 | | 5 M | 0612 | 11.7 | 357 | | 20 Tu | 0531 | 12.4 | 378 | | | | |
| | 0933 | 7.2 | 219 | | | | 0820 | 7.0 | 213 | | | | 0606 | 11.5 | 351 | | | | 1051 | 7.0 | | 213 | | | 1220 | | 7.7 | 235 | | | 1146 | 6.9 | 210 |
| | 1641 | 13.2 | 402 | | | | 1502 | 13.3 | 405 | | | | 1207 | 7.7 | 235 | | | | 1716 | 13.1 | | 399 | | | 1811 | | 12.0 | 366 | | | 1738 | 12.1 | 369 |
| | 2332 | 8.5 | 259 | | | 2152 | 8.3 | 253 | | | 1823 | 13.0 | 396 | | | 2354 | 6.2 | 189 | | | | | | | | | | | | | | | |
| 6 Th | 0507 | 11.0 | 335 | | | 21 F | 0320 | 11.2 | 341 | | 6 Su | 0105 | 6.7 | 204 | | 21 M | 0611 | 12.6 | 384 | | 6 Tu | 0049 | 6.2 | 189 | | 21 W | 0015 | 5.1 | 155 | | | | |
| | 1120 | 7.7 | 235 | | | | 0947 | 7.5 | 229 | | | | 0707 | 12.4 | 378 | | | | 1220 | 6.6 | | 201 | | | 0709 | | 12.5 | 381 | | | 0649 | 13.2 | 402 |
| | 1815 | 13.4 | 408 | | | | 1646 | 13.2 | 402 | | | | 1317 | 7.2 | 219 | | | | 1826 | 13.3 | | 405 | | | 1329 | | 7.3 | 223 | | | 1314 | 6.5 | 198 |
| | | | | | | 2330 | 7.9 | 241 | | | 1913 | 13.3 | 405 | | | | | | | | 1905 | 12.1 | 369 | | | 1850 | 12.1 | 369 | | | | | |
| 7 F | 0101 | 7.8 | 238 | | | 22 Sa | 0527 | 11.5 | 351 | | 7 M | 0148 | 6.0 | 183 | | 22 Tu | 0058 | 5.2 | 158 | | 7 W | 0136 | 5.6 | 171 | | 22 Th | 0123 | 4.4 | 134 | | | | |
| | 0647 | 11.7 | 357 | | | | 1130 | 7.3 | 223 | | | | 0751 | 13.3 | 405 | | | | 0715 | 13.7 | | 418 | | | 0755 | | 13.3 | 405 | | | 0753 | 14.2 | 433 |
| | 1252 | 7.3 | 223 | | | | 1810 | 13.7 | 418 | | | | 1407 | 6.6 | 201 | | | | 1333 | 5.9 | | 180 | | | 1420 | | 6.7 | 204 | | | 1423 | 5.8 | 177 |
| | 1916 | 13.9 | 424 | | | | | | | | 1953 | 13.6 | 415 | | | 1923 | 13.6 | 415 | | | 1951 | 12.4 | 378 | | | 1952 | 12.4 | 378 | | | | | |
| 8 Sa | 0153 | 6.8 | 207 | | | 23 Su | 0045 | 6.9 | 210 | | 8 Tu | 0223 | 5.3 | 162 | | 23 W | 0152 | 4.2 | 128 | | 8 Th | 0217 | 5.0 | 152 | | 23 F | 0221 | 3.6 | 110 | | | | |
| | 0743 | 12.7 | 387 | | | | 0646 | 12.7 | 387 | | | | 0827 | 14.2 | 433 | | | | 0808 | 14.9 | | 454 | | | 0835 | | 14.1 | 430 | | | 0847 | 15.1 | 460 |
| | 1352 | 6.6 | 201 | | | | 1254 | 6.5 | 198 | | | | 1448 | 6.0 | 183 | | | | 1432 | 5.1 | | 155 | | | 1502 | | 6.1 | 186 | | | 1519 | 5.1 | 155 |
| | 1959 | 14.5 | 442 | | | 1910 | 14.4 | 439 | | | 2028 | 13.9 | 424 | | | 2013 | 13.9 | 424 | | | 2032 | 12.6 | 384 | | | 2046 | 12.8 | 390 | | | | | |
| 9 Su | 0231 | 5.9 | 180 | | | 24 M | 0140 | 5.6 | 171 | | 9 W | 0255 | 4.7 | 143 | | 24 Th | 0240 | 3.4 | 104 | | 9 F | 0255 | 4.5 | 137 | | 24 Sa | 0312 | 3.0 | 91 | | | | |
| | 0823 | 13.7 | 418 | | | | 0741 | 14.0 | 427 | | | | 0901 | 14.9 | 454 | | | | 0856 | 15.9 | | 485 | | | 0912 | | 14.7 | 448 | | | 0935 | 15.8 | 482 |
| | 1436 | 5.9 | 180 | | | | 1356 | 5.5 | 168 | | | | 1524 | 5.6 | 171 | | | | 1524 | 4.6 | | 140 | | | 1540 | | 5.6 | 171 | | | 1607 | 4.5 | 137 |
| | 2034 | 14.9 | 454 | | | 1958 | 15.0 | 457 | | | 2102 | 14.0 | 427 | | | 2059 | 14.1 | 430 | | | 2110 | 12.9 | 393 | | | 2134 | 13.1 | 399 | | | | | |
| 10 M | 0303 | 5.2 | 158 | | | 25 Tu | 0225 | 4.5 | 137 | | 10 Th | 0325 | 4.3 | 131 | | 25 F | 0325 | 2.7 | 82 | | 10 Sa | 0330 | 4.1 | 125 | | 25 Su | 0359 | 2.6 | 79 | | | | |
| | 0857 | 14.6 | 445 | | | | 0828 | 15.3 | 466 | | | | 0933 | 15.4 | 469 | | | | 0941 | 16.6 | | 506 | | | 0947 | | 15.2 | 463 | | | 1019 | 16.2 | 494 |
| | 1514 | 5.4 | 165 | | | | 1448 | 4.6 | 140 | | | | 1558 | 5.3 | 162 | | | | 1612 | 4.2 | | 128 | | | 1617 | | 5.3 | 162 | | | 1652 | 4.2 | 128 |
| | 2105 | 15.2 | 463 | | | 2041 | 15.4 | 469 | | | 2133 | 14.0 | 427 | | | 2143 | 14.1 | 430 | | | 2146 | 13.1 | 399 | | | 2219 | 13.3 | 405 | | | | | |
| 11 Tu | 0332 | 4.7 | 143 | | | 26 W | 0306 | 3.5 | 107 | | 11 F | 0355 | 4.1 | 125 | | 26 Sa | 0409 | 2.4 | 73 | | 11 Su | 0406 | 3.8 | 116 | | 26 M | 0443 | 2.5 | 76 | | | | |
| | 0928 | 15.2 | 463 | | | | 0912 | 16.4 | 500 | | | | 1004 | 15.7 | 479 | | | | 1025 | 16.9 | | 515 | | | 1022 | | 15.5 | 472 | | | 1100 | 16.3 | 497 |
| | 1547 | 5.1 | 155 | | | | 1536 | 4.0 | 122 | | | | 1630 | 5.2 | 158 | | | | 1658 | 4.2 | | 128 | | | 1652 | | 5.0 | 152 | | | 1733 | 4.1 | 125 |
| | 2134 | 15.2 | 463 | | | 2121 | 15.6 | 475 | | | 2204 | 13.9 | 424 | | | 2225 | 14.0 | 427 | | | 2221 | 13.2 | 402 | | | 2301 | 13.3 | 405 | | | | | |
| 12 W | 0359 | 4.3 | 131 | | | 27 Th | 0347 | 2.8 | 85 | | 12 Sa | 0424 | 4.0 | 122 | | 27 Su | 0452 | 2.5 | 76 | | 12 M | 0440 | 3.6 | 110 | | 27 Tu | 0525 | 2.7 | 82 | | | | |
| | 0958 | 15.7 | 479 | | | | 0954 | 17.1 | 521 | | | | 1035 | 15.8 | 482 | | | | 1108 | 16.8 | | 512 | | | 1056 | | 15.7 | 479 | | | 1139 | 16.1 | 491 |
| | 1619 | 5.0 | 152 | | | | 1621 | 3.8 | 116 | | | | 1703 | 5.3 | 162 | | | | 1742 | 4.4 | | 134 | | | 1727 | | 4.9 | 149 | | | 1812 | 4.2 | 128 |
| | 2202 | 15.2 | 463 | | | 2201 | 15.5 | 472 | | | 2234 | 13.8 | 421 | | | 2307 | 13.7 | 418 | | | 2255 | 13.2 | 402 | | | 2341 | 13.2 | 402 | | | | | |

Kanmen, China, 2011

Times and Heights of High and Low Waters

| January | | | | February | | | | March | | | | | | | | | | | | | | | | | | | | |
|----------|--------|------|--------|----------|----------|--------|------|--------|----------|------|--------|------|----------|------|------|--------|----------|------|------|-----|----------|--------|------|-----|--|--------|------|-----|
| | Time | | Height | | | Time | | Height | | | Time | | Height | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | | | | | |
| 1 Sa | 0006 | 3.4 | 105 | | 16 Su | 0616 | 15.5 | 472 | 1 Tu | 0157 | 2.5 | 75 | 16 W | 0117 | 3.0 | 92 | 1 Tu | 0054 | 4.1 | 125 | 16 W | 0616 | 16.5 | 503 | | | | |
| | 0636 | 16.7 | 508 | | | 1216 | 7.6 | 232 | | | 0823 | 17.7 | | 539 | | 0740 | | 17.9 | 546 | | | 0721 | 16.4 | 500 | | 1225 | 6.5 | 199 |
| | 1237 | 6.5 | 197 | | | 1803 | 15.2 | 464 | | | 1417 | 5.4 | | 166 | | 1343 | | 5.5 | 167 | | | 1320 | 6.2 | 189 | | 1817 | 15.9 | 486 |
| | 1829 | 16.2 | 495 | | | | | | | | 2010 | 16.6 | | 506 | | 1932 | | 17.3 | 526 | | | 1917 | 15.6 | 474 | | | | |
| 2 Su | 0109 | 2.6 | 78 | | 17 M | 0045 | 3.9 | 120 | 2 W | 0239 | 1.8 | 56 | 17 Th | 0206 | 1.6 | 49 | 2 W | 0144 | 3.1 | 96 | 17 Th | 0049 | 3.3 | 100 | | | | |
| | 0736 | 17.6 | 535 | | | 0713 | 16.8 | 512 | | | 0901 | 18.2 | | 555 | | 0825 | | 19.1 | 582 | | | 0805 | 17.3 | 526 | | 0709 | 17.9 | 545 |
| | 1334 | 5.9 | 181 | | | 1313 | 6.7 | 205 | | | 1453 | 4.7 | | 144 | | 1427 | | 4.1 | 124 | | | 1401 | 5.1 | 156 | | 1319 | 4.8 | 146 |
| | 1925 | 16.6 | 507 | | | 1859 | 16.2 | 493 | | | 2047 | 17.2 | | 523 | | 2019 | | 18.5 | 564 | | | 2000 | 16.4 | 501 | | 1913 | 17.5 | 534 |
| 3 M | 0201 | 1.8 | 56 | | 18 Tu | 0137 | 2.7 | 83 | 3 Th | 0313 | 1.5 | 47 | 18 F | 0248 | 0.6 | 17 | 3 Th | 0222 | 2.5 | 77 | 18 F | 0141 | 1.9 | 58 | | | | |
| | 0828 | 18.2 | 556 | | | 0802 | 18.1 | 551 | | | 0932 | 18.5 | | 563 | | 0905 | | 19.9 | 606 | | | 0838 | 17.8 | 542 | | 0754 | 19.0 | 579 |
| | 1422 | 5.4 | 165 | | | 1400 | 5.7 | 174 | | | 1525 | 4.1 | | 126 | | 1507 | | 2.9 | 87 | | | 1434 | 4.2 | 129 | | 1404 | 3.1 | 96 |
| | 2012 | 17.1 | 520 | | | 1948 | 17.2 | 524 | | | ● 2120 | 17.5 | | 533 | | ○ 2103 | | 19.4 | 591 | | | 2034 | 17.1 | 521 | | 2002 | 18.9 | 575 |
| 4 Tu | 0245 | 1.3 | 41 | | 19 W | 0223 | 1.6 | 48 | 4 F | 0344 | 1.5 | 45 | 19 Sa | 0328 | 0.0 | 0 | 4 F | 0253 | 2.2 | 67 | 19 Sa | 0224 | 1.0 | 30 | | | | |
| | 0910 | 18.7 | 569 | | | 0846 | 19.1 | 583 | | | 1000 | 18.5 | | 564 | | 0943 | | 20.2 | 617 | | | 0906 | 18.0 | 550 | | 0835 | 19.7 | 600 |
| | 1502 | 5.0 | 152 | | | 1443 | 4.8 | 145 | | | 1555 | 3.7 | | 113 | | 1546 | | 1.9 | 58 | | | 1504 | 3.5 | 108 | | 1445 | 1.8 | 54 |
| | ● 2053 | 17.4 | 529 | | | 2033 | 18.1 | 552 | | | 2150 | 17.7 | | 539 | | 2147 | | 19.8 | 604 | | | 2104 | 17.6 | 535 | | 2047 | 19.8 | 602 |
| 5 W | 0324 | 1.1 | 35 | | 20 Th | 0305 | 0.7 | 21 | 5 Sa | 0411 | 1.6 | 50 | 20 Su | 0405 | 0.0 | 0 | 5 Sa | 0320 | 2.1 | 65 | 20 Su | 0305 | 0.6 | 18 | | | | |
| | 0948 | 18.8 | 574 | | | 0928 | 19.8 | 604 | | | 1027 | 18.4 | | 562 | | 1019 | | 20.2 | 616 | | | 0932 | 18.1 | 552 | | 0913 | 19.9 | 608 |
| | 1538 | 4.7 | 142 | | | 1524 | 3.9 | 120 | | | 1625 | 3.4 | | 103 | | 1624 | | 1.3 | 40 | | | 1532 | 3.0 | 91 | | 1524 | 0.8 | 24 |
| | 2129 | 17.5 | 534 | | | ○ 2116 | 18.8 | 572 | | | 2221 | 17.7 | | 540 | | 2230 | | 19.8 | 603 | | | ● 2132 | 17.8 | 544 | | ○ 2131 | 20.1 | 614 |
| 6 Th | 0359 | 1.2 | 37 | | 21 F | 0345 | 0.2 | 5 | 6 Su | 0437 | 2.0 | 60 | 21 M | 0442 | 0.5 | 16 | 6 Su | 0345 | 2.2 | 68 | 21 M | 0343 | 0.8 | 23 | | | | |
| | 1021 | 18.8 | 572 | | | 1007 | 20.2 | 615 | | | 1053 | 18.2 | | 556 | | 1055 | | 19.8 | 603 | | | 0956 | 18.1 | 551 | | 0949 | 19.8 | 603 |
| | 1613 | 4.4 | 131 | | | 1604 | 3.2 | 99 | | | 1654 | 3.2 | | 98 | | 1703 | | 1.1 | 33 | | | 1600 | 2.6 | 79 | | 1602 | 0.3 | 8 |
| | 2204 | 17.5 | 534 | | | 2159 | 19.1 | 583 | | | 2253 | 17.6 | | 535 | | 2314 | | 19.3 | 589 | | | 2202 | 18.0 | 549 | | 2215 | 20.1 | 612 |
| 7 F | 0431 | 1.5 | 46 | | 22 Sa | 0424 | 0.1 | 2 | 7 M | 0503 | 2.5 | 75 | 22 Tu | 0519 | 1.5 | 47 | 7 M | 0410 | 2.5 | 75 | 22 Tu | 0420 | 1.4 | 43 | | | | |
| | 1053 | 18.6 | 566 | | | 1045 | 20.1 | 614 | | | 1120 | 17.9 | | 546 | | 1131 | | 19.1 | 581 | | | 1020 | 17.9 | 547 | | 1025 | 19.3 | 588 |
| | 1646 | 4.3 | 131 | | | 1643 | 2.8 | 84 | | | 1724 | 3.2 | | 99 | | 1742 | | 1.3 | 41 | | | 1627 | 2.4 | 73 | | 1641 | 0.2 | 6 |
| | 2239 | 17.4 | 529 | | | 2243 | 19.1 | 583 | | | 2328 | 17.2 | | 525 | | | | | | | | 2233 | 18.0 | 549 | | 2259 | 19.6 | 596 |
| 8 Sa | 0502 | 2.0 | 60 | | 23 Su | 0502 | 0.4 | 13 | 8 Tu | 0531 | 3.1 | 95 | 23 W | 0001 | 18.4 | 562 | 8 Tu | 0436 | 2.8 | 86 | 23 W | 0458 | 2.5 | 75 | | | | |
| | 1124 | 18.3 | 557 | | | 1123 | 19.8 | 605 | | | 1148 | 17.4 | | 531 | | 0558 | | 3.0 | 90 | | | 1044 | 17.7 | 540 | | 1101 | 18.5 | 564 |
| | 1720 | 4.3 | 131 | | | 1723 | 2.5 | 77 | | | 1756 | 3.5 | | 107 | | 1209 | | 18.0 | 548 | | | 1656 | 2.4 | 74 | | 1720 | 0.7 | 21 |
| | 2315 | 17.0 | 519 | | | 2329 | 18.7 | 571 | | | | | | | | 1824 | | 2.1 | 63 | | | 2305 | 17.8 | 543 | | 2346 | 18.6 | 568 |
| 9 Su | 0532 | 2.6 | 80 | | 24 M | 0540 | 1.2 | 38 | 9 W | 0005 | 16.7 | 508 | 24 Th | 0053 | 17.2 | 525 | 9 W | 0504 | 3.4 | 103 | 24 Th | 0537 | 3.8 | 115 | | | | |
| | 1156 | 17.8 | 543 | | | 1201 | 19.2 | 586 | | | 0601 | 4.1 | | 124 | | 0640 | | 4.7 | 142 | | | 1110 | 17.3 | 528 | | 1140 | 17.5 | 532 |
| | 1755 | 4.5 | 136 | | | 1804 | 2.6 | 79 | | | 1217 | 16.7 | | 510 | | 1252 | | 16.7 | 508 | | | 1725 | 2.7 | 82 | | 1802 | 1.7 | 51 |
| | 2354 | 16.5 | 502 | | | | | | | | 1829 | 4.0 | | 122 | | 1911 | | 3.2 | 99 | | | 2339 | 17.4 | 529 | | | | |
| 10 M | 0603 | 3.5 | 106 | | 25 Tu | 0018 | 18.0 | 548 | 10 Th | 0046 | 15.9 | 484 | 25 F | 0157 | 15.8 | 483 | 10 Th | 0534 | 4.2 | 128 | 25 F | 0037 | 17.4 | 531 | | | | |
| | 1229 | 17.2 | 524 | | | 0621 | 2.5 | 77 | | | 0636 | 5.2 | | 159 | | 0733 | | 6.5 | 199 | | | 1138 | 16.8 | 512 | | 0621 | 5.3 | 162 |
| | 1831 | 4.8 | 145 | | | 1242 | 18.3 | 558 | | | 1251 | 15.9 | | 485 | | 1349 | | 15.2 | 463 | | | 1756 | 3.2 | 97 | | 1224 | 16.1 | 492 |
| | | | | | | 1849 | 3.0 | 91 | | | 1908 | 4.7 | | 144 | | ● 2014 | | 4.6 | 141 | | | | | | | 1850 | 3.1 | 93 |
| 11 Tu | 0038 | 15.8 | 481 | | 26 W | 0114 | 17.0 | 517 | 11 F | 0138 | 15.0 | 457 | 26 Sa | 0317 | 14.8 | 450 | 11 F | 0018 | 16.7 | 508 | 26 Sa | 0139 | 16.1 | 490 | | | | |
| | 0637 | 4.5 | 138 | | | 0705 | 4.1 | 126 | | | 0717 | 6.6 | | 200 | | 0859 | | 8.1 | 246 | | | 0608 | 5.2 | 159 | | 0716 | 6.9 | 210 |
| | 1306 | 16.4 | 501 | | | 1329 | 17.2 | 523 | | | 1335 | 15.0 | | 458 | | 1510 | | 14.0 | 427 | | | 1210 | 16.1 | 490 | | 1321 | 14.7 | 449 |
| | 1912 | 5.2 | 159 | | | ○ 1940 | 3.7 | 114 | | | ○ 1957 | 5.5 | | 168 | | 2200 | | 5.4 | 166 | | | 1832 | 3.9 | 120 | | ○ 1951 | 4.6 | 141 |
| 12 W | 0128 | 15.0 | 457 | | 27 Th | 0220 | 15.8 | 482 | 12 Sa | 0247 | 14.3 | 435 | 27 Su | 0454 | 14.6 | 445 | 12 Sa | 0104 | 15.8 | 482 | 27 Su | 0256 | 15.0 | 457 | | | | |
| | 0716 | 5.7 | 175 | | | 0800 | 5.9 | 181 | | | 0814 | 7.9 | | 241 | | 1058 | | 8.3 | 253 | | | 0649 | 6.5 | 197 | | 0844 | 8.1 | 246 |
| | 1348 | 15.6 | 476 | | | 1427 | 15.9 | 486 | | | 1442 | 14.2 | | 433 | | 1654 | | 13.7 | 419 | | | 1251 | 15.2 | 464 | | 1445 | 13.6 | 415 |
| | ○ 2001 | 5.7 | 174 | | | 2048 | 4.6 | 139 | | | 2119 | 6.1 | | 186 | | 2341 | | 5.1 | 155 | | | 1918 | 4.9 | 149 | | 2129 | 5.7 | 173 |
| 13 Th | 0229 | 14.3 | 437 | | 28 F | 0340 | 15.0 | 457 | 13 Su | 0417 | 14.2 | 432 | 28 M | 0619 | 15.4 | 468 | 13 Su | 0208 | 14.9 | 455 | 28 M | 0425 | 14.7 | 448 | | | | |
| | 0806 | 7.0 | 213 | | | 0925 | 7.4 | 227 | | | 1008 | 8.7 | | 265 | | 1225 | | 7.4 | 225 | | | 0743 | 7.8 | 237 | | 1032 | 8.1 | 246 |
| | 1441 | 14.9 | 454 | | | 1540 | 14.9 | 455 | | | 1606 | 14.0 | | 426 | | 1818 | | 14.5 | 442 | | | 1352 | 14.3 | 436 | | 1635 | 13.4 | 409 |
| | 2111 | 6.1 | 185 | | | 2226 | 4.9 | 148 | | | 2301 | 5.7 | | 173 | | | | | | | | ○ 2025 | 5.8 | 176 | | 2308 | 5.6 | 171 |
| 14 F | 0342 | 14.0 | 427 | | 29 Sa | 0511 | 15.0 | 457 | 14 M | 0543 | 15.1 | 459 | 14 M | 0336 | 14.6 | 444 | 14 M | 0336 | 14.6 | 444 | 29 Tu | 0547 | 15.2 | 464 | | | | |
| | 0928 | 8.0 | 244 | | | 1110 | 7.8 | 239 | | | 1145 | 8.1 | | 248 | | 0923 | | 8.6 | 263 | | | 0923 | 8.6 | 263 | | 1155 | 7.1 | 217 |
| | 1546 | 14.5 | 441 | | | 1705 | 14.6 | 446 | | | 1730 | 14.6 | | 446 | | 1654 | | 13.7 | 419 | | | 1527 | 13.9 | 423 | | 1757 | 14.2 | 434 |
| | 2234 | 5.8 | 178 | | | 2355 | 4.3 | 132 | | | | | | | | 2341 | | 5.1 | 155 | | | 2220 | 5.8 | 177 | | | | |

Kanmen, China, 2011

Times and Heights of High and Low Waters

| April | | | | May | | | | June | | | | | | | | | | | | | | | |
|-----------------|--------|------|------|-----------------|------|------|--------|-----------------|------|--------|-----|-----------------|--------|------|-----|-----------------|------|------|-----|-----------------|------|------|-----|
| Time | Height | | Time | Height | | Time | Height | | Time | Height | | Time | Height | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | |
| 1 F | 0152 | 3.5 | 108 | 16 Sa | 0110 | 2.6 | 80 | 1 Su | 0146 | 4.4 | 135 | 16 M | 0131 | 3.4 | 104 | 1 W | 0224 | 5.0 | 153 | 16 Th | 0251 | 4.5 | 136 |
| | 0804 | 17.2 | 524 | | 0718 | 18.7 | 569 | | 0752 | 16.7 | 510 | | 0730 | 18.3 | 558 | | 0820 | 16.8 | 512 | | 0845 | 17.7 | 539 |
| | 1405 | 3.8 | 116 | | 1336 | 2.3 | 71 | | 1403 | 2.9 | 88 | | 1355 | 0.9 | 26 | | 1443 | 2.0 | 60 | | 1514 | 0.6 | 18 |
| | 2011 | 17.0 | 517 | | 1942 | 18.9 | 577 | | 2016 | 17.4 | 531 | | 2016 | 19.4 | 590 | | 2107 | 18.5 | 564 | | 2144 | 19.5 | 593 |
| 2 Sa | 0223 | 3.2 | 98 | 17 Su | 0157 | 2.0 | 61 | 2 M | 0218 | 4.2 | 128 | 17 Tu | 0218 | 3.3 | 101 | 2 Th | 0300 | 4.8 | 147 | 17 F | 0335 | 4.4 | 134 |
| | 0832 | 17.5 | 532 | | 0801 | 19.2 | 584 | | 0821 | 17.0 | 517 | | 0815 | 18.4 | 560 | | 0853 | 17.1 | 521 | | 0928 | 17.7 | 539 |
| | 1436 | 3.1 | 93 | | 1541 | 1.0 | 31 | | 1436 | 2.3 | 69 | | 1441 | 0.2 | 7 | | 1519 | 1.7 | 51 | | 1557 | 0.7 | 20 |
| | 2042 | 17.6 | 535 | | 2030 | 19.7 | 601 | | 2050 | 18.0 | 548 | | 2104 | 19.7 | 600 | | 2144 | 18.9 | 575 | | 2226 | 19.3 | 588 |
| 3 Su | 0251 | 3.1 | 94 | 18 M | 0240 | 1.8 | 55 | 3 Tu | 0249 | 4.1 | 125 | 18 W | 0302 | 3.4 | 105 | 3 F | 0336 | 4.7 | 144 | 18 Sa | 0416 | 4.4 | 134 |
| | 0858 | 17.6 | 536 | | 0841 | 19.3 | 587 | | 0849 | 17.1 | 522 | | 0857 | 18.2 | 556 | | 0928 | 17.3 | 527 | | 1009 | 17.6 | 535 |
| | 1505 | 2.5 | 75 | | 1501 | 0.2 | 5 | | 1507 | 1.9 | 57 | | 1525 | 0.0 | 0 | | 1555 | 1.5 | 47 | | 1637 | 1.0 | 32 |
| | 2112 | 18.0 | 548 | | 2116 | 20.0 | 611 | | 2124 | 18.4 | 560 | | 2151 | 19.7 | 599 | | 2222 | 19.0 | 579 | | 2306 | 19.0 | 578 |
| 4 M | 0317 | 3.1 | 95 | 19 Tu | 0320 | 2.1 | 63 | 4 W | 0320 | 4.1 | 125 | 19 Th | 0345 | 3.8 | 115 | 4 Sa | 0414 | 4.7 | 144 | 19 Su | 0457 | 4.5 | 136 |
| | 0922 | 17.6 | 536 | | 0920 | 19.1 | 581 | | 0917 | 17.2 | 524 | | 0939 | 17.9 | 547 | | 1004 | 17.4 | 530 | | 1050 | 17.2 | 525 |
| | 1533 | 2.1 | 63 | | 1541 | -0.2 | -6 | | 1539 | 1.7 | 51 | | 1607 | 0.2 | 6 | | 1632 | 1.6 | 48 | | 1716 | 1.7 | 51 |
| | 2142 | 18.2 | 556 | | 2201 | 19.9 | 608 | | 2158 | 18.5 | 565 | | 2237 | 19.3 | 589 | | 2300 | 18.9 | 577 | | 2344 | 18.5 | 563 |
| 5 Tu | 0344 | 3.2 | 99 | 20 W | 0400 | 2.7 | 81 | 5 Th | 0352 | 4.3 | 130 | 20 F | 0428 | 4.2 | 128 | 5 Su | 0453 | 4.8 | 146 | 20 M | 0538 | 4.6 | 141 |
| | 0947 | 17.6 | 535 | | 0958 | 18.6 | 566 | | 0947 | 17.2 | 524 | | 1020 | 17.5 | 533 | | 1043 | 17.3 | 528 | | 1132 | 16.8 | 511 |
| | 1601 | 1.9 | 58 | | 1622 | 0.0 | -1 | | 1610 | 1.7 | 52 | | 1650 | 0.8 | 23 | | 1711 | 1.8 | 55 | | 1755 | 2.5 | 77 |
| | 2214 | 18.3 | 558 | | 2247 | 19.5 | 594 | | 2233 | 18.5 | 564 | | 2322 | 18.8 | 572 | | 2340 | 18.7 | 571 | | 1755 | 2.5 | 77 |
| 6 W | 0412 | 3.5 | 108 | 21 Th | 0440 | 3.5 | 106 | 6 F | 0426 | 4.6 | 139 | 21 Sa | 0511 | 4.7 | 144 | 6 M | 0534 | 4.9 | 150 | 21 Tu | 0622 | 17.8 | 544 |
| | 1012 | 17.4 | 530 | | 1037 | 17.9 | 545 | | 1018 | 17.1 | 520 | | 1103 | 16.9 | 515 | | 1126 | 17.1 | 522 | | 0620 | 4.9 | 149 |
| | 1630 | 1.9 | 59 | | 1703 | 0.6 | 17 | | 1643 | 1.9 | 58 | | 1733 | 1.6 | 48 | | 1753 | 2.2 | 68 | | 1217 | 16.1 | 492 |
| | 2247 | 18.2 | 554 | | 2334 | 18.7 | 570 | | 2310 | 18.3 | 558 | | 1818 | 2.7 | 81 | | 1840 | 2.9 | 88 | | 1835 | 3.5 | 108 |
| 7 Th | 0442 | 4.0 | 122 | 22 F | 0522 | 4.5 | 137 | 7 Sa | 0502 | 5.0 | 152 | 22 Su | 0008 | 18.0 | 550 | 7 Tu | 0023 | 18.4 | 560 | 22 W | 0102 | 17.1 | 521 |
| | 1040 | 17.1 | 522 | | 1118 | 17.0 | 518 | | 1052 | 16.8 | 512 | | 0557 | 5.3 | 161 | | 0620 | 5.1 | 154 | | 0706 | 5.2 | 160 |
| | 1700 | 2.2 | 67 | | 1746 | 1.6 | 48 | | 1719 | 2.3 | 71 | | 1150 | 16.2 | 493 | | 1215 | 16.8 | 511 | | 1308 | 15.5 | 471 |
| | 2321 | 17.8 | 544 | | 2350 | 17.9 | 546 | | 2350 | 17.9 | 546 | | 1818 | 2.7 | 81 | | 1840 | 2.9 | 88 | | 1919 | 4.7 | 144 |
| 8 F | 0514 | 4.6 | 141 | 23 Sa | 0609 | 5.6 | 170 | 8 Su | 0542 | 5.5 | 168 | 23 M | 0056 | 17.2 | 524 | 8 W | 0112 | 17.9 | 547 | 23 Th | 0145 | 16.3 | 498 |
| | 1110 | 16.7 | 510 | | 1204 | 15.9 | 485 | | 1132 | 16.4 | 500 | | 0647 | 5.8 | 178 | | 0710 | 5.2 | 157 | | 0758 | 5.6 | 171 |
| | 1732 | 2.7 | 82 | | 1834 | 2.9 | 89 | | 1801 | 2.9 | 88 | | 1243 | 15.3 | 467 | | 1317 | 16.3 | 497 | | 1404 | 14.8 | 451 |
| | | | | | | | | | | | | | 1907 | 3.8 | 117 | | 1932 | 3.7 | 112 | | 2011 | 5.9 | 179 |
| 9 Sa | 0000 | 17.3 | 527 | 24 Su | 0121 | 16.6 | 505 | 9 M | 0036 | 17.4 | 530 | 24 Tu | 0148 | 16.4 | 499 | 9 Th | 0207 | 17.5 | 533 | 24 F | 0235 | 15.6 | 475 |
| | 0551 | 5.5 | 167 | | 0705 | 6.6 | 202 | | 0628 | 6.1 | 185 | | 0746 | 6.3 | 192 | | 0810 | 5.2 | 157 | | 0859 | 5.8 | 177 |
| | 1145 | 16.2 | 493 | | 1302 | 14.8 | 451 | | 1219 | 15.8 | 483 | | 1345 | 14.5 | 442 | | 1428 | 16.0 | 487 | | 1509 | 14.3 | 437 |
| | 1810 | 3.4 | 104 | | 1931 | 4.3 | 132 | | 1850 | 3.6 | 110 | | 2005 | 5.0 | 153 | | 2035 | 4.5 | 138 | | 2117 | 6.8 | 208 |
| 10 Su | 0046 | 16.6 | 505 | 25 M | 0227 | 15.6 | 476 | 10 Tu | 0132 | 16.9 | 514 | 25 W | 0245 | 15.7 | 478 | 10 F | 0308 | 17.1 | 521 | 25 Sa | 0331 | 15.0 | 458 |
| | 0634 | 6.5 | 197 | | 0820 | 7.4 | 225 | | 0724 | 6.5 | 199 | | 0854 | 6.5 | 198 | | 0923 | 4.8 | 147 | | 1005 | 5.7 | 174 |
| | 1228 | 15.4 | 470 | | 1418 | 13.8 | 422 | | 1324 | 15.3 | 466 | | 1455 | 14.0 | 426 | | 1544 | 16.0 | 487 | | 1626 | 14.4 | 439 |
| | 1858 | 4.3 | 131 | | 2049 | 5.4 | 166 | | 1950 | 4.4 | 133 | | 2114 | 5.9 | 179 | | 2151 | 5.1 | 156 | | 2227 | 7.3 | 223 |
| 11 M | 0147 | 15.8 | 482 | 26 Tu | 0340 | 15.1 | 460 | 11 W | 0238 | 16.5 | 503 | 26 Th | 0347 | 15.2 | 464 | 11 Sa | 0411 | 16.9 | 516 | 26 Su | 0433 | 14.8 | 451 |
| | 0731 | 7.4 | 226 | | 0947 | 7.4 | 225 | | 0837 | 6.6 | 202 | | 1003 | 6.2 | 190 | | 1036 | 4.1 | 125 | | 1106 | 5.3 | 161 |
| | 1330 | 14.6 | 445 | | 1552 | 13.5 | 412 | | 1447 | 15.1 | 459 | | 1618 | 14.0 | 426 | | 1703 | 16.5 | 502 | | 1737 | 15.0 | 457 |
| | 2004 | 5.2 | 157 | | 2215 | 5.8 | 178 | | 2108 | 4.8 | 147 | | 2223 | 6.3 | 192 | | 2305 | 5.3 | 162 | | 2333 | 7.3 | 223 |
| 12 Tu | 0306 | 15.5 | 471 | 27 W | 0452 | 15.2 | 462 | 12 Th | 0348 | 16.6 | 505 | 27 F | 0447 | 15.1 | 461 | 12 Su | 0514 | 17.0 | 517 | 27 M | 0533 | 15.0 | 456 |
| | 0900 | 7.9 | 241 | | 1104 | 6.7 | 205 | | 1002 | 6.0 | 182 | | 1106 | 5.6 | 171 | | 1141 | 3.1 | 96 | | 1203 | 4.6 | 140 |
| | 1504 | 14.3 | 435 | | 1717 | 14.0 | 427 | | 1610 | 15.5 | 471 | | 1728 | 14.5 | 443 | | 1812 | 17.3 | 528 | | 1834 | 15.9 | 486 |
| | 2142 | 5.4 | 165 | | 2328 | 5.7 | 173 | | 2230 | 4.7 | 144 | | 2328 | 6.3 | 192 | | 2328 | 6.3 | 192 | | 1834 | 15.9 | 486 |
| 13 W | 0428 | 15.8 | 482 | 28 Th | 0553 | 15.6 | 474 | 13 F | 0453 | 17.0 | 517 | 28 Sa | 0541 | 15.3 | 466 | 13 M | 0612 | 5.2 | 158 | 28 Tu | 0631 | 6.9 | 211 |
| | 1039 | 7.2 | 219 | | 1205 | 5.7 | 174 | | 1112 | 4.7 | 144 | | 1201 | 4.8 | 146 | | 0613 | 17.2 | 523 | | 0626 | 15.4 | 470 |
| | 1636 | 14.9 | 453 | | 1816 | 14.9 | 454 | | 1727 | 16.4 | 501 | | 1822 | 15.4 | 470 | | 1242 | 2.2 | 66 | | 1254 | 3.8 | 115 |
| | 2308 | 4.7 | 144 | | | | | | 2338 | 4.3 | 130 | | | | | | 1912 | 18.2 | 554 | | 1923 | 17.0 | 518 |
| 14 Th | 0536 | 16.8 | 511 | 29 F | 0026 | 5.2 | 159 | 14 Sa | 0551 | 17.5 | 534 | 29 Su | 0022 | 6.0 | 184 | 14 Tu | 0111 | 4.9 | 150 | 29 W | 0119 | 6.4 | 195 |
| | 1150 | 5.7 | 173 | | 0641 | 16.0 | 488 | | 1212 | 3.3 | 100 | | 0628 | 15.6 | 476 | | 0708 | 17.4 | 530 | | 0712 | 16.1 | 490 |
| | 1753 | 16.2 | 494 | | 1251 | 4.6 | 141 | | 1830 | 17.6 | 537 | | 1248 | 3.9 | 120 | | 1338 | 1.3 | 41 | | 1340 | 3.0 | 91 |
| | | | | | 1903 | 15.8 | 483 | | | | | | 1908 | 16.3 | 498 | | 2007 | 18.9 | 576 | | 2008 | 18.0 | 548 |
| 15 F | 0014 | 3.6 | 111 | 30 Sa | 0110 | 4.8 | 146 | 15 Su | 0038 | 3.7 | 114 | 30 M | 0108 | 5.7 | 173 | 15 W | 0204 | 4.7 | 142 | 30 Th | 0202 | 5.8 | 177 |
| | 0631 | 17.8 | 543 | | 0719 | 16.4 | 500 | | 0643 | 18.0 | 549 | | 0709 | 16.0 | 488 | | 0758 | 17.6 | 536 | | 0754 | 16.8 | 511 |
| | 1247 | 3.9 | 120 | | 1329 | 3.7 | 112 | | 1306 | 1.9 | 58 | | 1329 | 3.1 | 96 | | 1428 | | | | | | |

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Times and Heights of High and Low Waters

| October | | | | November | | | | December | | | | | | | | | | | | | | | | |
|-----------------|------|------|--------|----------------|-----------------|------|------|----------|-----------------|------|------|-----|-----------------|------|------|-----|-----------------|------|------|-----|-----------------|------|------|-----|
| | Time | | Height | | | Time | | Height | | | Time | | Height | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | |
| 1 Sa | 0454 | 1.0 | 29 | | 16 Su | 0440 | 2.8 | 85 | 1 Tu | 0609 | 2.9 | 89 | 16 W | 0534 | 3.3 | 100 | 1 Th | 0020 | 16.3 | 497 | 16 F | 0606 | 2.9 | 87 |
| | 1118 | 20.0 | 610 | | | 1106 | 18.6 | 566 | | 1253 | 17.8 | 543 | | 1212 | 18.0 | 549 | | 0641 | 3.7 | 113 | | 1239 | 18.2 | 556 |
| | 1711 | 4.2 | 128 | | | 1654 | 5.4 | 164 | | 1837 | 6.8 | 206 | | 1800 | 6.3 | 191 | | 1321 | 17.2 | 524 | | 1835 | 5.1 | 156 |
| | 2314 | 18.9 | 576 | | | 2253 | 17.6 | 535 | | | | | | 2356 | 16.6 | 505 | | 1915 | 6.3 | 191 | | | | |
| 2 Su | 0537 | 1.8 | 56 | | 17 M | 0512 | 3.3 | 101 | 2 W | 0038 | 16.1 | 491 | 17 Th | 0619 | 4.0 | 121 | 2 F | 0121 | 15.3 | 467 | 17 Sa | 0040 | 16.7 | 508 |
| | 1210 | 18.9 | 575 | | | 1143 | 18.0 | 549 | | 0705 | 4.4 | 133 | | 1300 | 17.5 | 533 | | 0734 | 5.0 | 153 | | 0652 | 3.7 | 112 |
| | 1756 | 5.6 | 171 | | | 1729 | 6.1 | 187 | | 1357 | 16.8 | 511 | | 1850 | 6.7 | 205 | | 1416 | 16.3 | 498 | | 1327 | 17.7 | 541 |
| | 2359 | 17.7 | 538 | | | 2327 | 17.0 | 517 | | 1947 | 7.5 | 230 | | | | | | 2022 | 6.6 | 201 | | 1926 | 5.2 | 160 |
| 3 M | 0625 | 3.1 | 96 | | 18 Tu | 0548 | 4.0 | 123 | 3 Th | 0152 | 15.0 | 458 | 18 F | 0052 | 15.9 | 486 | 3 Sa | 0229 | 14.5 | 443 | 18 Su | 0145 | 16.1 | 491 |
| | 1310 | 17.6 | 536 | | | 1227 | 17.3 | 528 | | 0817 | 5.7 | 173 | | 0712 | 4.8 | 146 | | 0841 | 6.2 | 189 | | 0746 | 4.6 | 141 |
| | 1850 | 7.1 | 217 | | | 1811 | 7.0 | 214 | | 1507 | 16.1 | 491 | | 1359 | 17.0 | 519 | | 1516 | 15.7 | 479 | | 1424 | 17.3 | 526 |
| | | | | | | | | | | 2118 | 7.7 | 234 | | 1951 | 7.0 | 212 | | 2139 | 6.5 | 198 | | 2029 | 5.3 | 161 |
| 4 Tu | 0055 | 16.2 | 495 | | 19 W | 0009 | 16.2 | 495 | 4 F | 0318 | 14.5 | 442 | 19 Sa | 0208 | 15.5 | 473 | 4 Su | 0348 | 14.2 | 434 | 19 M | 0259 | 15.8 | 481 |
| | 0724 | 4.7 | 142 | | | 0633 | 4.9 | 150 | | 0948 | 6.3 | 192 | | 0818 | 5.5 | 167 | | 0959 | 6.9 | 209 | | 0853 | 5.6 | 170 |
| | 1423 | 16.4 | 501 | | | 1321 | 16.6 | 507 | | 1619 | 15.9 | 486 | | 1506 | 16.9 | 515 | | 1618 | 15.4 | 470 | | 1528 | 16.9 | 516 |
| | 2008 | 8.3 | 254 | | | 1903 | 7.9 | 241 | | 2239 | 7.0 | 214 | | 2115 | 6.7 | 203 | | 2249 | 6.0 | 182 | | 2150 | 4.9 | 149 |
| 5 W | 0214 | 15.0 | 458 | | 20 Th | 0105 | 15.5 | 471 | 5 Sa | 0449 | 14.8 | 450 | 20 Su | 0329 | 15.6 | 477 | 5 M | 0505 | 14.6 | 445 | 20 Tu | 0419 | 15.9 | 486 |
| | 0852 | 5.9 | 179 | | | 0733 | 5.8 | 177 | | 1105 | 6.2 | 190 | | 0944 | 5.7 | 174 | | 1110 | 7.0 | 213 | | 1019 | 6.1 | 185 |
| | 1548 | 15.9 | 486 | | | 1431 | 16.2 | 493 | | 1723 | 16.2 | 494 | | 1613 | 17.2 | 524 | | 1718 | 15.5 | 472 | | 1634 | 16.9 | 514 |
| | 2158 | 8.4 | 257 | | | 2018 | 8.4 | 257 | | 2344 | 6.0 | 182 | | 2235 | 5.6 | 170 | | 2349 | 5.2 | 157 | | 2306 | 4.0 | 122 |
| 6 Th | 0356 | 14.6 | 446 | | 21 F | 0231 | 15.0 | 457 | 6 Su | 0554 | 15.6 | 475 | 21 M | 0449 | 16.4 | 500 | 6 Tu | 0606 | 15.4 | 468 | 21 W | 0536 | 16.7 | 509 |
| | 1034 | 6.0 | 182 | | | 0859 | 6.3 | 192 | | 1206 | 5.9 | 179 | | 1100 | 5.3 | 163 | | 1210 | 6.7 | 205 | | 1137 | 6.0 | 183 |
| | 1710 | 16.3 | 496 | | | 1550 | 16.4 | 499 | | 1816 | 16.7 | 508 | | 1714 | 17.7 | 541 | | 1809 | 15.8 | 481 | | 1738 | 17.1 | 521 |
| | 2322 | 7.5 | 229 | | | 2204 | 7.9 | 242 | | | | | | 2338 | 4.1 | 126 | | | | | | | | |
| 7 F | 0527 | 15.3 | 466 | | 22 Sa | 0359 | 15.4 | 469 | 7 M | 0033 | 4.9 | 149 | 22 Tu | 0557 | 17.6 | 537 | 7 W | 0038 | 4.2 | 129 | 22 Th | 0012 | 2.9 | 88 |
| | 1150 | 5.4 | 165 | | | 1032 | 5.8 | 177 | | 0644 | 16.5 | 503 | | 1204 | 4.8 | 145 | | 0655 | 16.3 | 496 | | 0642 | 17.7 | 540 |
| | 1815 | 17.0 | 519 | | | 1659 | 17.2 | 523 | | 1253 | 5.4 | 166 | | 1809 | 18.4 | 560 | | 1257 | 6.3 | 192 | | 1243 | 5.6 | 170 |
| | | | | | | 2316 | 6.5 | 198 | | 1858 | 17.1 | 520 | | | | | | 1854 | 16.2 | 494 | | 1837 | 17.5 | 533 |
| 8 Sa | 0022 | 6.2 | 190 | | 23 Su | 0520 | 16.6 | 506 | 8 Tu | 0113 | 3.9 | 119 | 23 W | 0035 | 2.6 | 80 | 8 Th | 0120 | 3.4 | 104 | 23 F | 0113 | 1.8 | 54 |
| | 0629 | 16.3 | 498 | | | 1140 | 4.8 | 147 | | 0725 | 17.3 | 528 | | 0655 | 18.8 | 574 | | 0737 | 17.2 | 524 | | 0740 | 18.7 | 569 |
| | 1246 | 4.7 | 144 | | | 1756 | 18.2 | 556 | | 1330 | 5.1 | 156 | | 1300 | 4.2 | 129 | | 1336 | 5.9 | 179 | | 1340 | 5.1 | 154 |
| | 1903 | 17.7 | 540 | | | | | | | 1933 | 17.4 | 530 | | 1859 | 18.9 | 575 | | 1932 | 16.7 | 509 | | 1931 | 17.9 | 545 |
| 9 Su | 0107 | 5.1 | 154 | | 24 M | 0013 | 4.8 | 145 | 9 W | 0148 | 3.1 | 96 | 24 Th | 0126 | 1.4 | 42 | 9 F | 0157 | 2.7 | 83 | 24 Sa | 0207 | 0.9 | 27 |
| | 0715 | 17.3 | 526 | | | 0621 | 18.1 | 553 | | 0801 | 18.0 | 549 | | 0747 | 19.8 | 603 | | 0816 | 18.0 | 548 | | 0833 | 19.4 | 591 |
| | 1328 | 4.2 | 128 | | | 1236 | 3.8 | 115 | | 1402 | 4.9 | 150 | | 1350 | 3.9 | 118 | | 1412 | 5.5 | 167 | | 1429 | 4.6 | 140 |
| | 1940 | 18.2 | 554 | | | 1845 | 19.3 | 587 | | 2004 | 17.7 | 538 | | 1946 | 19.2 | 584 | | 2007 | 17.1 | 522 | | 2020 | 18.2 | 555 |
| 10 M | 0144 | 4.1 | 124 | | 25 Tu | 0103 | 3.1 | 93 | 10 Th | 0220 | 2.6 | 79 | 25 F | 0214 | 0.5 | 15 | 10 Sa | 0232 | 2.2 | 67 | 25 Su | 0254 | 0.4 | 11 |
| | 0752 | 18.0 | 548 | | | 0713 | 19.5 | 595 | | 0835 | 18.6 | 566 | | 0837 | 20.3 | 620 | | 0853 | 18.6 | 566 | | 0921 | 19.8 | 602 |
| | 1402 | 4.0 | 121 | | | 1325 | 3.0 | 91 | | 1433 | 4.8 | 146 | | 1436 | 3.8 | 115 | | 1446 | 5.2 | 158 | | 1514 | 4.3 | 130 |
| | 2010 | 18.4 | 561 | | | 1929 | 19.9 | 608 | | 2033 | 17.8 | 543 | | 2030 | 19.2 | 586 | | 2041 | 17.5 | 533 | | 2106 | 18.4 | 560 |
| 11 Tu | 0216 | 3.3 | 102 | | 26 W | 0148 | 1.6 | 50 | 11 F | 0251 | 2.2 | 68 | 26 Sa | 0259 | 0.0 | 1 | 11 Su | 0306 | 1.8 | 56 | 26 M | 0338 | 0.2 | 7 |
| | 0825 | 18.5 | 564 | | | 0801 | 20.5 | 626 | | 0908 | 18.9 | 577 | | 0925 | 20.5 | 624 | | 0930 | 19.0 | 579 | | 1004 | 19.8 | 602 |
| | 1431 | 3.9 | 119 | | | 1409 | 2.6 | 79 | | 1502 | 4.8 | 145 | | 1520 | 3.9 | 119 | | 1520 | 5.0 | 152 | | 1556 | 4.1 | 125 |
| | 2037 | 18.5 | 564 | | | 2010 | 20.3 | 619 | | 2101 | 17.9 | 546 | | 2114 | 19.1 | 581 | | 2114 | 17.7 | 540 | | 2149 | 18.3 | 557 |
| 12 W | 0246 | 2.9 | 87 | | 27 Th | 0231 | 0.6 | 19 | 12 Sa | 0321 | 2.1 | 63 | 27 Su | 0343 | 0.1 | 2 | 12 M | 0340 | 1.7 | 52 | 27 Tu | 0418 | 0.5 | 15 |
| | 0855 | 18.8 | 574 | | | 0847 | 21.1 | 642 | | 0942 | 19.1 | 582 | | 1011 | 20.3 | 618 | | 1005 | 19.2 | 584 | | 1045 | 19.5 | 593 |
| | 1458 | 4.0 | 121 | | | 1451 | 2.7 | 81 | | 1533 | 4.8 | 147 | | 1603 | 4.2 | 128 | | 1555 | 4.9 | 148 | | 1636 | 4.1 | 124 |
| | 2103 | 18.5 | 563 | | | 2051 | 20.2 | 617 | | 2131 | 17.9 | 546 | | 2157 | 18.7 | 569 | | 2148 | 17.8 | 544 | | 2231 | 18.0 | 548 |
| 13 Th | 0314 | 2.5 | 77 | | 28 F | 0312 | 0.1 | 3 | 13 Su | 0352 | 2.1 | 64 | 28 M | 0427 | 0.5 | 15 | 13 Tu | 0413 | 1.7 | 52 | 28 W | 0457 | 1.1 | 33 |
| | 0926 | 19.0 | 580 | | | 0933 | 21.1 | 643 | | 1017 | 19.1 | 581 | | 1057 | 19.8 | 602 | | 1041 | 19.2 | 584 | | 1123 | 19.0 | 578 |
| | 1524 | 4.1 | 126 | | | 1532 | 3.1 | 94 | | 1605 | 5.0 | 153 | | 1647 | 4.6 | 141 | | 1631 | 4.9 | 148 | | 1716 | 4.2 | 127 |
| | 2128 | 18.4 | 561 | | | 2131 | 19.9 | 607 | | 2202 | 17.8 | 542 | | 2241 | 18.0 | 550 | | 2224 | 17.8 | 542 | | 2313 | 17.5 | 532 |
| 14 F | 0343 | 2.4 | 73 | | 29 Sa | 0354 | 0.1 | 4 | 14 M | 0423 | 2.3 | 71 | 29 Tu | 0510 | 1.3 | 40 | 14 W | 0448 | 1.9 | 58 | 29 Th | 0534 | 1.9 | 59 |
| | 0958 | 19.1 | 581 | | | 1019 | 20.7 | 631 | | 1052 | 18.9 | 575 | | 1143 | 19.0 | 579 | | 1118 | 19.0 | 579 | | 1201 | 18.3 | 558 |
| | 1552 | 4.4 | 134 | | | 1613 | 3.8 | 115 | | 1640 | 5.3 | 163 | | 1732 | 5.2 | 157 | | 1709 | 4.9 | 149 | | 1757 | 4.4 | 135 |
| | 2155 | 18.2 | 556 | | | 2211 | 19.3 | 587 | | 2235 | 17.5 | 534 | | 2328 | 17.3 | 526 | | 2304 | 17.6 | 536 | | 2357 | 16.7 | 510 |
| 15 Sa | 0411 | 2.5 | 76 | | 30 Su | 0437 | 0.6 | 19 | 15 Tu | 0457 | 2.7 | 83 | 30 W | 0554 | 2.4 | 73 | 15 Th | 0526 | 2.3 | 69 | 30 F | 0611 | 3.0 | 92 |
| | 1031 | 18.9 | 577 | | | 1107 | 19.9 | 608 | | 1130 | 18.5 | 564 | | 1230 | 18.1 | 552 | | 1156 | 18.7 | 569 | | 1239 | 17.5 | 534 |
| | 1622 | 4.8 | 146 | | | 1656 | 4.7 | 143 | | 1717 | 5.8 | 176 | | 1820 | 5.7 | 174 | | 1750 | 5.0 | 152 | | 1839 | 4.8 | 147 |
| | 2222 | 18.0 | 548 | | | 2254 | 18.4 | 561 | | 2313 | 17.1 | 522 | | | | | | 2348 | 17.2 | 524 | | | | |
| | | | | 31 M | 0521 | 1.6 | 49 | | | | | | | | | | 31 Sa | 0045 | 15.8 | 483 | | | | |
| | | | | | 1157 | 18.9 | 577 | | | | | | | | | | | 0651 | 4.3 | 131 | | | | |
| | | | | | 174 | | | | | | | | | | | | | | | | | | | |

Xiamen, China, 2011

Times and Heights of High and Low Waters

| January | | | | February | | | | March | | | | | | |
|-----------------|------|------|--------|----------------|-----------------|------|------|--------|-----------------|-----------------|------|------|--------|----|
| | Time | | Height | | | Time | | Height | | | Time | | Height | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm |
| 1 Sa | 0317 | 3.2 | 98 | | 1 Tu | 0507 | 2.4 | 74 | | 1 Tu | 0354 | 4.0 | 121 | |
| | 0950 | 17.3 | 528 | | | 1142 | 17.9 | 546 | | | 1033 | 16.5 | 504 | |
| | 1547 | 6.8 | 207 | | | 1740 | 6.1 | 186 | | | 1636 | 6.7 | 204 | |
| | 2136 | 17.5 | 533 | | | 2323 | 17.5 | 533 | | | 2224 | 16.3 | 497 | |
| 2 Su | 0420 | 2.4 | 74 | | 2 W | 0555 | 1.9 | 59 | | 2 W | 0452 | 3.2 | 99 | |
| | 1054 | 18.1 | 551 | | | 1224 | 18.4 | 562 | | | 1123 | 17.4 | 531 | |
| | 1652 | 6.5 | 198 | | | 1821 | 5.6 | 171 | | | 1724 | 5.8 | 177 | |
| | 2235 | 17.8 | 543 | | | 2337 | 19.1 | 582 | | | 2315 | 17.2 | 523 | |
| 3 M | 0515 | 1.8 | 54 | | 3 Th | 0005 | 17.9 | 547 | | 3 Th | 0539 | 2.8 | 85 | |
| | 1149 | 18.7 | 570 | | | 0635 | 1.8 | 55 | | | 1202 | 18.0 | 550 | |
| | 1747 | 6.1 | 186 | | | 1259 | 18.7 | 571 | | | 1801 | 5.1 | 154 | |
| | 2326 | 18.0 | 550 | | | 1856 | 5.1 | 156 | | | 2356 | 17.8 | 542 | |
| 4 Tu | 0603 | 1.4 | 42 | | 4 F | 0044 | 18.2 | 555 | | 4 F | 0613 | 2.7 | 82 | |
| | 1236 | 19.1 | 581 | | | 0706 | 2.0 | 60 | | | 1235 | 18.3 | 559 | |
| | 1835 | 5.8 | 177 | | | 1330 | 18.8 | 573 | | | 1836 | 4.5 | 137 | |
| | | | | | | 1931 | 4.8 | 146 | | | 1910 | 3.1 | 94 | |
| 5 W | 0010 | 18.3 | 557 | | 5 Sa | 0117 | 18.2 | 556 | | 5 Sa | 0033 | 18.2 | 554 | |
| | 0647 | 1.3 | 40 | | | 0739 | 2.2 | 66 | | | 0646 | 2.7 | 82 | |
| | 1314 | 19.2 | 584 | | | 1356 | 18.8 | 573 | | | 1301 | 18.4 | 562 | |
| | 1911 | 5.7 | 173 | | | 1955 | 4.5 | 138 | | | 1901 | 4.1 | 126 | |
| 6 Th | 0051 | 18.4 | 560 | | 6 Su | 0150 | 18.3 | 557 | | 6 Su | 0103 | 18.3 | 559 | |
| | 0724 | 1.6 | 48 | | | 0806 | 2.6 | 79 | | | 0715 | 3.0 | 92 | |
| | 1349 | 19.1 | 583 | | | 1422 | 18.7 | 569 | | | 1328 | 18.4 | 560 | |
| | 1947 | 5.5 | 167 | | | 2028 | 4.3 | 132 | | | 1932 | 3.7 | 112 | |
| 7 F | 0130 | 18.2 | 555 | | 7 M | 0223 | 18.0 | 550 | | 7 M | 0136 | 18.4 | 562 | |
| | 0756 | 1.9 | 57 | | | 0838 | 3.0 | 92 | | | 0744 | 3.2 | 99 | |
| | 1420 | 18.9 | 577 | | | 1448 | 18.5 | 565 | | | 1351 | 18.4 | 561 | |
| | 2022 | 5.4 | 165 | | | 2055 | 4.1 | 124 | | | 1956 | 3.4 | 105 | |
| 8 Sa | 0204 | 18.1 | 551 | | 8 Tu | 0256 | 17.8 | 542 | | 8 Tu | 0205 | 18.4 | 560 | |
| | 0832 | 2.4 | 72 | | | 0906 | 3.7 | 113 | | | 0811 | 3.7 | 114 | |
| | 1451 | 18.8 | 573 | | | 1515 | 18.2 | 554 | | | 1415 | 18.2 | 555 | |
| | 2054 | 5.2 | 159 | | | 2131 | 4.0 | 122 | | | 2026 | 3.2 | 98 | |
| 9 Su | 0242 | 17.7 | 541 | | 9 W | 0334 | 17.3 | 526 | | 9 W | 0238 | 18.2 | 554 | |
| | 0902 | 3.0 | 92 | | | 0940 | 4.4 | 134 | | | 0841 | 4.2 | 127 | |
| | 1521 | 18.4 | 562 | | | 1545 | 17.7 | 539 | | | 1442 | 18.0 | 549 | |
| | 2132 | 5.2 | 157 | | | 2202 | 4.1 | 126 | | | 2054 | 3.1 | 94 | |
| 10 M | 0320 | 17.2 | 524 | | 10 Th | 0410 | 16.5 | 503 | | 10 Th | 0309 | 17.7 | 541 | |
| | 0938 | 3.7 | 114 | | | 1013 | 5.4 | 165 | | | 0909 | 4.8 | 146 | |
| | 1553 | 18.0 | 550 | | | 1617 | 17.0 | 517 | | | 1508 | 17.6 | 537 | |
| | 2205 | 5.2 | 160 | | | 2244 | 4.4 | 135 | | | 2130 | 3.2 | 99 | |
| 11 Tu | 0400 | 16.6 | 505 | | 11 F | 0456 | 15.6 | 477 | | 11 F | 0345 | 17.2 | 523 | |
| | 1013 | 4.7 | 144 | | | 1053 | 6.4 | 195 | | | 0945 | 5.4 | 166 | |
| | 1628 | 17.4 | 530 | | | 1656 | 16.1 | 492 | | | 1541 | 17.1 | 520 | |
| | 2249 | 5.3 | 163 | | | 2334 | 4.9 | 149 | | | 2204 | 3.5 | 107 | |
| 12 W | 0448 | 15.8 | 481 | | 12 Sa | 0554 | 14.7 | 449 | | 12 Sa | 0427 | 16.3 | 497 | |
| | 1053 | 5.7 | 174 | | | 1149 | 7.4 | 227 | | | 1025 | 6.4 | 195 | |
| | 1705 | 16.7 | 509 | | | 1749 | 15.3 | 467 | | | 1618 | 16.3 | 496 | |
| | 2337 | 5.6 | 171 | | | 1947 | 15.1 | 459 | | | 2252 | 4.0 | 123 | |
| 13 Th | 0543 | 15.0 | 457 | | 13 Su | 0037 | 5.2 | 157 | | 13 Su | 0520 | 15.4 | 469 | |
| | 1144 | 6.7 | 205 | | | 0714 | 14.3 | 435 | | | 1115 | 7.3 | 223 | |
| | 1753 | 15.9 | 486 | | | 1305 | 8.2 | 249 | | | 1709 | 15.4 | 470 | |
| | | | | | | 1903 | 14.9 | 453 | | | 2355 | 4.6 | 140 | |
| 14 F | 0032 | 5.7 | 175 | | 14 M | 0157 | 5.0 | 151 | | 14 M | 0635 | 14.7 | 449 | |
| | 0652 | 14.5 | 441 | | | 0847 | 14.8 | 451 | | | 1232 | 8.0 | 244 | |
| | 1246 | 7.6 | 233 | | | 1439 | 8.1 | 247 | | | 1827 | 14.8 | 451 | |
| | 1851 | 15.4 | 470 | | | 2031 | 15.3 | 465 | | | | | | |
| 15 Sa | 0139 | 5.5 | 168 | | 15 Tu | 0317 | 4.0 | 122 | | 15 Tu | 0116 | 4.8 | 146 | |
| | 0812 | 14.6 | 444 | | | 1002 | 16.2 | 493 | | | 0808 | 15.0 | 458 | |
| | 1401 | 8.1 | 246 | | | 1557 | 7.2 | 220 | | | 1406 | 7.9 | 240 | |
| | 2000 | 15.4 | 468 | | | 2144 | 16.4 | 500 | | | 2000 | 15.2 | 462 | |
| | | | | 31 M | 0409 | 3.1 | 96 | | 31 Th | 0423 | 4.3 | 132 | | |
| | | | | | 1049 | 17.1 | 520 | | | 1048 | 17.0 | 517 | | |
| | | | | | 1646 | 6.8 | 208 | | | 1655 | 5.4 | 165 | | |
| | | | | | 2231 | 16.9 | 515 | | | 2256 | 16.8 | 511 | | |

Time meridian 120° E. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
 Heights are referred to the chart datum of soundings.

Xiamen, China, 2011

Times and Heights of High and Low Waters

| April | | | | May | | | | June | | | | | | | | | | | | | | | | | | | | | |
|-----------------|------|--------|-----|------|-----------------|--------|------|------|----|-----------------|------|------|-----|--------|-----------------|------|------|-----|--|-----------------|------|------|-----|--|-----------------|------|------|-----|--|
| Time | | Height | | Time | | Height | | Time | | Height | | Time | | Height | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | | | | | | |
| 1 F | 0508 | 3.9 | 120 | | 16 Sa | 0421 | 3.1 | 95 | | 1 Su | 0512 | 5.0 | 152 | | 16 M | 0452 | 4.1 | 126 | | 1 W | 0006 | 17.7 | 541 | | 16 Th | 0032 | 19.5 | 595 | |
| | 1128 | 17.5 | 532 | | | 1043 | 19.0 | 578 | | | 1118 | 17.1 | 520 | | | 1055 | 18.8 | 574 | | | 0601 | 5.7 | 175 | | | 0629 | 5.3 | 162 | |
| | 1735 | 4.6 | 139 | | | 1653 | 3.0 | 91 | | | 1734 | 3.5 | 108 | | | 1715 | 1.2 | 38 | | | 1150 | 17.0 | 517 | | | 1215 | 18.2 | 555 | |
| | 2339 | 17.5 | 534 | | | 2305 | 19.5 | 594 | | | 2352 | 17.7 | 538 | | | 2347 | 19.9 | 606 | | | 1810 | 2.2 | 66 | | | 1843 | 0.5 | 16 | |
| 2 Sa | 0547 | 3.7 | 114 | | 17 Su | 0513 | 2.8 | 85 | | 2 M | 0552 | 4.9 | 149 | | 17 Tu | 0547 | 4.2 | 129 | | 2 Th | 0046 | 18.2 | 556 | | 17 F | 0120 | 19.6 | 597 | |
| | 1159 | 17.8 | 543 | | | 1128 | 19.5 | 594 | | | 1151 | 17.3 | 527 | | | 1143 | 18.9 | 577 | | | 0642 | 5.6 | 172 | | | 0715 | 5.2 | 160 | |
| | 1804 | 4.0 | 121 | | | 1740 | 1.8 | 54 | | | 1803 | 3.0 | 90 | | | 1804 | 0.6 | 17 | | | 1227 | 17.1 | 522 | | | 1301 | 18.2 | 556 | |
| | | | | 2358 | | 20.4 | 621 | | | | | | | | | | | | | | 1848 | 1.7 | 52 | | | 1929 | 0.8 | 24 | |
| 3 Su | 0014 | 18.0 | 548 | | 18 M | 0603 | 2.9 | 87 | | 3 Tu | 0029 | 18.0 | 550 | | 18 W | 0039 | 20.2 | 615 | | 3 F | 0123 | 18.5 | 563 | | 18 Sa | 0204 | 19.5 | 594 | |
| | 0621 | 3.9 | 118 | | | 1208 | 19.8 | 602 | | | 0631 | 5.0 | 152 | | | 0638 | 4.5 | 136 | | | 0718 | 5.7 | 174 | | | 0800 | 5.2 | 160 | |
| | 1229 | 17.9 | 545 | | | 1822 | 1.0 | 30 | | | 1221 | 17.3 | 527 | | | 1229 | 18.7 | 571 | | | 1301 | 17.4 | 529 | | | 1347 | 18.1 | 553 | |
| | 1836 | 3.4 | 103 | | | | | | | | 1838 | 2.4 | 74 | | | 1853 | 0.2 | 7 | | | 1926 | 1.6 | 48 | | | 2009 | 1.1 | 34 | |
| 4 M | 0048 | 18.3 | 559 | | 19 Tu | 0048 | 20.8 | 633 | | 4 W | 0102 | 18.3 | 558 | | 19 Th | 0128 | 20.0 | 611 | | 4 Sa | 0200 | 18.6 | 568 | | 19 Su | 0245 | 19.2 | 585 | |
| | 0651 | 4.0 | 121 | | | 0651 | 3.2 | 97 | | | 0700 | 5.2 | 157 | | | 0727 | 4.9 | 148 | | | 0755 | 5.5 | 169 | | | 0843 | 5.3 | 161 | |
| | 1254 | 17.9 | 547 | | | 1249 | 19.7 | 600 | | | 1250 | 17.4 | 530 | | | 1311 | 18.5 | 565 | | | 1340 | 17.5 | 533 | | | 1432 | 17.8 | 544 | |
| | 1902 | 3.0 | 92 | | | 1906 | 0.5 | 15 | | | 1907 | 2.2 | 66 | | | 1940 | 0.4 | 11 | | | 2001 | 1.4 | 44 | | | 2052 | 1.7 | 51 | |
| 5 Tu | 0119 | 18.4 | 561 | | 20 W | 0136 | 20.7 | 630 | | 5 Th | 0137 | 18.4 | 561 | | 20 F | 0213 | 19.8 | 602 | | 5 Su | 0239 | 18.7 | 569 | | 20 M | 0322 | 18.7 | 570 | |
| | 0723 | 4.3 | 132 | | | 0739 | 3.7 | 114 | | | 0736 | 5.3 | 161 | | | 0811 | 5.1 | 156 | | | 0837 | 5.5 | 168 | | | 0922 | 5.4 | 164 | |
| | 1319 | 17.8 | 543 | | | 1331 | 19.4 | 590 | | | 1320 | 17.3 | 528 | | | 1356 | 18.2 | 556 | | | 1420 | 17.5 | 532 | | | 1512 | 17.4 | 530 | |
| | 1933 | 2.7 | 81 | | | 1951 | 0.4 | 11 | | | 1941 | 2.0 | 60 | | | 2025 | 0.9 | 27 | | | 2043 | 1.5 | 47 | | | 2134 | 2.5 | 75 | |
| 6 W | 0150 | 18.4 | 562 | | 21 Th | 0222 | 20.1 | 614 | | 6 F | 0209 | 18.3 | 559 | | 21 Sa | 0259 | 19.2 | 586 | | 6 M | 0317 | 18.6 | 566 | | 21 Tu | 0359 | 18.3 | 557 | |
| | 0750 | 4.6 | 139 | | | 0823 | 4.5 | 137 | | | 0805 | 5.5 | 169 | | | 0857 | 5.4 | 165 | | | 0916 | 5.5 | 168 | | | 1001 | 5.3 | 163 | |
| | 1345 | 17.8 | 542 | | | 1410 | 18.8 | 572 | | | 1351 | 17.3 | 528 | | | 1442 | 17.7 | 541 | | | 1503 | 17.4 | 531 | | | 1556 | 16.9 | 515 | |
| | 1959 | 2.5 | 76 | | | 2039 | 0.7 | 22 | | | 2013 | 2.0 | 60 | | | 2108 | 1.5 | 47 | | | 2127 | 2.0 | 60 | | | 2209 | 3.4 | 104 | |
| 7 Th | 0221 | 18.2 | 556 | | 22 F | 0308 | 19.4 | 592 | | 7 Sa | 0245 | 18.2 | 554 | | 22 Su | 0344 | 18.5 | 565 | | 7 Tu | 0359 | 18.4 | 562 | | 22 W | 0438 | 17.7 | 539 | |
| | 0822 | 5.0 | 153 | | | 0907 | 5.1 | 156 | | | 0843 | 5.7 | 173 | | | 0944 | 5.7 | 174 | | | 1001 | 5.3 | 163 | | | 1046 | 5.4 | 164 | |
| | 1411 | 17.6 | 536 | | | 1453 | 18.1 | 551 | | | 1428 | 17.1 | 521 | | | 1530 | 17.1 | 522 | | | 1553 | 17.3 | 526 | | | 1643 | 16.2 | 495 | |
| | 2032 | 2.4 | 73 | | | 2124 | 1.5 | 46 | | | 2050 | 2.0 | 62 | | | 2154 | 2.4 | 73 | | | 2212 | 2.5 | 75 | | | 2253 | 4.3 | 131 | |
| 8 F | 0254 | 18.0 | 549 | | 23 Sa | 0356 | 18.4 | 562 | | 8 Su | 0323 | 17.9 | 545 | | 23 M | 0428 | 17.7 | 540 | | 8 W | 0446 | 18.2 | 556 | | 23 Th | 0516 | 17.0 | 518 | |
| | 0851 | 5.3 | 162 | | | 0956 | 5.8 | 178 | | | 0923 | 6.0 | 183 | | | 1032 | 6.1 | 185 | | | 1054 | 5.2 | 158 | | | 1133 | 5.5 | 169 | |
| | 1442 | 17.4 | 529 | | | 1541 | 17.2 | 524 | | | 1505 | 16.9 | 515 | | | 1618 | 16.3 | 497 | | | 1650 | 17.0 | 518 | | | 1736 | 15.5 | 473 | |
| | 2103 | 2.6 | 78 | | | 2212 | 2.5 | 76 | | | 2135 | 2.4 | 72 | | | 2244 | 3.4 | 105 | | | 2304 | 3.1 | 96 | | | 2341 | 5.3 | 161 | |
| 9 Sa | 0330 | 17.5 | 534 | | 24 Su | 0447 | 17.3 | 528 | | 9 M | 0406 | 17.5 | 534 | | 24 Tu | 0513 | 17.0 | 518 | | 9 Th | 0537 | 17.9 | 547 | | 24 F | 0601 | 16.3 | 498 | |
| | 0931 | 5.8 | 177 | | | 1049 | 6.6 | 200 | | | 1006 | 6.2 | 188 | | | 1122 | 6.4 | 194 | | | 1151 | 5.0 | 151 | | | 1222 | 5.6 | 171 | |
| | 1515 | 16.9 | 515 | | | 1635 | 16.1 | 492 | | | 1553 | 16.5 | 503 | | | 1713 | 15.5 | 473 | | | 1754 | 16.8 | 512 | | | 1836 | 14.9 | 455 | |
| | 2144 | 2.8 | 86 | | | 2306 | 3.6 | 111 | | | 2221 | 3.0 | 90 | | | 2336 | 4.5 | 137 | | | | | | | | | | | |
| 10 Su | 0411 | 16.9 | 515 | | 25 M | 0545 | 16.3 | 496 | | 10 Tu | 0457 | 17.1 | 522 | | 25 W | 0605 | 16.3 | 497 | | 10 F | 0003 | 3.9 | 120 | | 25 Sa | 0036 | 6.2 | 189 | |
| | 1009 | 6.4 | 196 | | | 1149 | 7.2 | 218 | | | 1102 | 6.3 | 193 | | | 1219 | 6.5 | 197 | | | 0633 | 17.7 | 540 | | | 0652 | 15.7 | 479 | |
| | 1557 | 16.3 | 497 | | | 1739 | 15.2 | 462 | | | 1652 | 16.1 | 490 | | | 1818 | 14.9 | 453 | | | 1253 | 4.5 | 137 | | | 1320 | 5.5 | 168 | |
| | 2233 | 3.4 | 103 | | | | | | | | 2318 | 3.5 | 108 | | | | | | | | 1905 | 16.8 | 511 | | | 1944 | 14.7 | 448 | |
| 11 M | 0504 | 16.2 | 493 | | 26 Tu | 0010 | 4.7 | 143 | | 11 W | 0557 | 16.8 | 513 | | 26 Th | 0032 | 5.4 | 165 | | 11 Sa | 0108 | 4.6 | 141 | | 26 Su | 0137 | 6.9 | 210 | |
| | 1104 | 7.1 | 215 | | | 0652 | 15.6 | 476 | | | 1208 | 6.3 | 192 | | | 0701 | 15.8 | 483 | | | 0733 | 17.6 | 536 | | | 0750 | 15.4 | 468 | |
| | 1654 | 15.6 | 475 | | | 1302 | 7.3 | 224 | | | 1803 | 15.8 | 482 | | | 1321 | 6.3 | 192 | | | 1358 | 3.8 | 116 | | | 1422 | 5.2 | 157 | |
| | 2332 | 4.1 | 124 | | | 1857 | 14.6 | 444 | | | | | | | | 1931 | 14.6 | 446 | | | 2019 | 17.1 | 520 | | | 2054 | 15.0 | 456 | |
| 12 Tu | 0613 | 15.6 | 477 | | 27 W | 0122 | 5.4 | 165 | | 12 Th | 0025 | 4.1 | 125 | | 27 F | 0136 | 6.0 | 184 | | 12 Su | 0217 | 5.2 | 157 | | 27 M | 0245 | 7.2 | 218 | |
| | 1218 | 7.4 | 226 | | | 0803 | 15.5 | 473 | | | 0704 | 16.9 | 514 | | | 0801 | 15.6 | 477 | | | 0835 | 17.6 | 537 | | | 0850 | 15.4 | 468 | |
| | 1810 | 15.1 | 461 | | | 1418 | 7.0 | 212 | | | 1320 | 5.8 | 177 | | | 1425 | 5.8 | 178 | | | 1502 | 3.0 | 90 | | | 1521 | 4.5 | 137 | |
| | | | | | | 2020 | 14.7 | 447 | | | 1924 | 16.1 | 491 | | | 2042 | 14.9 | 454 | | | 2133 | 17.7 | 540 | | | 2158 | 15.7 | 478 | |
| 13 W | 0048 | 4.4 | 135 | | 28 Th | 0236 | 5.6 | 170 | | 13 F | 0138 | 4.3 | 132 | | 28 Sa | 0241 | 6.3 | 191 | | 13 M | 0330 | 5.3 | 163 | | 28 Tu | 0349 | 7.1 | 215 | |
| | 0736 | 15.8 | 482 | | | 0906 | 15.9 | 484 | | | 0810 | 17.3 | 527 | | | 0857 | 15.7 | 480 | | | 0935 | 17.8 | 542 | | | 0946 | 15.7 | 479 | |
| | 1344 | 7.0 | 214 | | | 1524 | 6.1 | 187 | | | 1431 | 4.8 | 145 | | | 1522 | 5.1 | 156 | | | 1603 | 2.0 | 62 | | | 1614 | 3.6 | 111 | |
| | 1942 | 15.5 | 473 | | | 2131 | 15.4 | 468 | | | 2042 | 17.0 | 518 | | | 2145 | | | | | | | | | | | | | |

Xiamen, China, 2011

Times and Heights of High and Low Waters

| July | | | | August | | | | September | | | | | | | | | | | | | | | |
|--------------------|--------|------|------|-----------------|------|------|--------|-----------------|------|--------|-----|-----------------|--------|------|-----|-----------------|------|------|-----|-----------------|------|------|-----|
| Time | Height | | Time | Height | | Time | Height | | Time | Height | | Time | Height | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | |
| 1 F ● | 0025 | 18.3 | 558 | 16 Sa | 0107 | 19.5 | 593 | 1 M | 0122 | 20.2 | 615 | 16 Tu | 0149 | 19.4 | 591 | 1 Th | 0203 | 21.1 | 643 | 16 F | 0202 | 19.0 | 579 |
| | 0618 | 5.9 | 179 | | 0701 | 5.2 | 160 | | 0717 | 4.4 | 134 | | 0747 | 4.4 | 135 | | 0810 | 2.2 | 66 | | 0814 | 3.5 | 106 |
| | 1204 | 17.5 | 532 | | 1253 | 18.4 | 562 | | 1313 | 19.7 | 599 | | 1350 | 18.9 | 576 | | 1425 | 21.1 | 643 | | 1430 | 19.0 | 579 |
| | 1829 | 1.5 | 45 | | 1913 | 1.3 | 39 | | 1931 | 1.0 | 30 | | 1959 | 3.0 | 92 | | 2032 | 2.7 | 83 | | 2034 | 4.8 | 147 |
| 2 Sa | 0106 | 18.9 | 577 | 17 Su | 0147 | 19.5 | 593 | 2 Tu | 0200 | 20.5 | 625 | 17 W | 0216 | 19.2 | 584 | 2 F | 0241 | 20.8 | 633 | 17 Sa | 0231 | 18.7 | 571 |
| | 0659 | 5.4 | 166 | | 0744 | 5.0 | 153 | | 0757 | 3.8 | 116 | | 0819 | 4.3 | 130 | | 0854 | 1.9 | 57 | | 0845 | 3.4 | 103 |
| | 1247 | 18.0 | 548 | | 1335 | 18.5 | 563 | | 1358 | 20.0 | 610 | | 1424 | 18.7 | 569 | | 1512 | 20.6 | 629 | | 1502 | 18.6 | 568 |
| | 1907 | 1.1 | 34 | | 1952 | 1.6 | 50 | | 2010 | 1.3 | 41 | | 2032 | 3.5 | 106 | | 2116 | 3.7 | 113 | | 2102 | 5.5 | 167 |
| 3 Su | 0146 | 19.4 | 590 | 18 M | 0221 | 19.2 | 586 | 3 W | 0238 | 20.5 | 626 | 18 Th | 0244 | 19.0 | 578 | 3 Sa | 0319 | 20.1 | 613 | 18 Su | 0258 | 18.3 | 558 |
| | 0742 | 5.1 | 156 | | 0818 | 5.0 | 152 | | 0841 | 3.3 | 101 | | 0848 | 4.0 | 122 | | 0942 | 2.0 | 61 | | 0919 | 3.6 | 111 |
| | 1331 | 18.3 | 564 | | 1412 | 18.3 | 557 | | 1445 | 20.0 | 611 | | 1457 | 18.5 | 563 | | 1602 | 19.8 | 603 | | 1539 | 18.1 | 551 |
| | 1950 | 1.0 | 30 | | 2030 | 2.2 | 66 | | 2054 | 1.9 | 58 | | 2101 | 4.1 | 126 | | 2203 | 4.8 | 145 | | 2139 | 6.1 | 185 |
| 4 M | 0225 | 19.5 | 594 | 19 Tu | 0253 | 19.0 | 580 | 4 Th | 0314 | 20.3 | 619 | 19 F | 0311 | 18.6 | 567 | 4 Su | 0402 | 19.3 | 587 | 19 M | 0332 | 17.7 | 541 |
| | 0821 | 4.9 | 150 | | 0852 | 4.8 | 145 | | 0922 | 3.1 | 95 | | 0924 | 4.0 | 122 | | 1033 | 2.5 | 77 | | 0955 | 4.0 | 121 |
| | 1412 | 18.5 | 564 | | 1450 | 18.1 | 551 | | 1533 | 19.8 | 603 | | 1535 | 18.0 | 548 | | 1657 | 18.6 | 567 | | 1618 | 17.3 | 526 |
| | 2033 | 1.2 | 37 | | 2100 | 2.9 | 87 | | 2140 | 2.7 | 83 | | 2137 | 4.8 | 145 | | 2257 | 6.0 | 182 | | 2219 | 6.9 | 211 |
| 5 Tu | 0303 | 19.6 | 597 | 20 W | 0324 | 18.6 | 568 | 5 F | 0353 | 19.9 | 608 | 20 Sa | 0342 | 18.1 | 552 | 5 M | 0452 | 18.1 | 553 | 20 Tu | 0408 | 17.0 | 517 |
| | 0902 | 4.5 | 137 | | 0930 | 4.7 | 144 | | 1007 | 2.8 | 86 | | 0956 | 4.1 | 124 | | 1131 | 3.3 | 102 | | 1043 | 4.5 | 137 |
| | 1458 | 18.6 | 567 | | 1530 | 17.6 | 536 | | 1622 | 19.1 | 583 | | 1611 | 17.3 | 527 | | 1801 | 17.4 | 530 | | 1708 | 16.4 | 501 |
| | 2112 | 1.7 | 52 | | 2138 | 3.5 | 107 | | 2227 | 3.9 | 120 | | 2211 | 5.7 | 174 | | 2359 | 7.1 | 217 | | 2308 | 7.7 | 234 |
| 6 W | 0343 | 19.5 | 595 | 21 Th | 0355 | 18.2 | 556 | 6 Sa | 0437 | 19.3 | 587 | 21 Su | 0414 | 17.4 | 529 | 6 Tu | 0555 | 17.0 | 518 | 21 W | 0459 | 16.2 | 493 |
| | 0948 | 4.2 | 127 | | 1001 | 4.6 | 140 | | 1058 | 2.8 | 86 | | 1039 | 4.4 | 133 | | 1239 | 4.1 | 125 | | 1139 | 5.1 | 156 |
| | 1547 | 18.5 | 564 | | 1607 | 17.1 | 521 | | 1718 | 18.2 | 556 | | 1655 | 16.5 | 502 | | 1920 | 16.6 | 507 | | 1815 | 15.8 | 483 |
| | 2158 | 2.3 | 71 | | 2212 | 4.4 | 135 | | 2315 | 5.2 | 157 | | 2252 | 6.6 | 201 | | | | | | | | |
| 7 Th | 0424 | 19.2 | 585 | 22 F | 0429 | 17.6 | 536 | 7 Su | 0524 | 18.2 | 556 | 22 M | 0453 | 16.6 | 505 | 7 W | 0121 | 7.8 | 238 | 22 Th | 0016 | 8.3 | 252 |
| | 1036 | 3.9 | 120 | | 1043 | 4.7 | 143 | | 1155 | 3.1 | 96 | | 1123 | 4.9 | 149 | | 0716 | 16.3 | 497 | | 0609 | 15.6 | 476 |
| | 1641 | 18.2 | 554 | | 1652 | 16.4 | 500 | | 1822 | 17.3 | 527 | | 1750 | 15.6 | 475 | | 1400 | 4.5 | 136 | | 1252 | 5.4 | 165 |
| | 2247 | 3.2 | 97 | | 2251 | 5.3 | 163 | | | | | | 2346 | 7.5 | 230 | | 2047 | 16.8 | 513 | | 1939 | 15.9 | 486 |
| 8 F | 0508 | 18.8 | 573 | 23 Sa | 0505 | 16.9 | 514 | 8 M | 0016 | 6.3 | 192 | 23 Tu | 0544 | 15.7 | 480 | 8 Th | 0248 | 7.6 | 232 | 23 F | 0143 | 8.2 | 249 |
| | 1126 | 3.8 | 116 | | 1128 | 5.0 | 152 | | 0623 | 17.3 | 526 | | 1222 | 5.2 | 160 | | 0844 | 16.6 | 505 | | 0738 | 15.9 | 484 |
| | 1739 | 17.7 | 539 | | 1743 | 15.6 | 476 | | 1302 | 3.5 | 108 | | 1901 | 15.1 | 459 | | 1519 | 4.2 | 128 | | 1412 | 5.1 | 154 |
| | 2341 | 4.2 | 129 | | 2340 | 6.3 | 193 | | 1941 | 16.7 | 508 | | | | | | 2158 | 17.7 | 538 | | 2056 | 17.0 | 518 |
| 9 Sa | 0558 | 18.2 | 555 | 24 Su | 0549 | 16.1 | 490 | 9 Tu | 0135 | 7.1 | 217 | 24 W | 0054 | 8.2 | 251 | 9 F | 0401 | 6.8 | 207 | 24 Sa | 0301 | 7.2 | 220 |
| | 1222 | 3.6 | 110 | | 1217 | 5.2 | 158 | | 0737 | 16.6 | 507 | | 0652 | 15.3 | 465 | | 0956 | 17.4 | 529 | | 0856 | 17.0 | 518 |
| | 1845 | 17.2 | 524 | | 1844 | 14.9 | 455 | | 1419 | 3.6 | 110 | | 1337 | 5.2 | 159 | | 1622 | 3.7 | 112 | | 1523 | 4.2 | 127 |
| | | | | | | | | | 2104 | 16.8 | 513 | | 2026 | 15.4 | 468 | | 2253 | 18.5 | 564 | | 2157 | 18.4 | 561 |
| 10 Su | 0043 | 5.3 | 163 | 25 M | 0037 | 7.3 | 222 | 10 W | 0258 | 7.3 | 222 | 25 Th | 0219 | 8.3 | 252 | 10 Sa | 0456 | 5.8 | 177 | 25 Su | 0403 | 5.8 | 178 |
| | 0655 | 17.6 | 535 | | 0643 | 15.4 | 469 | | 0856 | 16.7 | 508 | | 0814 | 15.5 | 472 | | 1053 | 18.2 | 555 | | 1000 | 18.5 | 565 |
| | 1329 | 3.4 | 104 | | 1319 | 5.2 | 159 | | 1535 | 3.1 | 96 | | 1453 | 4.6 | 140 | | 1711 | 3.2 | 99 | | 1621 | 3.2 | 98 |
| | 1959 | 16.9 | 516 | | 1957 | 14.8 | 450 | | 2218 | 17.7 | 538 | | 2140 | 16.5 | 503 | | 2338 | 19.1 | 582 | | 2247 | 19.7 | 601 |
| 11 M | 0152 | 6.1 | 187 | 26 Tu | 0146 | 7.8 | 239 | 11 Th | 0415 | 6.8 | 206 | 26 F | 0337 | 7.5 | 228 | 11 Su | 0542 | 5.0 | 153 | 26 M | 0454 | 4.4 | 133 |
| | 0800 | 17.1 | 522 | | 0749 | 15.1 | 460 | | 1008 | 17.3 | 526 | | 0929 | 16.5 | 503 | | 1140 | 18.9 | 575 | | 1055 | 20.0 | 611 |
| | 1439 | 3.0 | 91 | | 1428 | 4.9 | 148 | | 1639 | 2.6 | 78 | | 1558 | 3.5 | 108 | | 1753 | 3.1 | 95 | | 1710 | 2.5 | 77 |
| | 2116 | 17.2 | 524 | | 2113 | 15.3 | 466 | | 2317 | 18.5 | 565 | | 2239 | 17.9 | 547 | | | | | | 2331 | 20.6 | 629 |
| 12 Tu | 0309 | 6.5 | 198 | 27 W | 0302 | 7.8 | 238 | 12 F | 0515 | 6.0 | 184 | 27 Sa | 0437 | 6.3 | 193 | 12 M | 0013 | 19.3 | 589 | 27 Tu | 0538 | 3.1 | 95 |
| | 0910 | 17.1 | 520 | | 0858 | 15.4 | 470 | | 1107 | 18.0 | 548 | | 1030 | 17.8 | 544 | | 0615 | 4.6 | 140 | | 1145 | 21.2 | 645 |
| | 1547 | 2.4 | 73 | | 1535 | 4.1 | 124 | | 1733 | 2.1 | 64 | | 1652 | 2.5 | 75 | | 1218 | 19.2 | 584 | | 1756 | 2.3 | 70 |
| | 2229 | 17.9 | 545 | | 2218 | 16.3 | 498 | | | | | | 2328 | 19.3 | 587 | | 1832 | 3.2 | 99 | | ● | | |
| 13 W | 0423 | 6.3 | 193 | 28 Th | 0410 | 7.3 | 222 | 13 Sa | 0006 | 19.2 | 585 | 28 Su | 0525 | 5.2 | 160 | 13 Tu | 0044 | 19.4 | 592 | 28 W | 0009 | 21.2 | 645 |
| | 1017 | 17.4 | 529 | | 1000 | 16.2 | 494 | | 0602 | 5.4 | 164 | | 1120 | 19.2 | 585 | | 0647 | 4.1 | 126 | | 0618 | 2.2 | 66 |
| | 1649 | 1.7 | 53 | | 1632 | 3.1 | 93 | | 1156 | 18.6 | 566 | | 1740 | 1.7 | 52 | | 1253 | 19.4 | 590 | | 1233 | 21.8 | 665 |
| | 2331 | 18.6 | 568 | | 2312 | 17.6 | 536 | | 1815 | 2.0 | 61 | | | | | | 1900 | 3.6 | 111 | | 1842 | 2.5 | 75 |
| 14 Th | 0526 | 5.9 | 181 | 29 F | 0505 | 6.5 | 198 | 14 Su | 0046 | 19.5 | 594 | 29 M | 0009 | 20.3 | 619 | 14 W | 0110 | 19.3 | 588 | 29 Th | 0048 | 21.4 | 651 |
| | 1115 | 17.8 | 543 | | 1055 | 17.2 | 525 | | 0644 | 4.9 | 150 | | 0607 | 4.2 | 127 | | 0716 | 3.9 | 119 | | 0701 | 1.4 | 44 |
| | 1744 | 1.3 | 39 | | 1720 | 2.1 | 65 | | 1239 | 18.9 | 575 | | 1207 | 20.3 | 619 | | 1326 | 19.3 | 589 | | 1318 | 21.9 | 668 |
| | | | | | 2359 | 18.8 | 572 | | 1854 | 2.1 | 65 | | ● | 1824 | 1.4 | | 44 | 1934 | 3.9 | | 120 | 1928 | 3.1 | 94 |
| 15 F | 0023 | 19.2 | 585 | 30 Sa | 0553 | 5.7 | 173 | 15 M | 0119 | 19.4 | 592 | 30 Tu | 0049 | 20.9 | 638 | 15 Th | 0138 | 19.2 | 585 | 30 F | 0127 | 21.1 | 642 |
| | 0617 | 5.5 | 169 | | 1144 | 18.3 | 557 | | 0717 | 4.7 | 144 | | 0648 | 3.3 | 101 | | 0745 | 3.6 | 109 | | 0745 | 1.1 | 33 |
| | 1207 | 18.2 | 555 | | 1805 | 1.3 | 41 | | 1315 | 18.9 | 576 | | 1254 | 21.0 | 641 | | 1356 | 19.3 | 588 | | 1405 | 21.7 | 660 |

Xiamen, China, 2011

Times and Heights of High and Low Waters

| October | | | | November | | | | December | | | | | | | | | | | | | | | | | | | | | |
|-----------------|------|------|--------|----------|-----------------|------|------|----------|----|-----------------|------|------|--------|----|-----------------|------|------|-----|--|-----------------|------|------|-----|------|-----------------|------|------|-----|--|
| | Time | | Height | | | Time | | Height | | | Time | | Height | | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | | | | | | |
| 1 Sa | 0205 | 20.7 | 630 | | 16 Su | 0153 | 18.6 | 567 | | 1 Tu | 0310 | 18.7 | 569 | | 16 W | 0238 | 17.9 | 545 | | 1 Th | 0345 | 17.7 | 538 | | 16 F | 0310 | 17.8 | 544 | |
| | 0831 | 1.1 | 34 | | | 0816 | 3.0 | 90 | | | 0950 | 2.5 | 77 | | | 0907 | 3.0 | 92 | | | 1014 | 3.7 | 112 | | | 0939 | 2.8 | 86 | |
| | 1453 | 21.0 | 640 | | | 1438 | 19.0 | 579 | | | 1616 | 18.9 | 576 | | | 1535 | 18.5 | 563 | | | 1640 | 18.3 | 557 | | | 1600 | 18.8 | 573 | |
| | 2057 | 4.7 | 142 | | | 2040 | 5.9 | 180 | | | 2225 | 6.7 | 204 | | | 2143 | 6.5 | 198 | | | 2254 | 6.4 | 194 | | | 2213 | 5.5 | 168 | |
| 2 Su | 0248 | 20.0 | 609 | | 17 M | 0224 | 18.2 | 556 | | 2 W | 0405 | 17.7 | 538 | | 17 Th | 0321 | 17.4 | 530 | | 2 F | 0441 | 16.7 | 509 | | 17 Sa | 0401 | 17.5 | 533 | |
| | 0916 | 1.6 | 50 | | | 0849 | 3.1 | 95 | | | 1045 | 3.8 | 115 | | | 0952 | 3.5 | 107 | | | 1104 | 4.8 | 147 | | | 1025 | 3.6 | 111 | |
| | 1544 | 20.0 | 609 | | | 1511 | 18.5 | 565 | | | 1712 | 17.9 | 546 | | | 1619 | 18.1 | 551 | | | 1729 | 17.5 | 533 | | | 1647 | 18.5 | 565 | |
| | 2147 | 5.6 | 171 | | | 2114 | 6.5 | 197 | | | 2325 | 7.3 | 222 | | | 2233 | 6.7 | 204 | | | 2352 | 6.6 | 202 | | | 2306 | 5.3 | 162 | |
| 3 M | 0335 | 19.0 | 580 | | 18 Tu | 0257 | 17.8 | 543 | | 3 Th | 0509 | 16.6 | 507 | | 18 F | 0413 | 16.9 | 515 | | 3 Sa | 0545 | 15.8 | 483 | | 18 Su | 0501 | 17.1 | 521 | |
| | 1007 | 2.5 | 75 | | | 0930 | 3.5 | 107 | | | 1145 | 5.0 | 152 | | | 1045 | 4.2 | 128 | | | 1202 | 5.9 | 180 | | | 1118 | 4.5 | 136 | |
| | 1638 | 18.7 | 571 | | | 1552 | 18.0 | 548 | | | 1815 | 17.2 | 524 | | | 1712 | 17.7 | 541 | | | 1824 | 16.9 | 515 | | | 1739 | 18.2 | 555 | |
| | 2242 | 6.7 | 203 | | | 2155 | 6.9 | 210 | | | 2325 | 7.3 | 222 | | | 2331 | 6.8 | 206 | | | 2352 | 6.6 | 202 | | | 2306 | 5.3 | 162 | |
| 4 Tu | 0428 | 17.8 | 543 | | 19 W | 0339 | 17.2 | 525 | | 4 F | 0033 | 7.4 | 227 | | 19 Sa | 0520 | 16.5 | 503 | | 4 Su | 0055 | 6.6 | 200 | | 19 M | 0007 | 5.1 | 154 | |
| | 1106 | 3.6 | 110 | | | 1010 | 4.1 | 126 | | | 0627 | 15.9 | 486 | | | 1146 | 4.9 | 148 | | | 0657 | 15.4 | 468 | | | 0610 | 16.8 | 512 | |
| | 1740 | 17.6 | 535 | | | 1640 | 17.3 | 528 | | | 1254 | 5.9 | 179 | | | 1815 | 17.7 | 538 | | | 1306 | 6.7 | 205 | | | 1219 | 5.3 | 161 | |
| | 2346 | 7.5 | 230 | | | 2247 | 7.4 | 227 | | | 1924 | 16.9 | 516 | | | 2030 | 17.1 | 522 | | | 1925 | 16.6 | 505 | | | 1838 | 18.0 | 549 | |
| 5 W | 0534 | 16.8 | 511 | | 20 Th | 0432 | 16.5 | 504 | | 5 Sa | 0148 | 7.1 | 217 | | 20 Su | 0040 | 6.4 | 194 | | 5 M | 0201 | 6.2 | 189 | | 20 Tu | 0113 | 4.6 | 139 | |
| | 1215 | 4.7 | 144 | | | 1106 | 4.8 | 146 | | | 0749 | 15.9 | 486 | | | 0638 | 16.6 | 506 | | | 0813 | 15.5 | 471 | | | 0728 | 16.9 | 514 | |
| | 1855 | 16.9 | 514 | | | 1742 | 16.8 | 512 | | | 1406 | 6.3 | 191 | | | 1255 | 5.2 | 160 | | | 1414 | 7.1 | 217 | | | 1332 | 5.9 | 179 | |
| | | | | | | 2352 | 7.8 | 237 | | | 2030 | 17.1 | 522 | | | 1921 | 17.9 | 546 | | | 2025 | 16.6 | 505 | | | 1941 | 18.0 | 548 | |
| 6 Th | 0103 | 7.9 | 241 | | 21 F | 0541 | 16.1 | 490 | | 6 Su | 0256 | 6.4 | 194 | | 21 M | 0150 | 5.5 | 167 | | 6 Tu | 0302 | 5.5 | 167 | | 21 W | 0223 | 3.7 | 114 | |
| | 0657 | 16.2 | 493 | | | 1215 | 5.3 | 161 | | | 0901 | 16.5 | 502 | | | 0756 | 17.3 | 527 | | | 0921 | 16.0 | 488 | | | 0846 | 17.5 | 532 | |
| | 1336 | 5.3 | 162 | | | 1856 | 16.8 | 513 | | | 1511 | 6.2 | 189 | | | 1407 | 5.3 | 162 | | | 1519 | 7.1 | 216 | | | 1445 | 6.1 | 186 | |
| | 2014 | 16.9 | 516 | | | | | | | | 2125 | 17.5 | 534 | | | 2024 | 18.5 | 564 | | | 2119 | 16.8 | 512 | | | 2045 | 18.2 | 555 | |
| 7 F | 0228 | 7.5 | 229 | | 22 Sa | 0110 | 7.5 | 230 | | 7 M | 0351 | 5.4 | 164 | | 22 Tu | 0255 | 4.2 | 128 | | 7 W | 0355 | 4.6 | 140 | | 22 Th | 0329 | 2.7 | 81 | |
| | 0824 | 16.4 | 499 | | | 0705 | 16.3 | 496 | | | 1001 | 17.3 | 526 | | | 0908 | 18.4 | 560 | | | 1017 | 16.8 | 512 | | | 0956 | 18.4 | 560 | |
| | 1451 | 5.3 | 161 | | | 1334 | 5.2 | 160 | | | 1606 | 5.9 | 181 | | | 1515 | 5.1 | 156 | | | 1615 | 6.8 | 208 | | | 1555 | 6.0 | 182 | |
| | 2121 | 17.5 | 534 | | | 2008 | 17.6 | 535 | | | 2210 | 17.9 | 546 | | | 2120 | 19.2 | 584 | | | 2205 | 17.1 | 522 | | | 2146 | 18.6 | 567 | |
| 8 Sa | 0337 | 6.6 | 200 | | 23 Su | 0228 | 6.5 | 199 | | 8 Tu | 0437 | 4.5 | 136 | | 23 W | 0353 | 2.8 | 85 | | 8 Th | 0441 | 3.7 | 114 | | 23 F | 0428 | 1.6 | 49 | |
| | 0936 | 17.2 | 524 | | | 0826 | 17.3 | 527 | | | 1050 | 18.0 | 550 | | | 1011 | 19.5 | 595 | | | 1105 | 17.6 | 537 | | | 1059 | 19.3 | 587 | |
| | 1554 | 4.9 | 150 | | | 1446 | 4.8 | 145 | | | 1653 | 5.7 | 173 | | | 1616 | 4.8 | 147 | | | 1702 | 6.5 | 198 | | | 1658 | 5.6 | 172 | |
| | 2214 | 18.2 | 554 | | | 2110 | 18.6 | 568 | | | 2249 | 18.2 | 556 | | | 2211 | 19.8 | 602 | | | 2247 | 17.5 | 534 | | | 2243 | 19.0 | 579 | |
| 9 Su | 0430 | 5.5 | 169 | | 24 M | 0331 | 5.0 | 152 | | 9 W | 0513 | 3.7 | 114 | | 24 Th | 0446 | 1.5 | 46 | | 9 F | 0520 | 3.1 | 93 | | 24 Sa | 0523 | 0.8 | 25 | |
| | 1032 | 18.0 | 550 | | | 0935 | 18.8 | 572 | | | 1132 | 18.6 | 568 | | | 1108 | 20.5 | 624 | | | 1147 | 18.3 | 557 | | | 1155 | 19.9 | 608 | |
| | 1645 | 4.6 | 139 | | | 1549 | 4.1 | 125 | | | 1735 | 5.5 | 169 | | | 1712 | 4.7 | 142 | | | 1746 | 6.2 | 188 | | | 1755 | 5.3 | 163 | |
| | 2257 | 18.7 | 570 | | | 2202 | 19.7 | 601 | | | 2324 | 18.4 | 560 | | | 2300 | 20.1 | 613 | | | 2325 | 17.8 | 542 | | | 2336 | 19.3 | 588 | |
| 10 M | 0510 | 4.7 | 143 | | 25 Tu | 0422 | 3.5 | 107 | | 10 Th | 0548 | 3.1 | 94 | | 25 F | 0535 | 0.6 | 19 | | 10 Sa | 0556 | 2.4 | 73 | | 25 Su | 0612 | 0.4 | 12 | |
| | 1116 | 18.7 | 569 | | | 1033 | 20.2 | 615 | | | 1207 | 19.0 | 580 | | | 1201 | 21.0 | 641 | | | 1224 | 18.7 | 570 | | | 1246 | 20.3 | 618 | |
| | 1728 | 4.5 | 138 | | | 1643 | 3.6 | 110 | | | 1808 | 5.6 | 170 | | | 1804 | 4.6 | 141 | | | 1824 | 6.1 | 185 | | | 1846 | 5.2 | 157 | |
| | 2334 | 19.0 | 579 | | | 2249 | 20.5 | 625 | | | 2355 | 18.5 | 564 | | | 2347 | 20.2 | 616 | | | 2359 | 18.1 | 551 | | | | | | |
| 11 Tu | 0546 | 4.0 | 123 | | 26 W | 0508 | 2.1 | 65 | | 11 F | 0620 | 2.8 | 84 | | 26 Sa | 0622 | 0.2 | 7 | | 11 Su | 0634 | 2.0 | 61 | | 26 M | 0024 | 19.3 | 589 | |
| | 1155 | 19.2 | 584 | | | 1124 | 21.2 | 645 | | | 1243 | 19.3 | 588 | | | 1252 | 21.2 | 645 | | | 1259 | 19.1 | 581 | | | 0700 | 0.4 | 12 | |
| | 1801 | 4.5 | 137 | | | 1733 | 3.5 | 106 | | | 1844 | 5.6 | 170 | | | 1854 | 4.8 | 147 | | | 1857 | 5.9 | 179 | | | 1331 | 20.2 | 617 | |
| | | | | | | 2332 | 20.9 | 638 | | | | | | | | | | | | | | | | 1933 | | 5.0 | 153 | | |
| 12 W | 0003 | 19.1 | 581 | | 27 Th | 0554 | 1.1 | 33 | | 12 Sa | 0026 | 18.5 | 563 | | 27 Su | 0034 | 20.1 | 612 | | 12 M | 0036 | 18.3 | 557 | | 27 Tu | 0109 | 19.3 | 587 | |
| | 0616 | 3.6 | 110 | | | 1213 | 21.8 | 663 | | | 0651 | 2.4 | 74 | | | 0709 | 0.2 | 5 | | | 0705 | 1.8 | 56 | | | 0746 | 0.7 | 22 | |
| | 1231 | 19.4 | 592 | | | 1820 | 3.7 | 112 | | | 1314 | 19.3 | 589 | | | 1340 | 20.9 | 638 | | | 1334 | 19.2 | 585 | | | 1411 | 20.0 | 610 | |
| | 1836 | 4.6 | 141 | | | | | | | | 1916 | 5.8 | 177 | | | 1944 | 5.1 | 154 | | | 1936 | 5.8 | 176 | | | 2013 | 5.1 | 156 | |
| 13 Th | 0033 | 19.0 | 580 | | 28 F | 0012 | 21.0 | 639 | | 13 Su | 0055 | 18.5 | 564 | | 28 M | 0119 | 19.7 | 599 | | 13 Tu | 0108 | 18.3 | 558 | | 28 W | 0154 | 19.0 | 579 | |
| | 0646 | 3.2 | 98 | | | 0638 | 0.5 | 16 | | | 0725 | 2.4 | 73 | | | 0756 | 0.6 | 19 | | | 0742 | 1.8 | 54 | | | 0828 | 1.5 | 47 | |
| | 1302 | 19.5 | 595 | | | 1302 | 21.9 | 666 | | | 1347 | 19.3 | 588 | | | 1425 | 20.4 | 622 | | | 1407 | 19.2 | 585 | | | 1450 | 19.7 | 599 | |
| | 1905 | 5.0 | 151 | | | 1907 | 4.0 | 123 | | | 1949 | 5.9 | 179 | | | | | | | | | | | | | | | | |

Shantou, China, 2011

Times and Heights of High and Low Waters

| January | | | | February | | | | March | | | | | | | | | | | | | | | |
|-----------------|------|--------|-----------|-----------------|------|--------|-----|-----------------|------|--------|------|-----------------|------|--------|------|-----------------|------|------|------|-----------------|------|------|-----|
| Time | | Height | | Time | | Height | | Time | | Height | | Time | | Height | | | | | | | | | |
| | h m | ft | cm | | h m | ft | cm | | h m | ft | cm | | h m | ft | cm | | | | | | | | |
| 1 Sa | 0355 | 1.5 | 46 | 16 Su | 0334 | 2.0 | 61 | 1 Tu | 0541 | 1.1 | 33 | 16 W | 0450 | 1.2 | 37 | 1 Tu | 0424 | 1.5 | 47 | | | | |
| | 1156 | 6.2 | 190 | | 1151 | 5.6 | 170 | | 1400 | 6.4 | 195 | | 1312 | 6.2 | 190 | | 1252 | 6.0 | 183 | 0310 | 1.6 | 49 | |
| | 1544 | 4.7 | 142 | | 1521 | 4.7 | 144 | | 1753 | 4.6 | 140 | | 1702 | 4.5 | 136 | | 1657 | 4.4 | 134 | 1143 | 5.9 | 180 | |
| | 2039 | 6.2 | 188 | | 1958 | 5.8 | 177 | | 2204 | 5.6 | 172 | | 2111 | 5.8 | 176 | | 2108 | 5.3 | 162 | 1543 | 4.4 | 133 | |
| 2 Su | 0453 | 1.2 | 37 | 17 M | 0428 | 1.6 | 48 | 2 W | 0628 | 1.1 | 33 | 17 Th | 0542 | 1.1 | 33 | 2 W | 0521 | 1.5 | 47 | 17 Th | 0415 | 1.6 | 48 |
| | 1304 | 6.6 | 200 | | 1251 | 6.0 | 183 | | 1442 | 6.5 | 198 | | 1358 | 6.5 | 198 | | 1343 | 6.1 | 186 | | 1239 | 6.2 | 188 |
| | 1647 | 4.9 | 148 | | 1632 | 4.8 | 146 | | 1838 | 4.4 | 135 | | 1751 | 4.2 | 127 | | 1751 | 4.1 | 126 | | 1643 | 4.0 | 122 |
| | 2121 | 6.1 | 186 | | 2042 | 5.8 | 178 | | 2251 | 5.6 | 170 | | 2207 | 5.9 | 179 | | 2107 | 5.5 | 169 | | 2107 | 5.5 | 169 |
| 3 M | 0547 | 1.0 | 29 | 18 Tu | 0519 | 1.2 | 37 | 3 Th | 0704 | 1.2 | 37 | 18 F | 0629 | 1.1 | 34 | 3 Th | 0032 | 5.2 | 160 | 18 F | 0513 | 1.6 | 49 |
| | 1401 | 6.8 | 207 | | 1339 | 6.4 | 195 | | 1511 | 6.5 | 197 | | 1438 | 6.6 | 201 | | 0608 | 1.6 | 49 | | 1323 | 6.3 | 192 |
| | 1752 | 4.9 | 149 | | 1724 | 4.8 | 145 | | 1912 | 4.2 | 128 | | 1832 | 3.8 | 116 | | 1417 | 6.1 | 187 | | 1732 | 3.5 | 107 |
| | 2210 | 6.1 | 185 | | 2130 | 5.9 | 181 | | ● | ○ | 1826 | | 3.9 | 118 | 1826 | | 3.9 | 118 | 1826 | | 3.9 | 118 | |
| 4 Tu | 0631 | 0.9 | 28 | 19 W | 0604 | 1.0 | 29 | 4 F | 0149 | 5.5 | 168 | 19 Sa | 0139 | 5.8 | 176 | 4 F | 0137 | 5.4 | 165 | 19 Sa | 0053 | 5.7 | 175 |
| | 1448 | 6.9 | 210 | | 1421 | 6.7 | 204 | | 0738 | 1.4 | 43 | | 0708 | 1.3 | 40 | | 0646 | 1.8 | 54 | | 0601 | 1.8 | 55 |
| | 1835 | 4.9 | 148 | | 1811 | 4.6 | 141 | | 1536 | 6.4 | 195 | | 1511 | 6.6 | 201 | | 1445 | 6.1 | 186 | | 1401 | 6.3 | 192 |
| | 2256 | 6.0 | 183 | | 2220 | 6.0 | 184 | | 1942 | 4.0 | 121 | | 1917 | 3.4 | 103 | | 1858 | 3.6 | 109 | | 1817 | 3.0 | 91 |
| 5 W | 0713 | 1.0 | 30 | 20 Th | 0647 | 0.9 | 26 | 5 Sa | 0246 | 5.6 | 172 | 20 Su | 0245 | 6.0 | 184 | 5 Sa | 0217 | 5.5 | 169 | 20 Su | 0157 | 6.1 | 187 |
| | 1523 | 6.9 | 210 | | 1500 | 6.9 | 209 | | 0807 | 1.6 | 50 | | 0749 | 1.7 | 51 | | 0715 | 2.0 | 61 | | 0644 | 2.1 | 65 |
| | 1917 | 4.7 | 144 | | 1853 | 4.4 | 135 | | 1558 | 6.4 | 195 | | 1545 | 6.5 | 199 | | 1503 | 6.0 | 183 | | 1437 | 6.2 | 189 |
| | 2335 | 5.9 | 181 | | 2310 | 6.1 | 186 | | 2011 | 3.7 | 113 | | 2000 | 3.0 | 90 | | 1926 | 3.3 | 102 | | 1856 | 2.4 | 74 |
| 6 Th | 0754 | 1.1 | 35 | 21 F | 0731 | 0.9 | 27 | 6 Su | 0334 | 5.7 | 175 | 21 M | 0343 | 6.3 | 191 | 6 Su | 0253 | 5.8 | 176 | 21 M | 0253 | 6.5 | 198 |
| | 1556 | 6.9 | 209 | | 1537 | 6.9 | 210 | | 0839 | 1.9 | 57 | | 0832 | 2.1 | 63 | | 0747 | 2.3 | 69 | | 0728 | 2.5 | 77 |
| | 1956 | 4.5 | 138 | | 1933 | 4.2 | 128 | | 1620 | 6.3 | 192 | | 1615 | 6.4 | 196 | | 1524 | 5.9 | 180 | | 1504 | 6.1 | 185 |
| | | | | | 2048 | 3.4 | 103 | | 2048 | 2.5 | 75 | | 2048 | 2.5 | 75 | | 1950 | 3.0 | 92 | | 1941 | 1.9 | 58 |
| 7 F | 0021 | 5.8 | 178 | 22 Sa | 0001 | 6.0 | 184 | 7 M | 0408 | 5.7 | 174 | 22 Tu | 0437 | 6.3 | 193 | 7 M | 0333 | 5.9 | 180 | 22 Tu | 0344 | 6.7 | 204 |
| | 0826 | 1.3 | 40 | | 0812 | 1.1 | 35 | | 0905 | 2.2 | 66 | | 0914 | 2.5 | 75 | | 0813 | 2.5 | 76 | | 0809 | 3.0 | 90 |
| | 1623 | 6.8 | 208 | | 1613 | 6.9 | 211 | | 1646 | 6.3 | 192 | | 1652 | 6.3 | 193 | | 1544 | 5.9 | 180 | | 1541 | 6.0 | 182 |
| | 2034 | 4.3 | 132 | | 2018 | 3.9 | 118 | | 2121 | 3.1 | 94 | | 2138 | 2.0 | 60 | | 2022 | 2.7 | 82 | | 2033 | 1.4 | 44 |
| 8 Sa | 0321 | 5.7 | 174 | 23 Su | 0317 | 5.9 | 179 | 8 Tu | 0450 | 5.7 | 174 | 23 W | 0528 | 6.3 | 192 | 8 Tu | 0402 | 6.0 | 183 | 23 W | 0434 | 6.8 | 206 |
| | 0901 | 1.5 | 47 | | 0851 | 1.5 | 45 | | 0940 | 2.4 | 73 | | 0958 | 2.9 | 87 | | 0842 | 2.8 | 84 | | 0851 | 3.3 | 100 |
| | 1654 | 6.8 | 207 | | 1650 | 6.9 | 210 | | 1707 | 6.2 | 189 | | 1723 | 6.1 | 187 | | 1601 | 5.8 | 178 | | 1601 | 5.8 | 178 |
| | 2106 | 4.1 | 125 | | 2109 | 3.5 | 106 | | 2200 | 2.8 | 84 | | 2229 | 1.5 | 47 | | 2054 | 2.3 | 71 | | 2126 | 1.1 | 33 |
| 9 Su | 0405 | 5.7 | 173 | 24 M | 0430 | 6.0 | 183 | 9 W | 0534 | 5.6 | 171 | 24 Th | 0623 | 6.2 | 189 | 9 W | 0443 | 6.0 | 184 | 24 Th | 0526 | 6.7 | 205 |
| | 0936 | 1.9 | 57 | | 0931 | 1.9 | 57 | | 1007 | 2.7 | 83 | | 1038 | 3.2 | 98 | | 0909 | 3.0 | 90 | | 0931 | 3.5 | 108 |
| | 1721 | 6.7 | 203 | | 1726 | 6.8 | 206 | | 1734 | 6.1 | 187 | | 1741 | 6.1 | 186 | | 1630 | 5.8 | 178 | | 1634 | 5.8 | 178 |
| | 2154 | 3.9 | 118 | | 2205 | 3.0 | 92 | | 2244 | 2.6 | 78 | | 2338 | 1.4 | 42 | | 2129 | 2.1 | 63 | | 2217 | 0.9 | 27 |
| 10 M | 0453 | 5.6 | 170 | 25 Tu | 0526 | 5.9 | 181 | 10 Th | 0610 | 5.5 | 167 | 25 F | 0724 | 5.9 | 181 | 10 Th | 0516 | 6.0 | 182 | 25 F | 0619 | 6.5 | 199 |
| | 1009 | 2.2 | 67 | | 1014 | 2.3 | 69 | | 1043 | 3.1 | 94 | | 1131 | 3.7 | 114 | | 0942 | 3.1 | 96 | | 1023 | 3.7 | 114 |
| | 1750 | 6.6 | 200 | | 1801 | 6.7 | 203 | | 1748 | 6.0 | 183 | | 1748 | 6.0 | 184 | | 1644 | 5.8 | 176 | | 1609 | 5.8 | 178 |
| | 2239 | 3.6 | 110 | | 2258 | 2.5 | 77 | | 2330 | 2.3 | 70 | | ○ | ○ | 2207 | | 1.8 | 54 | 2313 | | 1.0 | 31 | |
| 11 Tu | 0544 | 5.4 | 166 | 26 W | 0625 | 5.9 | 179 | 11 F | 0659 | 5.3 | 162 | 26 Sa | 0046 | 1.3 | 40 | 11 F | 0557 | 5.9 | 180 | 26 Sa | 0713 | 6.2 | 189 |
| | 1042 | 2.6 | 78 | | 1059 | 2.8 | 84 | | 1119 | 3.4 | 105 | | 0839 | 5.7 | 173 | | 1014 | 3.3 | 102 | | 1124 | 4.1 | 125 |
| | 1815 | 6.4 | 195 | | 1836 | 6.5 | 197 | | 1802 | 5.9 | 179 | | 1228 | 4.2 | 127 | | 1659 | 5.7 | 175 | | 1656 | 5.8 | 177 |
| | 2329 | 3.3 | 101 | | ● | ○ | ● | | ○ | 1812 | 5.9 | | 181 | 1812 | 5.9 | | 181 | 2252 | 1.6 | | 49 | 2252 | 1.6 | 49 |
| 12 W | 0637 | 5.2 | 160 | 27 Th | 0004 | 2.1 | 64 | 12 Sa | 0019 | 2.1 | 65 | 27 Su | 0159 | 1.5 | 45 | 12 Sa | 0640 | 5.7 | 174 | 27 Su | 0017 | 1.2 | 38 |
| | 1120 | 3.0 | 91 | | 0730 | 5.7 | 175 | | 0804 | 5.1 | 156 | | 1009 | 5.6 | 170 | | 1055 | 3.7 | 112 | | 0817 | 5.8 | 178 |
| | 1840 | 6.2 | 190 | | 1155 | 3.4 | 103 | | 1206 | 3.9 | 119 | | 1351 | 4.6 | 140 | | 1712 | 5.7 | 174 | | 1226 | 4.4 | 133 |
| | | | | | 1849 | 6.3 | 192 | | 1814 | 5.8 | 177 | | 1851 | 5.7 | 174 | | 2338 | 1.6 | 49 | | 1744 | 5.6 | 172 |
| 13 Th | 0023 | 3.1 | 93 | 28 F | 0111 | 1.9 | 57 | 13 Su | 0132 | 2.0 | 60 | 28 M | 0313 | 1.5 | 46 | 13 Su | 0731 | 5.5 | 168 | 28 M | 0132 | 1.6 | 49 |
| | 0735 | 5.1 | 155 | | 0847 | 5.6 | 171 | | 0936 | 5.1 | 155 | | 1145 | 5.7 | 175 | | 1142 | 4.1 | 124 | | 0944 | 5.7 | 173 |
| | 1203 | 3.5 | 106 | | 1249 | 3.9 | 120 | | 1312 | 4.4 | 134 | | 1537 | 4.6 | 141 | | 1730 | 5.7 | 174 | | 1357 | 4.5 | 137 |
| | 1858 | 6.0 | 184 | | 1901 | 6.2 | 188 | | 1834 | 5.8 | 176 | | 1952 | 5.5 | 167 | | ○ | ○ | 1836 | | 5.3 | 163 | |
| 14 F | 0133 | 2.8 | 84 | 29 Sa | 0224 | 1.6 | 48 | 14 M | 0245 | 1.8 | 54 | 14 M | 0044 | 1.6 | 49 | 14 M | 0044 | 1.6 | 49 | 29 Tu | 0244 | 1.9 | 57 |
| | 0852 | 5.0 | 152 | | 1021 | 5.6 | 171 | | 1114 | 5.4 | 165 | | 1114 | 5.4 | 165 | | 1251 | 4.4 | 134 | | 1107 | 5.7 | 175 |
| | 1253 | 4.0 | 122 | | 1409 | 4.4 | 135 | | 1442 | 4.6 | 141 | | 1537 | 4.6 | 141 | | 1756 | 5.6 | 172 | | 1529 | 4.3 | 132 |
| | 1913 | 5.9 | 180 | | 1923 | 6.0 | 183 | | 1911 | 5.7 | 174 | | 1911 | 5.7 | 174 | | 1911 | 5.7 | 174 | | 1957 | 5.1 | 155 |
| 15 Sa | 0239 | 2.4 | 73 | 30 Su | 0337 | 1.3 | 41 | 15 Tu | 0350 | 1.5 | 45 | 15 Tu | 0155 | 1.6 | 50 | 15 Tu | 0155 | 1.6 | 50 | 30 W | 0352 | 2.0 | 62 |
| | 1026 | 5.2 | 157 | | 1158 | 5.8 | 178 | | 1220 | 5.8 | 178 | | 1027 | 5.6 | 170 | | 1027 | 5.6 | 170 | | 1211 | 5.8 | 178 |
| | 1406 | 4.5 | 136 | | 1537 | 4.7 | 144 | | 1600 | 4.7 | 142 | | 1419 | 4.5 | 138 | | 1419 | 4.5 | 138 | | 1643 | 4.0 | 123 |
| | 1929 | 5.8 | 178 | | 2007 | 5.9 | 179 | | 2009 | 5.7 | 174 | | 1845 | 5.6 | 170 | | 1845 | 5.6 | 170 | | 2318 | 5.0 | 152 |
| | | | 31 | | | | | | | | | | | | | | | | | | | | |

Shantou, China, 2011

Times and Heights of High and Low Waters

| April | | | | May | | | | June | | | | | | | | | | | | | | | |
|-----------------|--------|-----|------|-----------------|------|------|--------|-----------------|------|--------|-----|-----------------|--------|-----|-----|-----------------|------|-----|-----|-----------------|------|-----|-----|
| Time | Height | | Time | Height | | Time | Height | | Time | Height | | Time | Height | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | |
| 1 F | 0043 | 5.2 | 160 | 16 Sa | 0443 | 2.3 | 71 | 1 Su | 0123 | 5.6 | 172 | 16 M | 0100 | 6.3 | 192 | 1 W | 0233 | 6.3 | 191 | 16 Th | 0258 | 6.9 | 210 |
| | 0539 | 2.3 | 70 | | 1243 | 6.1 | 185 | | 0547 | 3.2 | 98 | | 0513 | 3.5 | 106 | | 0641 | 4.0 | 123 | | 0658 | 4.3 | 132 |
| | 1338 | 5.8 | 177 | | 1713 | 2.7 | 81 | | 1303 | 5.2 | 160 | | 0929 | 5.5 | 167 | | 1027 | 5.2 | 159 | | 1047 | 5.7 | 174 |
| | 1810 | 3.3 | 100 | | | | | | 1812 | 2.3 | 70 | | 1744 | 1.2 | 37 | | 1854 | 1.1 | 35 | | 1920 | 0.4 | 11 |
| 2 Sa | 0138 | 5.5 | 169 | 17 Su | 0101 | 6.1 | 185 | 2 M | 0205 | 6.0 | 182 | 17 Tu | 0158 | 6.7 | 203 | 2 Th | 0311 | 6.5 | 198 | 17 F | 0347 | 7.0 | 212 |
| | 0619 | 2.5 | 76 | | 0535 | 2.7 | 81 | | 0624 | 3.4 | 104 | | 0606 | 3.8 | 116 | | 0719 | 4.1 | 126 | | 0748 | 4.3 | 132 |
| | 1401 | 5.7 | 174 | | 1320 | 5.9 | 179 | | 1334 | 5.2 | 158 | | 1104 | 5.6 | 171 | | 1105 | 5.3 | 161 | | 1133 | 5.7 | 173 |
| | 1838 | 3.0 | 90 | | 1758 | 2.0 | 62 | | 1844 | 1.9 | 59 | | 1834 | 0.8 | 24 | | 1930 | 1.0 | 29 | | 2009 | 0.4 | 13 |
| 3 Su | 0214 | 5.8 | 176 | 18 M | 0159 | 6.5 | 199 | 3 Tu | 0244 | 6.2 | 190 | 18 W | 0253 | 6.9 | 211 | 3 F | 0348 | 6.6 | 202 | 18 Sa | 0430 | 6.9 | 211 |
| | 0653 | 2.8 | 84 | | 0624 | 3.1 | 93 | | 0701 | 3.6 | 110 | | 0657 | 4.0 | 123 | | 0755 | 4.2 | 127 | | 0828 | 4.2 | 128 |
| | 1425 | 5.5 | 168 | | 1352 | 5.7 | 175 | | 1341 | 5.1 | 156 | | 1101 | 5.7 | 174 | | 1142 | 5.3 | 163 | | 1220 | 5.6 | 172 |
| | 1902 | 2.6 | 80 | | 1842 | 1.5 | 45 | | 1910 | 1.6 | 50 | | 1929 | 0.5 | 16 | | 2006 | 0.8 | 25 | | 2051 | 0.6 | 19 |
| 4 M | 0251 | 6.0 | 184 | 19 Tu | 0251 | 6.8 | 208 | 4 W | 0316 | 6.4 | 195 | 19 Th | 0345 | 7.0 | 214 | 4 Sa | 0422 | 6.7 | 204 | 19 Su | 0507 | 6.8 | 208 |
| | 0721 | 3.0 | 92 | | 0704 | 3.4 | 104 | | 0735 | 3.8 | 117 | | 0744 | 4.2 | 129 | | 0829 | 4.2 | 127 | | 0915 | 4.1 | 124 |
| | 1442 | 5.5 | 168 | | 1426 | 5.5 | 169 | | 1148 | 5.2 | 157 | | 1147 | 5.8 | 176 | | 1220 | 5.4 | 166 | | 1311 | 5.5 | 168 |
| | 1931 | 2.3 | 70 | | 1933 | 1.0 | 31 | | 1943 | 1.4 | 42 | | 2012 | 0.4 | 11 | | 2045 | 0.8 | 23 | | 2132 | 0.9 | 26 |
| 5 Tu | 0324 | 6.2 | 188 | 20 W | 0341 | 7.0 | 213 | 5 Th | 0353 | 6.5 | 199 | 20 F | 0433 | 7.0 | 214 | 5 Su | 0501 | 6.7 | 204 | 20 M | 0542 | 6.7 | 203 |
| | 0753 | 3.2 | 98 | | 0750 | 3.7 | 114 | | 0807 | 3.9 | 120 | | 0835 | 4.2 | 129 | | 0907 | 4.1 | 124 | | 0959 | 3.8 | 117 |
| | 1455 | 5.4 | 166 | | 1208 | 5.7 | 174 | | 1215 | 5.3 | 161 | | 1234 | 5.7 | 175 | | 1308 | 5.4 | 166 | | 1406 | 5.3 | 162 |
| | 1957 | 2.0 | 61 | | 2024 | 0.8 | 23 | | 2015 | 1.1 | 35 | | 2101 | 0.5 | 15 | | 2121 | 0.8 | 25 | | 2212 | 1.1 | 35 |
| 6 W | 0357 | 6.3 | 193 | 21 Th | 0433 | 7.0 | 214 | 6 F | 0425 | 6.6 | 200 | 21 Sa | 0517 | 6.9 | 211 | 6 M | 0538 | 6.7 | 203 | 21 Tu | 0616 | 6.5 | 198 |
| | 0820 | 3.4 | 105 | | 0834 | 4.0 | 121 | | 0843 | 4.0 | 123 | | 0922 | 4.2 | 128 | | 0953 | 4.0 | 122 | | 1040 | 3.6 | 111 |
| | 1516 | 5.4 | 165 | | 1256 | 5.8 | 177 | | 1253 | 5.3 | 163 | | 1325 | 5.7 | 174 | | 1400 | 5.4 | 165 | | 1738 | 5.2 | 159 |
| | 2033 | 1.7 | 51 | | 2112 | 0.6 | 17 | | 2053 | 1.0 | 31 | | 2148 | 0.6 | 19 | | 2207 | 0.9 | 28 | | 2254 | 1.5 | 46 |
| 7 Th | 0432 | 6.3 | 193 | 22 F | 0522 | 6.9 | 211 | 7 Sa | 0504 | 6.6 | 201 | 22 Su | 0600 | 6.7 | 205 | 7 Tu | 0619 | 6.6 | 201 | 22 W | 0651 | 6.3 | 192 |
| | 0853 | 3.6 | 109 | | 0922 | 4.0 | 122 | | 0914 | 4.1 | 124 | | 1009 | 4.1 | 125 | | 1038 | 3.8 | 116 | | 1126 | 3.4 | 103 |
| | 1537 | 5.5 | 167 | | 1350 | 5.8 | 177 | | 1328 | 5.4 | 165 | | 1424 | 5.5 | 168 | | 1459 | 5.3 | 162 | | 1834 | 5.1 | 156 |
| | 2104 | 1.4 | 44 | | 2201 | 0.6 | 19 | | 2131 | 0.9 | 28 | | 2240 | 0.9 | 28 | | 2253 | 1.2 | 36 | | 2336 | 2.0 | 60 |
| 8 F | 0507 | 6.4 | 194 | 23 Sa | 0610 | 6.7 | 204 | 8 Su | 0542 | 6.5 | 198 | 23 M | 0643 | 6.5 | 199 | 8 W | 0703 | 6.5 | 197 | 23 Th | 0718 | 6.0 | 183 |
| | 0923 | 3.7 | 112 | | 1025 | 4.1 | 126 | | 0954 | 4.0 | 123 | | 1108 | 4.0 | 123 | | 1133 | 3.5 | 107 | | 1220 | 3.2 | 98 |
| | 1547 | 5.5 | 167 | | 1456 | 5.7 | 174 | | 1423 | 5.4 | 166 | | 1546 | 5.2 | 160 | | 1614 | 5.2 | 157 | | 1927 | 5.0 | 151 |
| | 2144 | 1.2 | 37 | | 2253 | 0.9 | 28 | | 2212 | 0.9 | 28 | | 2322 | 1.3 | 41 | | 2340 | 1.6 | 48 | | 2340 | 1.6 | 48 |
| 9 Sa | 0547 | 6.3 | 191 | 24 Su | 0659 | 6.4 | 195 | 9 M | 0625 | 6.4 | 195 | 24 Tu | 0726 | 6.3 | 191 | 9 Th | 0748 | 6.3 | 193 | 24 F | 0022 | 2.5 | 77 |
| | 1000 | 3.8 | 115 | | 1112 | 4.2 | 127 | | 1040 | 4.0 | 123 | | 1205 | 3.9 | 118 | | 1231 | 3.1 | 96 | | 0747 | 5.8 | 176 |
| | 1556 | 5.5 | 168 | | 1618 | 5.5 | 169 | | 1522 | 5.4 | 165 | | 1811 | 5.0 | 153 | | 1930 | 5.1 | 156 | | 1322 | 3.0 | 91 |
| | 2222 | 1.2 | 36 | | 2352 | 1.2 | 38 | | 2302 | 1.1 | 33 | | | | | | | | | | 2033 | 4.9 | 148 |
| 10 Su | 0627 | 6.1 | 187 | 25 M | 0752 | 6.1 | 186 | 10 Tu | 0716 | 6.3 | 191 | 25 W | 0014 | 1.8 | 56 | 10 F | 0037 | 2.0 | 62 | 25 Sa | 0112 | 3.1 | 93 |
| | 1043 | 4.0 | 122 | | 1233 | 4.3 | 130 | | 1133 | 4.0 | 122 | | 0811 | 6.0 | 182 | | 0837 | 6.1 | 187 | | 0803 | 5.5 | 168 |
| | 1617 | 5.5 | 169 | | 1730 | 5.3 | 162 | | 1624 | 5.3 | 163 | | 1315 | 3.7 | 113 | | 1339 | 2.7 | 83 | | 1423 | 2.7 | 82 |
| | 2317 | 1.2 | 38 | | | | | | 2357 | 1.4 | 43 | | 1937 | 4.9 | 148 | | 2058 | 5.2 | 159 | | 2154 | 4.9 | 149 |
| 11 M | 0723 | 5.9 | 181 | 26 Tu | 0047 | 1.7 | 53 | 11 W | 0811 | 6.1 | 187 | 26 Th | 0113 | 2.4 | 72 | 11 Sa | 0135 | 2.7 | 81 | 26 Su | 0209 | 3.5 | 108 |
| | 1138 | 4.2 | 127 | | 0856 | 5.9 | 179 | | 1249 | 3.8 | 117 | | 0855 | 5.7 | 174 | | 0925 | 5.8 | 178 | | 0758 | 5.3 | 162 |
| | 1650 | 5.5 | 169 | | 1348 | 4.2 | 128 | | 1733 | 5.2 | 158 | | 1417 | 3.4 | 105 | | 1442 | 2.2 | 67 | | 1521 | 2.3 | 70 |
| | | | | | 1846 | 5.0 | 153 | | | | | | 2107 | 4.8 | 145 | | 2234 | 5.5 | 168 | | 2320 | 5.2 | 157 |
| 12 Tu | 0017 | 1.5 | 45 | 27 W | 0157 | 2.2 | 67 | 12 Th | 0100 | 1.8 | 56 | 27 F | 0210 | 2.9 | 87 | 12 Su | 0243 | 3.2 | 98 | 27 M | 0321 | 4.0 | 121 |
| | 0834 | 5.8 | 178 | | 1005 | 5.7 | 175 | | 0911 | 6.1 | 185 | | 0940 | 5.5 | 167 | | 0951 | 5.6 | 170 | | 0801 | 5.3 | 161 |
| | 1250 | 4.3 | 130 | | 1507 | 3.9 | 119 | | 1356 | 3.5 | 107 | | 1526 | 3.1 | 93 | | 1544 | 1.6 | 49 | | 1614 | 1.9 | 59 |
| | 1737 | 5.4 | 166 | | 2118 | 4.8 | 146 | | 1952 | 5.0 | 153 | | 2245 | 4.9 | 149 | | 2351 | 5.9 | 181 | | | | |
| 13 W | 0126 | 1.7 | 51 | 28 Th | 0303 | 2.5 | 77 | 13 F | 0207 | 2.2 | 68 | 28 Sa | 0313 | 3.3 | 100 | 13 M | 0350 | 3.7 | 113 | 28 Tu | 0032 | 5.5 | 168 |
| | 0951 | 5.9 | 179 | | 1106 | 5.6 | 172 | | 1011 | 6.0 | 182 | | 1021 | 5.2 | 160 | | 0819 | 5.6 | 171 | | 0429 | 4.2 | 129 |
| | 1411 | 4.2 | 127 | | 1610 | 3.5 | 107 | | 1503 | 3.0 | 92 | | 1617 | 2.6 | 80 | | 1644 | 1.1 | 34 | | 0827 | 5.2 | 160 |
| | 1841 | 5.3 | 162 | | 2319 | 5.0 | 151 | | 2236 | 5.3 | 163 | | | | | | | | | | 1705 | 1.5 | 47 |
| 14 Th | 0239 | 1.9 | 58 | 29 F | 0408 | 2.8 | 85 | 14 Sa | 0313 | 2.7 | 82 | 29 Su | 0000 | 5.2 | 159 | 14 Tu | 0101 | 6.4 | 194 | 29 W | 0128 | 5.9 | 181 |
| | 1058 | 6.0 | 183 | | 1157 | 5.5 | 169 | | 1104 | 5.8 | 178 | | 0415 | 3.6 | 109 | | 0457 | 4.0 | 123 | | 0528 | 4.3 | 131 |
| | 1521 | 3.8 | 116 | | 1700 | 3.1 | 94 | | 1602 | 2.4 | 73 | | 1036 | 5.1 | 155 | | 0906 | 5.7 | 173 | | 0909 | 5.3 | 161 |
| | 2010 | 5.2 | 159 | | | | | | 2354 | 5.8 | 177 | | 1701 | 2.2 | 67 | | 1741 | 0.7 | 20 | | 1751 | 1.2 | 37 |
| 15 F | 0345 | 2.1 | 64 | 30 Sa | 0032 | 5.3 | 162 | 15 Su | 0416 | 3.1 | 93 | 30 M | 0100 | 5.6 | 171 | 15 W | 0203 | 6.7 | 204 | 30 Th | 0215 | 6.3 | 192 |
| | 1155 | 6.1 | 186 | | 0501 | 3.0 | 92 | | 1150 | 5.6 | 172 | | 0512 | 3.8 | 115 | | 0603 | 4.2 | 129 | | 0617 | 4.3 | 132 |
| | 1623 | 3.3 | 100 | | 1239 | 5.4 | 165 | | 1656 | 1.8 | 54 | | 0929 | 5.1 | 155 | | 0956 | 5.7 | 173 | | 0954 | 5.3 | 163 |
| | 2350 | 5.6 | 170 | | 1738 | 2.7 | 82 | | | | | | 1741 | 1.8 | 54 | | 1831 | 0.4 | 13 | | 1834 | 0.9 | 28 |
| | | | | | | | | | | | | | | | | | | | | | | | |

Shantou, China, 2011

Times and Heights of High and Low Waters

| July | | | | August | | | | September | | | | | | | | | | | | | | | |
|---------------------|------|--------|-----|-----------------|------|--------|-----|-----------------|------|--------|-----|-----------------|------|--------|-----|-----------------|------|-----|-----|-----------------|------|-----|-----|
| Time | | Height | | Time | | Height | | Time | | Height | | Time | | Height | | | | | | | | | |
| | h m | ft | cm | | h m | ft | cm | | h m | ft | cm | | h m | ft | cm | | | | | | | | |
| 1 F ● | 0257 | 6.6 | 200 | 16 Sa | 0340 | 6.9 | 210 | 1 M | 0345 | 6.9 | 210 | 16 Tu | 0403 | 6.6 | 202 | 1 Th | 0405 | 6.7 | 205 | 16 F | 0352 | 6.4 | 194 |
| | 0700 | 4.3 | 131 | | 0739 | 4.2 | 128 | | 0747 | 3.9 | 119 | | 0817 | 3.6 | 109 | | 0831 | 2.6 | 78 | | 0846 | 2.7 | 81 |
| | 1037 | 5.4 | 166 | | 1123 | 5.6 | 172 | | 1145 | 5.8 | 177 | | 1549 | 6.0 | 183 | | 1631 | 6.9 | 210 | | 1641 | 6.9 | 209 |
| | 1912 | 0.8 | 24 | | 1957 | 0.9 | 26 | | 2007 | 1.2 | 38 | | 2038 | 2.2 | 66 | | 2053 | 2.9 | 89 | | 2100 | 3.7 | 112 |
| 2 Sa | 0336 | 6.7 | 205 | 17 Su | 0413 | 6.8 | 208 | 2 Tu | 0418 | 6.9 | 209 | 17 W | 0427 | 6.5 | 197 | 2 F | 0442 | 6.6 | 201 | 17 Sa | 0415 | 6.3 | 191 |
| | 0737 | 4.2 | 129 | | 0813 | 4.0 | 123 | | 0821 | 3.6 | 109 | | 0852 | 3.2 | 99 | | 0919 | 2.1 | 64 | | 0918 | 2.4 | 73 |
| | 1118 | 5.5 | 169 | | 1209 | 5.6 | 170 | | 1226 | 5.7 | 175 | | 1632 | 6.1 | 187 | | 1720 | 7.0 | 213 | | 1713 | 6.8 | 208 |
| | 1952 | 0.7 | 22 | | 2034 | 1.0 | 32 | | 2050 | 1.5 | 47 | | 2105 | 2.5 | 76 | | 2138 | 3.2 | 99 | | 2137 | 3.8 | 117 |
| 3 Su | 0412 | 6.8 | 207 | 18 M | 0443 | 6.7 | 204 | 3 W | 0453 | 6.8 | 207 | 18 Th | 0450 | 6.4 | 196 | 3 Sa | 0505 | 6.4 | 196 | 18 Su | 0438 | 6.3 | 191 |
| | 0813 | 4.1 | 124 | | 0850 | 3.8 | 116 | | 0906 | 3.2 | 97 | | 0923 | 3.0 | 92 | | 1009 | 1.7 | 53 | | 0956 | 2.2 | 67 |
| | 1204 | 5.6 | 170 | | 1255 | 5.4 | 165 | | 1643 | 6.0 | 183 | | 1747 | 6.2 | 188 | | 1815 | 7.0 | 213 | | 1753 | 6.8 | 206 |
| | 2031 | 0.8 | 24 | | 2110 | 1.3 | 41 | | 2126 | 1.9 | 58 | | 2141 | 2.8 | 84 | | 2229 | 3.6 | 110 | | 2206 | 4.1 | 125 |
| 4 M | 0448 | 6.8 | 207 | 19 Tu | 0510 | 6.6 | 201 | 4 Th | 0527 | 6.7 | 203 | 19 F | 0511 | 6.3 | 191 | 4 Su | 0536 | 6.4 | 195 | 19 M | 0450 | 6.2 | 190 |
| | 0853 | 3.9 | 119 | | 0927 | 3.5 | 108 | | 0954 | 2.7 | 83 | | 1001 | 2.7 | 81 | | 1109 | 1.6 | 49 | | 1036 | 2.2 | 66 |
| | 1252 | 5.5 | 169 | | 1645 | 5.5 | 169 | | 1738 | 6.1 | 187 | | 1747 | 6.2 | 188 | | 1911 | 6.8 | 208 | | 1831 | 6.6 | 200 |
| | 2110 | 0.9 | 28 | | 2145 | 1.6 | 50 | | 2211 | 2.3 | 69 | | 2211 | 3.1 | 93 | | 2319 | 4.0 | 123 | | 2248 | 4.4 | 133 |
| 5 Tu | 0523 | 6.8 | 206 | 20 W | 0540 | 6.5 | 197 | 5 F | 0601 | 6.5 | 199 | 20 Sa | 0537 | 6.2 | 189 | 5 M | 0523 | 6.3 | 193 | 20 Tu | 0507 | 6.2 | 189 |
| | 0933 | 3.6 | 111 | | 1005 | 3.2 | 99 | | 1041 | 2.3 | 69 | | 1043 | 2.5 | 75 | | 1211 | 1.6 | 48 | | 1125 | 2.1 | 65 |
| | 1339 | 5.4 | 166 | | 1733 | 5.5 | 169 | | 1832 | 6.2 | 189 | | 1824 | 6.0 | 184 | | 2012 | 6.6 | 200 | | 1919 | 6.4 | 195 |
| | 2154 | 1.2 | 36 | | 2217 | 2.0 | 61 | | 2259 | 2.7 | 82 | | 2251 | 3.4 | 104 | | 2319 | 4.0 | 123 | | 2337 | 4.6 | 141 |
| 6 W | 0601 | 6.7 | 204 | 21 Th | 0603 | 6.3 | 192 | 6 Sa | 0637 | 6.3 | 192 | 21 Su | 0548 | 6.1 | 185 | 6 Tu | 0017 | 4.5 | 136 | 21 W | 0530 | 6.2 | 188 |
| | 1018 | 3.2 | 99 | | 1050 | 3.0 | 92 | | 1133 | 1.8 | 56 | | 1123 | 2.3 | 70 | | 0552 | 6.3 | 193 | | 1220 | 2.3 | 69 |
| | 1735 | 5.4 | 165 | | 1810 | 5.5 | 167 | | 1932 | 6.2 | 189 | | 1908 | 5.9 | 180 | | 1328 | 1.7 | 53 | | 2032 | 6.2 | 190 |
| | 2235 | 1.5 | 46 | | 2257 | 2.4 | 73 | | 2345 | 3.2 | 97 | | 2326 | 3.8 | 116 | | 2135 | 6.4 | 195 | | 2306 | 6.6 | 200 |
| 7 Th | 0640 | 6.6 | 200 | 22 F | 0632 | 6.1 | 186 | 7 Su | 0644 | 6.1 | 186 | 22 M | 0556 | 6.0 | 182 | 7 W | 0136 | 4.8 | 146 | 22 Th | 0048 | 4.9 | 148 |
| | 1111 | 2.8 | 86 | | 1129 | 2.8 | 85 | | 1243 | 1.5 | 47 | | 1211 | 2.2 | 68 | | 0639 | 6.2 | 189 | | 0600 | 6.1 | 185 |
| | 1837 | 5.5 | 167 | | 1857 | 5.4 | 165 | | 2041 | 6.1 | 186 | | 2006 | 5.7 | 174 | | 1442 | 1.8 | 55 | | 1334 | 2.4 | 72 |
| | 2321 | 1.9 | 59 | | 2334 | 2.9 | 87 | | 2345 | 3.2 | 97 | | 2125 | 5.6 | 172 | | 2304 | 6.5 | 198 | | 2154 | 6.3 | 193 |
| 8 F ○ | 0717 | 6.3 | 192 | 23 Sa | 0646 | 5.9 | 180 | 8 M | 0044 | 3.8 | 117 | 23 Tu | 0016 | 4.2 | 128 | 8 Th | 0313 | 4.9 | 148 | 23 F | 0210 | 4.9 | 150 |
| | 1208 | 2.4 | 73 | | 1222 | 2.6 | 78 | | 0611 | 6.1 | 185 | | 0603 | 5.9 | 180 | | 0740 | 6.0 | 182 | | 0649 | 6.0 | 182 |
| | 1941 | 5.5 | 169 | | 1952 | 5.2 | 160 | | 1348 | 1.4 | 42 | | 1315 | 2.2 | 66 | | 1551 | 1.9 | 59 | | 1444 | 2.4 | 72 |
| | | | | | | | | | 2201 | 6.1 | 186 | | 2125 | 5.6 | 172 | | 2306 | 6.6 | 200 | | 2306 | 6.6 | 200 |
| 9 Sa | 0015 | 2.5 | 77 | 24 Su | 0015 | 3.3 | 102 | 9 Tu | 0157 | 4.3 | 131 | 24 W | 0123 | 4.6 | 141 | 9 F | 0015 | 6.7 | 204 | 24 Sa | 0323 | 4.7 | 144 |
| | 0751 | 6.1 | 185 | | 0652 | 5.7 | 174 | | 0644 | 6.1 | 185 | | 0622 | 5.9 | 179 | | 0432 | 4.7 | 142 | | 0759 | 5.9 | 181 |
| | 1310 | 2.0 | 61 | | 1316 | 2.4 | 73 | | 1502 | 1.3 | 39 | | 1427 | 2.1 | 64 | | 0856 | 5.8 | 178 | | 1548 | 2.4 | 73 |
| | 2052 | 5.6 | 170 | | 2058 | 5.2 | 157 | | 2330 | 6.2 | 190 | | 2257 | 5.8 | 178 | | 1652 | 2.0 | 61 | | 1548 | 2.4 | 73 |
| 10 Su | 0113 | 3.1 | 95 | 25 M | 0109 | 3.9 | 118 | 10 W | 0324 | 4.6 | 141 | 25 Th | 0248 | 4.8 | 147 | 10 Sa | 0113 | 6.8 | 207 | 25 Su | 0005 | 6.8 | 208 |
| | 0748 | 5.8 | 176 | | 0649 | 5.6 | 171 | | 0736 | 5.9 | 181 | | 0701 | 5.8 | 177 | | 0530 | 4.4 | 133 | | 0422 | 4.4 | 133 |
| | 1411 | 1.6 | 48 | | 1419 | 2.2 | 67 | | 1612 | 1.2 | 38 | | 1532 | 2.0 | 60 | | 1234 | 5.8 | 177 | | 0915 | 6.0 | 182 |
| | 2214 | 5.7 | 174 | | 2225 | 5.2 | 160 | | | | | | | | | | 1742 | 2.2 | 66 | | 1643 | 2.5 | 75 |
| 11 M | 0224 | 3.8 | 115 | 26 Tu | 0218 | 4.3 | 131 | 11 Th | 0049 | 6.5 | 199 | 26 F | 0008 | 6.2 | 190 | 11 Su | 0156 | 6.8 | 207 | 26 M | 0054 | 7.0 | 212 |
| | 0709 | 5.8 | 177 | | 0702 | 5.5 | 169 | | 0448 | 4.6 | 141 | | 0401 | 4.8 | 146 | | 0614 | 4.1 | 124 | | 0509 | 3.9 | 119 |
| | 1521 | 1.2 | 38 | | 1519 | 1.9 | 59 | | 0842 | 5.8 | 178 | | 0800 | 5.8 | 177 | | 1337 | 6.0 | 184 | | 1243 | 6.4 | 195 |
| | 2345 | 6.0 | 182 | | 2353 | 5.6 | 170 | | 1718 | 1.2 | 36 | | 1635 | 1.8 | 54 | | 1826 | 2.4 | 72 | | 1729 | 2.6 | 80 |
| 12 Tu | 0340 | 4.2 | 128 | 27 W | 0337 | 4.6 | 139 | 12 F | 0151 | 6.7 | 205 | 27 Sa | 0102 | 6.6 | 201 | 12 M | 0230 | 6.7 | 203 | 27 Tu | 0136 | 7.0 | 212 |
| | 0752 | 5.8 | 177 | | 0736 | 5.5 | 168 | | 0550 | 4.4 | 135 | | 0502 | 4.6 | 139 | | 0647 | 3.8 | 116 | | 0550 | 3.4 | 104 |
| | 1629 | 0.9 | 28 | | 1621 | 1.6 | 50 | | 0945 | 5.7 | 175 | | 0902 | 5.9 | 179 | | 1417 | 6.2 | 190 | | 1343 | 6.9 | 209 |
| | | | | | | | | | 1811 | 1.2 | 37 | | 1729 | 1.6 | 50 | | 1900 | 2.6 | 80 | | 1813 | 2.9 | 89 |
| 13 W | 0101 | 6.4 | 194 | 28 Th | 0057 | 6.0 | 183 | 13 Sa | 0238 | 6.9 | 209 | 28 Su | 0150 | 6.9 | 209 | 13 Tu | 0253 | 6.6 | 201 | 28 W | 0207 | 6.9 | 209 |
| | 0451 | 4.4 | 134 | | 0448 | 4.6 | 140 | | 0639 | 4.3 | 130 | | 0549 | 4.3 | 130 | | 0712 | 3.5 | 107 | | 0630 | 2.9 | 87 |
| | 0849 | 5.8 | 176 | | 0826 | 5.5 | 169 | | 1031 | 5.7 | 174 | | 0957 | 5.9 | 181 | | 1454 | 6.5 | 198 | | 1434 | 7.3 | 221 |
| | 1733 | 0.7 | 22 | | 1716 | 1.3 | 41 | | 1855 | 1.4 | 42 | | 1812 | 1.7 | 51 | | 1933 | 2.9 | 89 | | 1854 | 3.3 | 101 |
| 14 Th | 0203 | 6.7 | 204 | 29 F | 0148 | 6.4 | 195 | 14 Su | 0312 | 6.8 | 208 | 29 M | 0230 | 6.9 | 211 | 14 W | 0311 | 6.5 | 197 | 29 Th | 0243 | 6.7 | 205 |
| | 0600 | 4.4 | 134 | | 0543 | 4.5 | 138 | | 0714 | 4.0 | 123 | | 0629 | 3.9 | 120 | | 0744 | 3.2 | 98 | | 0716 | 2.4 | 73 |
| | 0947 | 5.7 | 174 | | 0921 | 5.6 | 171 | | 1116 | 5.6 | 172 | | 1041 | 6.0 | 182 | | 1532 | 6.7 | 203 | | 1519 | 7.5 | 229 |
| | 1827 | 0.6 | 19 | | 1804 | 1.1 | 33 | | 1933 | 1.6 | 49 | | 1856 | 1.9 | 57 | | 1958 | 3.2 | 98 | | 1935 | 3.7 | 113 |
| 15 F ○ | 0256 | 6.9 | 210 | 30 Sa | 0232 | 6.7 | 204 | 15 M | 0341 | 6.7 | 204 | 30 Tu | 0303 | 7.0 | 212 | 15 Th | 0336 | 6.4 | 196 | 30 F | 0305 | 6.6 | 200 |
| | 0652 | 4.3 | 132 | | 0629 | 4.4 | 133 | | 0747 | 3.8 | 117 | | 0707 | 3.5 | 107 | | 0810 | 3.0 | 90 | | 0800 | 2.0 | 60 |
| | 1040 | 5.7 | 173 | | 1012 | 5.7 | 174 | | 1508 | 5.8 | 177 | | 1449 | 6.4 | 195 | | 1602 | 6.8 | 207 | | 1610 | 7.7 | 235 |
| | 1916 | 0.7 | 20 | | 1848 | 1.0 | 30 | | 2006 | 1.9 | 58 | | 1935 | 2.2 | 66 | | 2033 | 3.4 | 105 | | 2022 | 4. | |

Shantou, China, 2011

Times and Heights of High and Low Waters

| October | | | | November | | | | December | | | | | | | | | | | | | |
|-----------------|--------|-----|------|----------|----------------|-----------------|--------|----------|------|-----------------|------|------|--------|-----------------|------|-----|------|-----------------|------|-----|-----|
| Time | Height | | Time | Height | | Time | Height | | Time | Height | | Time | Height | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | |
| 1 Sa | 0340 | 6.6 | 200 | | | 1 Tu | 0314 | 6.6 | 200 | 16 W | 0311 | 6.2 | 188 | 1 Th | 0441 | 6.2 | 188 | 16 F | 0346 | 5.9 | 180 |
| | 0848 | 1.7 | 51 | | | | 1013 | 1.6 | 48 | | 0938 | 1.8 | 55 | | 1037 | 2.1 | 63 | | 1001 | 1.8 | 56 |
| | 1701 | 7.7 | 234 | | | | 1822 | 7.5 | 228 | | 1742 | 7.2 | 220 | | 1836 | 7.2 | 218 | | 1802 | 7.1 | 215 |
| | 2110 | 4.3 | 130 | | | | 2235 | 4.9 | 150 | | 2203 | 4.8 | 146 | | 2315 | 4.5 | 137 | | 2238 | 4.2 | 128 |
| 2 Su | 0206 | 6.5 | 197 | | | 2 W | 0438 | 6.5 | 197 | 17 Th | 0354 | 6.1 | 187 | 2 F | 0548 | 5.9 | 181 | 17 Sa | 0457 | 5.8 | 177 |
| | 0938 | 1.5 | 46 | | | | 1121 | 2.0 | 62 | | 1017 | 2.0 | 60 | | 1133 | 2.5 | 76 | | 1044 | 2.2 | 66 |
| | 1750 | 7.5 | 230 | | | | 1914 | 7.2 | 220 | | 1822 | 7.1 | 217 | | 1917 | 6.9 | 211 | | 1845 | 7.0 | 212 |
| | 2159 | 4.5 | 136 | | | | 2327 | 4.9 | 149 | | 2259 | 4.7 | 144 | | 2315 | 4.5 | 137 | | 2343 | 3.8 | 117 |
| 3 M | 0327 | 6.5 | 199 | | | 3 Th | 0549 | 6.2 | 190 | 18 F | 0447 | 6.0 | 184 | 3 Sa | 0044 | 4.3 | 131 | 18 Su | 0616 | 5.7 | 173 |
| | 1036 | 1.5 | 46 | | | | 1212 | 2.5 | 75 | | 1112 | 2.2 | 68 | | 0700 | 5.7 | 173 | | 1129 | 2.6 | 79 |
| | 1843 | 7.3 | 223 | | | | 2010 | 7.0 | 212 | | 1914 | 7.0 | 214 | | 1219 | 3.0 | 92 | | 1929 | 6.8 | 208 |
| | 2249 | 4.7 | 144 | | | | ● | ● | ● | | 2001 | 6.7 | 204 | | 2001 | 6.7 | 204 | | ● | ● | |
| 4 Tu | 0448 | 6.5 | 199 | | | 4 F | 0113 | 4.8 | 146 | 19 Sa | 0009 | 4.6 | 139 | 4 Su | 0155 | 3.9 | 120 | 19 M | 0046 | 3.4 | 103 |
| | 1144 | 1.8 | 54 | | | | 0714 | 5.9 | 181 | | 0555 | 5.9 | 180 | | 0827 | 5.5 | 167 | | 0742 | 5.7 | 173 |
| | 1944 | 7.0 | 214 | | | | 1318 | 2.9 | 89 | | 1209 | 2.6 | 79 | | 1327 | 3.5 | 108 | | 1231 | 3.1 | 94 |
| | ● | ● | ● | ● | ● | | 2112 | 6.8 | 206 | | 2010 | 6.9 | 211 | | 2046 | 6.4 | 196 | | 2010 | 6.7 | 203 |
| 5 W | 0001 | 4.9 | 149 | | | 5 Sa | 0234 | 4.5 | 136 | 20 Su | 0116 | 4.2 | 129 | 5 M | 0301 | 3.5 | 106 | 20 Tu | 0158 | 2.8 | 86 |
| | 0548 | 6.4 | 195 | | | | 0859 | 5.8 | 177 | | 0737 | 5.8 | 178 | | 1001 | 5.5 | 168 | | 0914 | 5.8 | 176 |
| | 1252 | 2.1 | 64 | | | | 1423 | 3.3 | 102 | | 1308 | 3.1 | 93 | | 1430 | 4.0 | 121 | | 1326 | 3.6 | 110 |
| | 2056 | 6.8 | 208 | | | | 2212 | 6.6 | 202 | | 2106 | 6.9 | 209 | | 2130 | 6.2 | 189 | | 2047 | 6.5 | 198 |
| 6 Th | 0134 | 5.0 | 152 | | | 6 Su | 0341 | 4.0 | 123 | 21 M | 0227 | 3.7 | 113 | 6 Tu | 0355 | 3.0 | 92 | 21 W | 0300 | 2.2 | 68 |
| | 0656 | 6.1 | 187 | | | | 1041 | 5.9 | 181 | | 0930 | 6.0 | 183 | | 1124 | 5.8 | 176 | | 1043 | 6.1 | 187 |
| | 1402 | 2.5 | 75 | | | | 1529 | 3.7 | 112 | | 1412 | 3.4 | 105 | | 1531 | 4.3 | 131 | | 1433 | 4.1 | 126 |
| | 2213 | 6.7 | 205 | | | | 2301 | 6.5 | 198 | | 2159 | 6.8 | 206 | | 2154 | 6.0 | 184 | | 2052 | 6.3 | 193 |
| 7 F | 0257 | 4.8 | 145 | | | 7 M | 0431 | 3.6 | 109 | 22 Tu | 0323 | 3.1 | 94 | 7 W | 0441 | 2.6 | 79 | 22 Th | 0400 | 1.6 | 49 |
| | 0842 | 5.9 | 180 | | | | 1154 | 6.2 | 189 | | 1054 | 6.4 | 195 | | 1227 | 6.1 | 187 | | 1158 | 6.5 | 199 |
| | 1513 | 2.8 | 84 | | | | 1620 | 3.9 | 119 | | 1518 | 3.8 | 117 | | 1624 | 4.5 | 137 | | 1546 | 4.5 | 137 |
| | 2323 | 6.7 | 204 | | | | 2344 | 6.3 | 193 | | 2246 | 6.6 | 202 | | 2201 | 5.9 | 181 | | 2049 | 6.3 | 193 |
| 8 Sa | 0406 | 4.4 | 135 | | | 8 Tu | 0510 | 3.1 | 96 | 23 W | 0414 | 2.4 | 73 | 8 Th | 0519 | 2.2 | 68 | 23 F | 0454 | 1.1 | 34 |
| | 1059 | 5.9 | 181 | | | | 1252 | 6.5 | 199 | | 1205 | 6.9 | 210 | | 1316 | 6.5 | 197 | | 1303 | 6.9 | 210 |
| | 1615 | 3.0 | 90 | | | | 1709 | 4.1 | 126 | | 1614 | 4.2 | 127 | | 1715 | 4.6 | 141 | | 1652 | 4.7 | 144 |
| | ● | ● | ● | ● | ● | | ● | ● | ● | | 2330 | 6.5 | 198 | | 2207 | 5.9 | 180 | | 2126 | 6.4 | 195 |
| 9 Su | 0018 | 6.7 | 203 | | | 9 W | 0017 | 6.2 | 188 | 24 Th | 0506 | 1.8 | 55 | 9 F | 0554 | 1.9 | 58 | 24 Sa | 0548 | 0.9 | 26 |
| | 0458 | 4.0 | 123 | | | | 0543 | 2.8 | 84 | | 1306 | 7.3 | 223 | | 1359 | 6.8 | 206 | | 1400 | 7.2 | 218 |
| | 1221 | 6.2 | 188 | | | | 1337 | 6.8 | 208 | | 1706 | 4.5 | 136 | | 1800 | 4.8 | 145 | | 1745 | 4.8 | 147 |
| | 1705 | 3.2 | 97 | | | | 1748 | 4.3 | 132 | | 2159 | 6.5 | 198 | | 2226 | 5.9 | 181 | | 2217 | 6.4 | 196 |
| 10 M | 0059 | 6.6 | 201 | | | 10 Th | 0040 | 6.1 | 186 | 25 F | 0554 | 1.3 | 41 | 10 Sa | 0626 | 1.6 | 50 | 25 Su | 0641 | 0.7 | 22 |
| | 0538 | 3.7 | 112 | | | | 0614 | 2.5 | 75 | | 1401 | 7.6 | 231 | | 1436 | 6.9 | 211 | | 1451 | 7.3 | 221 |
| | 1314 | 6.5 | 197 | | | | 1413 | 7.1 | 215 | | 1759 | 4.7 | 143 | | 1839 | 4.8 | 146 | | 1834 | 4.8 | 147 |
| | 1749 | 3.4 | 103 | | | | 1824 | 4.5 | 138 | | ● | 2233 | 6.6 | | 201 | ● | 2303 | | 6.0 | 182 | ● | 2308 | 6.4 | 195 |
| 11 Tu | 0134 | 6.5 | 198 | | | 11 F | 0049 | 6.0 | 184 | 26 Sa | 0642 | 1.0 | 30 | 11 Su | 0700 | 1.5 | 45 | 26 M | 0727 | 0.8 | 25 |
| | 0611 | 3.3 | 101 | | | | 0644 | 2.2 | 67 | | 1452 | 7.7 | 236 | | 1509 | 7.1 | 216 | | 1535 | 7.3 | 221 |
| | 1357 | 6.8 | 206 | | | | 1451 | 7.2 | 220 | | 1844 | 4.9 | 150 | | 1908 | 4.8 | 146 | | 1922 | 4.7 | 144 |
| | 1823 | 3.6 | 111 | | | | 1858 | 4.7 | 142 | | 2323 | 6.7 | 203 | | 2335 | 6.0 | 183 | | 2335 | 6.0 | 183 |
| 12 W | 0152 | 6.4 | 194 | | | 12 Sa | 0044 | 6.0 | 184 | 27 Su | 0726 | 0.9 | 28 | 12 M | 0735 | 1.4 | 44 | 27 Tu | 0000 | 6.3 | 192 |
| | 0639 | 3.1 | 93 | | | | 0715 | 2.0 | 60 | | 1541 | 7.7 | 236 | | 1542 | 7.1 | 216 | | 0810 | 1.0 | 30 |
| | 1436 | 7.0 | 213 | | | | 1520 | 7.3 | 223 | | 1928 | 4.9 | 148 | | 1945 | 4.8 | 146 | | 1613 | 7.2 | 220 |
| | 1856 | 3.9 | 119 | | | | 1931 | 4.8 | 145 | | ● | ● | ● | | ● | ● | 2013 | | 4.5 | 138 | ● |
| 13 Th | 0213 | 6.3 | 191 | | | 13 Su | 0118 | 6.1 | 185 | 28 M | 0017 | 6.6 | 202 | 13 Tu | 0021 | 6.0 | 184 | 28 W | 0056 | 6.1 | 187 |
| | 0708 | 2.8 | 84 | | | | 0749 | 1.8 | 55 | | 0823 | 1.0 | 32 | | 0806 | 1.4 | 43 | | 0850 | 1.3 | 39 |
| | 1506 | 7.2 | 218 | | | | 1556 | 7.4 | 225 | | 1627 | 7.7 | 234 | | 1612 | 7.1 | 217 | | 1651 | 7.1 | 217 |
| | 1929 | 4.1 | 125 | | | | 1959 | 4.8 | 147 | | 2020 | 4.9 | 150 | | 2018 | 4.7 | 143 | | 2101 | 4.4 | 133 |
| 14 F | 0236 | 6.3 | 191 | | | 14 M | 0141 | 6.1 | 187 | 29 Tu | 0118 | 6.5 | 199 | 14 W | 0117 | 6.0 | 183 | 29 Th | 0344 | 6.0 | 182 |
| | 0741 | 2.5 | 76 | | | | 0820 | 1.8 | 54 | | 0912 | 1.2 | 38 | | 0842 | 1.4 | 44 | | 0930 | 1.6 | 50 |
| | 1542 | 7.3 | 221 | | | | 1627 | 7.3 | 224 | | 1712 | 7.5 | 230 | | 1648 | 7.1 | 217 | | 1724 | 7.0 | 213 |
| | 1955 | 4.3 | 131 | | | | 2034 | 4.8 | 147 | | 2113 | 4.8 | 145 | | 2059 | 4.6 | 139 | | 2154 | 4.1 | 126 |
| 15 Sa | 0249 | 6.2 | 190 | | | 15 Tu | 0233 | 6.2 | 188 | 30 W | 0300 | 6.3 | 192 | 15 Th | 0231 | 6.0 | 182 | 30 F | 0445 | 5.9 | 179 |
| | 0809 | 2.3 | 69 | | | | 0857 | 1.7 | 52 | | 0952 | 1.6 | 49 | | 0916 | 1.6 | 49 | | 1010 | 2.0 | 60 |
| | 1612 | 7.3 | 222 | | | | 1703 | 7.3 | 223 | | 1754 | 7.3 | 224 | | 1721 | 7.1 | 216 | | 1800 | 6.9 | 210 |
| | 2031 | 4.4 | 135 | | | | 2112 | 4.8 | 146 | | 2222 | 4.7 | 144 | | 2147 | 4.4 | 135 | | 2241 | 3.9 | 118 |
| | | | | | 31 M | 0138 | 6.7 | 203 | | | | | | | | | | | | | |
| | | | | | | 0932 | 1.3 | 40 | | | | | | | | | | | | | |
| | | | | | | 1731 | 7.7 | 236 | | | | | | | | | | | | | |
| | | | | | | 2123 | 4.9 | 149 | | | | | | | | | | | | | |

Time meridian 120° E. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to the chart datum of soundings.

Penghu (Ma-Kung Kang), Pescadores Islands, 2011

Times and Heights of High and Low Waters

| January | | | | February | | | | March | | | | | | | | | | | | | | | | | | |
|-----------------|--------|------|----------------|-----------------|--------|------|------|-----------------|--------|------|------|-----------------|--------|------|------|-----------------|--------|------|------|-----------------|--------|------|------|------|------|-----|
| | Time | | Height | | | Time | | Height | | | Time | | Height | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | | | |
| 1 Sa | 0222 | -4.3 | -132 | 16 Su | 0203 | -3.6 | -111 | 1 Tu | 0409 | -4.4 | -135 | 16 W | 0320 | -4.6 | -140 | 1 Tu | 0255 | -3.7 | -114 | 16 W | 0139 | -3.9 | -118 | | | |
| | 0857 | 2.9 | 87 | | 0849 | 1.9 | 57 | | 1042 | 2.9 | 88 | | 1011 | 2.8 | 86 | | 0933 | 2.5 | 76 | | 0841 | 2.5 | 75 | | | |
| | 1429 | -1.7 | -51 | | 1416 | -1.3 | -41 | | 1612 | -1.7 | -52 | | 1537 | -1.9 | -57 | | 1512 | -1.6 | -49 | | 1410 | -1.7 | -51 | 1410 | -1.7 | -51 |
| | 2038 | 3.5 | 108 | | 2008 | 2.7 | 83 | | 2217 | 3.3 | 102 | | 2143 | 3.5 | 106 | | 2115 | 2.8 | 86 | | 2022 | 2.9 | 89 | | | |
| 2 Su | 0324 | -4.6 | -141 | 17 M | 0302 | -4.1 | -126 | 2 W | 0453 | -4.5 | -137 | 17 Th | 0410 | -5.0 | -153 | 2 W | 0351 | -3.8 | -117 | 17 Th | 0243 | -4.2 | -129 | | | |
| | 1000 | 3.1 | 94 | | 0949 | 2.4 | 72 | | 1123 | 3.1 | 95 | | 1053 | 3.3 | 102 | | 1020 | 2.9 | 87 | | 0935 | 3.1 | 93 | | | |
| | 1529 | -1.6 | -49 | | 1515 | -1.4 | -44 | | 1652 | -2.0 | -61 | | 1622 | -2.4 | -73 | | 1604 | -2.0 | -60 | | 1508 | -2.3 | -70 | | | |
| | 2134 | 3.6 | 111 | | 2107 | 3.1 | 94 | | 2301 | 3.5 | 108 | | 2235 | 4.1 | 125 | | 2207 | 3.2 | 97 | | 2126 | 3.6 | 110 | | | |
| 3 M | 0418 | -4.8 | -146 | 18 Tu | 0353 | -4.7 | -142 | 3 Th | 0528 | -4.5 | -137 | 18 F | 0453 | -5.3 | -161 | 3 Th | 0435 | -3.9 | -120 | 18 F | 0337 | -4.5 | -138 | | | |
| | 1053 | 3.2 | 99 | | 1038 | 2.9 | 87 | | 1158 | 3.2 | 99 | | 1132 | 3.8 | 116 | | 1058 | 3.1 | 96 | | 1019 | 3.6 | 110 | | | |
| | 1618 | -1.6 | -50 | | 1604 | -1.6 | -50 | | 1726 | -2.3 | -70 | | 1703 | -3.0 | -90 | | 1644 | -2.3 | -71 | | 1644 | -2.3 | -71 | | | |
| | 2224 | 3.7 | 113 | | 2159 | 3.5 | 107 | | ● 2340 | 3.6 | 111 | | ○ 2323 | 4.6 | 140 | | 2250 | 3.5 | 106 | | 2221 | 4.3 | 130 | | | |
| 4 Tu | 0502 | -4.9 | -148 | 19 W | 0437 | -5.1 | -155 | 4 F | 0557 | -4.5 | -136 | 19 Sa | 0533 | -5.3 | -161 | 4 F | 0510 | -3.9 | -119 | 19 Sa | 0426 | -4.6 | -141 | | | |
| | 1138 | 3.3 | 102 | | 1120 | 3.3 | 100 | | 1228 | 3.3 | 102 | | 1209 | 4.1 | 126 | | 1130 | 3.3 | 102 | | 1100 | 4.1 | 124 | | | |
| | 1659 | -1.8 | -54 | | 1645 | -1.9 | -58 | | 1757 | -2.6 | -79 | | 1744 | -3.5 | -107 | | 1718 | -2.7 | -81 | | 1644 | -3.7 | -112 | | | |
| | ● 2309 | 3.7 | 114 | | 2248 | 4.0 | 121 | | | | | | | | | | 2328 | 3.6 | 111 | | 2311 | 4.7 | 144 | | | |
| 5 W | 0539 | -4.8 | -147 | 20 Th | 0516 | -5.4 | -164 | 5 Sa | 0016 | 3.7 | 112 | 20 Su | 0009 | 4.9 | 148 | 5 Sa | 0539 | -3.8 | -116 | 20 Su | 0510 | -4.5 | -136 | | | |
| | 1217 | 3.4 | 103 | | 1159 | 3.6 | 110 | | 0622 | -4.4 | -133 | | 0613 | -5.1 | -154 | | 1158 | 3.4 | 105 | | 1138 | 4.4 | 135 | | | |
| | 1735 | -2.0 | -60 | | 1722 | -2.3 | -69 | | 1257 | 3.4 | 103 | | 1245 | 4.4 | 133 | | 1747 | -3.0 | -90 | | 1729 | -4.3 | -130 | | | |
| | 2349 | 3.7 | 114 | | ○ 2333 | 4.3 | 132 | | 1828 | -2.9 | -87 | | 1827 | -4.0 | -122 | | ● | | | | ○ 2359 | 4.9 | 150 | | | |
| 6 Th | 0611 | -4.8 | -145 | 21 F | 0553 | -5.5 | -168 | 6 Su | 0049 | 3.6 | 110 | 21 M | 0055 | 4.8 | 147 | 6 Su | 0002 | 3.7 | 113 | 21 M | 0553 | -4.1 | -125 | | | |
| | 1252 | 3.3 | 102 | | 1236 | 3.9 | 118 | | 0648 | -4.2 | -128 | | 0653 | -4.7 | -142 | | 0603 | -3.7 | -112 | | 1216 | 4.6 | 140 | | | |
| | 1809 | -2.2 | -67 | | 1800 | -2.7 | -81 | | 1323 | 3.4 | 103 | | 1322 | 4.5 | 136 | | 1224 | 3.5 | 107 | | 1815 | -4.7 | -143 | | | |
| | | | | | | | | | 1900 | -3.1 | -95 | | 1914 | -4.4 | -133 | | 1813 | -3.2 | -98 | | | | | | | |
| 7 F | 0028 | 3.7 | 112 | 22 Sa | 0019 | 4.6 | 139 | 7 M | 0122 | 3.4 | 105 | 22 Tu | 0143 | 4.5 | 137 | 7 M | 0033 | 3.7 | 113 | 22 Tu | 0046 | 4.8 | 147 | | | |
| | 0640 | -4.7 | -142 | | 0630 | -5.4 | -166 | | 0717 | -4.0 | -121 | | 0734 | -4.1 | -124 | | 0627 | -3.5 | -106 | | 0634 | -3.6 | -110 | | | |
| | 1325 | 3.3 | 101 | | 1312 | 4.1 | 124 | | 1349 | 3.4 | 103 | | 1401 | 4.4 | 133 | | 1247 | 3.5 | 108 | | 1253 | 4.6 | 140 | | | |
| | 1845 | -2.4 | -73 | | 1841 | -3.1 | -94 | | 1934 | -3.3 | -101 | | 2006 | -4.5 | -137 | | 1839 | -3.5 | -106 | | 1903 | -4.9 | -149 | | | |
| 8 Sa | 0104 | 3.5 | 108 | 23 Su | 0104 | 4.6 | 140 | 8 Tu | 0156 | 3.2 | 98 | 23 W | 0233 | 4.0 | 121 | 8 Tu | 0104 | 3.6 | 110 | 23 W | 0134 | 4.4 | 135 | | | |
| | 0711 | -4.5 | -137 | | 0710 | -5.2 | -157 | | 0748 | -3.6 | -111 | | 0820 | -3.4 | -103 | | 0652 | -3.2 | -99 | | 0717 | -3.1 | -94 | | | |
| | 1357 | 3.2 | 99 | | 1350 | 4.2 | 127 | | 1416 | 3.3 | 101 | | 1442 | 4.1 | 125 | | 1311 | 3.5 | 108 | | 1332 | 4.4 | 134 | | | |
| | 1923 | -2.6 | -80 | | 1928 | -3.5 | -106 | | 2011 | -3.4 | -104 | | 2104 | -4.5 | -136 | | 1907 | -3.6 | -111 | | 1954 | -4.9 | -148 | | | |
| 9 Su | 0141 | 3.3 | 100 | 24 M | 0152 | 4.4 | 133 | 9 W | 0234 | 2.9 | 87 | 24 Th | 0330 | 3.3 | 100 | 9 W | 0137 | 3.4 | 104 | 24 Th | 0224 | 3.9 | 118 | | | |
| | 0745 | -4.2 | -129 | | 0753 | -4.7 | -144 | | 0823 | -3.2 | -98 | | 0910 | -2.7 | -81 | | 0720 | -3.0 | -91 | | 0803 | -2.5 | -77 | | | |
| | 1428 | 3.2 | 97 | | 1430 | 4.2 | 127 | | 1447 | 3.2 | 98 | | 1529 | 3.7 | 112 | | 1337 | 3.5 | 108 | | 1414 | 4.0 | 122 | | | |
| | 2004 | -2.8 | -84 | | 2020 | -3.7 | -114 | | 2053 | -3.4 | -105 | | 2209 | -4.3 | -130 | | 1939 | -3.8 | -115 | | 2050 | -4.6 | -141 | | | |
| 10 M | 0220 | 3.0 | 90 | 25 Tu | 0244 | 3.9 | 120 | 10 Th | 0317 | 2.4 | 74 | 25 F | 0435 | 2.6 | 80 | 10 Th | 0212 | 3.1 | 95 | 25 F | 0319 | 3.2 | 99 | | | |
| | 0822 | -3.8 | -117 | | 0840 | -4.1 | -124 | | 0903 | -2.7 | -83 | | 1011 | -2.0 | -60 | | 0753 | -2.7 | -81 | | 0854 | -2.0 | -60 | | | |
| | 1500 | 3.1 | 94 | | 1513 | 4.1 | 124 | | 1524 | 3.0 | 92 | | 1623 | 3.2 | 97 | | 1407 | 3.4 | 104 | | 1500 | 3.5 | 107 | | | |
| | 2049 | -2.8 | -86 | | 2120 | -3.9 | -119 | | 2142 | -3.4 | -103 | | ● 2319 | -4.0 | -122 | | 2016 | -3.8 | -115 | | 2150 | -4.3 | -130 | | | |
| 11 Tu | 0303 | 2.6 | 78 | 26 W | 0343 | 3.3 | 102 | 11 F | 0411 | 2.0 | 60 | 26 Sa | 0550 | 2.1 | 65 | 11 F | 0252 | 2.8 | 84 | 26 Sa | 0421 | 2.7 | 82 | | | |
| | 0902 | -3.4 | -103 | | 0932 | -3.3 | -102 | | 0951 | -2.2 | -66 | | 1125 | -1.4 | -44 | | 0831 | -2.3 | -69 | | 0956 | -1.5 | -47 | | | |
| | 1536 | 3.0 | 90 | | 1602 | 3.8 | 116 | | 1609 | 2.8 | 84 | | 1730 | 2.7 | 82 | | 1443 | 3.2 | 98 | | 1556 | 2.9 | 89 | | | |
| | 2140 | -2.9 | -87 | | ● 2228 | -4.0 | -121 | | ● 2243 | -3.3 | -101 | | | | | | 2102 | -3.7 | -112 | | ● 2255 | -3.8 | -116 | | | |
| 12 W | 0354 | 2.1 | 64 | 27 Th | 0451 | 2.7 | 83 | 12 Sa | 0521 | 1.6 | 48 | 27 Su | 0032 | -3.8 | -115 | 12 Sa | 0342 | 2.3 | 71 | 27 Su | 0529 | 2.3 | 70 | | | |
| | 0948 | -2.8 | -86 | | 1033 | -2.6 | -78 | | 1053 | -1.6 | -49 | | 1247 | -1.2 | -36 | | 0917 | -1.8 | -56 | | 1109 | -1.2 | -38 | | | |
| | 1617 | 2.8 | 85 | | 1657 | 3.5 | 106 | | 1705 | 2.5 | 76 | | 1849 | 2.5 | 75 | | 1528 | 2.9 | 88 | | 1706 | 2.4 | 74 | | | |
| | ○ 2238 | -2.9 | -88 | | 2341 | -4.0 | -121 | | 2355 | -3.3 | -102 | | | | | | 2159 | -3.5 | -108 | | | | | | | |
| 13 Th | 0457 | 1.7 | 52 | 28 F | 0608 | 2.3 | 70 | 13 Su | 0648 | 1.4 | 44 | 28 M | 0146 | -3.7 | -112 | 13 Su | 0448 | 1.9 | 59 | 28 M | 0002 | -3.4 | -105 | | | |
| | 1042 | -2.2 | -68 | | 1144 | -1.9 | -57 | | 1212 | -1.2 | -38 | | 0830 | 2.1 | 65 | | 1018 | -1.4 | -43 | | 0644 | 2.1 | 65 | | | |
| | 1705 | 2.6 | 80 | | 1800 | 3.1 | 96 | | 1813 | 2.3 | 71 | | 1406 | -1.3 | -39 | | 1624 | 2.6 | 78 | | 1229 | -1.2 | -36 | | | |
| | 2345 | -3.0 | -91 | | | | | | | | | | 2009 | 2.5 | 77 | | ● 2308 | -3.5 | -106 | | 1830 | 2.2 | 66 | | | |
| 14 F | 0613 | 1.5 | 45 | 29 Sa | 0055 | -4.0 | -123 | 14 M | 0112 | -3.6 | -110 | 14 M | 0610 | 1.8 | 54 | 14 M | 0610 | 1.8 | 54 | 29 Tu | 0113 | -3.2 | -98 | | | |
| | 1149 | -1.7 | -53 | | 0730 | 2.1 | 65 | | 0813 | 1.7 | 52 | | 1136 | -1.1 | -35 | | 1136 | -1.1 | -35 | | 0757 | 2.3 | 70 | | | |
| | 1802 | 2.5 | 77 | | 1302 | -1.5 | -45 | | 1335 | -1.2 | -37 | | 1736 | 2.3 | 71 | | 1736 | 2.3 | 71 | | 1347 | -1.4 | -43 | | | |
| | | | | | 1910 | 3.0 | 90 | | 1930 | 2.5 | 75 | | | | | | | | | | 1951 | 2.3 | 70 | | | |
| 15 Sa | 0055 | -3.2 | -99 | 30 Su | 0208 | -4.1 | -126 | 15 Tu | 0222 | -4.1 | -124 | 15 Tu | 0025 | -3.6 | -109 | 15 Tu | 0025 | -3.6 | -109 | 30 W | 0221 | -3.1 | -96 | | | |
| | 0735 | 1.5 | 47 | | 0848 | 2.3 | 70 | | 0920 | 2.2 | 68 | | 0733 | 2.0 | 60 | | 0733 | 2.0 | 60 | | 0858 | 2.6 | 80 | | | |
| | 1304 | -1.4 | -43 | | 1417 | -1.3 | -41 | | 1443 | -1.4 | -44 | | 1259 | -1.2 | -38 | | 1259 | -1.2 | -38 | | 1453 | -1.8 | -55 | | | |
| | 1905 | 2.5 | 77 | | 2021 | 3.0 | 90 | | 2043 | 2.9 | 88 | | 1902 | 2.4 | 74 | | 1902 | 2.4 | 74 | | 2058 | 2.7 | 81 | | | |
| | | | 31 M | 0314 | -4.3 | -131 | | | | | | | | | | 31 Th | 0319 | -3.1 | -96 | | | | | | | |
| | | | | 0952 | 2.6 | 79 | | | | | | | | | | | 0945 | 3.0 | 90 | | | | | | | |
| | | | | 1521 | -1.5 | -45 | | | | | | | | | | | 1546 | -2.3 | -69 | | | | | | | |
| | | | | 2124 | 3.1 | 95 | | | | | | | | | | | 2150 | 3.1 | 93 | | | | | | | |

Time meridian 120° E. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to the chart datum of soundings.

Penghu (Ma-Kung Kang), Pescadores Islands, 2011

Times and Heights of High and Low Waters

| April | | | | May | | | | June | | | | | | | | | | | | | | | |
|-----------------|------|------|--------|-----------------|------|------|------|-----------------|-----------------|------|------|-----------------|--------|------|------|-----------------|------|------|------|-----------------|------|------|------|
| | Time | | Height | | | Time | | Height | | | Time | | Height | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | |
| 1 F | 0405 | -3.2 | -97 | 16 Sa | 0304 | -3.7 | -114 | 1 Su | 0410 | -2.3 | -69 | 16 M | 0333 | -2.6 | -78 | 1 W | 0501 | -1.4 | -42 | 16 Th | 0509 | -1.4 | -43 |
| | 1023 | 3.2 | 99 | | 0942 | 3.9 | 119 | | 1014 | 3.4 | 103 | | 0955 | 4.3 | 132 | | 1042 | 3.5 | 107 | | 1109 | 4.2 | 128 |
| | 1629 | -2.7 | -82 | | 1536 | -3.6 | -109 | | 1642 | -3.2 | -99 | | 1616 | -4.6 | -139 | | 1731 | -3.9 | -118 | | 1757 | -4.8 | -146 |
| | 2234 | 3.4 | 103 | | 2206 | 4.3 | 130 | | 2253 | 3.4 | 103 | | 2249 | 4.2 | 129 | | 2354 | 3.4 | 104 | | ○ | | |
| 2 Sa | 0444 | -3.1 | -94 | 17 Su | 0357 | -3.6 | -110 | 2 M | 0449 | -2.1 | -65 | 17 Tu | 0428 | -2.2 | -68 | 2 Th | 0539 | -1.2 | -38 | 17 F | 0023 | 3.9 | 118 |
| | 1055 | 3.4 | 104 | | 1026 | 4.3 | 131 | | 1045 | 3.5 | 106 | | 1041 | 4.5 | 136 | | 1117 | 3.6 | 111 | | 0555 | -1.4 | -43 |
| | 1704 | -3.0 | -92 | | 1627 | -4.3 | -130 | | 1717 | -3.5 | -106 | | 1710 | -4.9 | -149 | | 1805 | -4.0 | -121 | | 1155 | 4.1 | 126 |
| | 2312 | 3.6 | 109 | | 2259 | 4.6 | 140 | | 2330 | 3.5 | 107 | | ○ | 2342 | 4.3 | | 130 | ● | | | | 1842 | -4.7 | -142 |
| 3 Su | 0516 | -3.0 | -90 | 18 M | 0447 | -3.3 | -101 | 3 Tu | 0524 | -1.9 | -59 | 18 W | 0519 | -1.9 | -59 | 3 F | 0031 | 3.5 | 106 | 18 Sa | 0106 | 3.8 | 115 |
| | 1123 | 3.5 | 107 | | 1108 | 4.5 | 138 | | 1114 | 3.6 | 109 | | 1125 | 4.4 | 135 | | 0611 | -1.2 | -36 | | 0637 | -1.5 | -45 |
| | 1734 | -3.3 | -100 | | 1717 | -4.7 | -144 | | 1747 | -3.7 | -112 | | 1802 | -5.0 | -152 | | 1152 | 3.7 | 114 | | 1239 | 4.0 | 121 |
| | ● | 2346 | 3.7 | | 112 | ○ | 2349 | | 4.7 | 143 | ● | | | | | | | | 1835 | | -4.1 | -124 | 1921 |
| 4 M | 0544 | -2.8 | -84 | 19 Tu | 0534 | -2.9 | -89 | 4 W | 0006 | 3.6 | 109 | 19 Th | 0031 | 4.1 | 126 | 4 Sa | 0108 | 3.5 | 107 | 19 Su | 0147 | 3.6 | 111 |
| | 1149 | 3.6 | 109 | | 1148 | 4.6 | 141 | | 0554 | -1.7 | -53 | | 0606 | -1.7 | -52 | | 0641 | -1.1 | -35 | | 0718 | -1.6 | -49 |
| | 1759 | -3.5 | -106 | | 1806 | -5.0 | -153 | | 1141 | 3.6 | 111 | | 1208 | 4.3 | 131 | | 1229 | 3.8 | 116 | | 1322 | 3.8 | 115 |
| | | | | | | | | | 1813 | -3.8 | -115 | | 1851 | -4.9 | -150 | | 1903 | -4.1 | -125 | | 1957 | -4.2 | -128 |
| 5 Tu | 0018 | 3.7 | 113 | 20 W | 0038 | 4.5 | 138 | 5 Th | 0040 | 3.5 | 108 | 20 F | 0119 | 3.9 | 119 | 5 Su | 0145 | 3.5 | 107 | 20 M | 0226 | 3.5 | 107 |
| | 0609 | -2.6 | -78 | | 0618 | -2.5 | -77 | | 0621 | -1.6 | -48 | | 0651 | -1.6 | -48 | | 0713 | -1.2 | -37 | | 0802 | -1.8 | -54 |
| | 1213 | 3.6 | 110 | | 1227 | 4.5 | 137 | | 1210 | 3.7 | 112 | | 1251 | 4.0 | 123 | | 1310 | 3.8 | 116 | | 1406 | 3.5 | 106 |
| | 1822 | -3.6 | -111 | | 1856 | -5.1 | -154 | | 1837 | -3.8 | -117 | | 1937 | -4.7 | -143 | | 1937 | -4.1 | -125 | | 2035 | -3.9 | -118 |
| 6 W | 0050 | 3.6 | 110 | 21 Th | 0126 | 4.2 | 127 | 6 F | 0116 | 3.4 | 105 | 21 Sa | 0205 | 3.6 | 110 | 6 M | 0224 | 3.5 | 108 | 21 Tu | 0306 | 3.4 | 104 |
| | 0633 | -2.3 | -71 | | 0703 | -2.1 | -65 | | 0648 | -1.4 | -44 | | 0736 | -1.5 | -46 | | 0752 | -1.4 | -42 | | 0850 | -1.9 | -59 |
| | 1237 | 3.6 | 111 | | 1308 | 4.2 | 129 | | 1242 | 3.6 | 111 | | 1336 | 3.7 | 113 | | 1355 | 3.7 | 114 | | 1453 | 3.1 | 96 |
| | 1846 | -3.8 | -115 | | 1946 | -4.9 | -149 | | 1905 | -3.9 | -119 | | 2021 | -4.4 | -133 | | 2017 | -4.1 | -124 | | 2115 | -3.5 | -107 |
| 7 Th | 0123 | 3.5 | 106 | 22 F | 0216 | 3.7 | 114 | 7 Sa | 0153 | 3.3 | 101 | 22 Su | 0251 | 3.3 | 102 | 7 Tu | 0306 | 3.6 | 109 | 22 W | 0346 | 3.3 | 100 |
| | 0700 | -2.1 | -65 | | 0749 | -1.8 | -55 | | 0720 | -1.3 | -41 | | 0825 | -1.5 | -46 | | 0840 | -1.6 | -49 | | 0943 | -2.1 | -63 |
| | 1305 | 3.6 | 110 | | 1351 | 3.8 | 117 | | 1319 | 3.6 | 109 | | 1423 | 3.3 | 101 | | 1446 | 3.6 | 110 | | 1544 | 2.8 | 84 |
| | 1915 | -3.9 | -118 | | 2037 | -4.5 | -138 | | 1940 | -3.9 | -120 | | 2106 | -4.0 | -122 | | 2104 | -3.9 | -120 | | 2200 | -3.1 | -93 |
| 8 F | 0158 | 3.2 | 99 | 23 Sa | 0308 | 3.3 | 100 | 8 Su | 0234 | 3.2 | 97 | 23 M | 0338 | 3.1 | 95 | 8 W | 0353 | 3.6 | 111 | 23 Th | 0429 | 3.1 | 96 |
| | 0732 | -1.9 | -58 | | 0841 | -1.6 | -48 | | 0759 | -1.3 | -40 | | 0919 | -1.5 | -47 | | 0936 | -1.9 | -59 | | 1041 | -2.2 | -67 |
| | 1337 | 3.5 | 107 | | 1439 | 3.3 | 102 | | 1401 | 3.4 | 105 | | 1516 | 2.9 | 88 | | 1545 | 3.4 | 104 | | 1643 | 2.4 | 73 |
| | 1952 | -3.9 | -118 | | 2130 | -4.1 | -125 | | 2024 | -3.9 | -119 | | 2154 | -3.6 | -109 | | 2158 | -3.7 | -112 | | ○ | 2249 | -2.6 | -78 |
| 9 Sa | 0239 | 3.0 | 91 | 24 Su | 0403 | 2.9 | 88 | 9 M | 0321 | 3.1 | 94 | 24 Tu | 0428 | 3.0 | 90 | 9 Th | 0443 | 3.7 | 114 | 24 F | 0515 | 3.1 | 93 |
| | 0810 | -1.7 | -51 | | 0941 | -1.4 | -42 | | 0848 | -1.3 | -40 | | 1020 | -1.6 | -50 | | 1039 | -2.3 | -70 | | 1141 | -2.3 | -71 |
| | 1416 | 3.3 | 101 | | 1536 | 2.8 | 86 | | 1451 | 3.2 | 98 | | 1617 | 2.5 | 76 | | 1652 | 3.2 | 99 | | 1750 | 2.1 | 65 |
| | 2036 | -3.8 | -116 | | 2226 | -3.6 | -111 | | 2117 | -3.8 | -116 | | 2245 | -3.1 | -95 | | 2257 | -3.3 | -101 | | 2345 | -2.0 | -62 |
| 10 Su | 0329 | 2.7 | 82 | 25 M | 0502 | 2.6 | 79 | 10 Tu | 0414 | 3.1 | 93 | 25 W | 0520 | 2.9 | 87 | 10 F | 0539 | 3.8 | 116 | 25 Sa | 0604 | 3.0 | 90 |
| | 0858 | -1.4 | -44 | | 1048 | -1.3 | -40 | | 0948 | -1.4 | -43 | | 1125 | -1.8 | -54 | | 1147 | -2.8 | -85 | | 1243 | -2.5 | -77 |
| | 1502 | 3.0 | 92 | | 1644 | 2.4 | 72 | | 1552 | 3.0 | 91 | | 1726 | 2.2 | 67 | | 1807 | 3.1 | 96 | | 1901 | 2.1 | 63 |
| | 2132 | -3.7 | -112 | | ○ | 2327 | -3.2 | | -98 | 2216 | -3.7 | | -112 | ○ | 2342 | | -2.7 | -82 | ○ | | | | ○ |
| 11 M | 0430 | 2.5 | 75 | 26 Tu | 0606 | 2.5 | 76 | 11 W | 0513 | 3.1 | 94 | 26 Th | 0615 | 2.8 | 86 | 11 Sa | 0000 | -2.9 | -88 | 26 Su | 0046 | -1.6 | -49 |
| | 0959 | -1.2 | -38 | | 1202 | -1.4 | -42 | | 1055 | -1.6 | -50 | | 1232 | -2.0 | -61 | | 0637 | 3.9 | 119 | | 0657 | 2.9 | 88 |
| | 1601 | 2.7 | 82 | | 1803 | 2.1 | 65 | | 1704 | 2.9 | 87 | | 1839 | 2.1 | 65 | | 1255 | -3.3 | -100 | | 1344 | -2.8 | -85 |
| | ○ | 2237 | -3.6 | | -109 | ○ | | | | ○ | | | | ○ | | | | 1924 | 3.2 | | 98 | 2010 | 2.2 | 67 |
| 12 Tu | 0541 | 2.4 | 73 | 27 W | 0031 | -2.9 | -87 | 12 Th | 0614 | 3.2 | 99 | 27 F | 0041 | -2.3 | -70 | 12 Su | 0106 | -2.5 | -75 | 27 M | 0150 | -1.3 | -40 |
| | 1113 | -1.2 | -38 | | 0710 | 2.6 | 78 | | 1206 | -2.1 | -64 | | 0709 | 2.9 | 87 | | 0736 | 4.0 | 122 | | 0750 | 3.0 | 90 |
| | 1716 | 2.5 | 77 | | 1315 | -1.7 | -51 | | 1824 | 2.9 | 89 | | 1336 | -2.3 | -71 | | 1402 | -3.8 | -116 | | 1442 | -3.1 | -95 |
| | 2348 | -3.5 | -108 | | 1921 | 2.2 | 67 | | | | | | 1949 | 2.2 | 68 | | 2036 | 3.4 | 104 | | 2113 | 2.5 | 75 |
| 13 W | 0653 | 2.6 | 78 | 28 Th | 0135 | -2.6 | -80 | 13 F | 0026 | -3.3 | -101 | 28 Sa | 0141 | -2.0 | -60 | 13 M | 0213 | -2.0 | -62 | 28 Tu | 0251 | -1.1 | -35 |
| | 1230 | -1.5 | -47 | | 0809 | 2.8 | 84 | | 0715 | 3.5 | 107 | | 0801 | 3.0 | 90 | | 0834 | 4.1 | 125 | | 0841 | 3.1 | 94 |
| | 1842 | 2.6 | 80 | | 1421 | -2.1 | -63 | | 1314 | -2.7 | -82 | | 1434 | -2.7 | -82 | | 1507 | -4.3 | -130 | | 1536 | -3.5 | -106 |
| | | | | | 2029 | 2.5 | 75 | | 1942 | 3.2 | 98 | | 2051 | 2.5 | 76 | | 2143 | 3.6 | 111 | | 2208 | 2.8 | 85 |
| 14 Th | 0059 | -3.6 | -111 | 29 F | 0234 | -2.5 | -76 | 14 Sa | 0132 | -3.1 | -95 | 29 Su | 0239 | -1.8 | -54 | 14 Tu | 0317 | -1.7 | -53 | 29 W | 0346 | -1.1 | -34 |
| | 0758 | 3.0 | 90 | | 0858 | 3.0 | 91 | | 0813 | 3.8 | 116 | | 0847 | 3.1 | 94 | | 0929 | 4.2 | 128 | | 0930 | 3.3 | 100 |
| | 1340 | -2.1 | -64 | | 1516 | -2.5 | -77 | | 1418 | -3.4 | -103 | | 1525 | -3.1 | -93 | | 1608 | -4.6 | -140 | | 1624 | -3.8 | -116 |
| | 2002 | 3.1 | 94 | | 2125 | 2.8 | 86 | | 2051 | 3.6 | 111 | | 2145 | 2.8 | 85 | | 2242 | 3.8 | 117 | | 2255 | 3.1 | 95 |
| 15 F | 0205 | -3.7 | -114 | 30 Sa | 0325 | -2.4 | -73 | 15 Su | 0235 | -2.9 | -87 | 30 M | 0331 | -1.6 | -49 | 15 W | 0416 | -1.5 | -47 | 30 Th | 0434 | -1.1 | -34 |
| | 0854 | 3.4 | 105 | | 0939 | 3.2 | 98 | | 0906 | 4.1 | 125 | | 0929 | 3.2 | 98 | | 1021 | 4.2 | 129 | | 1014 | 3.5 | 107 |
| | 1441 | -2.8 | -86 | | 1602 | -2.9 | -89 | | 1518 | -4.0 | -123 | | 1612 | -3.4 | -103 | | 1706 | -4.8 | -146 | | 1708 | -4.1 | -124 |
| | 2109 | 3.7 | 112 | | 2212 | 3.1 | 96 | | 2153 | 4.0 | 122 | | 2232 | 3.1 | 94 | | 2335 | 3.9 | 119 | | 2337 | 3.4 | 104 |
| | | | | | | | | | 31 Tu | 0419 | -1.5 | -45 | | | | | | | | | | | |
| | | | | | | | | | | 1006 | 3.4 | 103 | | | | | | | | | | | |
| | | | | | | | | | | 1653 | -3.7 | -112 | | | | | | | | | | | |
| | | | | | | | | | | 2314 | 3.3 | 100 | | | | | | | | | | | |

Time meridian 120° E. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to the chart datum of soundings.

Penghu (Ma-Kung Kang), Pescadores Islands, 2011

Times and Heights of High and Low Waters

| July | | | | August | | | | September | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|--------|------|------|--------|-----------------|------|------|-----------|--------|-----------------|------|------|--------|----|-----------------|------|------|------|----|-----------------|------|------|------|--|-----------------|------|------|------|--|-----------------|------|------|------|--|
| Time | Height | | | Time | Height | | | Time | Height | | | Time | Height | | | | | | | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | | | | | | |
| 1 F | 0517 | -1.1 | -34 | | 16 Sa | 0007 | 3.8 | 116 | | 1 M | 0023 | 4.2 | 127 | | 16 Tu | 0047 | 4.1 | 124 | | 1 Th | 0100 | 5.1 | 154 | | 16 F | 0101 | 4.2 | 128 | | | | | | |
| | 1057 | 3.8 | 115 | | | 0541 | -1.5 | -46 | | | 0600 | -2.0 | -60 | | | 0631 | -2.4 | -73 | | | 0656 | -3.8 | -115 | | | 0702 | -3.2 | -98 | | | | | | |
| | 1746 | -4.3 | -130 | | | 1144 | 4.2 | 127 | | | 1207 | 4.7 | 144 | | | 1246 | 4.2 | 129 | | | 1323 | 5.2 | 158 | | | 1331 | 4.0 | 122 | | | | | | |
| 2 Sa | 0015 | 3.6 | 110 | | 17 Su | 0045 | 3.8 | 117 | | 2 Tu | 0058 | 4.4 | 134 | | 17 W | 0115 | 4.1 | 124 | | 2 F | 0139 | 5.1 | 155 | | 17 Sa | 0127 | 4.1 | 125 | | 17 Su | 0735 | -3.3 | -100 | |
| | 0553 | -1.2 | -37 | | | 0619 | -1.7 | -52 | | | 0637 | -2.4 | -72 | | | 0703 | -2.6 | -80 | | | 0747 | -4.0 | -122 | | | 1406 | 3.7 | 113 | | | | | | |
| | 1138 | 4.0 | 122 | | | 1226 | 4.1 | 125 | | | 1251 | 4.9 | 149 | | | 1321 | 4.1 | 124 | | | 1413 | 4.8 | 146 | | | 1949 | -2.1 | -63 | | | | | | |
| 3 Su | 0051 | 3.8 | 115 | | 18 M | 0120 | 3.8 | 116 | | 3 W | 0133 | 4.6 | 139 | | 18 Th | 0143 | 4.0 | 122 | | 3 Sa | 0220 | 4.9 | 150 | | 18 Su | 0157 | 4.0 | 121 | | 18 Su | 0813 | -3.2 | -99 | |
| | 0626 | -1.3 | -41 | | | 0656 | -1.9 | -59 | | | 0719 | -2.8 | -85 | | | 0738 | -2.8 | -86 | | | 0845 | -4.1 | -125 | | | 1446 | 3.4 | 103 | | | | | | |
| | 1220 | 4.2 | 127 | | | 1306 | 4.0 | 121 | | | 1337 | 4.8 | 147 | | | 1357 | 3.8 | 116 | | | 1508 | 4.3 | 130 | | | 2028 | -1.7 | -52 | | | | | | |
| 4 M | 0126 | 3.9 | 118 | | 19 Tu | 0153 | 3.8 | 115 | | 4 Th | 0211 | 4.7 | 143 | | 19 F | 0211 | 3.9 | 119 | | 4 Su | 0307 | 4.6 | 140 | | 19 M | 0232 | 3.7 | 114 | | 19 M | 0858 | -3.1 | -96 | |
| | 0659 | -1.6 | -49 | | | 0734 | -2.2 | -67 | | | 0808 | -3.2 | -97 | | | 0816 | -2.9 | -89 | | | 0949 | -4.0 | -122 | | | 1611 | 3.0 | 91 | | | | | | |
| | 1303 | 4.3 | 130 | | | 1345 | 3.8 | 115 | | | 1426 | 4.6 | 139 | | | 1435 | 3.5 | 106 | | | 1611 | 3.7 | 113 | | | 2115 | -1.3 | -40 | | | | | | |
| 5 Tu | 0203 | 4.0 | 122 | | 20 W | 0226 | 3.7 | 113 | | 5 F | 0253 | 4.7 | 143 | | 20 Sa | 0242 | 3.8 | 115 | | 5 M | 0402 | 4.1 | 126 | | 20 Tu | 0316 | 3.4 | 105 | | 20 Tu | 0954 | -3.0 | -92 | |
| | 0739 | -1.9 | -59 | | | 0815 | -2.4 | -73 | | | 0904 | -3.5 | -106 | | | 0858 | -3.0 | -90 | | | 1057 | -3.8 | -116 | | | 1637 | 2.7 | 81 | | | | | | |
| | 1348 | 4.3 | 130 | | | 1425 | 3.5 | 106 | | | 1522 | 4.2 | 127 | | | 1518 | 3.1 | 93 | | | 1721 | 3.2 | 99 | | | 2216 | -1.0 | -29 | | | | | | |
| 6 W | 0242 | 4.1 | 126 | | 21 Th | 0259 | 3.6 | 110 | | 6 Sa | 0339 | 4.6 | 139 | | 21 Su | 0318 | 3.6 | 109 | | 6 Tu | 0507 | 3.7 | 113 | | 21 W | 0412 | 3.1 | 95 | | 21 W | 1101 | -3.0 | -90 | |
| | 0826 | -2.3 | -70 | | | 0900 | -2.5 | -77 | | | 1008 | -3.7 | -112 | | | 0948 | -2.9 | -88 | | | 1205 | -3.6 | -110 | | | 1751 | 2.5 | 77 | | | | | | |
| | 1438 | 4.1 | 126 | | | 1509 | 3.1 | 95 | | | 1625 | 3.7 | 112 | | | 1611 | 2.7 | 81 | | | 1837 | 3.0 | 92 | | | 2330 | -0.8 | -24 | | | | | | |
| 7 Th | 0324 | 4.2 | 129 | | 22 F | 0335 | 3.5 | 106 | | 7 Su | 0432 | 4.3 | 131 | | 22 M | 0401 | 3.3 | 101 | | 7 W | 0023 | -1.0 | -30 | | 22 Th | 0521 | 2.9 | 88 | | 22 Th | 1212 | -3.0 | -92 | |
| | 0921 | -2.7 | -82 | | | 0950 | -2.6 | -79 | | | 1115 | -3.7 | -114 | | | 1047 | -2.8 | -86 | | | 0622 | 3.4 | 104 | | | 1907 | 2.7 | 81 | | | | | | |
| | 1535 | 3.9 | 118 | | | 1559 | 2.7 | 83 | | | 1737 | 3.3 | 100 | | | 1717 | 2.3 | 70 | | | 1315 | -3.5 | -106 | | | | | | | | | | | |
| 8 F | 0412 | 4.2 | 129 | | 23 Sa | 0414 | 3.3 | 100 | | 8 M | 0533 | 4.0 | 122 | | 23 Tu | 0455 | 3.1 | 93 | | 8 Th | 0138 | -1.0 | -32 | | 23 F | 0046 | -0.9 | -28 | | 23 F | 0642 | 3.0 | 91 | |
| | 1024 | -3.1 | -93 | | | 1045 | -2.7 | -81 | | | 1225 | -3.8 | -116 | | | 1154 | -2.9 | -87 | | | 0740 | 3.4 | 104 | | | 1320 | -3.3 | -100 | | | | | | |
| | 1639 | 3.5 | 108 | | | 1658 | 2.3 | 71 | | | 1855 | 3.1 | 93 | | | 1836 | 2.2 | 67 | | | 1423 | -3.4 | -105 | | | 2013 | 3.1 | 94 | | | | | | |
| 9 Sa | 0505 | 4.2 | 128 | | 24 Su | 0459 | 3.1 | 95 | | 9 Tu | 0036 | -1.2 | -38 | | 24 W | 0013 | -0.8 | -24 | | 9 F | 0245 | -1.3 | -41 | | 24 Sa | 0153 | -1.3 | -40 | | 24 Sa | 0759 | 3.4 | 103 | |
| | 1131 | -3.4 | -103 | | | 1146 | -2.7 | -82 | | | 0641 | 3.8 | 115 | | | 0601 | 2.9 | 88 | | | 0849 | 3.6 | 111 | | | 1420 | -3.6 | -110 | | | | | | |
| | 1752 | 3.2 | 99 | | | 1807 | 2.1 | 63 | | | 1335 | -3.8 | -117 | | | 1304 | -3.0 | -92 | | | 1522 | -3.5 | -106 | | | 2107 | 3.6 | 110 | | | | | | |
| 10 Su | 0602 | 4.1 | 124 | | 25 M | 0552 | 3.0 | 90 | | 10 W | 0150 | -1.1 | -33 | | 25 Th | 0128 | -0.8 | -24 | | 10 Sa | 0341 | -1.7 | -52 | | 25 Su | 0248 | -1.9 | -58 | | 25 Su | 0903 | 4.0 | 122 | |
| | 1239 | -3.7 | -113 | | | 1250 | -2.8 | -86 | | | 1444 | -3.9 | -120 | | | 0716 | 3.0 | 90 | | | 1611 | -3.5 | -106 | | | 1513 | -3.9 | -119 | | | | | | |
| | 1908 | 3.1 | 96 | | | 1923 | 2.1 | 63 | | | 2122 | 3.3 | 101 | | | 1409 | -3.4 | -103 | | | 2234 | 4.0 | 121 | | | 2153 | 4.1 | 126 | | | | | | |
| 11 M | 0048 | -1.8 | -55 | | 26 Tu | 0100 | -1.0 | -30 | | 11 Th | 0258 | -1.1 | -35 | | 26 F | 0233 | -1.0 | -30 | | 11 Su | 0426 | -2.1 | -63 | | 26 M | 0336 | -2.6 | -78 | | 26 M | 0957 | 4.7 | 142 | |
| | 0705 | 4.0 | 121 | | | 0652 | 2.9 | 88 | | | 0900 | 3.8 | 116 | | | 0827 | 3.3 | 101 | | | 1032 | 4.2 | 129 | | | 1600 | -4.0 | -122 | | | | | | |
| | 1349 | -4.0 | -121 | | | 1355 | -3.1 | -94 | | | 1545 | -4.0 | -123 | | | 1506 | -3.8 | -116 | | | 1651 | -3.4 | -104 | | | 2234 | 4.6 | 141 | | | | | | |
| 12 Tu | 0159 | -1.4 | -43 | | 27 W | 0210 | -0.9 | -27 | | 12 F | 0357 | -1.3 | -41 | | 27 Sa | 0327 | -1.4 | -42 | | 12 M | 0504 | -2.4 | -72 | | 27 Tu | 0419 | -3.2 | -99 | | 27 Tu | 1047 | 5.2 | 158 | |
| | 0809 | 3.9 | 120 | | | 0756 | 3.0 | 91 | | | 0958 | 4.0 | 122 | | | 0927 | 3.8 | 117 | | | 1113 | 4.4 | 134 | | | 1643 | -3.9 | -119 | | | | | | |
| | 1457 | -4.2 | -129 | | | 1455 | -3.4 | -105 | | | 1638 | -4.1 | -124 | | | 1555 | -4.2 | -127 | | | 1723 | -3.3 | -100 | | | 2312 | 5.0 | 152 | | | | | | |
| 13 W | 0307 | -1.2 | -38 | | 28 Th | 0311 | -1.0 | -29 | | 13 Sa | 0444 | -1.6 | -49 | | 28 Su | 0411 | -1.8 | -55 | | 13 Tu | 0536 | -2.7 | -81 | | 28 W | 0502 | -3.9 | -118 | | 28 W | 1135 | 5.4 | 166 | |
| | 0911 | 4.0 | 121 | | | 0857 | 3.2 | 99 | | | 1048 | 4.2 | 128 | | | 1019 | 4.4 | 135 | | | 1150 | 4.4 | 135 | | | 1725 | -3.6 | -111 | | | | | | |
| | 1600 | -4.4 | -134 | | | 1548 | -3.9 | -118 | | | 1721 | -4.0 | -122 | | | 1638 | -4.4 | -134 | | | 1751 | -3.1 | -94 | | | 2350 | 5.2 | 159 | | | | | | |
| 14 Th | 0407 | -1.2 | -38 | | 29 F | 0403 | -1.1 | -34 | | 14 Su | 0524 | -1.9 | -57 | | 29 M | 0451 | -2.3 | -71 | | 14 W | 0009 | 4.3 | 130 | | 29 Th | 0547 | -4.3 | -132 | | 29 Th | 1222 | 5.5 | 167 | |
| | 1008 | 4.1 | 124 | | | 0950 | 3.6 | 111 | | | 1131 | 4.3 | 131 | | | 1106 | 4.9 | 150 | | | 0605 | -2.9 | -88 | | | 1806 | -3.2 | -98 | | | | | | |
| | 1656 | -4.5 | -137 | | | 1635 | -4.2 | -129 | | | 1755 | -3.9 | -118 | | | 1718 | -4.4 | -134 | | | 1224 | 4.4 | 133 | | | | | | | | | | | |
| 15 F | 0458 | -1.3 | -41 | | 30 Sa | 0447 | -1.3 | -40 | | 15 M | 0016 | 4.1 | 124 | | 30 Tu | 0530 | -2.9 | -87 | | 15 Th | 0035 | 4.2 | 129 | | 30 F | 0028 | 5.3 | 162 | | 30 F | 0634 | -4.6 | -141 | |
| | 1059 | 4.1 | 126 | | | 1039 | 4.1 | 124 | | | 0558 | -2.1 | -65 | | | 1151 | 5.2 | 160 | | | 0633 | -3.1 | -94 | | | 1309 | 5.2 | 158 | | | | | | |
| | 1744 | -4.5 | -136 | | | 1716 | -4.5 | -136 | | | 1209 | 4.3 | 131 | | | 1756 | -4.2 | -129 | | | 1257 | 4.2 | 129 | | | 1850 | -2.7 | -83 | | | | | | |
| 16 O | | | | | 31 Su | 0525 | -1.6 | -49 | | 31 W | 0024 | 4.9 | 150 | | 31 W | 0024 | 4.9 | 150 | | 31 Th | 0035 | 4.2 | 129 | | 31 F | 0035 | 4.2 | 129 | | | | | | |
| | | | | | | 1124 | 4.5 | 136 | | | 0611 | -3.3 | -102 | | | 0611 | -3.3 | -102 | | | 1845 | -2.7 | -81 | | | | | | | | | | | |

Penghu (Ma-Kung Kang), Pescadores Islands, 2011

Times and Heights of High and Low Waters

| October | | | | November | | | | December | | | | | | | | | | | | | | | |
|-----------------|--------|------|----------------|-----------------|------|------|--------|-----------------|------|--------|------|-----------------|--------|------|------|-----------------|------|------|------|-----------------|------|------|------|
| Time | Height | | Time | Height | | Time | Height | | Time | Height | | Time | Height | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | |
| 1 Sa | 0108 | 5.2 | 158 | 16 Su | 0050 | 4.1 | 126 | 1 Tu | 0215 | 4.1 | 124 | 16 W | 0138 | 3.8 | 115 | 1 Th | 0247 | 3.2 | 99 | 16 F | 0212 | 3.6 | 111 |
| | 0725 | -4.6 | -141 | | 0703 | -3.6 | -111 | | 0855 | -4.2 | -128 | | 0755 | -3.9 | -120 | | 0911 | -3.8 | -116 | | 0818 | -4.3 | -130 |
| | 1359 | 4.7 | 144 | | 1344 | 3.8 | 115 | | 1532 | 3.5 | 107 | | 1450 | 3.4 | 103 | | 1552 | 3.1 | 96 | | 1511 | 3.6 | 109 |
| | 1938 | -2.2 | -68 | | 1919 | -1.7 | -52 | | 2107 | -1.4 | -44 | | 2018 | -1.5 | -47 | | 2136 | -1.9 | -59 | | 2046 | -2.4 | -72 |
| 2 Su | 0151 | 4.9 | 148 | 17 M | 0122 | 4.0 | 122 | 2 W | 0310 | 3.5 | 106 | 17 Th | 0224 | 3.5 | 107 | 2 F | 0345 | 2.7 | 83 | 17 Sa | 0304 | 3.4 | 103 |
| | 0822 | -4.5 | -136 | | 0738 | -3.6 | -110 | | 0955 | -3.7 | -112 | | 0842 | -3.8 | -116 | | 1004 | -3.3 | -100 | | 0908 | -4.0 | -122 |
| | 1454 | 4.2 | 127 | | 1423 | 3.5 | 107 | | 1630 | 3.2 | 97 | | 1538 | 3.3 | 100 | | 1644 | 3.0 | 90 | | 1559 | 3.6 | 109 |
| | 2031 | -1.7 | -53 | | 1957 | -1.5 | -45 | | 2216 | -1.3 | -41 | | 2112 | -1.6 | -48 | | 2244 | -2.0 | -61 | | 2145 | -2.6 | -80 |
| 3 M | 0239 | 4.4 | 134 | 18 Tu | 0159 | 3.8 | 115 | 3 Th | 0417 | 3.0 | 90 | 18 F | 0320 | 3.2 | 98 | 3 Sa | 0452 | 2.3 | 70 | 18 Su | 0406 | 3.1 | 94 |
| | 0925 | -4.1 | -126 | | 0821 | -3.5 | -106 | | 1056 | -3.2 | -97 | | 0937 | -3.6 | -110 | | 1103 | -2.8 | -84 | | 1004 | -3.6 | -110 |
| | 1554 | 3.6 | 110 | | 1509 | 3.2 | 98 | | 1731 | 3.0 | 91 | | 1633 | 3.3 | 100 | | 1738 | 2.9 | 87 | | 1652 | 3.6 | 110 |
| | 2135 | -1.3 | -41 | | 2043 | -1.2 | -38 | | 2330 | -1.4 | -44 | | 2215 | -1.7 | -53 | | 2356 | -2.2 | -68 | | 2251 | -3.0 | -91 |
| 4 Tu | 0335 | 3.8 | 117 | 19 W | 0244 | 3.5 | 106 | 4 F | 0533 | 2.6 | 80 | 19 Sa | 0426 | 3.0 | 91 | 4 Su | 0607 | 2.1 | 63 | 19 M | 0518 | 2.9 | 87 |
| | 1030 | -3.7 | -113 | | 0913 | -3.3 | -101 | | 1200 | -2.8 | -85 | | 1039 | -3.4 | -104 | | 1206 | -2.3 | -71 | | 1107 | -3.1 | -96 |
| | 1700 | 3.2 | 98 | | 1605 | 3.0 | 91 | | 1834 | 3.0 | 91 | | 1733 | 3.3 | 102 | | 1835 | 2.9 | 87 | | 1750 | 3.6 | 111 |
| | 2247 | -1.1 | -33 | | 2141 | -1.1 | -33 | | | | | | 2325 | -2.1 | -64 | | | | | | | | |
| 5 W | 0443 | 3.3 | 101 | 20 Th | 0341 | 3.1 | 96 | 5 Sa | 0043 | -1.7 | -52 | 20 Su | 0543 | 2.9 | 89 | 5 M | 0104 | -2.5 | -77 | 20 Tu | 0002 | -3.4 | -105 |
| | 1137 | -3.3 | -102 | | 1015 | -3.2 | -97 | | 0651 | 2.6 | 79 | | 1145 | -3.2 | -98 | | 0721 | 2.1 | 65 | | 0637 | 2.8 | 86 |
| | 1810 | 3.0 | 92 | | 1710 | 2.9 | 88 | | 1304 | -2.5 | -77 | | 1834 | 3.5 | 108 | | 1310 | -2.0 | -61 | | 1215 | -2.7 | -82 |
| | | | | | 2251 | -1.1 | -33 | | 1934 | 3.1 | 96 | | | | | | 1930 | 2.9 | 89 | | 1852 | 3.7 | 114 |
| 6 Th | 0003 | -1.1 | -33 | 21 F | 0451 | 2.9 | 89 | 6 Su | 0150 | -2.1 | -65 | 21 M | 0034 | -2.7 | -82 | 6 Tu | 0205 | -2.9 | -89 | 21 W | 0113 | -4.0 | -122 |
| | 0602 | 3.1 | 93 | | 1122 | -3.1 | -96 | | 0802 | 2.8 | 86 | | 0703 | 3.1 | 96 | | 0828 | 2.4 | 73 | | 0755 | 3.0 | 91 |
| | 1245 | -3.1 | -93 | | 1819 | 3.0 | 92 | | 1404 | -2.4 | -72 | | 1252 | -3.1 | -93 | | 1411 | -1.8 | -55 | | 1325 | -2.4 | -72 |
| | 1920 | 3.1 | 94 | | | | | | 2027 | 3.4 | 103 | | 1934 | 3.8 | 117 | | 2021 | 3.1 | 93 | | 1953 | 3.9 | 119 |
| 7 F | 0117 | -1.3 | -40 | 22 Sa | 0004 | -1.4 | -42 | 7 M | 0246 | -2.6 | -80 | 22 Tu | 0138 | -3.4 | -104 | 7 W | 0258 | -3.3 | -102 | 22 Th | 0221 | -4.6 | -139 |
| | 0721 | 3.1 | 94 | | 0612 | 3.0 | 91 | | 0901 | 3.2 | 97 | | 0815 | 3.6 | 109 | | 0924 | 2.7 | 83 | | 0905 | 3.3 | 101 |
| | 1350 | -2.9 | -89 | | 1230 | -3.2 | -98 | | 1457 | -2.3 | -69 | | 1355 | -2.9 | -88 | | 1504 | -1.7 | -53 | | 1432 | -2.1 | -65 |
| | 2022 | 3.3 | 101 | | 1923 | 3.3 | 102 | | 2112 | 3.6 | 110 | | 2029 | 4.2 | 128 | | 2106 | 3.2 | 98 | | 2052 | 4.1 | 124 |
| 8 Sa | 0223 | -1.7 | -52 | 23 Su | 0112 | -1.9 | -58 | 8 Tu | 0333 | -3.1 | -93 | 23 W | 0238 | -4.2 | -127 | 8 Th | 0345 | -3.7 | -113 | 23 F | 0323 | -5.1 | -154 |
| | 0830 | 3.4 | 103 | | 0731 | 3.3 | 102 | | 0950 | 3.5 | 107 | | 0919 | 4.0 | 123 | | 1012 | 3.0 | 92 | | 1007 | 3.6 | 110 |
| | 1448 | -2.9 | -88 | | 1334 | -3.3 | -102 | | 1542 | -2.2 | -66 | | 1454 | -2.7 | -83 | | 1551 | -1.7 | -52 | | 1533 | -2.0 | -62 |
| | 2114 | 3.6 | 111 | | 2020 | 3.8 | 116 | | 2151 | 3.8 | 115 | | 2120 | 4.5 | 138 | | 2146 | 3.4 | 104 | | 2147 | 4.2 | 129 |
| 9 Su | 0318 | -2.2 | -66 | 24 M | 0211 | -2.6 | -80 | 9 W | 0414 | -3.4 | -104 | 24 Th | 0334 | -4.8 | -147 | 9 F | 0425 | -4.0 | -122 | 24 Sa | 0420 | -5.3 | -163 |
| | 0926 | 3.7 | 114 | | 0838 | 3.9 | 120 | | 1033 | 3.7 | 114 | | 1016 | 4.4 | 134 | | 1054 | 3.3 | 100 | | 1102 | 3.8 | 116 |
| | 1537 | -2.9 | -87 | | 1432 | -3.4 | -105 | | 1622 | -2.1 | -63 | | 1548 | -2.5 | -77 | | 1632 | -1.7 | -51 | | 1626 | -2.0 | -61 |
| | 2156 | 3.9 | 120 | | 2110 | 4.3 | 131 | | 2224 | 3.9 | 119 | | 2208 | 4.8 | 145 | | 2223 | 3.6 | 109 | | 2239 | 4.3 | 132 |
| 10 M | 0402 | -2.6 | -79 | 25 Tu | 0304 | -3.4 | -105 | 10 Th | 0449 | -3.6 | -111 | 25 F | 0426 | -5.2 | -160 | 10 Sa | 0501 | -4.2 | -129 | 25 Su | 0511 | -5.4 | -166 |
| | 1013 | 4.0 | 123 | | 0937 | 4.6 | 139 | | 1112 | 3.9 | 119 | | 1110 | 4.6 | 139 | | 1132 | 3.4 | 105 | | 1151 | 3.9 | 118 |
| | 1617 | -2.8 | -84 | | 1524 | -3.4 | -103 | | 1657 | -2.0 | -60 | | 1638 | -2.3 | -71 | | 1708 | -1.7 | -51 | | 1713 | -2.0 | -62 |
| | 2232 | 4.1 | 125 | | 2155 | 4.7 | 144 | | 2255 | 4.0 | 121 | | 2254 | 4.9 | 148 | | 2257 | 3.7 | 114 | | 2326 | 4.3 | 132 |
| 11 Tu | 0440 | -2.9 | -89 | 26 W | 0353 | -4.2 | -127 | 11 F | 0520 | -3.8 | -117 | 26 Sa | 0516 | -5.5 | -167 | 11 Su | 0532 | -4.4 | -134 | 26 M | 0556 | -5.4 | -164 |
| | 1054 | 4.2 | 129 | | 1030 | 5.0 | 152 | | 1147 | 3.9 | 120 | | 1200 | 4.5 | 137 | | 1208 | 3.5 | 107 | | 1235 | 3.8 | 116 |
| | 1652 | -2.6 | -80 | | 1612 | -3.2 | -98 | | 1728 | -1.8 | -56 | | 1725 | -2.1 | -65 | | 1739 | -1.7 | -51 | | 1755 | -2.1 | -65 |
| | 2303 | 4.2 | 128 | | 2238 | 5.1 | 154 | | 2323 | 4.0 | 123 | | 2339 | 4.8 | 146 | | 2332 | 3.9 | 118 | | 1755 | -2.1 | -65 |
| 12 W | 0512 | -3.2 | -97 | 27 Th | 0440 | -4.8 | -145 | 12 Sa | 0547 | -3.9 | -120 | 27 Su | 0604 | -5.4 | -165 | 12 M | 0600 | -4.5 | -136 | 27 Tu | 0012 | 4.2 | 128 |
| | 1130 | 4.3 | 131 | | 1120 | 5.2 | 159 | | 1221 | 3.9 | 119 | | 1247 | 4.3 | 131 | | 1242 | 3.5 | 108 | | 0635 | -5.2 | -157 |
| | 1722 | -2.5 | -75 | | 1658 | -2.9 | -89 | | 1756 | -1.7 | -53 | | 1809 | -2.0 | -61 | | 1809 | -1.7 | -52 | | 1315 | 3.7 | 112 |
| | 2331 | 4.2 | 129 | | 2319 | 5.2 | 159 | | 2352 | 4.0 | 123 | | | | | | | | 1835 | | -2.3 | -70 | |
| 13 Th | 0541 | -3.4 | -103 | 28 F | 0528 | -5.1 | -155 | 13 Su | 0613 | -4.0 | -122 | 28 M | 0023 | 4.6 | 139 | 13 Tu | 0007 | 3.9 | 120 | 28 W | 0055 | 4.0 | 121 |
| | 1204 | 4.3 | 131 | | 1209 | 5.2 | 157 | | 1255 | 3.8 | 116 | | 0650 | -5.2 | -158 | | 0628 | -4.5 | -138 | | 0712 | -4.8 | -147 |
| | 1750 | -2.3 | -69 | | 1743 | -2.6 | -78 | | 1825 | -1.6 | -50 | | 1333 | 4.0 | 122 | | 1316 | 3.5 | 108 | | 1354 | 3.5 | 107 |
| | 2357 | 4.2 | 129 | | | | | | | | 1854 | | -1.9 | -59 | 1839 | | -1.8 | -55 | 1917 | | -2.4 | -74 | |
| 14 F | 0607 | -3.5 | -107 | 29 Sa | 0000 | 5.2 | 158 | 14 M | 0023 | 4.0 | 123 | 29 Tu | 0108 | 4.2 | 128 | 14 W | 0045 | 3.9 | 119 | 29 Th | 0138 | 3.6 | 110 |
| | 1237 | 4.2 | 128 | | 0616 | -5.2 | -158 | | 0641 | -4.0 | -123 | | 0736 | -4.8 | -146 | | 0659 | -4.5 | -138 | | 0748 | -4.5 | -136 |
| | 1818 | -2.1 | -63 | | 1258 | 4.9 | 148 | | 1330 | 3.7 | 112 | | 1418 | 3.7 | 112 | | 1351 | 3.5 | 108 | | 1432 | 3.3 | 102 |
| | | | | | 1828 | -2.2 | -67 | | 1857 | -1.6 | -48 | | 1942 | -1.9 | -58 | | 1914 | -1.9 | -59 | | 2003 | -2.6 | -78 |
| 15 Sa | 0023 | 4.2 | 128 | 30 Su | 0042 | 5.0 | 151 | 15 Tu | 0058 | 3.9 | 120 | 30 W | 0155 | 3.7 | 114 | 15 Th | 0126 | 3.8 | 117 | 30 F | 0222 | 3.2 | 97 |
| | 0633 | -3.6 | -110 | | 0706 | -5.0 | -153 | | 0715 | -4.0 | -123 | | 0822 | -4.3 | -132 | | 0735 | -4.5 | -136 | | 0828 | -4.0 | -122 |
| | 1310 | 4.0 | 122 | | 1347 | 4.4 | 135 | | 1407 | 3.5 | 107 | | 1504 | 3.4 | 103 | | 1429 | 3.6 | 109 | | 1511 | 3.2 | 97 |
| | 1847 | -1.9 | -58 | | 1915 | -1.9 | -57 | | 1934 | -1.5 | -47 | | 2035 | -1.9 | -58 | | 1956 | -2.1 | -65 | | 2054 | -2.7 | -81 |
| | | | 31 M | 0126 | 4.6 | 139 | | | | | | | | | | | | | | | | | |

Keelung (Chi-lung Chiang), Taiwan, 2011

Times and Heights of High and Low Waters

| January | | | | February | | | | March | | | | | | | | |
|-----------------|------|------|--------|-----------------|------|------|--------|-------|------|------|--------|-----------------|-----------------|------|--------|-----|
| | Time | | Height | | Time | | Height | | Time | | Height | | Time | | Height | |
| | h | m | | | ft | cm | | | h | m | | | ft | cm | | h | m | ft | cm |
| 1 Sa | 0052 | -2.5 | -77 | | 0035 | -2.1 | -64 | | 0120 | -2.5 | -76 | | 0107 | -2.1 | -64 | |
| | 0829 | 0.9 | 26 | 16 Su | 0831 | 0.6 | 18 | | 0914 | 0.9 | 27 | 16 W | 0846 | 0.8 | 24 | |
| | 1353 | -0.2 | -7 | | 1351 | -0.2 | -5 | | 1417 | -0.3 | -9 | | 1420 | -0.4 | -12 | |
| | 1834 | 0.3 | 8 | | 1740 | 0.1 | 2 | | 1856 | 0.3 | 10 | | 1929 | 0.2 | 6 | |
| 2 Su | 0135 | -2.7 | -81 | | 0111 | -2.3 | -70 | | 0158 | -2.6 | -80 | | 0148 | -2.0 | -61 | |
| | 0924 | 1.0 | 29 | 17 M | 0914 | 0.8 | 23 | | 0949 | 0.9 | 28 | 2 W | 0924 | 0.7 | 22 | |
| | 1445 | -0.1 | -4 | | 1431 | -0.1 | -3 | | 1442 | -0.5 | -14 | | 1445 | -0.4 | -13 | |
| | 1859 | 0.2 | 7 | | 1814 | 0.1 | 4 | | 1949 | 0.5 | 15 | | 2014 | 0.2 | 7 | |
| 3 M | 0214 | -2.8 | -84 | | 0145 | -2.5 | -77 | | 0237 | -2.7 | -81 | | 0224 | -1.9 | -57 | |
| | 1011 | 1.0 | 29 | 18 Tu | 0952 | 0.9 | 27 | | 1020 | 0.9 | 27 | 3 Th | 0955 | 0.7 | 20 | |
| | 1524 | -0.1 | -3 | | 1457 | -0.1 | -3 | | 1511 | -0.7 | -22 | | 1505 | -0.5 | -16 | |
| | 1922 | 0.2 | 7 | | 1852 | 0.2 | 7 | ● | 2047 | 0.6 | 19 | | 2056 | 0.3 | 9 | |
| 4 Tu | 0250 | -2.8 | -84 | | 0219 | -2.8 | -84 | | 0316 | -2.5 | -77 | | 0256 | -1.7 | -53 | |
| | 1052 | 0.9 | 28 | 19 W | 1027 | 1.0 | 29 | | 1051 | 0.8 | 25 | 4 F | 1020 | 0.5 | 16 | |
| | 1555 | -0.1 | -3 | | 1518 | -0.1 | -4 | | 1547 | -1.0 | -32 | | 1524 | -0.7 | -20 | |
| ● | 1956 | 0.2 | 7 | | 1937 | 0.4 | 11 | | 2152 | 0.7 | 20 | | 2136 | 0.3 | 10 | |
| 5 W | 0326 | -2.7 | -83 | | 0255 | -2.9 | -88 | | 0358 | -2.3 | -69 | | 0326 | -1.6 | -48 | |
| | 1128 | 0.9 | 26 | 20 Th | 1100 | 1.0 | 30 | | 1121 | 0.7 | 22 | 5 Sa | 1040 | 0.4 | 13 | |
| | 1626 | -0.2 | -6 | | 1543 | -0.3 | -8 | | 1631 | -1.4 | -42 | | 1544 | -0.9 | -26 | |
| | 2040 | 0.2 | 7 | ○ | 2029 | 0.5 | 14 | | 2303 | 0.7 | 20 | ● | 2217 | 0.3 | 10 | |
| 6 Th | 0402 | -2.6 | -80 | | 0333 | -2.9 | -89 | | 0443 | -1.8 | -56 | | 0355 | -1.4 | -42 | |
| | 1201 | 0.8 | 24 | 21 F | 1134 | 1.0 | 29 | | 1152 | 0.6 | 19 | 6 Su | 1054 | 0.4 | 11 | |
| | 1703 | -0.3 | -10 | | 1618 | -0.5 | -15 | | 1726 | -1.7 | -51 | | 1607 | -1.0 | -32 | |
| | 2131 | 0.2 | 5 | | 2130 | 0.5 | 15 | | 2339 | 0.1 | 2 | | 2259 | 0.4 | 11 | |
| 7 F | 0439 | -2.4 | -74 | | 0415 | -2.8 | -85 | | 0529 | -1.6 | -48 | | 0427 | -1.2 | -36 | |
| | 1232 | 0.7 | 22 | 22 Sa | 1208 | 0.9 | 28 | | 1234 | 0.4 | 12 | 7 M | 1106 | 0.3 | 10 | |
| | 1749 | -0.5 | -14 | | 1705 | -0.8 | -24 | | 1819 | -1.1 | -34 | | 1637 | -1.2 | -37 | |
| | 2232 | 0.1 | 2 | | 2240 | 0.4 | 13 | | 1948 | -2.0 | -62 | | 2344 | 0.4 | 11 | |
| 8 Sa | 0519 | -2.2 | -67 | | 0502 | -2.5 | -75 | | 0649 | -0.9 | -26 | | 0502 | -1.0 | -29 | |
| | 1303 | 0.7 | 21 | 23 Su | 1243 | 0.8 | 25 | | 1304 | 0.4 | 12 | 8 Tu | 1123 | 0.3 | 9 | |
| | 1843 | -0.7 | -20 | | 1805 | -1.1 | -33 | | 1948 | -2.0 | -62 | | 1713 | -1.4 | -42 | |
| | 2342 | 0.0 | -1 | | | | | | | | | | | | | |
| 9 Su | 0604 | -1.9 | -58 | | 0002 | 0.3 | 10 | | 0136 | 0.5 | 15 | | 0033 | 0.4 | 11 | |
| | 1334 | 0.6 | 19 | 24 M | 0554 | -2.0 | -61 | | 0649 | -0.9 | -26 | 9 W | 0546 | -0.7 | -22 | |
| | 1940 | -0.8 | -25 | | 1322 | 0.7 | 22 | | 1352 | 0.3 | 8 | | 1146 | 0.2 | 7 | |
| | | | | | 1918 | -1.4 | -42 | | 2102 | -2.1 | -64 | | 1755 | -1.5 | -46 | |
| 10 M | 0056 | -0.1 | -4 | | 0130 | 0.2 | 7 | | 0433 | 0.5 | 16 | | 0129 | 0.4 | 11 | |
| | 0653 | -1.6 | -48 | 25 Tu | 0659 | -1.4 | -44 | | 1010 | -0.3 | -8 | 10 Th | 0645 | -0.5 | -15 | |
| | 1406 | 0.5 | 16 | | 1403 | 0.6 | 18 | | 1452 | 0.2 | 5 | | 1213 | 0.2 | 6 | |
| | 2035 | -1.0 | -31 | | 2031 | -1.7 | -52 | | 2212 | -2.2 | -66 | | 1847 | -1.6 | -48 | |
| 11 Tu | 0214 | -0.2 | -6 | | 0303 | 0.2 | 6 | | 0600 | 0.7 | 20 | | 0235 | 0.4 | 11 | |
| | 0749 | -1.2 | -37 | 26 W | 0822 | -1.0 | -29 | | 1151 | -0.2 | -7 | 11 F | 0802 | -0.3 | -9 | |
| | 1438 | 0.4 | 13 | | 1449 | 0.5 | 14 | | 1608 | 0.1 | 3 | | 1244 | 0.1 | 4 | |
| | 2128 | -1.2 | -38 | ● | 2140 | -2.0 | -61 | ● | 2318 | -2.2 | -66 | | 1949 | -1.6 | -50 | |
| 12 W | 0340 | -0.2 | -6 | | 0440 | 0.3 | 9 | | 0707 | 0.8 | 23 | | 0353 | 0.4 | 13 | |
| | 0853 | -0.9 | -27 | 27 Th | 0958 | -0.6 | -17 | | 1302 | -0.3 | -8 | 12 Sa | 0929 | -0.2 | -5 | |
| | 1513 | 0.3 | 10 | | 1541 | 0.3 | 10 | | 1729 | 0.1 | 3 | | 1325 | 0.1 | 2 | |
| ○ | 2219 | -1.4 | -44 | | 2245 | -2.2 | -68 | | 2301 | -1.9 | -57 | | 2056 | -1.7 | -52 | |
| 13 Th | 0511 | -0.1 | -2 | | 0612 | 0.5 | 15 | | 0801 | 0.8 | 25 | | 0509 | 0.6 | 17 | |
| | 1009 | -0.6 | -18 | 28 F | 1137 | -0.3 | -10 | | 1348 | -0.3 | -10 | 13 Su | 1056 | -0.1 | -4 | |
| | 1549 | 0.2 | 7 | | 1637 | 0.2 | 7 | | 1835 | 0.1 | 4 | | 1425 | 0.0 | 1 | |
| | 2308 | -1.7 | -51 | | 2345 | -2.4 | -73 | | | | | ● | 2203 | -1.8 | -54 | |
| 14 F | 0633 | 0.2 | 5 | | 0726 | 0.7 | 21 | | 0754 | 0.7 | 20 | | 0613 | 0.7 | 22 | |
| | 1135 | -0.4 | -11 | 29 Sa | 1300 | -0.3 | -8 | | 1320 | -0.2 | -6 | 14 M | 1201 | -0.2 | -5 | |
| | 1627 | 0.1 | 4 | | 1735 | 0.2 | 5 | | 1709 | 0.1 | 2 | | 1541 | 0.1 | 2 | |
| | 2354 | -1.9 | -57 | | | | | | | | | ○ | 2307 | -1.9 | -58 | |
| 15 Sa | 0739 | 0.4 | 12 | | 0038 | -2.5 | -76 | | 0039 | -2.3 | -70 | | 0705 | 0.9 | 26 | |
| | 1253 | -0.2 | -7 | 30 Su | 0826 | 0.8 | 24 | | 0837 | 0.8 | 24 | 15 Tu | 1243 | -0.3 | -8 | |
| | 1705 | 0.1 | 3 | | 1359 | -0.2 | -7 | | 1352 | -0.2 | -6 | | 1659 | 0.2 | 5 | |
| | | | | | 1827 | 0.1 | 4 | | 1803 | 0.2 | 5 | | | | | |
| | | | | 31 M | 0124 | -2.5 | -77 | | | | | | | | | |
| | | | | | 0915 | 0.9 | 26 | | | | | | | | | |
| | | | | | 1440 | -0.2 | -7 | | | | | | | | | |
| | | | | | 1908 | 0.1 | 4 | | | | | | | | | |
| | | | | | | | | | | | | | 31 Th | 0126 | -1.3 | -40 |
| | | | | | | | | | | | | | | 0836 | 0.8 | 23 |
| | | | | | | | | | | | | | | 1417 | -0.6 | -19 |
| | | | | | | | | | | | | | | 2026 | 0.5 | 14 |

Time meridian 120° E. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to the chart datum of soundings.

Keelung (Chi-lung Chiang), Taiwan, 2011

Times and Heights of High and Low Waters

| July | | | | August | | | | September | | | | | | |
|-----------------|--------|------|------|--------|-----------------|------|--------|-----------|------|-----------------|------|------|--------|----|
| Time | Height | | Time | Height | | Time | Height | | Time | Height | | Time | Height | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm |
| 1 F | 0404 | 1.0 | 31 | | 16 Sa | 0401 | 0.8 | 25 | | 1 M | 0356 | 0.6 | 18 | |
| | 0714 | 1.1 | 34 | | | 0825 | 1.2 | 38 | | | 0913 | 1.5 | 45 | |
| | 1454 | -1.4 | -43 | | | 1543 | -1.4 | -43 | | | 1551 | -1.3 | -41 | |
| ● | 2318 | 1.8 | 56 | | | 2342 | 1.8 | 54 | | | 2343 | 1.8 | 56 | |
| 2 Sa | 0415 | 1.0 | 30 | | 17 Su | 0435 | 0.7 | 21 | | 2 Tu | 0435 | 0.3 | 9 | |
| | 0758 | 1.2 | 37 | | | 0922 | 1.2 | 37 | | | 1022 | 1.5 | 46 | |
| | 1528 | -1.5 | -46 | | | 1622 | -1.2 | -37 | | | 1635 | -1.1 | -34 | |
| | 2350 | 1.9 | 57 | | | | | | | | 1726 | -0.3 | -10 | |
| 3 Su | 0434 | 0.9 | 27 | | 18 M | 0014 | 1.7 | 52 | | 3 W | 0015 | 1.8 | 55 | |
| | 0854 | 1.3 | 39 | | | 0520 | 0.5 | 16 | | | 0528 | 0.0 | -1 | |
| | 1607 | -1.5 | -46 | | | 1032 | 1.1 | 35 | | | 1141 | 1.5 | 45 | |
| | | | | | | 1704 | -1.0 | -30 | | | 1726 | -0.8 | -23 | |
| 4 M | 0023 | 1.9 | 57 | | 19 Tu | 0045 | 1.6 | 50 | | 4 Th | 0050 | 1.7 | 53 | |
| | 0512 | 0.7 | 22 | | | 0614 | 0.3 | 10 | | | 0634 | -0.3 | -10 | |
| | 0959 | 1.3 | 39 | | | 1150 | 1.1 | 33 | | | 1304 | 1.4 | 44 | |
| | 1652 | -1.4 | -43 | | | 1751 | -0.7 | -21 | | | 1830 | -0.3 | -9 | |
| 5 Tu | 0058 | 1.9 | 57 | | 20 W | 0115 | 1.6 | 48 | | 5 F | 0129 | 1.6 | 50 | |
| | 0608 | 0.5 | 14 | | | 0713 | 0.1 | 4 | | | 0747 | -0.7 | -20 | |
| | 1117 | 1.2 | 38 | | | 1302 | 1.0 | 32 | | | 1428 | 1.4 | 44 | |
| | 1743 | -1.1 | -35 | | | 1846 | -0.4 | -11 | | | 1953 | 0.1 | 4 | |
| 6 W | 0136 | 1.8 | 56 | | 21 Th | 0146 | 1.5 | 46 | | 6 Sa | 0214 | 1.5 | 47 | |
| | 0716 | 0.2 | 5 | | | 0809 | -0.1 | -2 | | | 0857 | -0.9 | -28 | |
| | 1247 | 1.2 | 37 | | | 1412 | 1.0 | 31 | | ● | 1556 | 1.5 | 47 | |
| | 1844 | -0.8 | -24 | | | 1948 | 0.0 | -1 | | ● | 2125 | 0.5 | 14 | |
| 7 Th | 0216 | 1.8 | 54 | | 22 F | 0218 | 1.4 | 44 | | 7 Su | 0304 | 1.4 | 43 | |
| | 0824 | -0.2 | -5 | | | 0901 | -0.2 | -7 | | | 1003 | -1.1 | -35 | |
| | 1420 | 1.2 | 37 | | | 1528 | 1.0 | 32 | | | 1724 | 1.7 | 51 | |
| | 1956 | -0.4 | -11 | | | 2054 | 0.3 | 8 | | | 2258 | 0.7 | 20 | |
| 8 F | 0300 | 1.7 | 51 | | 23 Sa | 0252 | 1.3 | 41 | | 8 M | 0401 | 1.3 | 40 | |
| | 0929 | -0.6 | -17 | | | 0952 | -0.4 | -13 | | | 1105 | -1.3 | -40 | |
| | 1554 | 1.3 | 39 | | ● | 1651 | 1.1 | 35 | | | 1840 | 1.8 | 56 | |
| ○ | 2118 | 0.0 | 1 | | ● | 2207 | 0.5 | 16 | | | | | | |
| 9 Sa | 0347 | 1.6 | 48 | | 24 Su | 0328 | 1.2 | 38 | | 9 Tu | 0021 | 0.8 | 23 | |
| | 1029 | -0.9 | -27 | | | 1042 | -0.6 | -17 | | | 0503 | 1.2 | 38 | |
| | 1724 | 1.5 | 45 | | | 1810 | 1.3 | 40 | | | 1203 | -1.4 | -42 | |
| | 2245 | 0.4 | 12 | | | 2328 | 0.7 | 22 | | | 1944 | 1.9 | 59 | |
| 10 Su | 0434 | 1.4 | 44 | | 25 M | 0406 | 1.1 | 35 | | 10 W | 0124 | 0.8 | 23 | |
| | 1125 | -1.2 | -36 | | | 1130 | -0.7 | -22 | | | 0603 | 1.2 | 37 | |
| | 1844 | 1.7 | 52 | | | 1917 | 1.5 | 46 | | | 1254 | -1.4 | -43 | |
| | | | | | | | | | | | 2039 | 1.9 | 59 | |
| 11 M | 0009 | 0.6 | 19 | | 26 Tu | 0045 | 0.8 | 25 | | 11 Th | 0210 | 0.8 | 23 | |
| | 0521 | 1.3 | 41 | | | 0446 | 1.1 | 33 | | | 0654 | 1.2 | 37 | |
| | 1217 | -1.4 | -43 | | | 1215 | -0.9 | -26 | | | 1339 | -1.4 | -42 | |
| | 1952 | 1.9 | 57 | | | 2013 | 1.7 | 51 | | | 2125 | 1.9 | 58 | |
| 12 Tu | 0119 | 0.8 | 23 | | 27 W | 0146 | 0.9 | 27 | | 12 F | 0244 | 0.8 | 23 | |
| | 0602 | 1.3 | 39 | | | 0525 | 1.1 | 33 | | | 0738 | 1.2 | 37 | |
| | 1305 | -1.5 | -47 | | | 1255 | -1.0 | -30 | | | 1418 | -1.3 | -39 | |
| | 2052 | 2.0 | 60 | | | 2059 | 1.8 | 55 | | | 2205 | 1.8 | 55 | |
| 13 W | 0215 | 0.9 | 26 | | 28 Th | 0229 | 0.9 | 28 | | 13 Sa | 0310 | 0.7 | 21 | |
| | 0635 | 1.2 | 37 | | | 0602 | 1.1 | 34 | | | 0819 | 1.2 | 37 | |
| | 1348 | -1.6 | -49 | | | 1330 | -1.1 | -34 | | | 1453 | -1.1 | -35 | |
| | 2144 | 2.0 | 61 | | | 2138 | 1.9 | 57 | | | 2238 | 1.7 | 52 | |
| 14 Th | 0258 | 0.9 | 28 | | 29 F | 0255 | 1.0 | 29 | | 14 Su | 0335 | 0.6 | 17 | |
| | 0704 | 1.2 | 37 | | | 0639 | 1.2 | 36 | | | 0905 | 1.2 | 37 | |
| | 1428 | -1.6 | -49 | | | 1403 | -1.3 | -39 | | | 1527 | -1.0 | -30 | |
| | 2229 | 1.9 | 59 | | | 2212 | 1.9 | 58 | | ○ | 2306 | 1.6 | 48 | |
| 15 F | 0331 | 0.9 | 28 | | 30 Sa | 0312 | 0.9 | 28 | | 15 M | 0403 | 0.4 | 12 | |
| | 0739 | 1.2 | 38 | | | 0722 | 1.3 | 39 | | | 1000 | 1.2 | 37 | |
| | 1506 | -1.5 | -47 | | | 1436 | -1.4 | -42 | | | 1602 | -0.8 | -24 | |
| ○ | 2307 | 1.9 | 57 | | | 2243 | 1.9 | 58 | | | 2332 | 1.5 | 46 | |
| | | | | | 31 Su | 0329 | 0.8 | 25 | | 31 W | 0406 | -0.5 | -14 | |
| | | | | | | 0813 | 1.4 | 42 | | | 1047 | 1.6 | 49 | |
| | | | | | ● | 1512 | -1.4 | -43 | | | 1620 | -0.7 | -22 | |
| | | | | | | 2313 | 1.9 | 58 | | | 2324 | 1.5 | 46 | |
| 16 F | 0511 | -0.7 | -21 | | 16 Th | 0457 | -0.8 | -24 | | 1 Th | 0457 | -0.8 | -24 | |
| | 1240 | 1.2 | 38 | | | 1158 | 1.6 | 50 | | | 1715 | -0.3 | -10 | |
| | 1815 | 0.1 | 4 | | | 1715 | -0.3 | -10 | | | 2357 | 1.4 | 43 | |
| | 2340 | 1.0 | 29 | | | | | | | | | | | |
| 17 Sa | 0556 | -0.8 | -24 | | 17 Su | 0559 | -1.0 | -31 | | 2 F | 0559 | -1.0 | -31 | |
| | 1332 | 1.2 | 38 | | | 1311 | 1.6 | 49 | | | 1830 | 0.1 | 3 | |
| | 1921 | 0.3 | 8 | | | | | | | | | | | |
| 18 Su | 0013 | 0.9 | 27 | | 18 M | 0038 | 1.3 | 40 | | 3 Sa | 0038 | 1.3 | 40 | |
| | 0648 | -0.9 | -27 | | | 0712 | -1.2 | -36 | | | 0712 | -1.2 | -36 | |
| | 1431 | 1.2 | 38 | | | 1428 | 1.6 | 48 | | | 2006 | 0.4 | 12 | |
| | 2026 | 0.4 | 12 | | | | | | | | | | | |
| 19 M | 0053 | 0.8 | 25 | | 19 Tu | 0128 | 1.2 | 37 | | 4 Su | 0128 | 1.2 | 37 | |
| | 0747 | -0.9 | -28 | | | 0826 | -1.3 | -40 | | | 0826 | -1.3 | -40 | |
| | 1537 | 1.3 | 39 | | | 1551 | 1.6 | 49 | | | 2138 | 0.6 | 17 | |
| | 2134 | 0.5 | 14 | | | | | | | | | | | |
| 20 Tu | 0141 | 0.8 | 23 | | 20 W | 0229 | 1.1 | 34 | | 5 M | 0229 | 1.1 | 34 | |
| | 0848 | -1.0 | -29 | | | 0936 | -1.3 | -41 | | | 0936 | -1.3 | -41 | |
| | 1644 | 1.3 | 41 | | | 1712 | 1.7 | 51 | | ○ | 1712 | 1.7 | 51 | |
| ○ | 2243 | 0.5 | 14 | | | 2306 | 0.6 | 17 | | ○ | 2306 | 0.6 | 17 | |
| 21 W | 0239 | 0.7 | 22 | | 21 Th | 0343 | 1.0 | 32 | | 6 Tu | 0343 | 1.0 | 32 | |
| | 0949 | -1.0 | -31 | | | 1043 | -1.3 | -41 | | | 1043 | -1.3 | -41 | |
| | 1744 | 1.4 | 44 | | | 1821 | 1.7 | 53 | | | 1821 | 1.7 | 53 | |
| | 2342 | 0.4 | 12 | | | | | | | | | | | |
| 22 Th | 0346 | 0.7 | 22 | | 22 F | 0017 | 0.5 | 16 | | 7 W | 0017 | 0.5 | 16 | |
| | 1049 | -1.1 | -33 | | | 0502 | 1.0 | 32 | | | 0502 | 1.0 | 32 | |
| | 1836 | 1.5 | 46 | | | 1145 | -1.3 | -40 | | | 1145 | -1.3 | -40 | |
| | | | | | | 1919 | 1.8 | 54 | | | 1919 | 1.8 | 54 | |
| 23 F | 0025 | 0.3 | 10 | | 23 Sa | 0109 | 0.4 | 13 | | 8 Th | 0109 | 0.4 | 13 | |
| | 0455 | 0.8 | 24 | | | 0613 | 1.1 | 33 | | | 0613 | 1.1 | 33 | |
| | 1143 | -1.1 | -35 | | | 1238 | -1.2 | -38 | | | 1238 | -1.2 | -38 | |
| | 1921 | 1.6 | 48 | | | 2009 | 1.7 | 52 | | | 2009 | 1.7 | 52 | |
| 24 Sa | 0059 | 0.2 | 6 | | 24 Su | 0149 | 0.4 | 11 | | 9 F | 0149 | 0.4 | 11 | |
| | 0601 | 1.0 | 29 | | | 0712 | 1.1 | 34 | | | 0712 | 1.1 | 34</ | |

Keelung (Chi-lung Chiang), Taiwan, 2011

Times and Heights of High and Low Waters

| October | | | | November | | | | December | | | | | | | | | | | | | | | |
|-----------------|--------|------|----------------|-----------------|--------|------|-----|-----------------|--------|------|-----|-----------------|--------|------|------|-----------------|------|------|-----|-----------------|------|------|-----|
| Time | Height | | | Time | Height | | | Time | Height | | | Time | Height | | | | | | | | | | |
| | h | m | ft | | h | m | ft | | h | m | ft | | h | m | ft | | | | | | | | |
| 1 Sa | 0530 | -1.8 | -54 | 16 Su | 0508 | -1.3 | -41 | 1 Tu | 0006 | 0.5 | 14 | 16 W | 0608 | -1.9 | -57 | 1 Th | 0111 | 0.1 | 2 | 16 F | 0631 | -2.0 | -62 |
| | 1310 | 1.6 | 50 | | 1315 | 1.2 | 37 | | 0715 | -2.0 | -60 | | 1427 | 1.1 | 34 | | 0738 | -1.8 | -55 | | 1429 | 1.0 | 29 |
| | 1846 | 0.2 | 7 | | 1917 | 0.2 | 7 | | 1502 | 1.3 | 40 | | 2034 | -0.1 | -3 | | 1510 | 1.0 | 29 | | 2034 | -0.7 | -21 |
| | 2344 | 0.9 | 28 | | 2308 | 0.5 | 16 | | 2114 | 0.0 | -1 | | | | | | 2136 | -0.7 | -20 | | | | |
| 2 Su | 0638 | -1.7 | -53 | 17 M | 0554 | -1.4 | -42 | 2 W | 0139 | 0.3 | 10 | 17 Th | 0014 | 0.2 | 6 | 2 F | 0245 | 0.0 | 0 | 17 Sa | 0129 | 0.1 | 2 |
| | 1420 | 1.6 | 48 | | 1406 | 1.2 | 37 | | 0824 | -1.7 | -52 | | 0706 | -1.7 | -53 | | 0843 | -1.4 | -44 | | 0733 | -1.7 | -53 |
| | 2014 | 0.4 | 11 | | 2014 | 0.2 | 7 | | 1600 | 1.2 | 38 | | 1514 | 1.1 | 34 | | 1557 | 0.9 | 26 | | 1512 | 0.9 | 27 |
| | | | | | 2351 | 0.5 | 15 | | 2222 | -0.3 | -8 | | 2127 | -0.3 | -8 | | 2235 | -0.9 | -27 | | 2132 | -1.0 | -32 |
| 3 M | 0045 | 0.8 | 25 | 18 Tu | 0649 | -1.4 | -42 | 3 Th | 0315 | 0.3 | 9 | 18 F | 0142 | 0.2 | 5 | 3 Sa | 0417 | 0.0 | 1 | 18 Su | 0306 | 0.1 | 2 |
| | 0752 | -1.7 | -51 | | 1502 | 1.2 | 37 | | 0932 | -1.4 | -43 | | 0811 | -1.6 | -49 | | 0950 | -1.1 | -34 | | 0844 | -1.4 | -42 |
| | 1533 | 1.5 | 47 | | 2112 | 0.2 | 6 | | 1654 | 1.2 | 36 | | 1602 | 1.1 | 34 | | 1642 | 0.8 | 23 | | 1557 | 0.8 | 25 |
| | 2137 | 0.3 | 10 | | 2301 | 0.0 | -1 | | 2319 | -0.5 | -14 | | 2217 | -0.5 | -16 | | 2326 | -1.1 | -34 | | 2227 | -1.4 | -44 |
| 4 Tu | 0203 | 0.7 | 22 | 19 W | 0051 | 0.4 | 13 | 4 F | 0445 | 0.4 | 11 | 19 Sa | 0315 | 0.2 | 6 | 4 Su | 0542 | 0.2 | 5 | 19 M | 0443 | 0.2 | 6 |
| | 0904 | -1.5 | -47 | | 0752 | -1.3 | -41 | | 1038 | -1.1 | -35 | | 0920 | -1.4 | -43 | | 1100 | -0.8 | -25 | | 1001 | -1.0 | -32 |
| | 1642 | 1.5 | 46 | | 1559 | 1.2 | 38 | | 1744 | 1.1 | 33 | | 1649 | 1.0 | 32 | | 1724 | 0.6 | 19 | | 1642 | 0.7 | 22 |
| | 2254 | 0.2 | 6 | | 2210 | 0.1 | 3 | | | | | | 2304 | -0.9 | -26 | | | | | | 2319 | -1.8 | -56 |
| 5 W | 0332 | 0.7 | 21 | 20 Th | 0206 | 0.4 | 12 | 5 Sa | 0007 | -0.7 | -21 | 20 Su | 0447 | 0.3 | 10 | 5 M | 0011 | -1.3 | -41 | 20 Tu | 0607 | 0.5 | 14 |
| | 1013 | -1.4 | -42 | | 0858 | -1.3 | -40 | | 0603 | 0.5 | 15 | | 1030 | -1.2 | -37 | | 0656 | 0.4 | 11 | | 1121 | -0.8 | -23 |
| | 1744 | 1.5 | 46 | | 1653 | 1.3 | 39 | | 1142 | -0.9 | -28 | | 1733 | 1.0 | 30 | | 1210 | -0.6 | -17 | | 1726 | 0.6 | 18 |
| | 2354 | 0.0 | 1 | | 2301 | 0.0 | -1 | | 1828 | 1.0 | 29 | | 2347 | -1.2 | -38 | | 1802 | 0.5 | 15 | | | | |
| 6 Th | 0459 | 0.7 | 22 | 21 F | 0328 | 0.4 | 13 | 6 Su | 0048 | -0.9 | -26 | 21 M | 0607 | 0.6 | 18 | 6 Tu | 0050 | -1.5 | -46 | 21 W | 0008 | -2.2 | -68 |
| | 1117 | -1.2 | -38 | | 1003 | -1.3 | -39 | | 0710 | 0.7 | 20 | | 1137 | -1.0 | -30 | | 0759 | 0.6 | 17 | | 0719 | 0.8 | 23 |
| | 1837 | 1.4 | 44 | | 1742 | 1.3 | 40 | | 1241 | -0.7 | -21 | | 1814 | 0.9 | 27 | | 1316 | -0.4 | -11 | | 1235 | -0.5 | -16 |
| | | | | | 2343 | -0.2 | -7 | | 1907 | 0.8 | 25 | | | | | | 1834 | 0.4 | 11 | | 1806 | 0.5 | 15 |
| 7 F | 0041 | -0.1 | -3 | 22 Sa | 0451 | 0.6 | 17 | 7 M | 0122 | -1.0 | -31 | 22 Tu | 0028 | -1.6 | -50 | 7 W | 0125 | -1.7 | -51 | 22 Th | 0055 | -2.6 | -78 |
| | 0613 | 0.8 | 25 | | 1105 | -1.2 | -38 | | 0808 | 0.8 | 24 | | 0716 | 0.9 | 26 | | 0853 | 0.7 | 22 | | 0823 | 1.0 | 30 |
| | 1215 | -1.0 | -32 | | 1827 | 1.3 | 39 | | 1335 | -0.5 | -15 | | 1240 | -0.8 | -24 | | 1416 | -0.2 | -7 | | 1338 | -0.3 | -10 |
| | 1924 | 1.3 | 41 | | | | | | 1939 | 0.7 | 20 | | 1849 | 0.8 | 23 | | 1858 | 0.3 | 8 | | 1840 | 0.4 | 13 |
| 8 Sa | 0120 | -0.2 | -7 | 23 Su | 0020 | -0.5 | -16 | 8 Tu | 0153 | -1.1 | -35 | 23 W | 0108 | -2.0 | -62 | 8 Th | 0155 | -1.8 | -55 | 23 F | 0138 | -2.8 | -86 |
| | 0715 | 0.9 | 28 | | 0605 | 0.8 | 23 | | 0900 | 0.9 | 28 | | 0818 | 1.1 | 34 | | 0940 | 0.9 | 26 | | 0920 | 1.1 | 34 |
| | 1306 | -0.9 | -27 | | 1203 | -1.2 | -36 | | 1426 | -0.3 | -9 | | 1337 | -0.6 | -17 | | 1511 | -0.1 | -4 | | 1431 | -0.2 | -6 |
| | 2004 | 1.2 | 37 | | 1906 | 1.2 | 37 | | 2002 | 0.5 | 16 | | 1919 | 0.7 | 20 | | 1917 | 0.2 | 6 | | 1910 | 0.4 | 12 |
| 9 Su | 0152 | -0.4 | -11 | 24 M | 0054 | -0.9 | -26 | 9 W | 0219 | -1.3 | -40 | 24 Th | 0148 | -2.4 | -73 | 9 F | 0223 | -1.9 | -59 | 24 Sa | 0220 | -3.0 | -91 |
| | 0810 | 1.0 | 31 | | 0710 | 1.0 | 30 | | 0946 | 1.0 | 31 | | 0917 | 1.3 | 39 | | 1021 | 0.9 | 28 | | 1012 | 1.1 | 35 |
| | 1351 | -0.7 | -21 | | 1255 | -1.0 | -32 | | 1514 | -0.2 | -5 | | 1430 | -0.3 | -10 | | 1600 | 0.0 | -1 | | 1516 | -0.1 | -4 |
| | 2038 | 1.1 | 33 | | 1941 | 1.1 | 34 | | 2015 | 0.4 | 13 | | 1944 | 0.6 | 17 | | 1937 | 0.2 | 5 | | 1942 | 0.4 | 12 |
| 10 M | 0219 | -0.5 | -15 | 25 Tu | 0128 | -1.2 | -37 | 10 Th | 0243 | -1.4 | -44 | 25 F | 0229 | -2.7 | -82 | 10 Sa | 0248 | -2.1 | -63 | 25 Su | 0301 | -3.1 | -93 |
| | 0900 | 1.1 | 33 | | 0811 | 1.2 | 37 | | 1027 | 1.0 | 32 | | 1012 | 1.4 | 42 | | 1057 | 1.0 | 29 | | 1059 | 1.1 | 34 |
| | 1432 | -0.5 | -15 | | 1343 | -0.9 | -26 | | 1602 | 0.0 | -1 | | 1521 | -0.1 | -4 | | 1638 | 0.0 | 0 | | 1557 | -0.1 | -4 |
| | 2105 | 0.9 | 28 | | 2010 | 1.0 | 30 | | 2026 | 0.4 | 11 | | 2009 | 0.5 | 16 | | 1959 | 0.2 | 5 | | 2021 | 0.4 | 11 |
| 11 Tu | 0243 | -0.7 | -20 | 26 W | 0203 | -1.6 | -49 | 11 F | 0307 | -1.6 | -48 | 26 Sa | 0311 | -2.9 | -87 | 11 Su | 0314 | -2.2 | -66 | 26 M | 0342 | -3.0 | -91 |
| | 0946 | 1.1 | 34 | | 0910 | 1.4 | 43 | | 1105 | 1.1 | 33 | | 1106 | 1.4 | 43 | | 1130 | 1.0 | 30 | | 1142 | 1.0 | 32 |
| | 1511 | -0.3 | -9 | | 1430 | -0.6 | -18 | | 1648 | 0.0 | 1 | | 1648 | 0.0 | -1 | | 1707 | 0.0 | 1 | | 1640 | -0.2 | -6 |
| | 2123 | 0.8 | 24 | | 2035 | 0.9 | 26 | | 2044 | 0.3 | 10 | | 2044 | 0.3 | 10 | | 2042 | 0.5 | 15 | | 2025 | 0.2 | 6 | 2109 | 0.3 | 10 |
| 12 W | 0306 | -0.8 | -25 | 27 Th | 0242 | -2.0 | -61 | 12 Sa | 0332 | -1.7 | -52 | 27 Su | 0356 | -2.9 | -87 | 12 M | 0342 | -2.3 | -69 | 27 Tu | 0424 | -2.8 | -86 |
| | 1028 | 1.1 | 35 | | 1008 | 1.5 | 47 | | 1141 | 1.1 | 33 | | 1157 | 1.3 | 41 | | 1202 | 1.0 | 30 | | 1222 | 1.0 | 29 |
| | 1551 | -0.1 | -4 | | 1519 | -0.3 | -10 | | 1732 | 0.1 | 3 | | 1713 | 0.0 | 0 | | 1732 | 0.0 | 0 | | 1730 | -0.4 | -11 |
| | 2133 | 0.7 | 21 | | 2059 | 0.8 | 24 | | 2107 | 0.3 | 10 | | 2126 | 0.5 | 14 | | 2059 | 0.2 | 7 | | 2207 | 0.2 | 7 |
| 13 Th | 0330 | -1.0 | -30 | 28 F | 0324 | -2.3 | -69 | 13 Su | 0402 | -1.8 | -56 | 28 M | 0445 | -2.7 | -83 | 13 Tu | 0415 | -2.3 | -71 | 28 W | 0509 | -2.5 | -77 |
| | 1108 | 1.2 | 36 | | 1106 | 1.6 | 49 | | 1218 | 1.1 | 34 | | 1246 | 1.2 | 38 | | 1235 | 1.0 | 30 | | 1301 | 0.9 | 26 |
| | 1635 | 0.0 | 0 | | 1614 | -0.1 | -3 | | 1814 | 0.1 | 3 | | 1817 | -0.1 | -2 | | 1801 | -0.1 | -2 | | 1830 | -0.5 | -16 |
| | 2145 | 0.6 | 19 | | 2127 | 0.7 | 22 | | 2135 | 0.3 | 10 | | 2222 | 0.3 | 10 | | 2145 | 0.2 | 7 | | 2321 | 0.1 | 2 |
| 14 F | 0357 | -1.1 | -35 | 29 Sa | 0412 | -2.4 | -73 | 14 M | 0437 | -1.9 | -58 | 29 Tu | 0537 | -2.5 | -76 | 14 W | 0453 | -2.3 | -71 | 29 Th | 0557 | -2.2 | -67 |
| | 1148 | 1.2 | 37 | | 1204 | 1.6 | 48 | | 1258 | 1.1 | 34 | | 1335 | 1.1 | 35 | | 1311 | 1.0 | 30 | | 1339 | 0.8 | 24 |
| | 1726 | 0.1 | 3 | | 1725 | 0.1 | 3 | | 1857 | 0.1 | 3 | | 1924 | -0.2 | -6 | | 1842 | -0.2 | -6 | | 1935 | -0.7 | -22 |
| | 2207 | 0.6 | 18 | | 2204 | 0.7 | 21 | | 2212 | 0.3 | 9 | | 2337 | 0.2 | 6 | | 2244 | 0.2 | 6 | | | | |
| 15 Sa | 0429 | -1.3 | -39 | 30 Su | 0505 | -2.4 | -72 | 15 Tu | 0519 | -1.9 | -58 | 30 W | 0635 | -2.2 | -66 | 15 Th | 0538 | -2.2 | -68 | 30 F | 0046 | -0.1 | -2 |
| | 1229 | 1.2 | 37 | | 1302 | 1.5 | 46 | | 1341 | 1.1 | 34 | | 1423 | 1.0 | 32 | | 1348 | 1.0 | 29 | | 0652 | -1.8 | -55 |
| | 1822 | 0.2 | 5 | | 1846 | 0.2 | 5 | | 1943 | 0.0 | 1 | | 2031 | -0.4 | -12 | | 1936 | -0.4 | -12 | | 1417 | 0.7 | 21 |
| | 2234 | 0.6 | 17 | | 2254 | 0.6 | 18 | | 2303 | 0.3 | 8 | | | | | | 2359 | 0.1 | 4 | | 2039 | -1.0 | -29 |
| | | | 31 M | 0607 | -2.2 | -67 | | | | | | | | | | 31 Sa | 0211 | -0.2 | -5 | | | | |
| | | | | 1402 | 1.4 | 43 | | | | | | | | | | | 0753 | -1.4 | -43 | | | | |
| | | | 2001 | 0.1 | 3 | | | | | | | | | | 1456 | 0.6 | 18 | | | | | | |
| | | | | | | | | | | | | | | | 2139 | -1.2 | -36 | | | | | | |

Time meridian 120° E. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to the chart datum of soundings.

Huangpu, China, 2011

Times and Heights of High and Low Waters

| October | | | | November | | | | December | | | | | | | | | | | | | | | |
|-----------------|------|--------|-----|-----------------|------|--------|------|-----------------|------|--------|------|-----------------|------|--------|------|-----------------|------|------|------|-----------------|------|------|------|
| Time | | Height | | Time | | Height | | Time | | Height | | Time | | Height | | | | | | | | | |
| | h m | ft | cm | | h m | ft | cm | | h m | ft | cm | | h m | ft | cm | | | | | | | | |
| 1 Sa | 0202 | 10.2 | 310 | 16 Su | 0130 | 9.4 | 285 | 1 Tu | 0206 | 9.2 | 281 | 1 Th | 0333 | 8.5 | 258 | 16 F | 0247 | 8.5 | 260 | | | | |
| | 1032 | 1.0 | 30 | | 1010 | 1.2 | 36 | | 1200 | 1.2 | 37 | | 1115 | 1.0 | 29 | | 1216 | 1.5 | 45 | 1141 | 0.8 | 25 | |
| | 1539 | 7.6 | 232 | | 1526 | 6.9 | 211 | | 1811 | 6.5 | 197 | | 1706 | 6.3 | 192 | | 1850 | 6.7 | 204 | 1738 | 6.7 | 204 | |
| | 2139 | 3.0 | 90 | | 2045 | 3.5 | 108 | | 2237 | 5.0 | 152 | | 2130 | 4.4 | 135 | | 2335 | 4.8 | 145 | 2239 | 3.7 | 113 | |
| 2 Su | 0235 | 10.1 | 308 | 17 M | 0158 | 9.4 | 285 | 2 W | 0356 | 8.9 | 270 | 17 Th | 0252 | 8.8 | 267 | 2 F | 0431 | 7.5 | 230 | 17 Sa | 0342 | 7.9 | 240 |
| | 1124 | 1.2 | 37 | | 1049 | 1.1 | 35 | | 1256 | 1.6 | 49 | | 1200 | 1.1 | 34 | | 1253 | 1.8 | 55 | | 1219 | 1.2 | 37 |
| | 1640 | 6.9 | 211 | | 1613 | 6.5 | 198 | | 1946 | 6.5 | 199 | | 1810 | 6.3 | 192 | | 1950 | 6.9 | 209 | | 1827 | 7.0 | 212 |
| | 2202 | 3.9 | 118 | | 2108 | 4.0 | 122 | | 2359 | 5.4 | 165 | | 2235 | 4.7 | 144 | | ● | ● | 2355 | | 3.7 | 114 | |
| 3 M | 0318 | 9.8 | 298 | 18 Tu | 0226 | 9.2 | 279 | 3 Th | 0507 | 8.0 | 243 | 18 F | 0352 | 8.1 | 248 | 3 Sa | 0104 | 4.7 | 143 | 18 Su | 0452 | 7.1 | 216 |
| | 1217 | 1.4 | 44 | | 1135 | 1.3 | 39 | | 1357 | 1.9 | 59 | | 1255 | 1.4 | 43 | | 0542 | 6.6 | 202 | | 1300 | 1.7 | 51 |
| | 1800 | 6.3 | 192 | | 1713 | 6.1 | 186 | | 2104 | 6.9 | 211 | | 1919 | 6.6 | 201 | | 1338 | 2.2 | 66 | | 1914 | 7.3 | 224 |
| | 2240 | 4.7 | 144 | | 2132 | 4.6 | 139 | | ● | ● | ● | | ● | 2040 | 7.1 | | 217 | ● | ● | | | | |
| 4 Tu | 0416 | 9.1 | 277 | 19 W | 0306 | 8.8 | 267 | 4 F | 0149 | 5.2 | 160 | 19 Sa | 0006 | 4.8 | 146 | 4 Su | 0238 | 4.2 | 128 | 19 M | 0127 | 3.5 | 107 |
| | 1323 | 1.8 | 54 | | 1227 | 1.5 | 47 | | 0634 | 7.3 | 221 | | 0511 | 7.5 | 229 | | 0708 | 5.9 | 179 | | 0620 | 6.3 | 193 |
| | 2013 | 6.1 | 187 | | 1834 | 5.8 | 178 | | 1459 | 2.1 | 65 | | 1354 | 1.7 | 52 | | 1429 | 2.6 | 78 | | 1350 | 2.1 | 65 |
| | 2356 | 5.5 | 168 | | 2214 | 5.1 | 156 | | 2151 | 7.3 | 224 | | 2016 | 7.1 | 217 | | 2115 | 7.4 | 226 | | 1956 | 7.9 | 240 |
| 5 W | 0537 | 8.4 | 255 | 20 Th | 0405 | 8.2 | 251 | 5 Sa | 0317 | 4.6 | 140 | 20 Su | 0148 | 4.3 | 132 | 5 M | 0358 | 3.5 | 106 | 20 Tu | 0304 | 2.9 | 89 |
| | 1444 | 2.0 | 60 | | 1335 | 1.7 | 52 | | 0805 | 6.8 | 208 | | 0648 | 7.0 | 214 | | 0859 | 5.4 | 166 | | 0831 | 5.8 | 177 |
| | 2202 | 6.6 | 202 | | 2020 | 6.1 | 186 | | 1550 | 2.3 | 69 | | 1452 | 2.0 | 60 | | 1516 | 2.9 | 88 | | 1447 | 2.6 | 80 |
| | ● | ● | ● | | ● | 2220 | 7.7 | | 235 | 2220 | 7.7 | | 235 | 2059 | 7.8 | | 237 | 2139 | 7.7 | | 236 | 2035 | 8.5 | 258 |
| 6 Th | 0213 | 5.5 | 169 | 21 F | 0004 | 5.5 | 168 | 6 Su | 0421 | 3.8 | 115 | 21 M | 0317 | 3.6 | 109 | 6 Tu | 0503 | 2.7 | 82 | 21 W | 0438 | 2.2 | 66 |
| | 0714 | 7.9 | 242 | | 0537 | 7.7 | 235 | | 0930 | 6.7 | 204 | | 0832 | 6.8 | 207 | | 1039 | 5.5 | 168 | | 1026 | 5.8 | 177 |
| | 1601 | 2.0 | 60 | | 1448 | 1.8 | 55 | | 1633 | 2.4 | 72 | | 1544 | 2.2 | 66 | | 1600 | 3.1 | 96 | | 1546 | 3.0 | 90 |
| | 2247 | 7.2 | 219 | | 2125 | 6.7 | 204 | | 2241 | 8.0 | 244 | | 2132 | 8.4 | 257 | | 2159 | 8.1 | 247 | | 2117 | 9.1 | 277 |
| 7 F | 0343 | 4.8 | 147 | 22 Sa | 0216 | 5.1 | 154 | 7 M | 0518 | 3.1 | 93 | 22 Tu | 0438 | 2.7 | 82 | 7 W | 0556 | 1.9 | 59 | 22 Th | 0553 | 1.4 | 42 |
| | 0845 | 7.8 | 239 | | 0723 | 7.6 | 232 | | 1042 | 6.8 | 206 | | 1016 | 6.9 | 211 | | 1139 | 5.8 | 176 | | 1146 | 6.0 | 184 |
| | 1656 | 1.9 | 59 | | 1553 | 1.8 | 55 | | 1703 | 2.5 | 77 | | 1634 | 2.3 | 70 | | 1641 | 3.3 | 100 | | 1642 | 3.2 | 97 |
| | 2312 | 7.6 | 231 | | 2200 | 7.4 | 225 | | 2255 | 8.3 | 253 | | 2203 | 9.1 | 278 | | 2219 | 8.5 | 260 | | 2202 | 9.6 | 293 |
| 8 Sa | 0443 | 4.0 | 121 | 23 Su | 0340 | 4.1 | 125 | 8 Tu | 0608 | 2.4 | 73 | 23 W | 0549 | 1.9 | 58 | 8 Th | 0644 | 1.3 | 41 | 23 F | 0656 | 0.8 | 24 |
| | 0954 | 8.0 | 243 | | 0857 | 7.8 | 238 | | 1136 | 6.9 | 210 | | 1129 | 7.1 | 216 | | 1221 | 6.0 | 183 | | 1246 | 6.2 | 190 |
| | 1738 | 1.9 | 59 | | 1644 | 1.8 | 55 | | 1737 | 2.6 | 80 | | 1717 | 2.5 | 76 | | 1717 | 3.4 | 103 | | 1736 | 3.3 | 100 |
| | 2334 | 7.9 | 240 | | 2229 | 8.1 | 246 | | 2309 | 8.6 | 263 | | 2234 | 9.7 | 296 | | 2245 | 8.9 | 272 | | 2247 | 10.0 | 305 |
| 9 Su | 0531 | 3.2 | 98 | 24 M | 0446 | 3.1 | 95 | 9 W | 0653 | 1.8 | 56 | 24 Th | 0653 | 1.2 | 36 | 9 F | 0726 | 1.0 | 32 | 24 Sa | 0752 | 0.5 | 14 |
| | 1048 | 8.1 | 246 | | 1013 | 8.1 | 247 | | 1217 | 7.0 | 212 | | 1227 | 7.2 | 219 | | 1258 | 6.2 | 188 | | 1336 | 6.3 | 193 |
| | 1805 | 2.1 | 63 | | 1730 | 1.8 | 55 | | 1802 | 2.8 | 86 | | 1758 | 2.7 | 81 | | 1749 | 3.3 | 102 | | 1821 | 3.4 | 104 |
| | 2350 | 8.1 | 248 | | 2257 | 8.8 | 267 | | 2324 | 9.0 | 273 | | 2309 | 10.2 | 312 | | 2312 | 9.3 | 283 | | 2330 | 10.2 | 310 |
| 10 M | 0612 | 2.7 | 81 | 25 Tu | 0545 | 2.3 | 69 | 10 Th | 0738 | 1.4 | 43 | 25 F | 0751 | 0.7 | 22 | 10 Sa | 0800 | 0.8 | 24 | 25 Su | 0842 | 0.4 | 13 |
| | 1133 | 8.1 | 246 | | 1118 | 8.3 | 253 | | 1255 | 7.0 | 213 | | 1321 | 7.1 | 217 | | 1332 | 6.3 | 191 | | 1420 | 6.4 | 194 |
| | 1836 | 2.1 | 65 | | 1803 | 1.9 | 59 | | 1834 | 2.9 | 88 | | 1843 | 2.9 | 87 | | 1825 | 3.4 | 103 | | 1900 | 3.3 | 101 |
| | ● | ● | ● | | 2324 | 9.4 | 286 | | 2347 | 9.3 | 282 | | ● | 2347 | 10.5 | | 321 | ● | ● | | ● | ● | |
| 11 Tu | 0004 | 8.4 | 255 | 26 W | 0645 | 1.6 | 48 | 11 F | 0811 | 1.2 | 37 | 26 Sa | 0845 | 0.5 | 15 | 11 Su | 0841 | 0.7 | 20 | 26 M | 0015 | 10.2 | 310 |
| | 0654 | 2.2 | 66 | | 1214 | 8.3 | 254 | | 1331 | 7.0 | 213 | | 1413 | 7.0 | 213 | | 1406 | 6.3 | 192 | | 0922 | 0.7 | 20 |
| | 1214 | 8.0 | 245 | | 1843 | 2.0 | 60 | | 1856 | 3.1 | 94 | | 1928 | 3.3 | 102 | | 1853 | 3.3 | 102 | | 1503 | 6.4 | 196 |
| | 1852 | 2.3 | 70 | | 2354 | 9.9 | 302 | | ● | ● | ● | | ● | 1928 | 3.3 | | 102 | ● | ● | | 1945 | 3.2 | 98 |
| 12 W | 0018 | 8.6 | 263 | 27 Th | 0746 | 1.1 | 33 | 12 Sa | 0009 | 9.5 | 290 | 27 Su | 0024 | 10.6 | 323 | 12 M | 0012 | 9.6 | 292 | 27 Tu | 0100 | 9.9 | 302 |
| | 0740 | 1.8 | 55 | | 1307 | 8.2 | 249 | | 0849 | 1.0 | 30 | | 0933 | 0.5 | 16 | | 0910 | 0.7 | 22 | | 0958 | 0.7 | 22 |
| | 1252 | 7.9 | 241 | | 1917 | 2.3 | 71 | | 1407 | 6.9 | 211 | | 1505 | 6.9 | 209 | | 1443 | 6.3 | 193 | | 1545 | 6.5 | 197 |
| | 1921 | 2.5 | 76 | | ● | ● | 1927 | | 3.3 | 101 | 1927 | | 3.3 | 101 | 1956 | | 3.6 | 109 | 1931 | | 3.3 | 102 | 2034 | 3.2 | 98 |
| 13 Th | 0032 | 8.9 | 270 | 28 F | 0020 | 10.3 | 315 | 13 Su | 0034 | 9.6 | 292 | 28 M | 0107 | 10.4 | 317 | 13 Tu | 0046 | 9.5 | 290 | 28 W | 0144 | 9.4 | 287 |
| | 0817 | 1.7 | 51 | | 0845 | 0.7 | 22 | | 0926 | 1.0 | 30 | | 1012 | 0.7 | 20 | | 0948 | 0.6 | 19 | | 1037 | 0.9 | 27 |
| | 1329 | 7.8 | 237 | | 1401 | 7.9 | 240 | | 1446 | 6.8 | 207 | | 1557 | 6.7 | 204 | | 1522 | 6.4 | 194 | | 1625 | 6.6 | 200 |
| | 1942 | 2.6 | 78 | | 1953 | 2.6 | 79 | | 1948 | 3.5 | 106 | | 2040 | 3.8 | 116 | | 2003 | 3.5 | 106 | | 2114 | 3.4 | 103 |
| 14 F | 0051 | 9.1 | 278 | 29 Sa | 0053 | 10.6 | 323 | 14 M | 0102 | 9.6 | 293 | 29 Tu | 0154 | 10.0 | 304 | 14 W | 0119 | 9.4 | 285 | 29 Th | 0224 | 8.8 | 269 |
| | 0855 | 1.4 | 42 | | 0939 | 0.7 | 20 | | 0957 | 0.9 | 26 | | 1057 | 0.8 | 24 | | 1024 | 0.7 | 22 | | 1100 | 1.1 | 33 |
| | 1407 | 7.5 | 230 | | 1456 | 7.5 | 229 | | 1526 | 6.6 | 202 | | 1652 | 6.6 | 202 | | 1604 | 6.4 | 195 | | 1704 | 6.6 | 202 |
| | 2003 | 2.9 | 88 | | 2034 | 3.1 | 94 | | 2017 | 3.8 | 115 | | 2133 | 4.1 | 126 | | 2043 | 3.5 | 107 | | 2159 | 3.5 | 107 |
| 15 Sa | 0110 | 9.3 | 284 | 30 Su | 0126 | 10.6 | 323 | 15 Tu | 0130 | 9.4 | 288 | 30 W | 0241 | 9.3 | 284 | 15 Th | 0200 | 9.0 | 275 | 30 F | 0310 | 8.0 | 245 |
| | 0936 | 1.2 | 37 | | 1026 | 0.8 | 24 | | 1039 | 0.8 | 25 | | 1141 | 1.1 | 34 | | 1058 | 0.7 | 21 | | 1132 | 1.2 | 37 |
| | 1445 | 7.3 | 222 | | 1552 | 7.1 | 216 | | 1612 | 6.4 | 196 | | 1749 | 6.6 | 201 | | 1650 | 6.5 | 199 | | 1746 | 6.6 | 202 |
| | 2030 | 3.1 | 94 | | 2057 | 3.8 | 115 | | 2047 | 4.1 | 124 | | 2226 | 4.5 | 138 | | 2137 | 3.6 | 109 | | 2254 | 3.7 | 114 |
| | | | | 31 M | | | | | | | | | | | | | | | | | | | |

Hong Kong, China, 2011

Times and Heights of High and Low Waters

| April | | | | May | | | | June | | | | | | | | | | | | | | | | | | | | | |
|-----------------|------|--------|-----|------|-----------------|--------|-----|------|----|-----------------|------|------|-----|--------|-----------------|------|-----|-----|--|-----------------|------|-----|-----|------|-----------------|------|-----|-----|--|
| Time | | Height | | Time | | Height | | Time | | Height | | Time | | Height | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | | | | | | |
| 1 F | 0220 | 2.3 | 70 | | 16 Sa | 0139 | 1.9 | 58 | | 1 Su | 0143 | 3.1 | 95 | | 16 M | 0125 | 2.8 | 86 | | 1 W | 0123 | 3.7 | 112 | | 16 Th | 0201 | 3.4 | 105 | |
| | 0859 | 5.3 | 162 | | | 0814 | 5.8 | 178 | | | 0817 | 6.1 | 186 | | | 0756 | 7.0 | 214 | | | 0806 | 7.0 | 214 | | | 0848 | 7.8 | 238 | |
| | 1406 | 3.0 | 90 | | | 1348 | 2.4 | 72 | | | 1436 | 2.3 | 71 | | | 1439 | 1.3 | 40 | | | 1544 | 1.3 | 41 | | | 1622 | 0.8 | 23 | |
| | 2032 | 5.9 | 180 | | | 2037 | 6.1 | 187 | | | 2104 | 5.1 | 155 | | | 2143 | 5.1 | 155 | | | 2224 | 4.4 | 135 | | | 2326 | 4.4 | 135 | |
| 2 Sa | 0243 | 2.5 | 75 | | 17 Su | 0214 | 2.1 | 64 | | 2 M | 0203 | 3.3 | 101 | | 17 Tu | 0200 | 3.0 | 92 | | 2 Th | 0154 | 3.7 | 112 | | 17 F | 0244 | 3.5 | 108 | |
| | 0913 | 5.6 | 171 | | | 0842 | 6.4 | 196 | | | 0831 | 6.4 | 196 | | | 0831 | 7.5 | 230 | | | 0836 | 7.3 | 222 | | | 0932 | 7.8 | 239 | |
| | 1445 | 2.6 | 78 | | | 1441 | 1.6 | 50 | | | 1514 | 1.9 | 58 | | | 1532 | 0.9 | 27 | | | 1623 | 1.2 | 36 | | | 1706 | 0.9 | 28 | |
| | 2110 | 5.9 | 179 | | | 2137 | 6.0 | 183 | | | 2147 | 5.0 | 153 | | | 2238 | 4.9 | 150 | | | 2301 | 4.5 | 137 | | | | | | |
| 3 Su | 0303 | 2.7 | 81 | | 18 M | 0246 | 2.3 | 71 | | 3 Tu | 0222 | 3.4 | 105 | | 18 W | 0235 | 3.2 | 99 | | 3 F | 0229 | 3.7 | 113 | | 18 Sa | 0008 | 4.5 | 136 | |
| | 0926 | 5.9 | 180 | | | 0912 | 7.0 | 213 | | | 0848 | 6.8 | 206 | | | 0908 | 7.9 | 240 | | | 0909 | 7.4 | 227 | | | 0328 | 3.6 | 111 | |
| | 1523 | 2.2 | 68 | | | 1533 | 1.1 | 34 | | | 1552 | 1.6 | 50 | | | 1623 | 0.7 | 22 | | | 1703 | 1.1 | 33 | | | 1012 | 7.7 | 234 | |
| | 2147 | 5.7 | 175 | | | 2232 | 5.7 | 175 | | | 2227 | 4.9 | 149 | | | 2329 | 4.8 | 145 | | | 2340 | 4.5 | 138 | | | 1748 | 1.2 | 36 | |
| 4 M | 0322 | 2.9 | 87 | | 19 Tu | 0318 | 2.7 | 81 | | 4 W | 0243 | 3.5 | 107 | | 19 Th | 0309 | 3.4 | 104 | | 4 Sa | 0308 | 3.7 | 114 | | 19 Su | 0052 | 4.5 | 138 | |
| | 0939 | 6.2 | 189 | | | 0944 | 7.4 | 227 | | | 0908 | 7.0 | 214 | | | 0948 | 8.0 | 244 | | | 0945 | 7.5 | 229 | | | 0415 | 3.8 | 115 | |
| | 1600 | 2.0 | 60 | | | 1623 | 0.9 | 27 | | | 1630 | 1.5 | 45 | | | 1714 | 0.8 | 25 | | | 1745 | 1.1 | 34 | | | 1049 | 7.4 | 225 | |
| | 2223 | 5.5 | 169 | | | 2326 | 5.4 | 164 | | | 2305 | 4.8 | 146 | | | | | | | | | | | 1827 | | 1.5 | 47 | | |
| 5 Tu | 0339 | 3.1 | 93 | | 20 W | 0349 | 3.0 | 90 | | 5 Th | 0307 | 3.6 | 109 | | 20 F | 0020 | 4.6 | 140 | | 5 Su | 0024 | 4.6 | 139 | | 20 M | 0140 | 4.6 | 140 | |
| | 0955 | 6.5 | 197 | | | 1019 | 7.7 | 235 | | | 0930 | 7.2 | 220 | | | 0344 | 3.6 | 111 | | | 0351 | 3.8 | 117 | | | 0505 | 3.9 | 120 | |
| | 1638 | 1.8 | 56 | | | 1715 | 0.9 | 27 | | | 1711 | 1.4 | 43 | | | 1028 | 7.9 | 241 | | | 1024 | 7.4 | 227 | | | 1124 | 7.0 | 213 | |
| | 2301 | 5.3 | 161 | | | | | | | | 2344 | 4.7 | 142 | | | 1804 | 1.1 | 34 | | | 1829 | 1.2 | 36 | | | 1904 | 1.9 | 57 | |
| 6 W | 0358 | 3.2 | 97 | | 21 Th | 0019 | 5.0 | 151 | | 6 F | 0333 | 3.6 | 111 | | 21 Sa | 0114 | 4.5 | 136 | | 6 M | 0116 | 4.6 | 139 | | 21 Tu | 0233 | 4.7 | 144 | |
| | 1013 | 6.6 | 202 | | | 0418 | 3.3 | 100 | | | 0955 | 7.3 | 222 | | | 0420 | 3.9 | 118 | | | 0441 | 3.9 | 120 | | | 0600 | 4.1 | 125 | |
| | 1718 | 1.8 | 54 | | | 1055 | 7.7 | 236 | | | 1754 | 1.4 | 44 | | | 1107 | 7.6 | 231 | | | 1106 | 7.2 | 220 | | | 1200 | 6.5 | 198 | |
| | 2340 | 5.0 | 152 | | | 1809 | 1.1 | 35 | | | | | | | | 1854 | 1.5 | 46 | | | 1914 | 1.3 | 41 | | | 1939 | 2.2 | 68 | |
| 7 Th | 0418 | 3.3 | 101 | | 22 F | 0117 | 4.6 | 139 | | 7 Sa | 0029 | 4.5 | 138 | | 22 Su | 0219 | 4.4 | 135 | | 7 Tu | 0216 | 4.6 | 141 | | 22 W | 0324 | 4.9 | 148 | |
| | 1031 | 6.8 | 206 | | | 0447 | 3.6 | 110 | | | 0402 | 3.7 | 114 | | | 0500 | 4.1 | 126 | | | 0542 | 4.1 | 124 | | | 0700 | 4.2 | 128 | |
| | 1800 | 1.8 | 55 | | | 1133 | 7.5 | 229 | | | 1025 | 7.3 | 221 | | | 1146 | 7.2 | 218 | | | 1154 | 6.9 | 209 | | | 1242 | 5.9 | 181 | |
| | | | | | | 1908 | 1.5 | 47 | | | 1841 | 1.5 | 47 | | | 1944 | 1.9 | 58 | | | 2000 | 1.6 | 48 | | | 2013 | 2.5 | 77 | |
| 8 F | 0024 | 4.7 | 142 | | 23 Sa | 0230 | 4.3 | 130 | | 8 Su | 0123 | 4.4 | 134 | | 23 M | 0339 | 4.5 | 138 | | 8 W | 0319 | 4.8 | 145 | | 23 Th | 0407 | 5.1 | 154 | |
| | 0439 | 3.4 | 104 | | | 0513 | 3.9 | 120 | | | 0435 | 3.9 | 119 | | | 0551 | 4.4 | 133 | | | 0654 | 4.1 | 125 | | | 0809 | 4.2 | 127 | |
| | 1051 | 6.8 | 206 | | | 1214 | 7.2 | 218 | | | 1102 | 7.1 | 217 | | | 1227 | 6.6 | 202 | | | 1253 | 6.3 | 193 | | | 1335 | 5.3 | 163 | |
| | 1849 | 1.9 | 58 | | | 2014 | 1.9 | 59 | | | 1933 | 1.6 | 50 | | | 2034 | 2.3 | 69 | | | 2048 | 1.9 | 57 | | | 2045 | 2.8 | 86 | |
| 9 Sa | 0116 | 4.3 | 132 | | 24 Su | 1301 | 6.7 | 203 | | 9 M | 0234 | 4.3 | 132 | | 24 Tu | 0447 | 4.7 | 144 | | 9 Th | 0412 | 5.0 | 152 | | 24 F | 0440 | 5.2 | 160 | |
| | 0502 | 3.6 | 109 | | | 2128 | 2.3 | 69 | | | 0514 | 4.1 | 125 | | | 0706 | 4.6 | 139 | | | 0817 | 4.0 | 122 | | | 0938 | 4.0 | 122 | |
| | 1120 | 6.7 | 204 | | | | | | | | 1148 | 6.9 | 209 | | | 1315 | 6.1 | 186 | | | 1416 | 5.7 | 174 | | | 1448 | 4.8 | 145 | |
| | 1946 | 2.0 | 62 | | | | | | | | 2030 | 1.8 | 54 | | | 2124 | 2.5 | 77 | | | 2136 | 2.2 | 67 | | | 2116 | 3.1 | 94 | |
| 10 Su | 0227 | 4.1 | 124 | | 25 M | 1402 | 6.2 | 188 | | 10 Tu | 0406 | 4.4 | 134 | | 25 W | 0531 | 5.0 | 152 | | 10 F | 0454 | 5.3 | 162 | | 25 Sa | 0508 | 5.5 | 167 | |
| | 0525 | 3.7 | 114 | | | 2241 | 2.4 | 74 | | | 0616 | 4.3 | 131 | | | 0843 | 4.6 | 140 | | | 0951 | 3.7 | 112 | | | 1124 | 3.5 | 108 | |
| | 1203 | 6.6 | 200 | | | | | | | | 1249 | 6.5 | 198 | | | 1419 | 5.6 | 171 | | | 1617 | 5.1 | 156 | | | 1626 | 4.3 | 130 | |
| | 2054 | 2.1 | 64 | | | 2130 | 1.9 | 58 | | | 2130 | 1.9 | 58 | | | 2214 | 2.8 | 85 | | | 2225 | 2.5 | 77 | | | 2147 | 3.3 | 101 | |
| 11 M | 1305 | 6.3 | 193 | | 26 Tu | 0654 | 4.8 | 146 | | 11 W | 0515 | 4.6 | 141 | | 26 Th | 0602 | 5.2 | 159 | | 11 Sa | 0531 | 5.7 | 175 | | 26 Su | 0532 | 5.8 | 176 | |
| | 2211 | 2.1 | 63 | | | 0904 | 4.7 | 143 | | | 0802 | 4.4 | 134 | | | 1034 | 4.3 | 132 | | | 1127 | 3.1 | 94 | | | 1239 | 2.9 | 89 | |
| | | | | | | 1522 | 5.7 | 175 | | | 1418 | 6.1 | 185 | | | 1541 | 5.2 | 157 | | | 1804 | 4.7 | 143 | | | 1812 | 4.0 | 121 | |
| | | | | | | 2339 | 2.6 | 78 | | | 2229 | 2.0 | 62 | | | 2259 | 3.0 | 91 | | | 2312 | 2.9 | 87 | | | 2222 | 3.5 | 107 | |
| 12 Tu | 1446 | 6.1 | 187 | | 27 W | 0712 | 5.0 | 153 | | 12 Th | 0555 | 4.9 | 150 | | 27 F | 0625 | 5.4 | 166 | | 12 Su | 0606 | 6.2 | 190 | | 27 M | 0558 | 6.1 | 185 | |
| | 2321 | 2.0 | 60 | | | 1113 | 4.4 | 134 | | | 0956 | 4.2 | 127 | | | 1159 | 3.8 | 116 | | | 1244 | 2.3 | 71 | | | 1332 | 2.3 | 71 | |
| | | | | | | 1653 | 5.5 | 167 | | | 1619 | 5.7 | 174 | | | 1714 | 4.8 | 146 | | | 1935 | 4.5 | 136 | | | 1950 | 3.9 | 118 | |
| | | | | | | | | | | | 2322 | 2.2 | 67 | | | 2335 | 3.2 | 97 | | | 2356 | 3.1 | 94 | | | 2302 | 3.6 | 110 | |
| 13 W | 0658 | 4.5 | 137 | | 28 Th | 0023 | 2.6 | 80 | | 13 F | 0626 | 5.3 | 163 | | 28 Sa | 0644 | 5.7 | 174 | | 13 M | 0641 | 6.8 | 206 | | 28 Tu | 0627 | 6.4 | 196 | |
| | 0949 | 4.3 | 130 | | | 0731 | 5.2 | 160 | | | 1132 | 3.6 | 109 | | | 1257 | 3.2 | 97 | | | 1347 | 1.6 | 50 | | | 1416 | 1.8 | 55 | |
| | 1642 | 6.0 | 184 | | | 1223 | 3.9 | 119 | | | 1803 | 5.5 | 167 | | | 1843 | 4.6 | 139 | | | 2052 | 4.4 | 134 | | | 2057 | 3.9 | 120 | |
| | | | | | | 1813 | 5.3 | 162 | | | | | | | | | | | | | | | | 2348 | | 3.7 | 112 | | |
| 14 Th | 0017 | 1.8 | 56 | | 29 F | 0056 | 2.8 | 84 | | 14 Sa | 0008 | 2.4 | 73 | | 29 Su | 0004 | 3.4 | | | | | | | | | | | | |

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| July | | | | August | | | | September | | | | | | | | | | | | | | | | | | | | | |
|-----------------|--------|-----|------|--------|-----------------|------|--------|-----------|------|-----------------|------|------|--------|----|-----------------|------|-----|------|--|-----------------|------|-----|------|--|-----------------|------|-----|------|--|
| Time | Height | | Time | Height | | Time | Height | | Time | Height | | Time | Height | | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | | | | | | |
| 1 F | 0125 | 3.6 | 11.1 | | 16 Sa | 0238 | 3.4 | 10.5 | | 1 M | 0314 | 3.2 | 9.8 | | 16 Tu | 0409 | 3.1 | 9.6 | | 1 Th | 0501 | 2.3 | 6.9 | | 16 F | 0519 | 2.8 | 8.5 | |
| | 0822 | 7.3 | 22.3 | | | 0923 | 7.5 | 22.8 | | | 0955 | 7.5 | 22.9 | | | 1015 | 6.8 | 20.6 | | | 1144 | 6.5 | 19.8 | | | 1123 | 5.7 | 17.5 | |
| | 1610 | 0.9 | 2.8 | | | 1646 | 1.1 | 3.5 | | | 1656 | 0.9 | 2.8 | | | 1704 | 2.2 | 6.6 | | | 1722 | 2.3 | 7.0 | | | 1650 | 3.4 | 10.5 | |
| | 2247 | 4.4 | 13.4 | | | 2339 | 4.6 | 13.9 | | | 2332 | 5.2 | 15.8 | | | 2342 | 5.5 | 16.7 | | | 2359 | 6.8 | 20.6 | | | 2312 | 6.6 | 20.2 | |
| 2 Sa | 0214 | 3.6 | 11.0 | | 17 Su | 0327 | 3.4 | 10.5 | | 2 Tu | 0409 | 3.1 | 9.3 | | 17 W | 0451 | 3.1 | 9.5 | | 2 F | 0555 | 2.2 | 6.8 | | 17 Sa | 0602 | 2.8 | 8.6 | |
| | 0906 | 7.5 | 22.8 | | | 0959 | 7.3 | 22.4 | | | 1044 | 7.3 | 22.3 | | | 1047 | 6.4 | 19.6 | | | 1242 | 5.8 | 17.7 | | | 1206 | 5.3 | 16.2 | |
| | 1648 | 0.9 | 2.6 | | | 1719 | 1.4 | 4.2 | | | 1731 | 1.1 | 3.5 | | | 1727 | 2.5 | 7.5 | | | 1753 | 2.8 | 8.4 | | | 1708 | 3.6 | 11.1 | |
| | 2324 | 4.6 | 13.9 | | | | | | | | | | | | | | | | | | 1822 | 3.2 | 9.9 | | | 2335 | 6.7 | 20.4 | |
| 3 Su | 0306 | 3.6 | 10.9 | | 18 M | 0011 | 4.7 | 14.4 | | 3 W | 0011 | 5.4 | 16.6 | | 18 Th | 0005 | 5.6 | 17.1 | | 3 Sa | 0040 | 6.9 | 21.1 | | 18 Su | 0651 | 2.9 | 8.8 | |
| | 0950 | 7.5 | 23.0 | | | 0415 | 3.5 | 10.6 | | | 0504 | 2.9 | 8.9 | | | 0534 | 3.1 | 9.6 | | | 0655 | 2.3 | 7.1 | | | 1258 | 4.9 | 14.9 | |
| | 1726 | 0.9 | 2.6 | | | 1031 | 7.1 | 21.6 | | | 1134 | 6.9 | 20.9 | | | 1123 | 6.0 | 18.3 | | | 1350 | 5.1 | 15.4 | | | 1726 | 3.8 | 11.6 | |
| | | | | | | 1750 | 1.7 | 5.2 | | | 1805 | 1.5 | 4.6 | | | 1748 | 2.7 | 8.3 | | | 1822 | 3.2 | 9.9 | | | | | | |
| 4 M | 0005 | 4.7 | 14.4 | | 19 Tu | 0045 | 4.9 | 14.9 | | 4 Th | 0052 | 5.7 | 17.4 | | 19 F | 0032 | 5.7 | 17.5 | | 4 Su | 0125 | 7.0 | 21.3 | | 19 M | 0002 | 6.7 | 20.4 | |
| | 0401 | 3.6 | 10.9 | | | 0502 | 3.5 | 10.8 | | | 0600 | 2.8 | 8.6 | | | 0620 | 3.2 | 9.7 | | | 0808 | 2.5 | 7.6 | | | 0749 | 3.0 | 9.1 | |
| | 1035 | 7.4 | 22.6 | | | 1103 | 6.7 | 20.5 | | | 1228 | 6.2 | 18.9 | | | 1205 | 5.4 | 16.6 | | | 1517 | 4.4 | 13.5 | | | 1406 | 4.5 | 13.7 | |
| | 1805 | 1.0 | 3.0 | | | 1818 | 2.0 | 6.1 | | | 1839 | 2.0 | 6.0 | | | 1807 | 3.0 | 9.1 | | | 1850 | 3.7 | 11.2 | | | 1743 | 4.0 | 12.1 | |
| 5 Tu | 0050 | 4.9 | 14.8 | | 20 W | 0120 | 5.0 | 15.3 | | 5 F | 0134 | 5.9 | 18.1 | | 20 Sa | 0104 | 5.8 | 17.8 | | 5 M | 0218 | 7.0 | 21.2 | | 20 Tu | 0042 | 6.6 | 20.2 | |
| | 0459 | 3.6 | 10.9 | | | 0550 | 3.6 | 11.0 | | | 0700 | 2.8 | 8.6 | | | 0712 | 3.2 | 9.8 | | | 0951 | 2.6 | 7.8 | | | 0905 | 3.0 | 9.1 | |
| | 1121 | 7.1 | 21.7 | | | 1137 | 6.3 | 19.1 | | | 1333 | 5.4 | 16.4 | | | 1255 | 4.9 | 14.8 | | | | | | | | 1546 | 4.3 | 13.0 | |
| | 1844 | 1.2 | 3.8 | | | 1844 | 2.3 | 7.0 | | | 1913 | 2.5 | 7.5 | | | 1826 | 3.2 | 9.8 | | | 1757 | 4.2 | 12.7 | | | 1757 | 4.2 | 12.7 | |
| 6 W | 0138 | 5.0 | 15.2 | | 21 Th | 0157 | 5.2 | 15.7 | | 6 Sa | 0219 | 6.1 | 18.7 | | 21 Su | 0141 | 5.9 | 18.1 | | 6 Tu | 0323 | 6.9 | 20.9 | | 21 W | 0148 | 6.6 | 20.0 | |
| | 0559 | 3.5 | 10.8 | | | 0641 | 3.7 | 11.2 | | | 0811 | 2.8 | 8.6 | | | 0817 | 3.2 | 9.8 | | | 1144 | 2.4 | 7.3 | | | 1033 | 2.8 | 8.6 | |
| | 1211 | 6.6 | 20.1 | | | 1217 | 5.7 | 17.4 | | | 1459 | 4.6 | 14.0 | | | 1404 | 4.3 | 13.1 | | | | | | | | | | | |
| | 1923 | 1.6 | 4.8 | | | 1909 | 2.6 | 8.0 | | | 1946 | 3.0 | 9.0 | | | 1843 | 3.4 | 10.4 | | | | | | | | | | | |
| 7 Th | 0227 | 5.2 | 15.8 | | 22 F | 0234 | 5.3 | 16.1 | | 7 Su | 0308 | 6.4 | 19.4 | | 22 M | 0225 | 6.0 | 18.4 | | 7 W | 0435 | 6.8 | 20.7 | | 22 Th | 0318 | 6.5 | 19.9 | |
| | 0703 | 3.5 | 10.6 | | | 0738 | 3.7 | 11.2 | | | 0949 | 2.7 | 8.3 | | | 0948 | 3.1 | 9.3 | | | 1252 | 2.2 | 6.6 | | | 1147 | 2.6 | 7.9 | |
| | 1311 | 5.9 | 18.0 | | | 1307 | 5.1 | 15.5 | | | 1646 | 4.0 | 12.2 | | | 1543 | 3.9 | 11.8 | | | 2019 | 4.6 | 14.0 | | | | | | |
| | 2002 | 2.0 | 6.1 | | | 1931 | 2.9 | 8.8 | | | 2020 | 3.3 | 10.2 | | | 1858 | 3.6 | 10.9 | | | 2237 | 4.4 | 13.5 | | | | | | |
| 8 F | 0314 | 5.4 | 16.6 | | 23 Sa | 0311 | 5.4 | 16.6 | | 8 M | 0400 | 6.5 | 19.9 | | 23 Tu | 0317 | 6.1 | 18.7 | | 8 Th | 0549 | 6.8 | 20.6 | | 23 F | 0443 | 6.6 | 20.2 | |
| | 0815 | 3.4 | 10.3 | | | 0852 | 3.5 | 10.8 | | | 1146 | 2.3 | 7.1 | | | 1133 | 2.7 | 8.3 | | | 1336 | 2.1 | 6.3 | | | 1238 | 2.3 | 7.1 | |
| | 1437 | 5.1 | 15.6 | | | 1416 | 4.4 | 13.5 | | | 1848 | 3.8 | 11.6 | | | | | | | | 2040 | 4.8 | 14.7 | | | 1939 | 5.0 | 15.1 | |
| | 2042 | 2.5 | 7.5 | | | 1952 | 3.1 | 9.5 | | | 2106 | 3.7 | 11.2 | | | | | | | | | | | | | 2306 | 4.5 | 13.7 | |
| 9 Sa | 0358 | 5.8 | 17.6 | | 24 Su | 0347 | 5.6 | 17.2 | | 9 Tu | 0457 | 6.7 | 20.4 | | 24 W | 0415 | 6.3 | 19.2 | | 9 F | 0004 | 4.2 | 12.8 | | 24 Sa | 0557 | 6.8 | 20.7 | |
| | 0947 | 3.1 | 9.5 | | | 1037 | 3.2 | 9.9 | | | 1308 | 1.9 | 5.7 | | | 1241 | 2.3 | 7.0 | | | 0654 | 6.8 | 20.7 | | | 1319 | 2.1 | 6.5 | |
| | 1628 | 4.4 | 13.5 | | | 1556 | 3.9 | 11.9 | | | 2026 | 4.0 | 12.1 | | | | | | | | 1409 | 2.1 | 6.3 | | | 2002 | 5.3 | 16.2 | |
| | 2124 | 2.9 | 8.8 | | | 2013 | 3.3 | 10.1 | | | 2229 | 3.8 | 11.7 | | | | | | | | 2103 | 5.1 | 15.4 | | | | | | |
| 10 Su | 0441 | 6.1 | 18.7 | | 25 M | 0424 | 5.9 | 17.9 | | 10 W | 0557 | 6.9 | 20.9 | | 25 Th | 0515 | 6.5 | 19.9 | | 10 Sa | 0104 | 3.9 | 11.8 | | 25 Su | 0026 | 4.0 | 12.3 | |
| | 1131 | 2.6 | 8.0 | | | 1215 | 2.7 | 8.3 | | | 1400 | 1.5 | 4.7 | | | 1327 | 1.9 | 5.8 | | | 0746 | 6.8 | 20.8 | | | 0705 | 7.0 | 21.3 | |
| | 1816 | 4.0 | 12.2 | | | 1753 | 3.6 | 11.1 | | | 2108 | 4.2 | 12.7 | | | 2023 | 4.2 | 12.9 | | | 1438 | 2.1 | 6.5 | | | 1355 | 2.0 | 6.2 | |
| | 2212 | 3.2 | 9.8 | | | 2035 | 3.5 | 10.7 | | | 2350 | 3.8 | 11.7 | | | 2252 | 4.1 | 12.4 | | | 2125 | 5.3 | 16.2 | | | 2029 | 5.8 | 17.6 | |
| 11 M | 0525 | 6.5 | 19.9 | | 26 Tu | 0504 | 6.1 | 18.7 | | 11 Th | 0657 | 7.0 | 21.4 | | 26 F | 0615 | 6.8 | 20.8 | | 11 Su | 0154 | 3.5 | 10.8 | | 26 M | 0128 | 3.4 | 10.5 | |
| | 1255 | 2.0 | 6.1 | | | 1315 | 2.2 | 6.7 | | | 1439 | 1.4 | 4.2 | | | 1404 | 1.6 | 4.8 | | | 0829 | 6.8 | 20.8 | | | 0807 | 7.1 | 21.7 | |
| | 1956 | 3.9 | 11.9 | | | | | | | | 2139 | 4.4 | 13.3 | | | 2045 | 4.5 | 13.8 | | | 1505 | 2.3 | 7.0 | | | 1429 | 2.1 | 6.3 | |
| | 2306 | 3.4 | 10.5 | | | | | | | | | | | | | | | | | | 2145 | 5.6 | 17.1 | | | 2057 | 6.3 | 19.1 | |
| 12 Tu | 0612 | 6.9 | 21.0 | | 27 W | 0548 | 6.5 | 19.7 | | 12 F | 0054 | 3.7 | 11.2 | | 27 Sa | 0018 | 3.9 | 11.8 | | 12 M | 0238 | 3.2 | 9.9 | | 27 Tu | 0222 | 2.8 | 8.6 | |
| | 1358 | 1.4 | 4.4 | | | 1359 | 1.7 | 5.2 | | | 0751 | 7.1 | 21.7 | | | 0714 | 7.1 | 21.6 | | | 0904 | 6.8 | 20.6 | | | 0905 | 7.1 | 21.7 | |
| | 2107 | 4.0 | 12.1 | | | 2050 | 3.8 | 11.7 | | | 1513 | 1.4 | 4.2 | | | 1438 | 1.4 | 4.2 | | | 1530 | 2.5 | 7.6 | | | 1502 | 2.2 | 6.8 | |
| | | | | | | 2300 | 3.7 | 11.4 | | | 2205 | 4.6 | 14.0 | | | 2112 | 4.9 | 14.9 | | | 2203 | 5.9 | 17.9 | | | 2127 | 6.8 | 20.7 | |
| 13 W | 0001 | 3.5 | 10.7 | | | | | | | | | | | | | | | | | | | | | | | | | | |

Hong Kong, China, 2011

Times and Heights of High and Low Waters

| October | | | | November | | | | December | | | | | | | | | | | | | | | | | | | | | |
|-----------------|--------|-----|-----|----------|-----------------|------|-----|----------|--------|-----------------|------|------|--------|----|-----------------|------|-----|-----|----|-----------------|------|-----|-----|--|-----------------|------|-----|-----|--|
| Time | Height | | | Time | Height | | | Time | Height | | | Time | Height | | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | |
| 1 Sa | 0549 | 1.8 | 55 | | 16 Su | 0548 | 2.5 | 76 | | 1 Tu | 0743 | 2.4 | 72 | | 16 W | 0706 | 2.4 | 73 | | 1 Th | 0801 | 2.7 | 83 | | 16 F | 0725 | 2.1 | 65 | |
| | 1251 | 5.5 | 169 | | | 1212 | 5.3 | 162 | | | 1251 | 5.7 | 173 | | | 1402 | 5.2 | 157 | | | 1609 | 5.5 | 169 | | | 1436 | 5.3 | 163 | |
| | 1707 | 3.7 | 113 | | | 1615 | 4.3 | 131 | | | 1811 | 5.7 | 173 | | | 1651 | 4.9 | 149 | | | 1853 | 5.2 | 159 | | | 1821 | 4.7 | 142 | |
| | 2346 | 7.9 | 241 | | | 2227 | 7.5 | 230 | | | 2055 | 5.5 | 167 | | | 2309 | 7.6 | 231 | | | 2026 | 5.3 | 161 | | | 2355 | 7.0 | 212 | |
| 2 Su | 0649 | 2.1 | 63 | | 17 M | 0634 | 2.6 | 80 | | 2 W | 0033 | 7.5 | 230 | | 17 Th | 0756 | 2.6 | 78 | | 2 F | 0038 | 6.8 | 207 | | 17 Sa | 0808 | 2.4 | 73 | |
| | 1401 | 5.0 | 153 | | | 1302 | 5.1 | 154 | | | 0850 | 2.8 | 85 | | | 1527 | 5.2 | 159 | | | 0847 | 3.1 | 95 | | | 1535 | 5.5 | 169 | |
| | 1735 | 4.1 | 125 | | | 1637 | 4.4 | 135 | | | 2358 | 7.2 | 219 | | | 1751 | 5.1 | 155 | | | 1702 | 5.8 | 176 | | | 1938 | 4.6 | 141 | |
| | | | | | | 2254 | 7.4 | 227 | | | | | | | | 2026 | 5.3 | 161 | | | 2026 | 5.3 | 161 | | | | | | |
| 3 M | 0031 | 7.7 | 235 | | 18 Tu | 0727 | 2.8 | 84 | | 3 Th | 0133 | 7.0 | 212 | | 18 F | 0850 | 2.7 | 83 | | 3 Sa | 0133 | 6.1 | 187 | | 18 Su | 0051 | 6.3 | 191 | |
| | 0801 | 2.4 | 73 | | | 1409 | 4.9 | 148 | | | 1000 | 3.1 | 94 | | | 1641 | 5.4 | 166 | | | 0935 | 3.4 | 104 | | | 0853 | 2.7 | 83 | |
| | 1536 | 4.7 | 144 | | | 1700 | 4.6 | 140 | | | 1811 | 5.7 | 173 | | | 1930 | 5.2 | 159 | | | 1741 | 6.0 | 184 | | | 1623 | 5.8 | 178 | |
| | 1800 | 4.5 | 137 | | | 2332 | 7.3 | 222 | | | 2055 | 5.5 | 167 | | | | | | | | 2229 | 5.0 | 153 | | | 2109 | 4.4 | 134 | |
| 4 Tu | 0125 | 7.4 | 225 | | 19 W | 0828 | 2.9 | 87 | | 4 F | 0303 | 6.4 | 196 | | 19 Sa | 0106 | 6.7 | 203 | | 4 Su | 0304 | 5.5 | 168 | | 19 M | 0237 | 5.5 | 167 | |
| | 0932 | 2.7 | 81 | | | | | | | | 1102 | 3.3 | 101 | | | 0947 | 2.9 | 87 | | | 1023 | 3.7 | 112 | | | 0942 | 3.1 | 93 | |
| | | | | | | | | | | | 1841 | 6.0 | 182 | | | 1724 | 5.7 | 175 | | | 1812 | 6.3 | 192 | | | 1704 | 6.2 | 190 | |
| | | | | | | | | | | | 2303 | 5.2 | 157 | | | 2124 | 5.0 | 153 | | | | | | | | 2256 | 3.9 | 118 | |
| 5 W | 0238 | 7.0 | 213 | | 20 Th | 0026 | 7.0 | 213 | | 5 Sa | 0451 | 6.1 | 185 | | 20 Su | 0315 | 6.1 | 187 | | 5 M | 0005 | 4.5 | 136 | | 20 Tu | 0526 | 5.0 | 152 | |
| | 1104 | 2.8 | 84 | | | 0937 | 2.9 | 88 | | | 1150 | 3.5 | 106 | | | 1042 | 3.0 | 92 | | | 0517 | 5.1 | 156 | | | 1033 | 3.4 | 103 | |
| | | | | | | | | | | | 1907 | 6.2 | 190 | | | 1758 | 6.1 | 187 | | | 1106 | 3.9 | 119 | | | 1742 | 6.7 | 205 | |
| | | | | | | | | | | | | | | | | 2307 | 4.5 | 136 | | | 1836 | 6.5 | 199 | | | | | | |
| 6 Th | 0407 | 6.7 | 204 | | 21 F | 0158 | 6.7 | 204 | | 6 Su | 0017 | 4.6 | 140 | | 21 M | 0530 | 5.8 | 178 | | 6 Tu | 0102 | 3.8 | 116 | | 21 W | 0024 | 3.1 | 94 | |
| | 1208 | 2.8 | 85 | | | 1045 | 2.8 | 86 | | | 0614 | 5.9 | 179 | | | 1131 | 3.2 | 98 | | | 0656 | 4.9 | 150 | | | 0709 | 4.8 | 145 | |
| | 1934 | 5.4 | 164 | | | 1825 | 5.3 | 163 | | | 1227 | 3.6 | 110 | | | 1827 | 6.6 | 202 | | | 1142 | 4.1 | 124 | | | 1123 | 3.6 | 110 | |
| | 2301 | 4.9 | 150 | | | 2122 | 5.1 | 156 | | | 1929 | 6.5 | 198 | | | | | | | | 1855 | 6.8 | 207 | | | 1821 | 7.3 | 221 | |
| 7 F | 0532 | 6.5 | 199 | | 22 Sa | 0404 | 6.5 | 199 | | 7 M | 0107 | 4.0 | 122 | | 22 Tu | 0024 | 3.6 | 110 | | 7 W | 0146 | 3.1 | 96 | | 22 Th | 0130 | 2.2 | 68 | |
| | 1251 | 2.8 | 86 | | | 1141 | 2.8 | 85 | | | 0719 | 5.7 | 175 | | | 0701 | 5.7 | 174 | | | 0812 | 4.9 | 149 | | | 0829 | 4.8 | 145 | |
| | 1956 | 5.6 | 172 | | | 1849 | 5.7 | 173 | | | 1256 | 3.8 | 115 | | | 1215 | 3.4 | 104 | | | 1211 | 4.2 | 129 | | | 1212 | 3.8 | 115 | |
| | | | | | | 2313 | 4.7 | 143 | | | 1946 | 6.8 | 206 | | | 1857 | 7.2 | 219 | | | 1912 | 7.1 | 217 | | | 1902 | 7.8 | 237 | |
| 8 Sa | 0016 | 4.5 | 137 | | 23 Su | 0541 | 6.5 | 198 | | 8 Tu | 0149 | 3.4 | 105 | | 23 W | 0125 | 2.8 | 84 | | 8 Th | 0225 | 2.6 | 79 | | 23 F | 0225 | 1.6 | 48 | |
| | 0641 | 6.5 | 197 | | | 1227 | 2.8 | 84 | | | 0815 | 5.7 | 173 | | | 0817 | 5.7 | 173 | | | 0907 | 4.9 | 150 | | | 0930 | 4.8 | 147 | |
| | 1325 | 2.9 | 89 | | | 1915 | 6.1 | 187 | | | 1321 | 4.0 | 121 | | | 1255 | 3.6 | 109 | | | 1239 | 4.3 | 132 | | | 1258 | 3.8 | 117 | |
| | 2018 | 5.9 | 180 | | | | | | | | 2000 | 7.1 | 215 | | | 1928 | 7.8 | 238 | | | 1933 | 7.4 | 226 | | | 1946 | 8.2 | 251 | |
| 9 Su | 0109 | 4.0 | 122 | | 24 M | 0027 | 4.0 | 121 | | 9 W | 0228 | 2.9 | 89 | | 24 Th | 0219 | 2.0 | 60 | | 9 F | 0302 | 2.1 | 65 | | 24 Sa | 0315 | 1.1 | 34 | |
| | 0736 | 6.4 | 195 | | | 0700 | 6.5 | 199 | | | 0903 | 5.6 | 172 | | | 0921 | 5.6 | 172 | | | 0946 | 5.0 | 151 | | | 1019 | 4.9 | 149 | |
| | 1353 | 3.1 | 93 | | | 1307 | 2.8 | 86 | | | 1342 | 4.1 | 126 | | | 1333 | 3.8 | 115 | | | 1307 | 4.4 | 133 | | | 1343 | 3.9 | 118 | |
| | 2037 | 6.2 | 189 | | | 1942 | 6.6 | 202 | | | 2012 | 7.3 | 224 | | | 2003 | 8.3 | 254 | | | 1957 | 7.7 | 235 | | | 2032 | 8.5 | 260 | |
| 10 M | 0153 | 3.5 | 108 | | 25 Tu | 0126 | 3.2 | 97 | | 10 Th | 0305 | 2.5 | 77 | | 25 F | 0310 | 1.4 | 43 | | 10 Sa | 0337 | 1.8 | 56 | | 25 Su | 0401 | 1.0 | 29 | |
| | 0821 | 6.4 | 194 | | | 0809 | 6.5 | 199 | | | 0944 | 5.6 | 170 | | | 1017 | 5.6 | 170 | | | 1018 | 5.0 | 152 | | | 1101 | 5.0 | 151 | |
| | 1417 | 3.2 | 98 | | | 1343 | 3.0 | 91 | | | 1402 | 4.3 | 131 | | | 1410 | 3.9 | 120 | | | 1338 | 4.4 | 133 | | | 1428 | 3.9 | 118 | |
| | 2053 | 6.5 | 197 | | | 2010 | 7.2 | 220 | | | 2027 | 7.6 | 233 | | | 2041 | 8.8 | 267 | | | 2026 | 8.0 | 243 | | | 2117 | 8.6 | 262 | |
| 11 Tu | 0233 | 3.1 | 96 | | 26 W | 0219 | 2.4 | 73 | | 11 F | 0342 | 2.2 | 68 | | 26 Sa | 0401 | 1.1 | 34 | | 11 Su | 0413 | 1.7 | 51 | | 26 M | 0444 | 1.0 | 31 | |
| | 0900 | 6.3 | 191 | | | 0912 | 6.5 | 198 | | | 1020 | 5.5 | 168 | | | 1107 | 5.5 | 168 | | | 1048 | 5.1 | 154 | | | 1141 | 5.0 | 153 | |
| | 1439 | 3.4 | 105 | | | 1417 | 3.2 | 97 | | | 1423 | 4.4 | 134 | | | 1447 | 4.1 | 125 | | | 1412 | 4.3 | 132 | | | 1515 | 3.9 | 119 | |
| | 2105 | 6.8 | 206 | | | 2039 | 7.8 | 238 | | | 2046 | 7.9 | 240 | | | 2121 | 8.9 | 272 | | | 2056 | 8.1 | 247 | | | 2158 | 8.5 | 258 | |
| 12 W | 0312 | 2.8 | 86 | | 27 Th | 0310 | 1.8 | 55 | | 12 Sa | 0419 | 2.1 | 64 | | 27 Su | 0450 | 1.1 | 34 | | 12 M | 0448 | 1.6 | 50 | | 27 Tu | 0525 | 1.3 | 39 | |
| | 0938 | 6.2 | 188 | | | 1009 | 6.3 | 193 | | | 1055 | 5.4 | 166 | | | 1157 | 5.4 | 164 | | | 1121 | 5.1 | 156 | | | 1222 | 5.1 | 155 | |
| | 1459 | 3.7 | 112 | | | 1450 | 3.4 | 105 | | | 1445 | 4.5 | 136 | | | 1525 | 4.3 | 130 | | | 1450 | 4.3 | 132 | | | 1602 | 4.0 | 122 | |
| | 2116 | 7.1 | 215 | | | 2111 | 8.3 | 253 | | | 2108 | 8.0 | 245 | | | 2202 | 8.9 | 270 | | | 2128 | 8.2 | 249 | | | 2234 | 8.1 | 248 | |
| 13 Th | 0349 | 2.6 | 79 | | 28 F | 0401 | 1.4 | 44 | | 13 Su | 0457 | 2.1 | 63 | | 28 M | 0539 | 1.4 | 42 | | 13 Tu | 0525 | 1.6 | 50 | | | | | | |

Haikou, China, 2011

Times and Heights of High and Low Waters

| July | | | | August | | | | September | | | | | | | |
|------|------|--------|-----|--------|------|--------|-----|-----------|------|--------|-----|------|------|--------|-----|
| Time | | Height | | Time | | Height | | Time | | Height | | Time | | Height | |
| h | m | ft | cm | h | m | ft | cm | h | m | ft | cm | h | m | ft | cm |
| 1 | 0432 | 1.2 | 36 | 16 | 0538 | 0.9 | 28 | 1 | 0510 | 1.0 | 31 | 16 | 0510 | 2.2 | 68 |
| F | 1943 | 7.7 | 236 | Sa | 2027 | 8.0 | 245 | M | 2100 | 8.0 | 243 | Tu | 1139 | 5.3 | 162 |
| ● | | | | | | | | | | | | Th | 1049 | 5.7 | 175 |
| 2 | 0508 | 1.0 | 31 | 17 | 0555 | 1.2 | 36 | 2 | 0538 | 1.3 | 39 | 17 | 0528 | 2.7 | 82 |
| Sa | 2028 | 7.8 | 239 | Su | 2113 | 7.8 | 239 | Tu | 1308 | 5.3 | 161 | W | 1132 | 5.5 | 167 |
| | | | | | | | | | 1555 | 4.9 | 149 | | 1638 | 3.7 | 114 |
| 3 | 0537 | 1.0 | 29 | 18 | 0602 | 1.5 | 47 | 3 | 0605 | 1.8 | 56 | 18 | 0544 | 3.2 | 98 |
| Su | 2109 | 7.8 | 239 | M | 1350 | 5.4 | 164 | W | 1235 | 5.1 | 155 | Th | 1130 | 5.8 | 176 |
| | | | | | 1600 | 5.2 | 158 | | 1644 | 4.2 | 128 | | 1725 | 3.4 | 104 |
| 4 | 0608 | 1.0 | 32 | 19 | 0618 | 1.9 | 59 | 4 | 0630 | 2.7 | 81 | 19 | 0553 | 3.7 | 113 |
| M | 2148 | 7.7 | 235 | Tu | 1334 | 5.2 | 157 | Th | 1222 | 5.2 | 160 | F | 1131 | 6.2 | 188 |
| | | | | | 1643 | 4.7 | 143 | | 1738 | 3.6 | 109 | | 1814 | 3.2 | 98 |
| 5 | 0641 | 1.3 | 39 | 20 | 0640 | 2.4 | 74 | 5 | 0006 | 7.0 | 213 | 20 | 0033 | 6.0 | 182 |
| Tu | 2231 | 7.5 | 229 | W | 1313 | 5.2 | 157 | F | 0645 | 3.6 | 110 | Sa | 0557 | 4.1 | 125 |
| | | | | | 1730 | 4.3 | 131 | | 1218 | 5.7 | 175 | | 1142 | 6.6 | 200 |
| 6 | 0716 | 1.8 | 54 | 21 | 0659 | 3.0 | 91 | 6 | 0120 | 6.2 | 190 | 21 | 0129 | 5.3 | 163 |
| W | 1513 | 5.2 | 157 | Th | 1302 | 5.3 | 163 | Sa | 0649 | 4.5 | 136 | Su | 0559 | 4.4 | 135 |
| | 1730 | 5.0 | 151 | | 1824 | 4.0 | 122 | ● | 1224 | 6.4 | 196 | | 1206 | 6.9 | 209 |
| | 2324 | 7.1 | 217 | | | | | ○ | 1949 | 2.7 | 82 | | 1958 | 3.1 | 93 |
| 7 | 0747 | 2.5 | 76 | 22 | 0016 | 6.1 | 185 | 7 | 0252 | 5.3 | 162 | 22 | 0255 | 4.7 | 143 |
| Th | 1424 | 5.0 | 152 | F | 0710 | 3.5 | 107 | Su | 0629 | 5.0 | 152 | M | 0522 | 4.6 | 141 |
| | 1830 | 4.4 | 135 | | 1301 | 5.7 | 173 | | 1245 | 7.1 | 217 | ● | 1240 | 7.1 | 216 |
| | | | | | 1930 | 3.8 | 116 | | 2113 | 2.5 | 76 | ○ | 2055 | 3.0 | 91 |
| 8 | 0033 | 6.6 | 200 | 23 | 0119 | 5.4 | 165 | 8 | 1328 | 7.6 | 232 | 23 | 1328 | 7.2 | 220 |
| F | 0810 | 3.4 | 103 | Sa | 0709 | 4.0 | 121 | M | 2353 | 2.3 | 70 | Tu | | | |
| ○ | 1404 | 5.2 | 159 | ● | 1310 | 6.0 | 184 | | | | | Th | 0233 | 2.0 | 60 |
| | 1946 | 3.9 | 118 | ○ | 2051 | 3.6 | 109 | | | | | | 1553 | 7.8 | 238 |
| 9 | 0209 | 5.8 | 178 | 24 | 0237 | 4.8 | 146 | 9 | 1439 | 7.8 | 239 | 24 | 0040 | 2.9 | 88 |
| Sa | 0820 | 4.3 | 130 | Su | 0656 | 4.3 | 130 | Tu | | | | W | 1439 | 7.3 | 222 |
| | 1400 | 5.8 | 176 | | 1334 | 6.4 | 194 | | | | | | | | |
| | 2120 | 3.3 | 100 | | 2220 | 3.3 | 100 | | | | | | 0319 | 1.9 | 58 |
| 10 | 0427 | 5.1 | 156 | 25 | 1416 | 6.7 | 203 | 10 | 0218 | 1.8 | 55 | 25 | 0233 | 2.3 | 71 |
| Su | 0755 | 4.9 | 150 | M | | | | W | 1607 | 7.9 | 242 | Th | 1558 | 7.4 | 225 |
| | 1420 | 6.5 | 198 | | | | | | | | | | | | |
| | 2309 | 2.7 | 81 | | | | | | | | | | 0344 | 2.0 | 62 |
| 11 | 1505 | 7.2 | 218 | 26 | 0023 | 2.9 | 87 | 11 | 0332 | 1.4 | 42 | 26 | 0312 | 1.9 | 58 |
| M | | | | Tu | 1521 | 6.9 | 211 | Th | 1724 | 8.0 | 243 | F | 1706 | 7.5 | 229 |
| | | | | | | | | | | | | | | | |
| 12 | 0107 | 2.0 | 61 | 27 | 0210 | 2.3 | 70 | 12 | 0418 | 1.2 | 37 | 27 | 0332 | 1.6 | 48 |
| Tu | 1614 | 7.6 | 232 | W | 1633 | 7.2 | 220 | F | 1830 | 8.0 | 243 | Sa | 1808 | 7.7 | 234 |
| | | | | | | | | | | | | | | | |
| 13 | 0247 | 1.4 | 42 | 28 | 0321 | 1.8 | 54 | 13 | 0446 | 1.3 | 40 | 28 | 0346 | 1.4 | 43 |
| W | 1730 | 7.9 | 242 | Th | 1737 | 7.5 | 228 | Sa | 1929 | 7.9 | 242 | Su | 1909 | 7.9 | 240 |
| | | | | | | | | | | | | | | | |
| 14 | 0404 | 1.0 | 29 | 29 | 0403 | 1.4 | 42 | 14 | 0454 | 1.6 | 48 | 29 | 0407 | 1.4 | 44 |
| Th | 1837 | 8.1 | 247 | F | 1832 | 7.7 | 236 | Su | 1211 | 5.6 | 170 | M | 1145 | 5.6 | 172 |
| | | | | | | | | ○ | 1427 | 5.3 | 163 | | 1415 | 5.3 | 163 |
| | | | | | | | | | 2024 | 7.8 | 238 | ● | 2013 | 8.0 | 243 |
| 15 | 0500 | 0.8 | 25 | 30 | 0429 | 1.1 | 33 | 15 | 0456 | 1.9 | 57 | 30 | 0432 | 1.7 | 53 |
| F | 1935 | 8.1 | 248 | Sa | 1922 | 7.9 | 241 | M | 1154 | 5.3 | 163 | Tu | 1114 | 5.3 | 163 |
| ○ | | | | | | | | | 1510 | 4.8 | 145 | | 1503 | 4.5 | 137 |
| | | | | | | | | | 2115 | 7.6 | 232 | | 2120 | 8.0 | 244 |
| | | | | 31 | 0447 | 1.0 | 29 | 15 | 0458 | 2.4 | 72 | 31 | 0458 | 2.4 | 72 |
| | | | | Su | 2010 | 8.0 | 243 | W | 1055 | 5.3 | 163 | | 1553 | 3.6 | 110 |
| | | | | ● | | | | | 2228 | 7.8 | 239 | | 2228 | 7.8 | 239 |
| | | | | | | | | | | | | | | | |
| 16 | 0443 | 4.3 | 132 | 16 | 0443 | 4.3 | 132 | 16 | 0443 | 4.3 | 132 | 16 | 0443 | 4.3 | 132 |
| F | 1717 | 2.7 | 83 | F | 1717 | 2.7 | 83 | F | 1717 | 2.7 | 83 | F | 1717 | 2.7 | 83 |
| | | | | | | | | | | | | | | | |
| 17 | 0003 | 6.4 | 194 | 17 | 0003 | 6.4 | 194 | 17 | 0003 | 6.4 | 194 | 17 | 0003 | 6.4 | 194 |
| Sa | 0452 | 4.7 | 143 | Sa | 0452 | 4.7 | 143 | Sa | 0452 | 4.7 | 143 | Sa | 0452 | 4.7 | 143 |
| | 1025 | 7.1 | 216 | | 1025 | 7.1 | 216 | | 1025 | 7.1 | 216 | | 1025 | 7.1 | 216 |
| | 1757 | 2.6 | 80 | | 1757 | 2.6 | 80 | | 1757 | 2.6 | 80 | | 1757 | 2.6 | 80 |
| 18 | 0058 | 5.9 | 180 | 18 | 0058 | 5.9 | 180 | 18 | 0058 | 5.9 | 180 | 18 | 0058 | 5.9 | 180 |
| Su | 0501 | 5.0 | 152 | Su | 0501 | 5.0 | 152 | Su | 0501 | 5.0 | 152 | Su | 0501 | 5.0 | 152 |
| | 1051 | 7.4 | 225 | | 1051 | 7.4 | 225 | | 1051 | 7.4 | 225 | | 1051 | 7.4 | 225 |
| | 1834 | 2.6 | 79 | | 1834 | 2.6 | 79 | | 1834 | 2.6 | 79 | | 1834 | 2.6 | 79 |
| 19 | 0236 | 5.4 | 164 | 19 | 0236 | 5.4 | 164 | 19 | 0236 | 5.4 | 164 | 19 | 0236 | 5.4 | 164 |
| M | 0457 | 5.2 | 160 | M | 0457 | 5.2 | 160 | M | 0457 | 5.2 | 160 | M | 0457 | 5.2 | 160 |
| | 1123 | 7.5 | 230 | | 1123 | 7.5 | 230 | | 1123 | 7.5 | 230 | | 1123 | 7.5 | 230 |
| | 1910 | 2.6 | 80 | | 1910 | 2.6 | 80 | | 1910 | 2.6 | 80 | | 1910 | 2.6 | 80 |
| 20 | 1158 | 7.6 | 231 | 20 | 1158 | 7.6 | 231 | 20 | 1158 | 7.6 | 231 | 20 | 1158 | 7.6 | 231 |
| Tu | 1952 | 2.7 | 83 | Tu | 1952 | 2.7 | 83 | Tu | 1952 | 2.7 | 83 | Tu | 1952 | 2.7 | 83 |
| | | | | | | | | | | | | | | | |
| 21 | 1229 | 7.5 | 230 | 21 | 1229 | 7.5 | 230 | 21 | 1229 | 7.5 | 230 | 21 | 1229 | 7.5 | 230 |
| W | 2052 | 2.9 | 88 | W | 2052 | 2.9 | 88 | W | 2052 | 2.9 | 88 | W | 2052 | 2.9 | 88 |
| | | | | | | | | | | | | | | | |
| 22 | 1147 | 7.4 | 226 | 22 | 1147 | 7.4 | 226 | 22 | 1147 | 7.4 | 226 | 22 | 1147 | 7.4 | 226 |
| Th | | | | Th | | | | Th | | | | Th | | | |
| | | | | | | | | | | | | | | | |
| 23 | 0149 | 2.6 | 80 | 23 | 0149 | 2.6 | 80 | 23 | 0149 | 2.6 | 80 | 23 | 0149 | 2.6 | 80 |
| F | 1441 | 7.3 | 222 | F | 1441 | 7.3 | 222 | F | 1441 | 7.3 | 222 | F | 1441 | 7.3 | 222 |
| | | | | | | | | | | | | | | | |
| 24 | 0216 | 2.4 | 72 | 24 | 0216 | 2.4 | 72 | 24 | 0216 | 2.4 | 72 | 24 | 0216 | 2.4 | 72 |
| Sa | 1623 | 7.3 | 221 | Sa | 1623 | 7.3 | 221 | Sa | 1623 | 7.3 | 221 | Sa | 1623 | 7.3 | 221 |
| | | | | | | | | | | | | | | | |
| 25 | 0235 | 2.2 | 67 | 25 | 0235 | 2.2 | 67 | 25 | 0235 | 2.2 | 67 | 25 | 0235 | 2.2 | 67 |
| Su | 1756 | 7.3 | 224 | Su | 1756 | 7.3 | 224 | Su | 1756 | 7.3 | 224 | Su | 1756 | 7.3 | 224 |
| | | | | | | | | | | | | | | | |
| 26 | 0259 | 2.3 | 70 | 26 | 0259 | 2.3 | 70 | 26 | 0259 | 2.3 | 70 | 26 | 0259 | 2.3 | 70 |
| M | 1017 | 5.8 | 178 | M | 1017 | 5.8 | 178 | M | 1017 | 5.8 | 178 | M | 1017 | 5.8 | 178 |
| | 1324 | | | | | | | | | | | | | | |

Beihai, China, 2011

Times and Heights of High and Low Waters

| April | | | | May | | | | June | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|------|--------|-----|------|-----------------|--------|------|------|----|-----------------|------|------|-----|--------|-----------------|------|------|-----|--|-----------------|------|------|-----|------|-----------------|------|------|-----|--|--|--|--|--|
| Time | | Height | | Time | | Height | | Time | | Height | | Time | | Height | | | | | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | | | | | | | | | | |
| 1 F | 0432 | 12.1 | 370 | | 16 Sa | 0356 | 12.6 | 384 | | 1 Su | 0534 | 9.4 | 287 | | 16 M | 0556 | 8.9 | 271 | | 1 W | 0216 | 3.7 | 113 | | 16 Th | 0310 | 2.0 | 61 | | | | | |
| | 1311 | 5.4 | 164 | | | 1205 | 5.9 | 181 | | | 1049 | 7.4 | 226 | | | 0935 | 8.0 | 245 | | | 1724 | 14.7 | 449 | | | 1744 | 16.6 | 507 | | | | | |
| | 1820 | 7.5 | 228 | | | 1651 | 8.1 | 247 | | | 1720 | 11.1 | 337 | | | 1625 | 13.6 | 414 | | | | | | | | | | | | | | | |
| | 2209 | 6.5 | 199 | | | 2218 | 5.8 | 176 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 Sa | 0536 | 11.6 | 353 | | 17 Su | 0522 | 11.7 | 357 | | 2 M | 0047 | 5.4 | 164 | | 17 Tu | 0107 | 3.2 | 99 | | 2 Th | 0305 | 3.1 | 94 | | 17 F | 0411 | 2.0 | 61 | | | | | |
| | 1314 | 6.2 | 190 | | | 1201 | 7.2 | 218 | | | 0645 | 8.7 | 265 | | | 1706 | 15.3 | 466 | | | 1758 | 15.3 | 465 | | | 1833 | 16.5 | 502 | | | | | |
| | 1818 | 8.5 | 258 | | | 1659 | 10.0 | 306 | | | 1029 | 7.7 | 236 | | | | | | | | | | | | | | | | | | | | |
| | 2344 | 5.9 | 180 | | | | | | | | 1739 | 12.2 | 373 | | | | | | | | | | | | | | | | | | | | |
| 3 Su | 0634 | 10.9 | 332 | | 18 M | 0008 | 4.3 | 130 | | 3 Tu | 0145 | 4.4 | 135 | | 18 W | 0225 | 2.2 | 66 | | 3 F | 0354 | 2.8 | 85 | | 18 Sa | 0503 | 2.3 | 70 | | | | | |
| | 1306 | 7.0 | 212 | | | 0648 | 10.5 | 321 | | | 0756 | 8.0 | 245 | | | 1753 | 16.4 | 499 | | | 1834 | 15.5 | 473 | | | 1921 | 16.0 | 489 | | | | | |
| | 1826 | 9.6 | 293 | | | 1159 | 8.0 | 243 | | | 1012 | 7.7 | 235 | | | | | | | | | | | | | | | | | | | | |
| | | | | | | 1724 | 12.3 | 374 | | | 1802 | 13.3 | 405 | | | | | | | | | | | | | | | | | | | | |
| 4 M | 0100 | 5.2 | 157 | | 19 Tu | 0136 | 2.9 | 87 | | 4 W | 0239 | 3.7 | 112 | | 19 Th | 0340 | 1.7 | 53 | | 4 Sa | 0441 | 2.7 | 83 | | 19 Su | 0545 | 2.8 | 85 | | | | | |
| | 0728 | 10.1 | 308 | | | 0817 | 9.2 | 280 | | | 1830 | 14.1 | 430 | | | 1843 | 16.7 | 510 | | | 1911 | 15.6 | 475 | | | 2007 | 15.5 | 472 | | | | | |
| | 1256 | 7.4 | 227 | | | 1154 | 8.4 | 255 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1843 | 10.8 | 329 | | | 1804 | 14.2 | 434 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 Tu | 0203 | 4.5 | 137 | | 20 W | 0253 | 2.0 | 61 | | 5 Th | 0332 | 3.2 | 97 | | 20 F | 0451 | 1.8 | 55 | | 5 Su | 0527 | 2.8 | 86 | | 20 M | 0617 | 3.3 | 101 | | | | | |
| | 0821 | 9.2 | 281 | | | 1853 | 15.6 | 474 | | | 1859 | 14.7 | 447 | | | 1931 | 16.5 | 504 | | | 1951 | 15.5 | 473 | | | 2053 | 14.8 | 450 | | | | | |
| | 1244 | 7.7 | 234 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1905 | 11.9 | 363 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 W | 0304 | 3.9 | 120 | | 21 Th | 0416 | 1.7 | 52 | | 6 F | 0427 | 3.0 | 90 | | 21 Sa | 0556 | 2.2 | 66 | | 6 M | 0611 | 3.0 | 91 | | 21 Tu | 0641 | 4.0 | 121 | | | | | |
| | 0916 | 8.3 | 254 | | | 1945 | 16.1 | 491 | | | 1933 | 15.0 | 456 | | | 2018 | 16.0 | 488 | | | 2033 | 15.3 | 466 | | | 2138 | 13.8 | 420 | | | | | |
| | 1216 | 7.7 | 234 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1933 | 12.8 | 390 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 Th | 0404 | 3.6 | 109 | | 22 F | 0537 | 1.9 | 57 | | 7 Sa | 0521 | 2.9 | 89 | | 22 Su | 0652 | 2.7 | 81 | | 7 Tu | 0648 | 3.3 | 100 | | 22 W | 0659 | 4.6 | 141 | | | | | |
| | 2003 | 13.5 | 410 | | | 2037 | 16.0 | 488 | | | 2007 | 15.1 | 459 | | | 2105 | 15.3 | 466 | | | 2121 | 14.8 | 451 | | | 2222 | 12.5 | 381 | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 F | 0506 | 3.4 | 104 | | 23 Sa | 0657 | 2.2 | 68 | | 8 Su | 0618 | 3.0 | 91 | | 23 M | 0736 | 3.2 | 98 | | 8 W | 0718 | 3.7 | 114 | | 23 Th | 0709 | 5.3 | 163 | | | | | |
| | 2037 | 13.9 | 423 | | | 2127 | 15.5 | 472 | | | 2044 | 15.0 | 457 | | | 2153 | 14.5 | 441 | | | 2216 | 13.9 | 425 | | | 1321 | 8.4 | 256 | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | 1606 | 8.0 | 245 | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | 2307 | 11.0 | 334 | | | | | |
| 9 Sa | 0611 | 3.4 | 103 | | 24 Su | 0810 | 2.7 | 82 | | 9 M | 0715 | 3.1 | 96 | | 24 Tu | 0811 | 3.8 | 116 | | 9 Th | 0743 | 4.5 | 137 | | 24 F | 0710 | 6.0 | 184 | | | | | |
| | 2112 | 14.1 | 431 | | | 2219 | 14.8 | 450 | | | 2126 | 14.8 | 451 | | | 2243 | 13.4 | 409 | | | 2323 | 12.6 | 384 | | | 1338 | 9.5 | 291 | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | 1836 | 8.2 | 249 | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | 2358 | 9.3 | 284 | | | | | |
| 10 Su | 0721 | 3.3 | 102 | | 25 M | 0911 | 3.2 | 97 | | 10 Tu | 0807 | 3.3 | 101 | | 25 W | 0837 | 4.5 | 136 | | 10 F | 0759 | 5.4 | 166 | | 25 Sa | 0652 | 6.6 | 200 | | | | | |
| | 2153 | 14.2 | 433 | | | 2316 | 13.9 | 424 | | | 2218 | 14.4 | 439 | | | 2338 | 12.2 | 371 | | | 1345 | 8.7 | 264 | | | 1403 | 10.8 | 328 | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | 2204 | 7.4 | 227 | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 M | 0841 | 3.3 | 102 | | 26 Tu | 0956 | 3.7 | 113 | | 11 W | 0850 | 3.6 | 111 | | 26 Th | 0856 | 5.2 | 160 | | 11 Sa | 0050 | 10.8 | 330 | | 26 Su | 0130 | 7.7 | 235 | | | | | |
| | 2243 | 14.2 | 432 | | | | | | | | 2323 | 13.7 | 418 | | | | | | | | | | | 0802 | | 6.5 | 199 | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | 1406 | | 10.5 | 319 | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | 2053 | | 6.9 | 210 | | | | | | |
| 12 Tu | 0951 | 3.3 | 101 | | 27 W | 0019 | 13.0 | 397 | | 12 Th | 0924 | 4.3 | 130 | | 27 F | 0044 | 10.8 | 328 | | 12 Su | 0242 | 9.0 | 274 | | 27 M | 0007 | 6.1 | 185 | | | | | |
| | 2346 | 14.0 | 427 | | | 1030 | 4.3 | 132 | | | 0903 | 6.1 | 185 | | | 0938 | 7.3 | 222 | | | 1439 | 12.4 | 379 | | | 1500 | 13.1 | 398 | | | | | |
| | | | | | | | | | | | 1528 | 9.4 | 288 | | | 1528 | 9.4 | 288 | | | 2312 | 5.2 | 159 | | | | | | | | | | |
| | | | | | | | | | | | 2031 | 8.2 | 249 | | | | | | | | | | | | | | | | | | | | |
| 13 W | 1042 | 3.4 | 104 | | 28 Th | 0131 | 12.1 | 369 | | 13 F | 0046 | 12.7 | 387 | | 28 Sa | 0214 | 9.4 | 285 | | 13 M | 0500 | 7.5 | 230 | | 28 Tu | 0102 | 4.8 | 146 | | | | | |
| | | | | | | 1055 | 5.1 | 155 | | | 0951 | 5.2 | 159 | | | 0849 | 6.8 | 206 | | | 0707 | 7.3 | 224 | | | 1533 | 14.0 | 428 | | | | | |
| | | | | | | | | | | | 1524 | 7.9 | 242 | | | 1545 | 10.6 | 324 | | | 1519 | 14.2 | 434 | | | | | | | | | | |
| | | | | | | | | | | | 1835 | 7.4 | 225 | | | 2311 | 7.1 | 216 | | | | | | | | | | | | | | | |
| 14 Th | 0102 | 13.7 | 418 | | 29 F | 0252 | 11.1 | 339 | | 14 Sa | 0225 | 11.5 | 349 | | 29 Su | 0403 | 8.2 | 250 | | 14 Tu | 0046 | 3.6 | 110 | | 29 W | 0147 | 3.8 | 115 | | | | | |
| | 1122 | 3.8 | 117 | | | 1109 | 6.0 | 182 | | | 1000 | 6.5 | 197 | | | 0826 | 7.2 | 219 | | | 1604 | 15.6 | 477 | | | 1609 | 14.8 | 451 | | | | | |
| | | | | | | 1700 | 8.8 | 267 | | | 1532 | 9.5 | 291 | | | | | | | | | | | | | | | | | | | | |
| | | | | | | 2135 | 7.4 | 227 | | | 2141 | 6.6 | 200 | | | | | | | | | | | | | | | | | | | | |
| 15 F | 0228 | 13.3 | 404 | | 30 Sa | 0417 | 10.2 | 312 | | 15 Su | 0408 | 10.1 | 309 | | 30 M | 0033 | 5.8 | 176 | | 15 W | 0202 | 2.5 | | | | | | | | | | | |

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| July | | | | August | | | | September | | | | | | | | | | | | | | | | | | | | | | | |
|-----------|------|--------|-----|-----------|------|--------|-----|-----------|------|--------|-----|-----------|------|--------|-----|-----------|------|------|-----|-----------|------|------|-----|-----------|------|------|-----|-----------|------|------|-----|
| Time | | Height | | Time | | Height | | Time | | Height | | Time | | Height | | | | | | | | | | | | | | | | | |
| h | m | ft | cm | h | m | ft | cm | h | m | ft | cm | h | m | ft | cm | | | | | | | | | | | | | | | | |
| 1 | 0315 | 2.7 | 83 | 16 | 0408 | 2.6 | 79 | 1 | 1858 | 15.6 | 477 | 16 | 0841 | 7.1 | 215 | 1 | 0731 | 9.8 | 299 | 16 | 0806 | 11.8 | 360 | | | | | | | | |
| F | 1732 | 15.7 | 478 | Sa | 1828 | 15.8 | 481 | M | 0402 | 3.2 | 98 | Tu | 1211 | 6.2 | 190 | Th | 1430 | 4.6 | 139 | F | 1542 | 5.1 | 155 | F | 2134 | 9.1 | 277 | | | | |
| ● | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 0358 | 2.6 | 80 | 17 | 0441 | 3.1 | 94 | 2 | 0420 | 3.8 | 117 | 17 | 0354 | 5.8 | 178 | 2 | 0301 | 7.2 | 220 | 17 | 0147 | 7.7 | 235 | 17 | 0838 | 12.7 | 387 | | | | |
| Sa | 1815 | 15.8 | 482 | Su | 1916 | 15.4 | 468 | Tu | 1952 | 15.1 | 460 | W | 0849 | 8.1 | 248 | F | 0812 | 11.8 | 360 | Sa | 0838 | 12.7 | 387 | Sa | 1652 | 5.0 | 151 | Sa | 2232 | 7.9 | 242 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 0435 | 2.7 | 83 | 18 | 0505 | 3.7 | 112 | 3 | 0428 | 4.7 | 144 | 18 | 0356 | 6.4 | 196 | 3 | 0308 | 7.7 | 236 | 18 | 0126 | 7.5 | 228 | 18 | 0912 | 13.4 | 407 | | | | |
| Su | 1901 | 15.8 | 481 | M | 2002 | 14.7 | 449 | W | 0912 | 6.8 | 206 | Th | 0910 | 9.3 | 284 | Sa | 0904 | 13.5 | 412 | Su | 0912 | 13.4 | 407 | Su | 1801 | 4.9 | 148 | Su | 2353 | 7.8 | 239 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 0510 | 3.0 | 90 | 19 | 0518 | 4.4 | 133 | 4 | 0431 | 5.6 | 171 | 19 | 0354 | 6.9 | 210 | 4 | 0233 | 7.5 | 229 | 19 | 0950 | 13.8 | 421 | 19 | 1003 | 14.7 | 449 | | | | |
| M | 1948 | 15.6 | 475 | Tu | 2047 | 13.8 | 421 | Th | 0923 | 8.3 | 253 | F | 0940 | 10.5 | 319 | Su | 1003 | 14.7 | 449 | M | 1921 | 4.7 | 142 | M | 1924 | 3.7 | 113 | M | 2125 | 3.4 | 105 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 0536 | 3.4 | 104 | 20 | 0527 | 5.1 | 154 | 5 | 0444 | 6.5 | 197 | 20 | 0336 | 7.1 | 217 | 5 | 1105 | 15.4 | 468 | 20 | 1030 | 14.1 | 430 | 20 | 2125 | 3.4 | 105 | 20 | 2057 | 4.4 | 134 |
| Tu | 2038 | 15.1 | 459 | W | 1050 | 7.4 | 226 | F | 0958 | 10.1 | 309 | Sa | 1014 | 11.5 | 350 | M | 2125 | 3.4 | 105 | Tu | 2057 | 4.4 | 134 | Tu | | | | Tu | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | 0558 | 4.0 | 123 | 21 | 0532 | 5.7 | 174 | 6 | 0437 | 7.1 | 217 | 21 | 0315 | 7.1 | 215 | 6 | 1210 | 15.5 | 472 | 21 | 1117 | 14.3 | 435 | 21 | 2305 | 3.2 | 97 | 21 | 2220 | 4.1 | 124 |
| W | 2131 | 14.1 | 429 | Th | 1106 | 8.5 | 260 | Sa | 1045 | 12.0 | 366 | Su | 1052 | 12.4 | 378 | Tu | 2305 | 3.2 | 97 | W | 2220 | 4.1 | 124 | W | | | | W | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | 0610 | 4.9 | 149 | 22 | 0536 | 6.3 | 191 | 7 | 0023 | 8.1 | 247 | 22 | 0028 | 6.8 | 206 | 7 | 1315 | 15.3 | 467 | 22 | 1212 | 14.4 | 438 | 22 | | | | 22 | 2316 | 3.9 | 118 |
| Th | 1132 | 7.5 | 230 | F | 1135 | 9.7 | 296 | Su | 0411 | 7.2 | 219 | M | 0237 | 6.6 | 202 | W | | | | Th | 2316 | 3.9 | 118 | Th | | | | Th | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | 0620 | 5.8 | 177 | 23 | 0517 | 6.7 | 203 | 8 | 1239 | 14.8 | 452 | 23 | 1216 | 13.8 | 420 | 8 | 0011 | 3.2 | 97 | 23 | 1315 | 14.4 | 439 | 23 | 0011 | 3.2 | 97 | 23 | 1315 | 14.4 | 439 |
| F | 1155 | 9.2 | 280 | Sa | 1208 | 10.9 | 331 | M | 2306 | 3.7 | 112 | Tu | 2319 | 4.3 | 132 | Th | 1420 | 15.0 | 458 | F | 2359 | 3.9 | 118 | F | 1420 | 15.0 | 458 | F | 2359 | 3.9 | 118 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | 0618 | 6.7 | 204 | 24 | 0445 | 6.7 | 204 | 9 | 1339 | 15.5 | 472 | 24 | 1305 | 14.3 | 436 | 9 | 0059 | 3.4 | 104 | 24 | 1424 | 14.4 | 439 | 24 | 0059 | 3.4 | 104 | 24 | 1424 | 14.4 | 439 |
| Sa | 1231 | 11.1 | 338 | Su | 1243 | 12.0 | 365 | Tu | | | | W | | | | F | 1524 | 14.7 | 448 | Sa | | | | Sa | 1524 | 14.7 | 448 | Sa | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | 0119 | 8.4 | 256 | 25 | 0143 | 6.5 | 198 | 10 | 0033 | 3.0 | 90 | 25 | 0017 | 3.7 | 112 | 10 | 0135 | 3.9 | 119 | 25 | 0033 | 4.2 | 127 | 25 | 0135 | 3.9 | 119 | 25 | 0033 | 4.2 | 127 |
| Su | 0555 | 7.0 | 214 | M | 0354 | 6.4 | 194 | W | 1440 | 15.7 | 479 | Th | 1359 | 14.7 | 448 | Sa | 1627 | 14.3 | 437 | Su | 1537 | 14.3 | 436 | Su | 1627 | 14.3 | 437 | Su | 1537 | 14.3 | 436 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | 1403 | 14.5 | 443 | 26 | 0003 | 5.1 | 154 | 11 | 0134 | 2.7 | 81 | 26 | 0103 | 3.3 | 100 | 11 | 0202 | 4.5 | 138 | 26 | 0100 | 4.8 | 147 | 26 | 0202 | 4.5 | 138 | 26 | 0100 | 4.8 | 147 |
| M | | | | Tu | 1359 | 13.8 | 422 | Th | 1539 | 15.6 | 477 | F | 1456 | 15.0 | 458 | Su | 1726 | 13.9 | 423 | M | 0557 | 6.8 | 206 | M | 1726 | 13.9 | 423 | M | 0557 | 6.8 | 206 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | 0013 | 3.7 | 113 | 27 | 0055 | 4.0 | 122 | 12 | 0223 | 2.7 | 83 | 27 | 0142 | 3.1 | 96 | 12 | 0215 | 5.3 | 162 | 27 | 0108 | 5.8 | 176 | 27 | 0215 | 5.3 | 162 | 27 | 0108 | 5.8 | 176 |
| Tu | 1456 | 15.6 | 475 | W | 1443 | 14.6 | 444 | F | 1637 | 15.5 | 472 | Sa | 1556 | 15.3 | 465 | M | 0705 | 7.3 | 223 | Tu | 0542 | 7.9 | 240 | Tu | 0705 | 7.3 | 223 | Tu | 0542 | 7.9 | 240 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | 0130 | 2.7 | 83 | 28 | 0139 | 3.2 | 99 | 13 | 0302 | 3.1 | 94 | 28 | 0215 | 3.3 | 101 | 13 | 1037 | 6.5 | 197 | 28 | 0105 | 6.8 | 207 | 13 | 1208 | 6.1 | 187 | 28 | 0105 | 6.8 | 207 |
| W | 1551 | 16.1 | 491 | Th | 1530 | 15.1 | 461 | Sa | 1732 | 15.2 | 464 | Su | 1658 | 15.4 | 468 | Tu | 1821 | 13.3 | 405 | W | 0546 | 9.6 | 292 | Tu | 1912 | 12.5 | 380 | W | 0546 | 9.6 | 292 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | 0232 | 2.3 | 70 | 29 | 0220 | 2.8 | 86 | 14 | 0328 | 3.6 | 111 | 29 | 0241 | 3.8 | 117 | 14 | 0214 | 6.8 | 208 | 29 | 0108 | 7.5 | 228 | 14 | 2000 | 11.4 | 348 | 29 | 0108 | 7.5 | 228 |
| Th | 1645 | 16.2 | 494 | F | 1620 | 15.5 | 473 | Su | 1824 | 14.9 | 453 | M | 1759 | 15.2 | 463 | W | 0716 | 9.5 | 290 | Th | 0648 | 11.7 | 357 | W | | | | Th | 2022 | 10.6 | 323 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | 0324 | 2.3 | 69 | 30 | 0300 | 2.7 | 82 | 15 | 0347 | 4.3 | 132 | 30 | 0253 | 4.7 | 144 | 15 | 1327 | 5.7 | 175 | 30 | 0124 | 8.1 | 246 | 15 | 2046 | 10.3 | 313 | 30 | 0124 | 8.1 | 246 |
| F | 1737 | 16.1 | 490 | Sa | 1712 | 15.7 | 480 | M | 1913 | 14.3 | 435 | Tu | 0717 | 6.5 | 197 | Th | 2000 | 11.4 | 348 | F | 1511 | 2.9 | 89 | Th | | | | F | 2145 | 8.9 | 272 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ○ | | | | 31 | 0333 | 2.8 | 85 | 31 | 0250 | 5.7 | 174 | 31 | 0711 | 7.9 | 241 | 15 | 2046 | 10.3 | 313 | 31 | 0124 | 8.1 | 246 | 15 | 2046 | 10.3 | 313 | 31 | 0124 | 8.1 | 246 |
| | | | | Su | 1805 | | | | | | | | | | | | | | | | | | | | | | | | | | |

Beihai, China, 2011

Times and Heights of High and Low Waters

| October | | | | November | | | | December | | | | | | | | | | | | | | | | | | | | |
|-----------------|------|--------|-----|----------|-----------------|--------|------|----------|----|-----------------|------|------|-----|--------|-----------------|------|------|-----|--|-----------------|------|------|-----|--|-----------------|------|------|-----|
| Time | | Height | | Time | | Height | | Time | | Height | | Time | | Height | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | | | | | |
| 1 Sa | 0119 | 8.2 | 251 | | 16 Su | 0752 | 14.5 | 441 | | 1 Tu | 0902 | 16.2 | 495 | | 16 W | 0820 | 15.0 | 458 | | 1 Th | 0922 | 14.6 | 445 | | 16 F | 0843 | 14.4 | 440 |
| | 0738 | 15.2 | 464 | | | 1658 | 4.0 | 122 | | | 1934 | 3.0 | 92 | | | 1832 | 3.6 | 110 | | | 1923 | 3.9 | 120 | | | 1821 | 3.7 | 114 |
| | 1637 | 2.7 | 83 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 Su | 0835 | 16.0 | 488 | | 17 M | 0824 | 14.7 | 448 | | 2 W | 0954 | 15.4 | 469 | | 17 Th | 0857 | 14.7 | 449 | | 2 F | 1009 | 13.4 | 408 | | 17 Sa | 0930 | 13.6 | 414 |
| | 1810 | 2.8 | 85 | | | 1759 | 4.0 | 121 | | | 2030 | 3.6 | 109 | | | 1914 | 3.8 | 115 | | | 1946 | 4.7 | 142 | | | 1844 | 4.3 | 131 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 M | 0932 | 16.1 | 492 | | 18 Tu | 0859 | 14.7 | 449 | | 3 Th | 1049 | 14.4 | 438 | | 18 F | 0941 | 14.3 | 435 | | 3 Sa | 1057 | 11.9 | 363 | | 18 Su | 1025 | 12.2 | 373 |
| | 1946 | 3.0 | 91 | | | 1904 | 4.0 | 122 | | | 2112 | 4.2 | 128 | | | 1951 | 4.1 | 124 | | | 2000 | 5.4 | 164 | | | 1902 | 5.1 | 155 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 Tu | 1032 | 15.8 | 481 | | 19 W | 0936 | 14.6 | 446 | | 4 F | 1151 | 13.3 | 405 | | 19 Sa | 1037 | 13.5 | 412 | | 4 Su | 0247 | 9.1 | 277 | | 19 M | 0121 | 8.9 | 272 |
| | 2117 | 3.2 | 99 | | | 2009 | 4.0 | 123 | | | 2142 | 4.9 | 150 | | | 2022 | 4.6 | 139 | | | 0539 | 8.7 | 266 | | | 0507 | 7.9 | 242 |
| | | | | | | | | | | | | | | | | | | | | | 1152 | 10.3 | 314 | | | 1139 | 10.4 | 318 |
| | | | | | | | | | | | | | | | | | | | | | 2005 | 6.1 | 186 | | | 1909 | 6.0 | 183 |
| 5 W | 1134 | 15.2 | 463 | | 20 Th | 1021 | 14.4 | 439 | | 5 Sa | 1303 | 12.1 | 369 | | 20 Su | 1151 | 12.4 | 378 | | 5 M | 0259 | 10.2 | 312 | | 20 Tu | 0141 | 10.5 | 321 |
| | 2224 | 3.6 | 109 | | | 2107 | 4.1 | 125 | | | 2202 | 5.7 | 174 | | | 2047 | 5.4 | 164 | | | 0915 | 8.3 | 254 | | | 0815 | 7.3 | 224 |
| | | | | | | | | | | | | | | | | | | | | | 1326 | 8.7 | 264 | | | 1340 | 8.4 | 257 |
| | | | | | | | | | | | | | | | | | | | | | 1953 | 6.6 | 202 | | | 1859 | 6.7 | 204 |
| 6 Th | 1241 | 14.5 | 442 | | 21 F | 1117 | 14.1 | 430 | | 6 Su | 0418 | 8.9 | 271 | | 21 M | 0254 | 8.8 | 269 | | 6 Tu | 0320 | 11.4 | 348 | | 21 W | 0211 | 12.3 | 376 |
| | 2311 | 4.0 | 123 | | | 2152 | 4.3 | 130 | | | 0727 | 8.4 | 257 | | | 0616 | 8.1 | 248 | | | 1159 | 7.0 | 212 | | | 1109 | 5.6 | 172 |
| | | | | | | | | | | | 1430 | 10.9 | 333 | | | 1333 | 11.0 | 335 | | | 1552 | 7.4 | 226 | | | 1627 | 6.9 | 211 |
| | | | | | | | | | | | 2212 | 6.5 | 199 | | | 2059 | 6.4 | 195 | | | 1935 | 6.9 | 209 | | | 1830 | 6.8 | 207 |
| 7 F | 1350 | 13.8 | 421 | | 22 Sa | 1230 | 13.6 | 416 | | 7 M | 0424 | 9.9 | 303 | | 22 Tu | 0306 | 10.3 | 315 | | 7 W | 0346 | 12.5 | 381 | | 22 Th | 0250 | 14.1 | 429 |
| | 2347 | 4.7 | 142 | | | 2227 | 4.7 | 143 | | | 1002 | 7.8 | 237 | | | 0923 | 7.2 | 220 | | | 1259 | 5.6 | 170 | | | 1240 | 3.8 | 116 |
| | | | | | | | | | | | 1600 | 9.8 | 300 | | | 1528 | 9.6 | 292 | | | | | | | | | | |
| | | | | | | | | | | | 2208 | 7.2 | 220 | | | 2056 | 7.3 | 223 | | | | | | | | | | |
| 8 Sa | 1502 | 13.1 | 399 | | 23 Su | 1354 | 13.1 | 398 | | 8 Tu | 0442 | 11.1 | 338 | | 23 W | 0329 | 12.1 | 370 | | 8 Th | 0411 | 13.5 | 411 | | 23 F | 0334 | 15.5 | 472 |
| | | | | | | 2255 | 5.4 | 166 | | | 1141 | 6.7 | 203 | | | 1125 | 5.4 | 166 | | | 1343 | 4.5 | 137 | | | 1349 | 2.5 | 77 |
| | | | | | | | | | | | 1726 | 9.0 | 274 | | | 1733 | 8.4 | 257 | | | | | | | | | | |
| | | | | | | | | | | | 2156 | 7.6 | 233 | | | 2047 | 7.8 | 237 | | | | | | | | | | |
| 9 Su | 0011 | 5.4 | 165 | | 24 M | 0421 | 8.0 | 245 | | 9 W | 0500 | 12.2 | 373 | | 24 Th | 0359 | 14.0 | 428 | | 9 F | 0439 | 14.3 | 435 | | 24 Sa | 0423 | 16.3 | 497 |
| | 0546 | 7.9 | 240 | | | 0734 | 7.5 | 228 | | | 1252 | 5.5 | 169 | | | 1249 | 3.7 | 112 | | | 1422 | 3.7 | 112 | | | 1451 | 1.9 | 57 |
| | 0826 | 7.5 | 229 | | | 1524 | 12.3 | 375 | | | 1847 | 8.3 | 253 | | | | | | | | | | | | | | | |
| | 1614 | 12.4 | 378 | | | 2308 | 6.5 | 198 | | | 2144 | 7.8 | 237 | | | | | | | | | | | | | | | |
| 10 M | 0024 | 6.2 | 190 | | 25 Tu | 0424 | 9.4 | 285 | | 10 Th | 0522 | 13.3 | 405 | | 25 F | 0438 | 15.7 | 478 | | 10 Sa | 0509 | 14.9 | 453 | | 25 Su | 0513 | 16.6 | 507 |
| | 0543 | 8.8 | 268 | | | 1009 | 6.6 | 200 | | | 1347 | 4.6 | 141 | | | 1404 | 2.5 | 75 | | | 1502 | 3.2 | 97 | | | 1546 | 1.8 | 54 |
| | 1023 | 7.1 | 215 | | | 1654 | 11.4 | 348 | | | | | | | | | | | | | | | | | | | | |
| | 1721 | 11.7 | 356 | | | 2310 | 7.5 | 228 | | | | | | | | | | | | | | | | | | | | |
| 11 Tu | 0025 | 7.0 | 214 | | 26 W | 0438 | 11.2 | 340 | | 11 F | 0547 | 14.1 | 431 | | 26 Sa | 0524 | 16.8 | 511 | | 11 Su | 0542 | 15.2 | 464 | | 26 M | 0603 | 16.5 | 504 |
| | 0552 | 9.9 | 302 | | | 1153 | 5.0 | 151 | | | 1436 | 4.0 | 121 | | | 1514 | 1.9 | 58 | | | 1541 | 3.0 | 90 | | | 1632 | 2.0 | 62 |
| | 1153 | 6.3 | 192 | | | 1821 | 10.3 | 315 | | | | | | | | | | | | | | | | | | | | |
| | 1822 | 10.9 | 332 | | | 2320 | 8.2 | 249 | | | | | | | | | | | | | | | | | | | | |
| 12 W | 0020 | 7.6 | 232 | | 27 Th | 0501 | 13.3 | 404 | | 12 Sa | 0614 | 14.8 | 450 | | 27 Su | 0613 | 17.2 | 523 | | 12 M | 0615 | 15.4 | 468 | | 27 Tu | 0652 | 16.1 | 492 |
| | 0606 | 11.1 | 338 | | | 1314 | 3.4 | 105 | | | 1525 | 3.6 | 109 | | | 1622 | 1.8 | 56 | | | 1619 | 2.9 | 88 | | | 1711 | 2.5 | 77 |
| | 1304 | 5.5 | 168 | | | 1955 | 9.1 | 277 | | | | | | | | | | | | | | | | | | | | |
| | 1919 | 10.0 | 305 | | | 2330 | 8.4 | 256 | | | | | | | | | | | | | | | | | | | | |
| 13 Th | 0013 | 8.0 | 243 | | 28 F | 0539 | 15.2 | 462 | | 13 Su | 0644 | 15.2 | 462 | | 28 M | 0702 | 17.0 | 518 | | 13 Tu | 0650 | 15.3 | 467 | | 28 W | 0739 | 15.5 | 473 |
| | 0627 | 12.3 | 374 | | | 1429 | 2.4 | 74 | | | 1613 | 3.4 | 104 | | | 1723 | 2.2 | 66 | | | 1656 | 3.0 | 91 | | | 1739 | 3.1 | 96 |
| | 1405 | 4.9 | 148 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2012 | 9.1 | 278 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 F | 0002 | 8.1 | 246 | | 29 Sa | 0626 | 16.4 | 501 | | 14 M | 0715 | 15.3 | 465 | | 29 Tu | 0750 | 16.4 | 501 | | 14 W | 0725 | 15.2 | 463 | | 29 Th | 0824 | 14.7 | 447 |
| | 0652 | 13.3 | 404 | | | 1548 | 2.1 | 63 | | | 1702 | 3.4 | 103 | | | 1815 | 2.7 | 82 | | | 1727 | 3.1 | 96 | | | 1759 | 3.8 | 116 |
| | 1503 | 4.4 | 133 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2107 | 8.3 | 252 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2336 | 7.9 | 240 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 Sa | 0720 | 14.0</ | | | | | | | | | | | | | | | | | | | | | | | | | | |

Do Son, Hon Dau, Vietnam, 2011

Times and Heights of High and Low Waters

| January | | | | February | | | | March | | | | | | | | | | | | | | | | | | | | | |
|-----------------|------|--------|-----|----------|-----------------|--------|------|-------|-----|-----------------|------|------|-----|----------------|-----------------|------|------|----------------|------|-----------------|------|----------------|------|-----|-----------------|------|------|-----|-----|
| Time | | Height | | Time | | Height | | Time | | Height | | Time | | Height | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | | | | | | |
| 1 Sa | 0151 | 9.6 | 294 | 60 | 16 Su | 0158 | 9.3 | 284 | 62 | 1 Tu | 1542 | 0.7 | 20 | 16 W | 1507 | 1.0 | 30 | 1 Tu | 1416 | 1.3 | 40 | 16 W | 1336 | 1.7 | 52 | | | | |
| 2 Su | 0236 | 10.7 | 325 | 34 | 17 M | 0223 | 10.2 | 311 | 40 | 2 W | 0359 | 11.1 | 338 | 27 | 17 Th | 0314 | 10.9 | 331 | 38 | 2 W | 0255 | 10.3 | 313 | 52 | 17 Th | 0154 | 10.1 | 307 | 66 |
| 3 M | 0322 | 11.4 | 347 | 18 | 18 Tu | 0256 | 11.0 | 334 | 24 | 3 Th | 0438 | 10.8 | 328 | 41 | 18 F | 0359 | 10.6 | 322 | 53 | 3 Th | 0338 | 9.8 | 300 | 68 | 18 F | 0248 | 9.6 | 292 | 86 |
| 4 Tu | 0407 | 11.8 | 359 | 13 | 19 W | 0334 | 11.5 | 350 | 17 | 4 F | 0512 | 10.2 | 311 | 60 | 19 Sa | 0445 | 9.9 | 302 | 74 | 4 F | 0415 | 9.2 | 281 | 87 | 19 Sa | 0340 | 8.8 | 267 | 107 |
| 5 W | 0450 | 11.8 | 360 | 17 | 20 Th | 0415 | 11.7 | 356 | 19 | 5 Sa | 0541 | 9.5 | 289 | 82 | 20 Su | 0528 | 8.9 | 271 | 101 | 5 Sa | 0445 | 8.5 | 258 | 106 | 20 Su | 0433 | 7.6 | 233 | 125 |
| 6 Th | 0530 | 11.5 | 351 | 30 | 21 F | 0457 | 11.5 | 351 | 32 | 6 Su | 0600 | 8.7 | 265 | 107 | 21 M | 0606 | 7.6 | 232 | 131 | 6 Su | 0503 | 7.7 | 234 | 126 | 21 M | 0526 | 6.4 | 194 | 189 |
| 7 F | 0606 | 11.0 | 335 | 50 | 22 Sa | 0540 | 10.9 | 333 | 54 | 7 M | 0606 | 7.9 | 240 | 133 | 22 Tu | 0622 | 6.2 | 190 | 206 | 7 M | 0503 | 6.9 | 210 | 147 | 22 Tu | 1613 | 7.9 | 240 | |
| 8 Sa | 0635 | 10.3 | 314 | 73 | 23 Su | 0621 | 10.0 | 304 | 85 | 8 Tu | 0553 | 7.1 | 216 | 160 | 23 W | 0933 | 4.7 | 143 | 230 | 8 Tu | 0435 | 6.1 | 187 | 192 | 23 W | 0708 | 3.8 | 115 | 265 |
| 9 Su | 0656 | 9.5 | 289 | 100 | 24 M | 0655 | 8.7 | 266 | 122 | 9 W | 0425 | 6.5 | 199 | 159 | 24 Th | 0951 | 3.4 | 104 | 256 | 9 W | 0213 | 5.7 | 175 | 212 | 24 Th | 0801 | 2.7 | 82 | 285 |
| 10 M | 0706 | 8.6 | 263 | 127 | 25 Tu | 0712 | 7.3 | 223 | 163 | 10 Th | 0314 | 6.5 | 198 | 217 | 25 F | 1033 | 2.4 | 72 | 282 | 10 Th | 0922 | 4.1 | 124 | 234 | 25 F | 0854 | 1.9 | 58 | 299 |
| 11 Tu | 0653 | 7.8 | 239 | 150 | 26 W | 0506 | 6.1 | 186 | 209 | 11 F | 1137 | 3.6 | 110 | 245 | 26 Sa | 1122 | 1.6 | 49 | | 11 F | 0943 | 3.2 | 99 | 256 | 26 Sa | 0947 | 1.4 | 43 | 307 |
| 12 W | 0538 | 7.3 | 221 | 160 | 27 Th | 1145 | 3.9 | 120 | 248 | 12 Sa | 1200 | 2.7 | 83 | | 27 Su | 0008 | 9.9 | 302 | 36 | 12 Sa | 1015 | 2.5 | 77 | 277 | 27 Su | 1041 | 1.3 | 40 | 309 |
| 13 Th | 0437 | 7.1 | 217 | 143 | 28 F | 1211 | 2.7 | 82 | | 13 Su | 0025 | 9.0 | 273 | 60 | 28 M | 0112 | 10.3 | 315 | 34 | 13 Su | 1055 | 1.9 | 59 | 295 | 28 M | 1136 | 1.5 | 46 | |
| 14 F | 0217 | 7.5 | 229 | 117 | 29 Sa | 0045 | 9.3 | 284 | 52 | 14 M | 0104 | 9.8 | 298 | 43 | 29 Tu | 0104 | 9.8 | 298 | 43 | 14 M | 1141 | 1.6 | 48 | | 29 Tu | 0029 | 9.9 | 303 | 60 |
| 15 Sa | 0147 | 8.4 | 255 | 88 | 30 Su | 0139 | 10.2 | 312 | 31 | 15 Tu | 0145 | 10.4 | 317 | 32 | 30 W | 0005 | 10.1 | 308 | 46 | 15 Tu | 1234 | 1.5 | 46 | | 30 W | 0127 | 9.6 | 292 | 79 |
| | | | | | 31 M | 0229 | 10.9 | 331 | 21 | | | | | | | | | | | | | | | | 31 Th | 0216 | 9.0 | 274 | 101 |

Time meridian 105° E. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to the chart datum of soundings.

Do Son, Hon Dau, Vietnam, 2011

Times and Heights of High and Low Waters

| July | | | | August | | | | September | | | | | | | | | | | | | | | |
|-----------|------|--------|-----|-----------|------|--------|-----|-----------|------|--------|-----|-----------|------|--------|-----|-----------|------|------|-----|-----------|------|------|-----|
| Time | | Height | | Time | | Height | | Time | | Height | | Time | | Height | | | | | | | | | |
| h | m | ft | cm | h | m | ft | cm | h | m | ft | cm | h | m | ft | cm | | | | | | | | |
| 1 | 0424 | 1.1 | 34 | 16 | 0528 | 0.8 | 23 | 1 | 0611 | 1.7 | 52 | 16 | 0750 | 3.4 | 103 | 1 | 0106 | 7.2 | 218 | 16 | 0449 | 7.5 | 228 |
| F | 1617 | 11.2 | 341 | Sa | 1714 | 11.2 | 342 | M | 1719 | 10.5 | 320 | Tu | 1748 | 8.4 | 256 | Th | 1017 | 4.9 | 148 | F | 1142 | 6.2 | 190 |
| ● | | | | | | | | | | | | | | | | | 1801 | 6.3 | 192 | | 1229 | 6.2 | 190 |
| | | | | | | | | | | | | | | | | | 2102 | 6.1 | 187 | | 2014 | 5.0 | 152 |
| 2 | 0510 | 0.9 | 26 | 17 | 0626 | 1.2 | 36 | 2 | 0718 | 2.3 | 71 | 17 | 0843 | 4.2 | 127 | 2 | 0352 | 7.7 | 235 | 17 | 0610 | 8.0 | 244 |
| Sa | 1656 | 11.5 | 349 | Su | 1752 | 10.7 | 325 | Tu | 1759 | 9.6 | 294 | W | 1748 | 7.5 | 230 | F | 2021 | 4.9 | 150 | Sa | 2033 | 4.3 | 131 |
| 3 | 0558 | 0.9 | 26 | 18 | 0719 | 1.8 | 56 | 3 | 0828 | 3.2 | 97 | 18 | 0933 | 5.0 | 153 | 3 | 0603 | 8.4 | 257 | 18 | 0724 | 8.5 | 260 |
| Su | 1736 | 11.4 | 347 | M | 1825 | 9.9 | 302 | W | 1836 | 8.5 | 259 | Th | 1718 | 6.8 | 208 | Sa | 2054 | 3.7 | 114 | Su | 2101 | 3.6 | 111 |
| | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 0650 | 1.1 | 35 | 19 | 0804 | 2.6 | 80 | 4 | 0944 | 4.3 | 130 | 19 | 0250 | 6.3 | 191 | 4 | 0752 | 9.2 | 279 | 19 | 0835 | 9.1 | 277 |
| M | 1817 | 11.0 | 335 | Tu | 1848 | 9.0 | 275 | Th | 1857 | 7.2 | 219 | F | 1028 | 5.9 | 179 | Su | 2140 | 2.8 | 85 | M | 2135 | 3.1 | 95 |
| | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 0745 | 1.7 | 53 | 20 | 0840 | 3.5 | 108 | 5 | 1131 | 5.5 | 167 | 20 | 1226 | 6.7 | 204 | 5 | 0941 | 9.8 | 300 | 20 | 0940 | 9.6 | 293 |
| Tu | 1858 | 10.2 | 311 | W | 1855 | 8.1 | 248 | F | 1642 | 5.9 | 181 | Sa | 1514 | 6.5 | 199 | M | 2233 | 2.2 | 66 | Tu | 2213 | 2.8 | 84 |
| | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | 0840 | 2.7 | 81 | 21 | 0859 | 4.5 | 136 | 6 | 0725 | 7.2 | 220 | 21 | 0806 | 6.8 | 208 | 6 | 1115 | 10.4 | 316 | 21 | 1039 | 10.0 | 306 |
| W | 1934 | 9.1 | 278 | Th | 1834 | 7.3 | 224 | Sa | 2250 | 4.2 | 128 | Su | 1226 | 6.7 | 204 | Tu | 2328 | 1.9 | 57 | W | 2258 | 2.6 | 79 |
| | | | | | | | | ○ | | | | | | | | | | | | | | | |
| 7 | 0934 | 3.8 | 116 | 22 | 0639 | 5.3 | 162 | 7 | 1004 | 8.3 | 252 | 22 | 1122 | 8.4 | 255 | 7 | 1229 | 10.7 | 327 | 22 | 1135 | 10.3 | 315 |
| Th | 1958 | 7.8 | 238 | F | 1653 | 6.9 | 211 | Su | 2324 | 3.0 | 92 | M | 2321 | 3.3 | 100 | W | | | | Th | 2349 | 2.7 | 81 |
| | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | 1027 | 5.2 | 157 | 23 | 0152 | 5.4 | 164 | 8 | 1152 | 9.4 | 285 | 23 | 1204 | 9.1 | 278 | 8 | 0029 | 1.9 | 58 | 23 | 1227 | 10.4 | 317 |
| F | 1920 | 6.5 | 198 | Sa | 1556 | 7.0 | 213 | M | | | | Tu | | | | Th | 1329 | 10.8 | 328 | F | | | |
| ○ | | | | ○ | | | | | | | | | | | | | | | | | | | |
| 9 | 0146 | 5.6 | 171 | 24 | 0054 | 4.7 | 143 | 9 | 0011 | 2.1 | 65 | 24 | 0000 | 2.7 | 83 | 9 | 0137 | 2.2 | 68 | 24 | 0051 | 3.0 | 90 |
| Sa | 1245 | 6.6 | 201 | Su | 1348 | 7.5 | 229 | Tu | 1259 | 10.3 | 313 | W | 1243 | 9.8 | 298 | F | 1422 | 10.5 | 320 | Sa | 1318 | 10.2 | 311 |
| | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | 0049 | 4.4 | 135 | 25 | 0047 | 3.9 | 119 | 10 | 0107 | 1.5 | 47 | 25 | 0045 | 2.3 | 71 | 10 | 0259 | 2.8 | 84 | 25 | 0212 | 3.5 | 107 |
| Su | 1230 | 8.0 | 244 | M | 1334 | 8.3 | 253 | W | 1355 | 10.9 | 331 | Th | 1323 | 10.3 | 314 | Sa | 1509 | 10.0 | 305 | Su | 1409 | 9.7 | 295 |
| | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | 0102 | 3.1 | 96 | 26 | 0109 | 3.1 | 95 | 11 | 0208 | 1.3 | 39 | 26 | 0138 | 2.1 | 65 | 11 | 0440 | 3.3 | 101 | 26 | 0427 | 4.2 | 127 |
| M | 1318 | 9.3 | 283 | Tu | 1348 | 9.1 | 278 | Th | 1447 | 11.1 | 339 | F | 1405 | 10.6 | 324 | Su | 1550 | 9.3 | 283 | M | 1458 | 8.9 | 270 |
| | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | 0142 | 2.0 | 62 | 27 | 0143 | 2.4 | 74 | 12 | 0316 | 1.3 | 40 | 27 | 0241 | 2.1 | 65 | 12 | 0613 | 3.9 | 119 | 27 | 0657 | 4.6 | 141 |
| Tu | 1408 | 10.3 | 315 | W | 1413 | 9.9 | 301 | F | 1534 | 11.1 | 337 | Sa | 1448 | 10.7 | 325 | M | 1623 | 8.5 | 258 | Tu | 1547 | 7.8 | 237 |
| | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | 0232 | 1.2 | 37 | 28 | 0224 | 1.8 | 56 | 13 | 0429 | 1.6 | 48 | 28 | 0358 | 2.4 | 73 | 13 | 0730 | 4.5 | 137 | 28 | 2038 | 7.0 | 214 |
| W | 1458 | 11.1 | 338 | Th | 1443 | 10.5 | 320 | Sa | 1617 | 10.7 | 325 | Su | 1531 | 10.4 | 316 | Tu | 1639 | 7.6 | 231 | W | 2339 | 7.2 | 220 |
| | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | 0328 | 0.7 | 22 | 29 | 0312 | 1.4 | 44 | 14 | 0543 | 2.0 | 62 | 29 | 0530 | 2.8 | 86 | 14 | 0840 | 5.1 | 155 | 29 | 0219 | 8.1 | 247 |
| Th | 1545 | 11.5 | 350 | F | 1518 | 11.0 | 334 | Su | 1655 | 10.0 | 306 | M | 1616 | 9.7 | 296 | W | 1620 | 6.8 | 207 | Th | 1403 | 5.2 | 160 |
| | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | 0428 | 0.6 | 18 | 30 | 0406 | 1.3 | 39 | 15 | 0650 | 2.7 | 81 | 30 | 0707 | 3.4 | 103 | 15 | 2110 | 6.4 | 195 | 30 | 1605 | 5.2 | 160 |
| F | 1631 | 11.5 | 351 | Sa | 1557 | 11.2 | 340 | M | 1727 | 9.3 | 283 | Tu | 1700 | 8.8 | 267 | Th | 0304 | 7.0 | 213 | F | 1755 | 5.2 | 160 |
| ○ | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | 31 | 0506 | 1.4 | 42 | | | | | 31 | 0840 | 4.1 | 124 | | 0953 | 5.7 | 174 | | | | |
| | | | | Su | 1637 | 11.0 | 335 | | | | | W | 1740 | 7.6 | 231 | | 1421 | 6.2 | 189 | | | | |
| | | | | ● | | | | | | | | | 2218 | 7.0 | 212 | | 2027 | 5.7 | 174 | | | | |

Time meridian 105° E. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to the chart datum of soundings.

Do Son, Hon Dau, Vietnam, 2011

Times and Heights of High and Low Waters

| October | | | | November | | | | December | | | | | | | | | | | | | | | | | | | | | |
|-----------------|------|--------|-----|----------|-----------------|--------|------|----------|-----|-----------------|------|------|-----|--------|-----------------|------|------|-----|-----|-----------------|------|------|-----|----------------|-----------------|------|------|-----|-----|
| Time | | Height | | Time | | Height | | Time | | Height | | Time | | Height | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | | | | | | |
| 1 Sa | 0512 | 9.8 | 299 | 92 | 16 Su | 0604 | 9.8 | 298 | 92 | 1 Tu | 0741 | 11.6 | 354 | 49 | 16 W | 0718 | 11.4 | 347 | 60 | 1 Th | 0808 | 10.8 | 328 | 16 F | 0733 | 10.6 | 324 | 87 | |
| | 1919 | 3.0 | 92 | | | 1931 | 3.0 | 92 | | | 2034 | 1.6 | 49 | | | 2010 | 2.0 | 60 | | | 2055 | 2.7 | 82 | | 2040 | 2.9 | 87 | | |
| 2 Su | 0631 | 10.4 | 317 | 70 | 17 M | 0656 | 10.2 | 311 | 80 | 2 W | 0844 | 11.3 | 343 | 65 | 17 Th | 0804 | 11.2 | 341 | 73 | 2 F | 0841 | 9.8 | 299 | 113 | 17 Sa | 0809 | 9.7 | 295 | 120 |
| | 2009 | 2.3 | 70 | | | 2005 | 2.6 | 80 | | | 2121 | 2.1 | 65 | | | 2051 | 2.4 | 73 | | | 2121 | 3.7 | 113 | | 2119 | 3.9 | 120 | | |
| 3 M | 0752 | 10.8 | 328 | 58 | 18 Tu | 0749 | 10.5 | 321 | 73 | 3 Th | 0942 | 10.7 | 325 | 90 | 18 F | 0850 | 10.7 | 326 | 95 | 3 Sa | 0900 | 8.8 | 269 | 143 | 18 Su | 0835 | 8.5 | 259 | 159 |
| | 2101 | 1.9 | 58 | | | 2042 | 2.4 | 73 | | | 2204 | 3.0 | 90 | | | 2131 | 3.1 | 95 | | | 2106 | 4.7 | 143 | | 2126 | 5.2 | 159 | | |
| 4 Tu | 0914 | 10.9 | 333 | 58 | 19 W | 0843 | 10.7 | 327 | 74 | 4 F | 1035 | 9.9 | 301 | 119 | 19 Sa | 0935 | 9.9 | 301 | 126 | 4 Su | 0840 | 7.9 | 241 | 165 | 19 M | 0816 | 7.2 | 220 | 175 |
| | 2153 | 1.9 | 58 | | | 2123 | 2.4 | 74 | | | 2243 | 3.9 | 119 | | | 2212 | 4.1 | 126 | | | 1954 | 5.4 | 165 | | 1547 | 5.7 | 175 | | |
| 5 W | 1033 | 10.9 | 331 | 69 | 20 Th | 0937 | 10.7 | 327 | 82 | 5 Sa | 1114 | 9.0 | 273 | 150 | 20 Su | 1014 | 8.8 | 269 | 163 | 5 M | 0644 | 7.4 | 225 | 169 | 20 Tu | 0233 | 6.9 | 210 | 149 |
| | 2247 | 2.3 | 69 | | | 2208 | 2.7 | 82 | | | 2304 | 4.9 | 150 | | | 2229 | 5.3 | 163 | | | 1720 | 5.5 | 169 | | 1440 | 4.9 | 149 | | |
| 6 Th | 1144 | 10.6 | 322 | 87 | 21 F | 1032 | 10.5 | 320 | 100 | 6 Su | 1122 | 8.0 | 244 | 177 | 21 M | 1037 | 7.6 | 231 | 189 | 6 Tu | 0459 | 7.5 | 228 | 150 | 21 W | 0128 | 8.2 | 249 | 111 |
| | 2343 | 2.9 | 87 | | | 2258 | 3.3 | 100 | | | 2144 | 5.8 | 177 | | | 1747 | 6.2 | 189 | | | 1611 | 4.9 | 150 | | 1416 | 3.6 | 111 | | |
| 7 F | 1245 | 10.1 | 307 | | 22 Sa | 1125 | 9.9 | 303 | 126 | 7 M | 1037 | 7.2 | 218 | 188 | 22 Tu | 0223 | 6.8 | 208 | 170 | 7 W | 0309 | 8.2 | 250 | 126 | 22 Th | 0153 | 9.5 | 290 | 74 |
| | | | | | | 2357 | 4.1 | 126 | | | 1858 | 6.2 | 188 | | | 1629 | 5.6 | 170 | | | 1542 | 4.1 | 126 | | 1441 | 2.4 | 74 | | |
| 8 Sa | 0046 | 3.7 | 112 | 285 | 23 Su | 1217 | 9.2 | 279 | | 8 Tu | 0303 | 7.1 | 215 | 209 | 23 W | 0133 | 8.2 | 250 | 135 | 8 Th | 0312 | 9.0 | 273 | 101 | 23 F | 0235 | 10.6 | 324 | 44 |
| | 1337 | 9.4 | 285 | | | | | | | | 0644 | 6.9 | 209 | | | 1532 | 4.4 | 135 | | | 1550 | 3.3 | 101 | | 1522 | 1.4 | 44 | | |
| 9 Su | 0210 | 4.5 | 138 | 260 | 24 M | 0136 | 5.2 | 158 | 246 | 9 W | 0256 | 7.9 | 242 | 148 | 24 Th | 0216 | 9.5 | 290 | 96 | 9 F | 0329 | 9.7 | 295 | 80 | 24 Sa | 0322 | 11.5 | 350 | 23 |
| | 1419 | 8.5 | 260 | | | 1305 | 8.1 | 246 | | | 1658 | 4.9 | 148 | | | 1546 | 3.1 | 96 | | | 1615 | 2.6 | 80 | | 1611 | 0.8 | 23 | | |
| 10 M | 0508 | 5.3 | 161 | 233 | 25 Tu | 0640 | 5.8 | 178 | 195 | 10 Th | 0320 | 8.7 | 266 | 123 | 25 F | 0307 | 10.7 | 325 | 63 | 10 Sa | 0354 | 10.3 | 315 | 62 | 25 Su | 0410 | 12.0 | 365 | 14 |
| | 1443 | 7.6 | 233 | | | 1341 | 6.8 | 208 | | | 1700 | 4.0 | 123 | | | 1624 | 2.1 | 63 | | | 1645 | 2.0 | 62 | | 1703 | 0.5 | 14 | | |
| 11 Tu | 0701 | 5.8 | 176 | 194 | 26 W | 0115 | 7.8 | 238 | 165 | 11 F | 0354 | 9.4 | 288 | 102 | 26 Sa | 0359 | 11.5 | 351 | 40 | 11 Su | 0424 | 10.9 | 333 | 48 | 26 M | 0457 | 12.1 | 368 | 16 |
| | 1411 | 6.8 | 206 | | | 1653 | 5.4 | 165 | | | 1722 | 3.3 | 102 | | | 1710 | 1.3 | 40 | | | 1718 | 1.6 | 48 | | 1756 | 0.5 | 16 | | |
| 12 W | 0844 | 6.1 | 187 | 174 | 27 Th | 0226 | 9.0 | 275 | 127 | 12 Sa | 0430 | 10.1 | 308 | 83 | 27 Su | 0452 | 12.0 | 367 | 27 | 12 M | 0458 | 11.4 | 346 | 40 | 27 Tu | 0543 | 11.8 | 361 | 29 |
| | 1111 | 6.2 | 190 | | | 1643 | 4.2 | 127 | | | 1750 | 2.7 | 83 | | | 1758 | 0.9 | 27 | | | 1755 | 1.3 | 40 | | 1846 | 1.0 | 29 | | |
| 13 Th | 0322 | 8.0 | 245 | 150 | 28 F | 0330 | 10.1 | 308 | 92 | 13 Su | 0509 | 10.6 | 324 | 68 | 28 M | 0545 | 12.2 | 372 | 26 | 13 Tu | 0535 | 11.6 | 353 | 39 | 28 W | 0625 | 11.3 | 343 | 49 |
| | 1819 | 4.9 | 150 | | | 1722 | 3.0 | 92 | | | 1821 | 2.2 | 68 | | | 1847 | 0.9 | 26 | | | 1834 | 1.3 | 39 | | 1933 | 1.6 | 49 | | |
| 14 F | 0419 | 8.7 | 264 | 128 | 29 Sa | 0434 | 10.9 | 333 | 65 | 14 M | 0550 | 11.1 | 337 | 59 | 29 Tu | 0636 | 12.0 | 366 | 36 | 14 W | 0613 | 11.6 | 353 | 46 | 29 Th | 0702 | 10.5 | 319 | 76 |
| | 1835 | 4.2 | 128 | | | 1809 | 2.1 | 65 | | | 1854 | 1.9 | 59 | | | 1934 | 1.2 | 36 | | | 1915 | 1.5 | 46 | | 2013 | 2.5 | 76 | | |
| 15 Sa | 0512 | 9.3 | 282 | 109 | 30 Su | 0536 | 11.5 | 350 | 48 | 15 Tu | 0633 | 11.4 | 346 | 55 | 30 W | 0725 | 11.5 | 351 | 56 | 15 Th | 0653 | 11.3 | 343 | 62 | 30 F | 0726 | 9.5 | 290 | 107 |
| | 1901 | 3.6 | 109 | | | 1857 | 1.6 | 48 | | | 1931 | 1.8 | 55 | | | 2017 | 1.8 | 56 | | | 1958 | 2.0 | 62 | | 2040 | 3.5 | 107 | | |
| | | | | | 31 M | 0639 | 11.7 | 357 | 43 | | | | | | | | | | | | | | | | 31 Sa | 0736 | 8.5 | 259 | 137 |
| | | | | | | 1946 | 1.4 | 43 | | | | | | | | | | | | | | | | | | | | | |

Time meridian 105° E. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to the chart datum of soundings.

Mui Vung Tau, Vietnam, 2011

Times and Heights of High and Low Waters

| January | | | | February | | | | March | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|--------|------|------|----------|-----------------|------|--------|-------|------|-----------------|------|------|--------|----|-----------------|------|------|-----|--|-----------------|------|------|-----|--|-----------------|------|------|-----|--|-----------------|------|------|-----|--|------|-----|-----|--|
| Time | Height | | Time | Height | | Time | Height | | Time | Height | | Time | Height | | | | | | | | | | | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 Sa | 0514 | 3.3 | 101 | | 16 Su | 0447 | 4.1 | 124 | | 1 Tu | 0643 | 2.2 | 67 | | 16 W | 0604 | 2.5 | 76 | | 1 Tu | 0532 | 3.4 | 105 | | 16 W | 0428 | 3.6 | 110 | | | | | | | | | | |
| | 1232 | 11.2 | 342 | | | 1217 | 10.4 | 316 | | | 1416 | 11.5 | 351 | | | 1324 | 11.2 | 342 | | | 1311 | 10.9 | 332 | | | 1208 | 10.7 | 326 | | | | | | | | | | |
| | 1717 | 9.3 | 284 | | | 1609 | 9.5 | 291 | | | 1916 | 9.0 | 275 | | | 1831 | 8.9 | 271 | | | 1834 | 8.8 | 268 | | | 1725 | 8.8 | 268 | | 1725 | 8.8 | 268 | | | | | | |
| | 2231 | 12.2 | 373 | | | 2148 | 11.6 | 353 | | | 2352 | 11.5 | 352 | | | 2324 | 11.6 | 354 | | | 2258 | 10.4 | 317 | | | 2258 | 10.4 | 317 | | 2216 | 10.5 | 319 | | | | | | |
| 2 Su | 0607 | 2.3 | 71 | | 17 M | 0539 | 3.1 | 94 | | 2 W | 0726 | 2.0 | 61 | | 17 Th | 0654 | 1.9 | 58 | | 2 W | 0627 | 3.3 | 100 | | 17 Th | 0539 | 3.2 | 99 | | 17 Th | 1240 | 11.1 | 338 | | | | | |
| | 1333 | 11.7 | 357 | | | 1307 | 11.0 | 335 | | | 1446 | 11.6 | 355 | | | 1354 | 11.6 | 355 | | | 1340 | 11.1 | 337 | | | 1819 | 7.7 | 234 | | | 1819 | 7.7 | 234 | | | | | |
| | 1824 | 9.5 | 290 | | | 1737 | 9.7 | 295 | | | 1954 | 8.4 | 257 | | | 1917 | 8.0 | 244 | | | 1910 | 7.9 | 242 | | | 2333 | 11.1 | 339 | | | 2333 | 11.1 | 339 | | | | | |
| | 2315 | 12.4 | 377 | | | 2239 | 11.9 | 362 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 M | 0654 | 1.6 | 50 | | 18 Tu | 0626 | 2.2 | 66 | | 3 Th | 0043 | 11.7 | 356 | | 18 F | 0024 | 12.2 | 371 | | 3 Th | 0001 | 10.7 | 327 | | 18 F | 0635 | 3.0 | 91 | | 18 F | 1309 | 11.5 | 350 | | | | | |
| | 1423 | 12.0 | 367 | | | 1348 | 11.5 | 351 | | | 0803 | 2.1 | 63 | | | 0739 | 1.6 | 49 | | | 0710 | 3.2 | 98 | | | 1901 | 6.4 | 194 | | | 1901 | 6.4 | 194 | | | | | |
| | 1916 | 9.5 | 289 | | | 1839 | 9.5 | 289 | | | 1511 | 11.7 | 356 | | | 1424 | 11.9 | 364 | | | 1403 | 11.2 | 341 | | | | | | | | | | | | | | | |
| | 2358 | 12.5 | 380 | | | 2329 | 12.3 | 374 | | | 2027 | 7.8 | 237 | | | 1957 | 7.0 | 212 | | | 1940 | 7.1 | 216 | | | | | | | | | | | | | | | |
| 4 Tu | 0736 | 1.3 | 39 | | 19 W | 0710 | 1.4 | 43 | | 4 F | 0129 | 11.7 | 358 | | 19 Sa | 0119 | 12.6 | 384 | | 4 F | 0053 | 11.1 | 338 | | 19 Sa | 0035 | 11.9 | 362 | | 19 Sa | 0722 | 2.9 | 89 | | | | | |
| | 1506 | 12.2 | 371 | | | 1424 | 11.9 | 364 | | | 0837 | 2.4 | 72 | | | 0821 | 1.7 | 51 | | | 0746 | 3.3 | 100 | | | 1423 | 11.3 | 345 | | | 1423 | 11.3 | 345 | | | | | |
| | 1959 | 9.3 | 282 | | | 1927 | 9.1 | 277 | | | 1534 | 11.7 | 357 | | | 1453 | 12.1 | 370 | | | 1423 | 11.3 | 345 | | | 2008 | 6.2 | 190 | | | 1939 | 5.0 | 152 | | 1939 | 5.0 | 152 | |
| | | | | | | | | | | | 2059 | 7.2 | 218 | | | 2036 | 5.9 | 181 | | | 2008 | 6.2 | 190 | | | | | | | | | | | | | | | |
| 5 W | 0040 | 12.5 | 380 | | 20 Th | 0018 | 12.6 | 385 | | 5 Sa | 0213 | 11.7 | 357 | | 20 Su | 0213 | 12.8 | 390 | | 5 Sa | 0138 | 11.4 | 348 | | 20 Su | 0131 | 12.5 | 380 | | 20 Su | 0804 | 3.2 | 97 | | | | | |
| | 0815 | 1.3 | 39 | | | 0752 | 1.0 | 29 | | | 0907 | 2.8 | 86 | | | 0901 | 2.2 | 66 | | | 0817 | 3.5 | 108 | | | 0804 | 3.2 | 97 | | | 0804 | 3.2 | 97 | | | | | |
| | 1542 | 12.2 | 371 | | | 1459 | 12.2 | 373 | | | 1534 | 11.7 | 356 | | | 1522 | 12.3 | 374 | | | 1441 | 11.4 | 348 | | | 1406 | 12.1 | 368 | | | 1406 | 12.1 | 368 | | | | | |
| | 2037 | 9.0 | 273 | | | 2009 | 8.6 | 261 | | | 2131 | 6.6 | 202 | | | 2116 | 5.0 | 152 | | | 2036 | 5.5 | 167 | | | 2018 | 3.7 | 114 | | | 2018 | 3.7 | 114 | | | | | |
| 6 Th | 0122 | 12.4 | 377 | | 21 F | 0108 | 12.9 | 392 | | 6 Su | 0254 | 11.5 | 352 | | 21 M | 0307 | 12.7 | 388 | | 6 Su | 0218 | 11.6 | 353 | | 21 M | 0224 | 12.8 | 389 | | 21 M | 0844 | 3.8 | 115 | | | | | |
| | 0850 | 1.6 | 48 | | | 0834 | 0.9 | 26 | | | 0937 | 3.4 | 105 | | | 0940 | 3.0 | 92 | | | 0846 | 3.9 | 119 | | | 0844 | 3.8 | 115 | | | 0844 | 3.8 | 115 | | | | | |
| | 1613 | 12.1 | 369 | | | 1532 | 12.4 | 378 | | | 1614 | 11.6 | 355 | | | 1552 | 12.3 | 374 | | | 1458 | 11.5 | 350 | | | 1435 | 12.2 | 373 | | | 1435 | 12.2 | 373 | | | | | |
| | 2114 | 8.6 | 263 | | | 2050 | 7.9 | 241 | | | 2203 | 6.2 | 189 | | | 2158 | 4.2 | 129 | | | 2104 | 4.9 | 148 | | | 2057 | 2.8 | 84 | | | 2057 | 2.8 | 84 | | | | | |
| 7 F | 0203 | 12.1 | 369 | | 22 Sa | 0159 | 12.9 | 394 | | 7 M | 0336 | 11.3 | 343 | | 22 Tu | 0402 | 12.3 | 375 | | 7 M | 0256 | 11.6 | 354 | | 22 Tu | 0316 | 12.7 | 388 | | 22 Tu | 0922 | 4.6 | 141 | | | | | |
| | 0924 | 2.1 | 65 | | | 0914 | 1.2 | 37 | | | 1006 | 4.2 | 128 | | | 1019 | 4.2 | 128 | | | 0914 | 4.4 | 134 | | | 1503 | 12.3 | 374 | | | 1503 | 12.3 | 374 | | | | | |
| | 1642 | 12.0 | 365 | | | 1606 | 12.4 | 379 | | | 1633 | 11.6 | 353 | | | 1621 | 12.2 | 371 | | | 1516 | 11.5 | 351 | | | 2137 | 2.1 | 64 | | | 2137 | 2.1 | 64 | | | | | |
| | 2151 | 8.3 | 252 | | | 2132 | 7.3 | 221 | | | 2238 | 5.9 | 179 | | | 2242 | 3.7 | 114 | | | 2133 | 4.4 | 134 | | | | | | | | | | | | | | | |
| 8 Sa | 0245 | 11.7 | 357 | | 23 Su | 0252 | 12.7 | 387 | | 8 Tu | 0418 | 10.9 | 331 | | 23 W | 0502 | 11.6 | 355 | | 8 Tu | 0334 | 11.5 | 351 | | 23 W | 0410 | 12.4 | 377 | | 23 W | 0959 | 5.7 | 173 | | | | | |
| | 0957 | 2.9 | 88 | | | 0955 | 2.0 | 60 | | | 1035 | 5.0 | 153 | | | 1057 | 5.5 | 168 | | | 0941 | 5.0 | 153 | | | 1532 | 12.2 | 372 | | | 1532 | 12.2 | 372 | | | | | |
| | 1709 | 11.8 | 360 | | | 1639 | 12.4 | 377 | | | 1653 | 11.5 | 350 | | | 1651 | 12.0 | 365 | | | 1533 | 11.5 | 351 | | | 2219 | 1.9 | 57 | | | 2219 | 1.9 | 57 | | | | | |
| | 2230 | 8.0 | 243 | | | 2218 | 6.6 | 201 | | | 2314 | 5.6 | 171 | | | 2331 | 3.5 | 106 | | | 2203 | 4.1 | 124 | | | | | | | | | | | | | | | |
| 9 Su | 0328 | 11.2 | 341 | | 24 M | 0349 | 12.2 | 372 | | 9 W | 0505 | 10.4 | 316 | | 24 Th | 0612 | 10.8 | 330 | | 9 W | 0413 | 11.2 | 342 | | 24 Th | 0507 | 11.7 | 358 | | 24 Th | 1035 | 6.8 | 206 | | | | | |
| | 1029 | 3.8 | 115 | | | 1037 | 3.1 | 95 | | | 1104 | 5.9 | 180 | | | 1136 | 6.9 | 209 | | | 1008 | 5.7 | 175 | | | 1600 | 12.0 | 365 | | | 1600 | 12.0 | 365 | | | | | |
| | 1736 | 11.7 | 356 | | | 1713 | 12.2 | 373 | | | 1712 | 11.4 | 346 | | | 1722 | 11.7 | 357 | | | 1550 | 11.5 | 349 | | | 2303 | 2.0 | 61 | | | 2303 | 2.0 | 61 | | | | | |
| | 2313 | 7.7 | 234 | | | 2307 | 6.0 | 183 | | | 2355 | 5.4 | 164 | | | 2242 | 3.7 | 114 | | | 2235 | 3.8 | 117 | | | | | | | | | | | | | | | |
| 10 M | 0416 | 10.6 | 323 | | 25 Tu | 0452 | 11.5 | 351 | | 10 Th | 0601 | 9.8 | 300 | | 25 F | 0026 | 3.5 | 106 | | 10 Th | 0456 | 10.8 | 330 | | 25 F | 0613 | 11.0 | 335 | | 25 F | 1113 | 7.8 | 238 | | | | | |
| | 1101 | 4.7 | 143 | | | 1119 | 4.5 | 136 | | | 1133 | 6.8 | 208 | | | 0742 | 10.1 | 309 | | | 1035 | 6.6 | 200 | | | 1628 | 11.6 | 353 | | | 1628 | 11.6 | 353 | | | | | |
| | 1803 | 11.6 | 353 | | | 1748 | 12.0 | 367 | | | 1733 | 11.3 | 343 | | | 1218 | 8.1 | 246 | | | 1608 | 11.4 | 347 | | | 2311 | 3.8 | 115 | | | 2353 | 2.5 | 76 | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 Tu | 0000 | 7.3 | 224 | | 26 W | 0002 | 5.4 | 166 | | 11 F | 0042 | 5.2 | 157 | | 26 Sa | 0130 | 3.6 | 110 | | 11 F | 0546 | 10.3 | 315 | | 26 Sa | 0736 | 10.4 | 316 | | 26 Sa | 1156 | 8.7 | 265 | | | | | |
| | 0512 | 10.0 | 305 | | | 0610 | 10.7 | 326 | | | 0719 | 9.4 | 286 | | | 0934 | 9.9 | 302 | | | 1103 | 7.4 | 225 | | | 1628 | 11.3 | 344 | | | 1628 | 11.3 | 344 | | | | | |
| | 1135 | 5.7 | 173 | | | 1204 | 5.9 | 181 | | | 1205 | 7.7 | 235 | | | 1311 | 9.1 | 276 | | | 1628 | 11.3 | 344 | | | 2352 | 3.7 | 114 | | | 2352 | 3.7 | 114 | | | | | |
| | 1830 | 11.5 | 349 | | | 1824 | 11.9 | 362 | | | 1758 | 11.2 | 340 | | | 1837 | 10.9 | 333 | | | 2311 | 3.8 | 115 | | | | | | | | | | | | | | | |
| 12 W | 0052 | 7.0 | 212 | | 27 Th | 0104 | 5.0 | 151 | | 12 Sa | 0137 | 4.9 | 148 | | 27 Su | 0247 | 3.7 | 113 | | 12 Sa | 0654 | 9.8 | 300 | | 27 Su | 0050 | 3.2 | 97 | | 27 Su | 0917 | 10.1 | 308 | | | | | |
| | 0626 | 9.4 | 288 | | | 0748 | 10.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Mui Vung Tau, Vietnam, 2011

Times and Heights of High and Low Waters

| April | | | | May | | | | June | | | | | | | | | | | | | | | | | | | |
|-----------------|--------|------|------|-----------------|------|------|--------|-----------------|------|--------|-----|-----------------|--------|------|-----|-----------------|------|------|------|-----------------|------|------|-----|---|------|------|-----|
| Time | Height | | Time | Height | | Time | Height | | Time | Height | | Time | Height | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | | | | |
| 1 F | 0007 | 10.2 | 311 | 16 Sa | 0608 | 4.4 | 135 | 1 Su | 0048 | 10.3 | 313 | 16 M | 0050 | 11.1 | 339 | 1 W | 0158 | 10.6 | 324 | 16 Th | 0248 | 11.2 | 341 | | | | |
| | 0642 | 4.7 | 143 | | 1218 | 11.5 | 350 | | 0639 | 6.2 | 189 | | 0632 | 6.3 | 192 | | 0714 | 7.5 | 230 | | 0750 | 7.8 | 239 | | | | |
| | 1304 | 11.0 | 334 | | 1839 | 4.5 | 138 | | 1221 | 11.1 | 337 | | 1201 | 11.7 | 358 | | 1214 | 11.2 | 340 | | 1237 | 11.6 | 353 | ○ | 2009 | -0.6 | -19 |
| | 1915 | 5.7 | 174 | | | | | | 1909 | 3.5 | 108 | | 1900 | 1.4 | 44 | | 1938 | 1.0 | 31 | | | | | | | | |
| 2 Sa | 0056 | 10.7 | 327 | 17 Su | 0043 | 11.6 | 354 | 2 M | 0129 | 10.8 | 329 | 17 Tu | 0146 | 11.6 | 355 | 2 Th | 0238 | 11.0 | 335 | 17 F | 0336 | 11.3 | 344 | | | | |
| | 0718 | 4.8 | 146 | | 0659 | 4.7 | 142 | | 0715 | 6.4 | 194 | | 0721 | 6.7 | 204 | | 0751 | 7.7 | 235 | | 0833 | 7.8 | 239 | | | | |
| | 1323 | 11.2 | 340 | | 1249 | 11.8 | 360 | | 1243 | 11.2 | 342 | | 1234 | 12.0 | 365 | | 1243 | 11.3 | 345 | | 1317 | 11.5 | 350 | ● | 2011 | 0.4 | 13 |
| | 1941 | 4.8 | 145 | | 1919 | 3.1 | 93 | | 1937 | 2.7 | 82 | | 1941 | 0.4 | 12 | | 2011 | 0.4 | 13 | | 2049 | -0.5 | -15 | | | | |
| 3 Su | 0137 | 11.2 | 341 | 18 M | 0139 | 12.2 | 372 | 3 Tu | 0207 | 11.2 | 341 | 18 W | 0239 | 11.9 | 364 | 3 F | 0319 | 11.2 | 341 | 18 Sa | 0419 | 11.2 | 341 | | | | |
| | 0750 | 5.0 | 151 | | 0744 | 5.1 | 154 | | 0748 | 6.6 | 200 | | 0804 | 7.1 | 217 | | 0827 | 7.9 | 240 | | 0914 | 7.7 | 236 | | | | |
| | 1342 | 11.3 | 345 | | 1319 | 12.1 | 368 | | 1304 | 11.4 | 347 | | 1308 | 12.1 | 369 | | 1313 | 11.5 | 349 | | 1357 | 11.2 | 340 | | | | |
| | 1915 | 5.7 | 174 | | 1959 | 1.8 | 55 | | 2005 | 2.0 | 60 | | 2022 | -0.2 | -6 | | 2045 | 0.1 | 3 | | 2127 | 0.0 | 0 | | | | |
| 4 M | 0215 | 11.5 | 351 | 19 Tu | 0231 | 12.5 | 381 | 4 W | 0245 | 11.5 | 349 | 19 Th | 0331 | 11.9 | 364 | 4 Sa | 0359 | 11.3 | 344 | 19 Su | 0459 | 11.0 | 335 | | | | |
| | 0819 | 5.2 | 160 | | 0824 | 5.6 | 171 | | 0819 | 6.9 | 209 | | 0845 | 7.5 | 229 | | 0903 | 8.0 | 244 | | 0956 | 7.6 | 232 | | | | |
| | 1400 | 11.5 | 349 | | 1349 | 12.3 | 374 | | 1326 | 11.5 | 351 | | 1341 | 12.1 | 368 | | 1345 | 11.5 | 350 | | 1438 | 10.7 | 326 | | | | |
| | 2035 | 3.3 | 100 | | 2038 | 1.0 | 29 | | 2035 | 1.4 | 44 | | 2102 | -0.3 | -10 | | 2122 | 0.1 | 3 | | 2205 | 0.8 | 24 | | | | |
| 5 Tu | 0252 | 11.7 | 356 | 20 W | 0323 | 12.5 | 381 | 5 Th | 0323 | 11.5 | 352 | 20 F | 0422 | 11.7 | 358 | 5 Su | 0442 | 11.3 | 343 | 20 M | 0537 | 10.8 | 328 | | | | |
| | 0847 | 5.6 | 172 | | 0902 | 6.3 | 192 | | 0849 | 7.3 | 221 | | 0924 | 7.9 | 240 | | 0942 | 8.1 | 247 | | 1040 | 7.4 | 225 | | | | |
| | 1419 | 11.5 | 351 | | 1418 | 12.3 | 375 | | 1349 | 11.6 | 353 | | 1414 | 11.8 | 360 | | 1421 | 11.4 | 346 | | 1521 | 10.0 | 306 | | | | |
| | 2102 | 2.8 | 84 | | 2117 | 0.6 | 17 | | 2106 | 1.1 | 33 | | 2141 | 0.0 | 1 | | 2201 | 0.4 | 12 | | 2242 | 1.8 | 55 | | | | |
| 6 W | 0328 | 11.7 | 356 | 21 Th | 0416 | 12.2 | 371 | 6 F | 0404 | 11.5 | 351 | 21 Sa | 0513 | 11.4 | 348 | 6 M | 0526 | 11.1 | 339 | 21 Tu | 0613 | 10.5 | 321 | | | | |
| | 0915 | 6.2 | 188 | | 0939 | 7.1 | 215 | | 0920 | 7.7 | 235 | | 1005 | 8.1 | 248 | | 1025 | 8.1 | 246 | | 1130 | 7.1 | 217 | | | | |
| | 1437 | 11.5 | 352 | | 1448 | 12.2 | 371 | | 1413 | 11.6 | 354 | | 1448 | 11.4 | 346 | | 1503 | 11.0 | 335 | | 1611 | 9.3 | 284 | | | | |
| | 2132 | 2.4 | 74 | | 2158 | 0.6 | 19 | | 2139 | 1.0 | 30 | | 2221 | 0.8 | 23 | | 2243 | 1.0 | 32 | | 2319 | 2.9 | 88 | | | | |
| 7 Th | 0407 | 11.5 | 351 | 22 F | 0512 | 11.7 | 356 | 7 Sa | 0448 | 11.3 | 345 | 22 Su | 0604 | 11.1 | 337 | 7 Tu | 0611 | 11.0 | 334 | 22 W | 0648 | 10.3 | 315 | | | | |
| | 0943 | 6.8 | 207 | | 1017 | 7.8 | 238 | | 0953 | 8.1 | 248 | | 1051 | 8.3 | 254 | | 1118 | 7.9 | 240 | | 1226 | 6.8 | 206 | | | | |
| | 1456 | 11.5 | 352 | | 1517 | 11.8 | 360 | | 1440 | 11.5 | 352 | | 1523 | 10.7 | 326 | | 1554 | 10.4 | 317 | | 1714 | 8.6 | 261 | | | | |
| | 2203 | 2.3 | 70 | | 2240 | 1.1 | 35 | | 2216 | 1.2 | 36 | | 2302 | 1.8 | 54 | | 2330 | 1.9 | 59 | | 2357 | 4.0 | 121 | | | | |
| 8 F | 0450 | 11.2 | 341 | 23 Sa | 0613 | 11.1 | 338 | 8 Su | 0538 | 11.1 | 337 | 23 M | 0657 | 10.7 | 326 | 8 W | 0658 | 10.8 | 329 | 23 Th | 0723 | 10.2 | 311 | | | | |
| | 1011 | 7.4 | 227 | | 1058 | 8.4 | 257 | | 1031 | 8.5 | 260 | | 1146 | 8.3 | 254 | | 1220 | 7.4 | 227 | | 1329 | 6.3 | 191 | | | | |
| | 1517 | 11.5 | 351 | | 1546 | 11.3 | 343 | | 1510 | 11.3 | 345 | | 1602 | 9.9 | 301 | | 1702 | 9.6 | 293 | | 1843 | 7.9 | 242 | | | | |
| | 2238 | 2.3 | 71 | | 2325 | 2.0 | 60 | | 2257 | 1.6 | 49 | | 2346 | 2.9 | 88 | | 2346 | 2.9 | 88 | | ○ | | | | | | |
| 9 Sa | 0541 | 10.8 | 328 | 24 Su | 0724 | 10.6 | 324 | 9 M | 0636 | 10.8 | 329 | 24 Tu | 0749 | 10.5 | 319 | 9 Th | 0022 | 3.1 | 93 | 24 F | 0038 | 5.0 | 151 | | | | |
| | 1042 | 8.1 | 248 | | 1149 | 8.9 | 271 | | 1119 | 8.8 | 267 | | 1258 | 8.1 | 247 | | 0745 | 10.7 | 326 | | 0758 | 10.1 | 309 | | | | |
| | 1540 | 11.4 | 347 | | 1616 | 10.6 | 322 | | 1547 | 10.9 | 331 | | 1657 | 9.0 | 273 | | 1333 | 6.7 | 204 | | 1434 | 5.6 | 171 | | | | |
| | 2318 | 2.6 | 78 | | | | | | 2345 | 2.3 | 70 | | | | | | 1848 | 8.9 | 271 | | 2032 | 7.7 | 235 | | | | |
| 10 Su | 0645 | 10.4 | 316 | 25 M | 0015 | 3.0 | 91 | 10 Tu | 0739 | 10.6 | 324 | 25 W | 0033 | 4.0 | 123 | 10 F | 0121 | 4.2 | 129 | 25 Sa | 0123 | 5.9 | 179 | | | | |
| | 1119 | 8.7 | 266 | | 0840 | 10.4 | 316 | | 1224 | 8.7 | 266 | | 0837 | 10.3 | 315 | | 0831 | 10.7 | 326 | | 0833 | 10.1 | 308 | | | | |
| | 1608 | 11.1 | 339 | | 1305 | 9.0 | 275 | | 1638 | 10.2 | 310 | | 1430 | 7.5 | 230 | | 1448 | 5.6 | 171 | | 1535 | 4.8 | 147 | | | | |
| | | | | | 1650 | 9.7 | 295 | | ○ | | | | 1857 | 8.2 | 249 | | 2054 | 8.8 | 267 | | 2205 | 7.9 | 241 | | | | |
| 11 M | 0007 | 3.0 | 90 | 26 Tu | 0114 | 4.0 | 123 | 11 W | 0043 | 3.1 | 96 | 26 Th | 0127 | 5.1 | 154 | 11 Sa | 0228 | 5.4 | 164 | 26 Su | 0216 | 6.7 | 203 | | | | |
| | 0810 | 10.2 | 310 | | 0947 | 10.3 | 315 | | 0840 | 10.6 | 323 | | 0918 | 10.3 | 315 | | 0915 | 10.8 | 329 | | 0908 | 10.1 | 309 | | | | |
| | 1213 | 9.2 | 279 | | 1529 | 8.7 | 264 | | 1350 | 8.3 | 253 | | 1554 | 6.7 | 203 | | 1559 | 4.3 | 130 | | 1628 | 3.9 | 120 | | | | |
| | 1643 | 10.7 | 326 | | 1836 | 8.8 | 267 | | 1810 | 9.4 | 285 | | 2113 | 8.1 | 246 | | 2234 | 9.2 | 280 | | 2318 | 8.4 | 255 | | | | |
| 12 Tu | 0108 | 3.4 | 105 | 27 W | 0227 | 4.9 | 150 | 12 Th | 0151 | 4.0 | 123 | 27 F | 0230 | 5.9 | 180 | 12 Su | 0341 | 6.3 | 193 | 27 M | 0321 | 7.3 | 223 | | | | |
| | 0934 | 10.2 | 312 | | 1034 | 10.4 | 317 | | 0931 | 10.7 | 326 | | 0954 | 10.4 | 317 | | 0957 | 11.0 | 334 | | 0944 | 10.2 | 311 | | | | |
| | 1340 | 9.3 | 282 | | 1709 | 7.7 | 234 | | 1522 | 7.3 | 223 | | 1647 | 5.6 | 172 | | 1701 | 2.9 | 87 | | 1714 | 3.1 | 93 | | | | |
| | 1743 | 10.0 | 306 | | 2135 | 8.6 | 262 | | 2047 | 9.1 | 276 | | 2241 | 8.5 | 258 | | 2351 | 9.8 | 300 | | | | | | | | |
| 13 W | 0224 | 3.9 | 119 | 28 Th | 0350 | 5.5 | 169 | 13 F | 0308 | 4.8 | 147 | 28 Sa | 0339 | 6.5 | 199 | 13 M | 0457 | 7.1 | 215 | 28 Tu | 0017 | 8.9 | 272 | | | | |
| | 1032 | 10.5 | 320 | | 1108 | 10.5 | 321 | | 1014 | 10.9 | 332 | | 1024 | 10.5 | 320 | | 1038 | 11.2 | 341 | | 0437 | 7.7 | 236 | | | | |
| | 1542 | 8.7 | 265 | | 1744 | 6.6 | 201 | | 1635 | 5.9 | 181 | | 1727 | 4.6 | 141 | | 1754 | 1.5 | 47 | | 1020 | 10.3 | 315 | | | | |
| | 2026 | 9.5 | 291 | | 2302 | 9.1 | 277 | | 2233 | 9.6 | 293 | | 2343 | 9.0 | 275 | | | | 1756 | | 2.1 | 65 | | | | | |
| 14 Th | 0349 | 4.2 | 128 | 29 F | 0503 | 5.9 | 179 | 14 Sa | 0426 | 5.4 | 165 | 29 Su | 0448 | 7.0 | 212 | 14 Tu | 0057 | 10.4 | 318 | 29 W | 0106 | 9.5 | 290 | | | | |
| | 1113 | 10.8 | 329 | | 1136 | 10.7 | 326 | | 1052 | 11.2 | 340 | | 1053 | 10.6 | 324 | | 0605 | 7.5 | 229 | | 0548 | 8.0 | 243 | | | | |
| | 1707 | 7.5 | 230 | | 1813 | 5.5 | 169 | | 1730 | 4.4 | 133 | | 1801 | 3.6 | 110 | | 1118 | 11.4 | 347 | | 1057 | 10.5 | 321 | | | | |
| | 2226 | 10.0 | 304 | | | | | | 2347 | 10.4 | 317 | | | | | | 1843 | 0.5 | 14 | | 1836 | 1.2 | 38 | | | | |
| 15 F | 0506 | 4.3 | 132 | 30 Sa | 0001 | 9.7 | 295 | 15 Su | 0535 | 5.9 | 180 | 30 M | 0033 | 9.6 | 293 | 15 W | 0156 | 10.9 | 333 | 30 Th | 0150 | 10.0 | 306 | | | | |
| | 1147 | 11.1 | 339 | | 0557 | 6.0 | 184 | | 1127 | 11.5 | 349 | | 0546 | 7.2 | 219 | | 0702 | 7.7 | 236 | | 0644 | 8.0 | 244 | | | | |
| | 1757 | 6.1 | 185 | | 1159 | 10.9 | 331 | | 1816 | 2.8 | 86 | | 1120 | 10.8 | 32 | | | | | | | | | | | | |

Mui Vung Tau, Vietnam, 2011

Times and Heights of High and Low Waters

| July | | | | August | | | | September | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|--------|------|------|--------|-----------------|------|--------|-----------|------|-----------------|------|------|--------|----|-----------------|------|------|-----|--|-----------------|------|------|------|-----|-----------------|------|------|------|-----|--|
| Time | Height | | Time | Height | | Time | Height | | Time | Height | | Time | Height | | | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | | | | | | | |
| 1 F | 0229 | 10.5 | 319 | | 16 Sa | 0324 | 10.7 | 326 | | 1 M | 0834 | 6.3 | 193 | | 16 Tu | 0917 | 5.0 | 153 | | 1 Th | 0934 | 3.0 | 92 | | 16 F | 0312 | 11.0 | 334 | | |
| | 0729 | 7.9 | 242 | | | 0825 | 7.3 | 223 | | | 0834 | 6.3 | 193 | | | 0917 | 5.0 | 153 | | | | 0934 | 3.0 | 92 | | | 0312 | 11.0 | 334 | |
| | 1213 | 11.0 | 335 | | | 1311 | 10.8 | 329 | | | 1343 | 11.2 | 342 | | | 1449 | 10.4 | 317 | | | | 1540 | 11.5 | 351 | | | 1606 | 10.7 | 325 | |
| | 1952 | -0.1 | -2 | | | 2037 | 0.0 | 1 | | | 2055 | 0.2 | 7 | | | 2125 | 2.5 | 75 | | | | 2155 | 3.4 | 104 | | | 2154 | 5.5 | 168 | |
| 2 Sa | 0307 | 10.8 | 328 | | 17 Su | 0357 | 10.7 | 325 | | 2 Tu | 0340 | 10.9 | 333 | | 17 W | 0355 | 10.4 | 318 | | 2 F | 0351 | 11.4 | 347 | | 17 Sa | 0330 | 10.9 | 333 | | |
| | 0810 | 7.8 | 237 | | | 0903 | 6.9 | 209 | | | 0914 | 5.6 | 171 | | | 0950 | 4.6 | 139 | | | | 1017 | 2.5 | 75 | | | 1020 | 3.1 | 93 | |
| | 1254 | 11.2 | 342 | | | 1357 | 10.6 | 323 | | | 1435 | 11.2 | 341 | | | 1532 | 10.1 | 309 | | | | 1638 | 11.0 | 336 | | | 1648 | 10.3 | 314 | |
| | 2030 | -0.3 | -10 | | | 2113 | 0.6 | 17 | | | 2135 | 0.8 | 25 | | | 2154 | 3.2 | 98 | | | | 2234 | 4.6 | 140 | | | 2221 | 6.3 | 192 | |
| 3 Su | 0343 | 11.0 | 334 | | 18 M | 0426 | 10.6 | 322 | | 3 W | 0411 | 11.0 | 334 | | 18 Th | 0414 | 10.4 | 317 | | 3 Sa | 0422 | 11.3 | 344 | | 18 Su | 0348 | 10.8 | 330 | | |
| | 0849 | 7.5 | 229 | | | 0941 | 6.4 | 195 | | | 0956 | 4.9 | 149 | | | 1024 | 4.2 | 129 | | | | 1104 | 2.2 | 67 | | | 1055 | 3.1 | 94 | |
| | 1337 | 11.2 | 342 | | | 1443 | 10.3 | 313 | | | 1530 | 10.9 | 332 | | | 1615 | 9.8 | 298 | | | | 1744 | 10.3 | 315 | | | 1738 | 9.9 | 301 | |
| | 2109 | -0.3 | -8 | | | 2147 | 1.3 | 40 | | | 2215 | 1.8 | 54 | | | 2223 | 4.1 | 124 | | | | 2314 | 5.9 | 179 | | | 2250 | 7.1 | 215 | |
| 4 M | 0419 | 11.0 | 336 | | 19 Tu | 0452 | 10.4 | 318 | | 4 Th | 0443 | 10.9 | 333 | | 19 F | 0434 | 10.3 | 315 | | 4 Su | 0454 | 11.1 | 337 | | 19 M | 0408 | 10.7 | 326 | | |
| | 0930 | 7.2 | 219 | | | 1019 | 6.0 | 182 | | | 1042 | 4.2 | 129 | | | 1100 | 4.0 | 122 | | | | 1157 | 2.2 | 67 | | | 1135 | 3.2 | 98 | |
| | 1423 | 11.1 | 338 | | | 1529 | 9.8 | 299 | | | 1630 | 10.4 | 316 | | | 1701 | 9.3 | 284 | | | | 1907 | 9.7 | 295 | | | 1843 | 9.5 | 289 | |
| | 2149 | 0.2 | 6 | | | 2219 | 2.2 | 67 | | | 2255 | 3.0 | 91 | | | 2251 | 4.9 | 150 | | | | 2358 | 7.1 | 216 | | | 2323 | 7.8 | 238 | |
| 5 Tu | 0455 | 11.0 | 335 | | 20 W | 0517 | 10.3 | 314 | | 5 F | 0516 | 10.8 | 330 | | 20 Sa | 0453 | 10.2 | 312 | | 5 M | 0529 | 10.7 | 327 | | 20 Tu | 0430 | 10.5 | 321 | | |
| | 1015 | 6.7 | 205 | | | 1100 | 5.6 | 171 | | | 1132 | 3.6 | 111 | | | 1139 | 3.9 | 118 | | | | 1257 | 2.4 | 72 | | | 1223 | 3.4 | 104 | |
| | 1515 | 10.7 | 327 | | | 1618 | 9.3 | 282 | | | 1740 | 9.7 | 295 | | | 1755 | 8.8 | 269 | | | | 2050 | 9.4 | 285 | | | 2015 | 9.3 | 283 | |
| | 2230 | 1.0 | 30 | | | 2251 | 3.2 | 97 | | | 2338 | 4.3 | 132 | | | 2321 | 5.8 | 176 | | | | 2050 | 9.4 | 285 | | | 2015 | 9.3 | 283 | |
| 6 W | 0532 | 10.9 | 332 | | 21 Th | 0542 | 10.2 | 310 | | 6 Sa | 0551 | 10.7 | 326 | | 21 Su | 0514 | 10.1 | 308 | | 6 Tu | 0052 | 8.1 | 246 | | 21 W | 0005 | 8.5 | 258 | | |
| | 1104 | 6.2 | 189 | | | 1143 | 5.3 | 161 | | | 1229 | 3.2 | 97 | | | 1224 | 3.8 | 115 | | | | 0612 | 10.3 | 314 | | | 0458 | 10.3 | 313 | |
| | 1614 | 10.1 | 309 | | | 1713 | 8.7 | 265 | | | 1906 | 9.1 | 276 | | | 1906 | 8.4 | 256 | | | | 1409 | 2.6 | 80 | | | 1321 | 3.6 | 110 | |
| | 2314 | 2.1 | 64 | | | 2323 | 4.1 | 126 | | | 2353 | 6.6 | 202 | | | 2353 | 6.6 | 202 | | | | 2233 | 9.5 | 290 | | | 2153 | 9.5 | 289 | |
| 7 Th | 0609 | 10.8 | 328 | | 22 F | 0607 | 10.1 | 307 | | 7 Su | 0024 | 5.7 | 173 | | 22 M | 0538 | 10.0 | 304 | | 7 W | 0218 | 8.7 | 266 | | 22 Th | 0115 | 9.0 | 273 | | |
| | 1200 | 5.6 | 170 | | | 1231 | 5.0 | 151 | | | 0629 | 10.5 | 321 | | | 1315 | 3.6 | 111 | | | | 0721 | 9.8 | 299 | | | 0540 | 9.9 | 301 | |
| | 1728 | 9.4 | 287 | | | 1819 | 8.1 | 248 | | | 1333 | 2.8 | 85 | | | 2043 | 8.2 | 251 | | | | 1534 | 2.8 | 85 | | | 1434 | 3.7 | 114 | |
| | | | | | | 2357 | 5.1 | 155 | | | 2051 | 8.7 | 266 | | | 2051 | 8.7 | 266 | | | | 2348 | 9.9 | 302 | | | 2258 | 9.9 | 301 | |
| 8 F | 0001 | 3.4 | 103 | | 23 Sa | 0634 | 10.0 | 304 | | 8 M | 0116 | 6.9 | 211 | | 23 Tu | 0031 | 7.4 | 226 | | 8 Th | 0445 | 8.7 | 264 | | 23 F | 0314 | 9.0 | 273 | | |
| | 0648 | 10.7 | 325 | | | 1323 | 4.6 | 140 | | | 0714 | 10.3 | 315 | | | 0608 | 9.8 | 299 | | | | 0908 | 9.5 | 290 | | | 0739 | 9.5 | 289 | |
| | 1303 | 4.8 | 147 | | | 1944 | 7.8 | 237 | | | 1446 | 2.4 | 73 | | | 1416 | 3.5 | 106 | | | | 1656 | 2.8 | 84 | | | 1554 | 3.7 | 112 | |
| | 1903 | 8.8 | 268 | | | | | | | | 2236 | 8.9 | 272 | | | 2225 | 8.5 | 259 | | | | | | | | | 2338 | 10.3 | 314 | |
| 9 Sa | 0052 | 4.7 | 144 | | 24 Su | 0033 | 6.0 | 182 | | 9 Tu | 0225 | 7.9 | 241 | | 24 W | 0125 | 8.1 | 247 | | 9 F | 0036 | 10.2 | 311 | | 24 Sa | 0503 | 8.3 | 253 | | |
| | 0730 | 10.6 | 323 | | | 0703 | 9.9 | 301 | | | 0812 | 10.1 | 309 | | | 0655 | 9.6 | 294 | | | | 0606 | 7.9 | 242 | | | 0953 | 9.7 | 296 | |
| | 1411 | 3.9 | 120 | | | 1420 | 4.1 | 126 | | | 1604 | 1.9 | 59 | | | 1525 | 3.1 | 96 | | | | 1037 | 9.6 | 294 | | | 1706 | 3.4 | 105 | |
| | 2053 | 8.6 | 261 | | | 2122 | 7.8 | 237 | | | | | | | 2341 | 9.0 | 275 | | | | 1800 | 2.7 | 82 | | | | | | | |
| 10 Su | 0149 | 6.0 | 183 | | 25 M | 0114 | 6.8 | 207 | | 10 W | 0003 | 9.4 | 286 | | 25 Th | 0300 | 8.5 | 260 | | 10 Sa | 0109 | 10.4 | 317 | | 25 Su | 0010 | 10.7 | 326 | | |
| | 0815 | 10.6 | 322 | | | 0740 | 9.8 | 298 | | | 0412 | 8.4 | 256 | | | 0821 | 9.5 | 290 | | | | 0648 | 7.1 | 216 | | | 0556 | 7.3 | 221 | |
| | 1522 | 3.0 | 90 | | | 1521 | 3.6 | 109 | | | 0922 | 10.0 | 306 | | | 1636 | 2.7 | 81 | | | | 1145 | 10.0 | 305 | | | 1111 | 10.4 | 317 | |
| | 2234 | 8.9 | 270 | | | 2250 | 8.1 | 247 | | | 1717 | 1.5 | 45 | | | | | | | | | 1848 | 2.7 | 83 | | | 1805 | 3.2 | 99 | |
| 11 M | 0258 | 7.1 | 217 | | 26 Tu | 0209 | 7.5 | 229 | | 11 Th | 0104 | 9.8 | 300 | | 26 F | 0025 | 9.5 | 291 | | 11 Su | 0136 | 10.5 | 321 | | 26 M | 0039 | 11.1 | 339 | | |
| | 0904 | 10.6 | 323 | | | 0826 | 9.8 | 298 | | | 0554 | 8.2 | 251 | | | 0504 | 8.4 | 256 | | | | 0721 | 6.2 | 188 | | | 0637 | 6.0 | 183 | |
| | 1632 | 2.0 | 60 | | | 1621 | 2.9 | 88 | | | 1031 | 10.1 | 307 | | | 0954 | 9.7 | 296 | | | | 1239 | 10.4 | 317 | | | 1213 | 11.2 | 341 | |
| | 2358 | 9.4 | 286 | | | | | | | | 1817 | 1.1 | 33 | | | 1739 | 2.1 | 64 | | | | 1927 | 2.9 | 89 | | | 1854 | 3.2 | 98 | |
| 12 Tu | 0423 | 7.8 | 239 | | 27 W | 0001 | 8.7 | 264 | | 12 F | 0148 | 10.2 | 310 | | 27 Sa | 0058 | 10.0 | 305 | | 12 M | 0158 | 10.7 | 325 | | 27 Tu | 0107 | 11.5 | 350 | | |
| | 0955 | 10.7 | 325 | | | 0329 | 8.1 | 246 | | | 0654 | 7.7 | 235 | | | 0613 | 7.8 | 237 | | | | 0751 | 5.3 | 161 | | | 0715 | 4.7 | 142 | |
| | 1735 | 1.0 | 32 | | | 0920 | 9.8 | 300 | | | 1133 | 10.2 | 311 | | | 1105 | 10.2 | 310 | | | | 1326 | 10.7 | 327 | | | 1308 | 11.9 | 362 | |
| | | | | | | 1717 | 2.1 | | | | | | | | | | | | | | | | | | | | | | | |

Mui Vung Tau, Vietnam, 2011

Times and Heights of High and Low Waters

| October | | | | November | | | | December | | | | | | | | | | | | | | | |
|-----------------|--------|------|------|-----------------|------|------|--------|-----------------|------|--------|-----|-----------------|--------|------|-----|-----------------|------|------|-----|-----------------|------|------|-----|
| Time | Height | | Time | Height | | Time | Height | | Time | Height | | Time | Height | | | | | | | | | | |
| | h | m | | ft | cm | | h | m | | ft | cm | | h | m | ft | cm | | | | | | | |
| 1 Sa | 0303 | 12.2 | 372 | 16 Su | 0236 | 11.7 | 358 | 1 Tu | 0327 | 12.1 | 369 | 16 W | 0251 | 12.1 | 368 | 1 Th | 0352 | 11.3 | 344 | 16 F | 0332 | 11.8 | 359 |
| | 0954 | 1.3 | 39 | | 0948 | 2.4 | 73 | | 1104 | 2.1 | 63 | | 1037 | 2.6 | 79 | | 1128 | 3.6 | 111 | | 1105 | 3.2 | 99 |
| | 1642 | 11.8 | 359 | | 1639 | 11.3 | 344 | | 1858 | 11.5 | 349 | | 1813 | 11.6 | 355 | | 1923 | 11.7 | 356 | | 1824 | 12.0 | 366 |
| | 2212 | 6.6 | 202 | | 2155 | 7.8 | 239 | | 2331 | 9.4 | 286 | | 2259 | 9.6 | 292 | | | | | | 2348 | 8.6 | 263 |
| 2 Su | 0333 | 12.0 | 367 | 17 M | 0257 | 11.6 | 355 | 2 W | 0401 | 11.4 | 346 | 17 Th | 0325 | 11.7 | 356 | 2 F | 0031 | 9.1 | 278 | 17 Sa | 0432 | 11.1 | 337 |
| | 1039 | 1.4 | 43 | | 1022 | 2.5 | 77 | | 1155 | 3.1 | 96 | | 1121 | 3.3 | 100 | | 0448 | 10.3 | 315 | | 1152 | 4.3 | 131 |
| | 1747 | 11.2 | 340 | | 1728 | 11.0 | 334 | | 2012 | 11.2 | 342 | | 1912 | 11.5 | 351 | | 1216 | 4.9 | 149 | | 1909 | 11.9 | 363 |
| | 2253 | 7.6 | 233 | | 2227 | 8.5 | 258 | | | | | | | | | | 2013 | 11.5 | 352 | | | | |
| 3 M | 0404 | 11.6 | 355 | 18 Tu | 0319 | 11.5 | 350 | 3 Th | 0046 | 9.6 | 292 | 18 F | 0000 | 9.6 | 293 | 3 Sa | 0158 | 8.6 | 262 | 18 Su | 0055 | 8.0 | 245 |
| | 1128 | 1.9 | 58 | | 1100 | 2.9 | 87 | | 0443 | 10.4 | 318 | | 0411 | 11.0 | 336 | | 0635 | 9.5 | 289 | | 0559 | 10.3 | 314 |
| | 1907 | 10.6 | 323 | | 1830 | 10.7 | 325 | | 1253 | 4.3 | 131 | | 1214 | 4.1 | 125 | | 1309 | 6.1 | 185 | | 1246 | 5.4 | 166 |
| | 2339 | 8.5 | 259 | | 2305 | 9.0 | 275 | | 2118 | 11.2 | 341 | | 2010 | 11.5 | 350 | | 2057 | 11.5 | 351 | | 1954 | 11.9 | 363 |
| 4 Tu | 0436 | 11.1 | 339 | 19 W | 0345 | 11.2 | 342 | 4 F | 0249 | 9.2 | 280 | 19 Sa | 0121 | 9.2 | 281 | 4 Su | 0326 | 7.7 | 236 | 19 M | 0208 | 7.1 | 216 |
| | 1224 | 2.6 | 80 | | 1145 | 3.3 | 101 | | 0629 | 9.5 | 289 | | 0528 | 10.2 | 312 | | 0853 | 9.3 | 282 | | 0805 | 9.9 | 302 |
| | 2041 | 10.3 | 315 | | 1949 | 10.5 | 321 | | 1403 | 5.3 | 162 | | 1317 | 5.0 | 152 | | 1409 | 7.0 | 214 | | 1408 | 6.6 | 201 |
| | | | | | | | | | 2208 | 11.3 | 343 | | 2101 | 11.6 | 354 | | 2134 | 11.6 | 353 | | 2040 | 12.0 | 366 |
| 5 W | 0044 | 9.2 | 279 | 20 Th | 0000 | 9.4 | 288 | 5 Sa | 0438 | 8.2 | 251 | 20 Su | 0250 | 8.4 | 255 | 5 M | 0428 | 6.8 | 206 | 20 Tu | 0322 | 5.9 | 179 |
| | 0514 | 10.4 | 317 | | 0417 | 10.8 | 329 | | 0916 | 9.3 | 283 | | 0803 | 9.8 | 298 | | 1026 | 9.6 | 292 | | 0957 | 10.2 | 311 |
| | 1332 | 3.4 | 104 | | 1242 | 3.9 | 118 | | 1523 | 6.1 | 186 | | 1428 | 5.8 | 177 | | 1517 | 7.8 | 237 | | 1458 | 7.6 | 231 |
| | 2207 | 10.4 | 318 | | 2108 | 10.6 | 324 | | 2245 | 11.4 | 347 | | 2144 | 11.8 | 360 | | 2207 | 11.7 | 356 | | 2125 | 12.2 | 373 |
| 6 Th | 0244 | 9.3 | 282 | 21 F | 0126 | 9.5 | 290 | 6 Su | 0522 | 7.1 | 217 | 21 M | 0404 | 7.1 | 215 | 6 Tu | 0512 | 5.7 | 175 | 21 W | 0428 | 4.5 | 138 |
| | 0634 | 9.6 | 293 | | 0509 | 10.2 | 310 | | 1046 | 9.7 | 297 | | 1001 | 10.2 | 311 | | 1133 | 10.1 | 308 | | 1121 | 10.8 | 330 |
| | 1454 | 4.1 | 125 | | 1351 | 4.4 | 134 | | 1637 | 6.6 | 201 | | 1544 | 6.5 | 198 | | 1626 | 8.2 | 251 | | 1615 | 8.4 | 255 |
| | 2307 | 10.6 | 324 | | 2204 | 10.9 | 331 | | 2314 | 11.5 | 351 | | 2222 | 12.1 | 370 | | 2237 | 11.8 | 361 | | 2210 | 12.5 | 381 |
| 7 F | 0509 | 8.5 | 260 | 22 Sa | 0320 | 9.0 | 274 | 7 M | 0555 | 6.0 | 184 | 22 Tu | 0501 | 5.5 | 169 | 7 W | 0549 | 4.8 | 145 | 22 Th | 0526 | 3.2 | 97 |
| | 0914 | 9.3 | 283 | | 0745 | 9.6 | 292 | | 1148 | 10.3 | 315 | | 1119 | 11.0 | 335 | | 1225 | 10.7 | 325 | | 1229 | 11.5 | 351 |
| | 1621 | 4.5 | 137 | | 1511 | 4.8 | 147 | | 1734 | 6.9 | 211 | | 1655 | 7.0 | 214 | | 1727 | 8.5 | 260 | | 1729 | 8.8 | 269 |
| | 2346 | 10.8 | 330 | | 2244 | 11.2 | 341 | | 2339 | 11.7 | 357 | | 2258 | 12.5 | 381 | | 2306 | 12.0 | 367 | | 2254 | 12.8 | 389 |
| 8 Sa | 0555 | 7.5 | 229 | 23 Su | 0441 | 7.9 | 240 | 8 Tu | 0625 | 5.0 | 153 | 23 W | 0549 | 4.0 | 121 | 8 Th | 0622 | 3.9 | 118 | 23 F | 0618 | 2.0 | 61 |
| | 1048 | 9.6 | 294 | | 1000 | 10.0 | 304 | | 1237 | 10.9 | 333 | | 1223 | 11.8 | 359 | | 1309 | 11.2 | 341 | | 1328 | 12.1 | 368 |
| | 1729 | 4.7 | 144 | | 1628 | 5.1 | 154 | | 1818 | 7.2 | 218 | | 1757 | 7.4 | 227 | | 1817 | 8.7 | 265 | | 1832 | 9.1 | 276 |
| | | | | | 2317 | 11.5 | 352 | | | | | | 2333 | 12.9 | 392 | | 2334 | 12.2 | 372 | | 2337 | 13.0 | 396 |
| 9 Su | 0015 | 11.0 | 335 | 24 M | 0531 | 6.5 | 198 | 9 W | 0002 | 11.9 | 363 | 24 Th | 0634 | 2.6 | 78 | 9 F | 0655 | 3.1 | 93 | 24 Sa | 0705 | 1.1 | 35 |
| | 0627 | 6.5 | 198 | | 1117 | 10.8 | 329 | | 0654 | 4.1 | 124 | | 1319 | 12.4 | 378 | | 1349 | 11.6 | 355 | | 1421 | 12.4 | 379 |
| | 1152 | 10.2 | 311 | | 1733 | 5.2 | 159 | | 1318 | 11.4 | 348 | | 1849 | 7.8 | 238 | | 1859 | 8.8 | 269 | | 1924 | 9.1 | 277 |
| | 1819 | 4.9 | 150 | | 2348 | 11.9 | 364 | | 1856 | 7.3 | 224 | | | | | | | | | | | | |
| 10 M | 0039 | 11.1 | 339 | 25 Tu | 0613 | 5.0 | 152 | 10 Th | 0024 | 12.1 | 369 | 25 F | 0009 | 13.2 | 402 | 10 Sa | 0003 | 12.4 | 377 | 25 Su | 0020 | 13.2 | 401 |
| | 0656 | 5.5 | 167 | | 1218 | 11.6 | 355 | | 0723 | 3.3 | 100 | | 0717 | 1.4 | 43 | | 0727 | 2.4 | 72 | | 0749 | 0.7 | 20 |
| | 1243 | 10.8 | 328 | | 1827 | 5.4 | 166 | | 1357 | 11.8 | 359 | | 1412 | 12.8 | 390 | | 1427 | 12.0 | 366 | | 1508 | 12.6 | 385 |
| | 1858 | 5.2 | 157 | | | | | | 1930 | 7.6 | 231 | | 1936 | 8.2 | 249 | | 1937 | 8.9 | 272 | | 2010 | 9.0 | 274 |
| 11 Tu | 0059 | 11.3 | 344 | 26 W | 0018 | 12.3 | 376 | 11 F | 0047 | 12.3 | 374 | 26 Sa | 0044 | 13.4 | 408 | 11 Su | 0031 | 12.5 | 382 | 26 M | 0102 | 13.1 | 400 |
| | 0724 | 4.5 | 138 | | 0654 | 3.5 | 106 | | 0752 | 2.6 | 80 | | 0759 | 0.7 | 21 | | 0759 | 1.9 | 57 | | 0831 | 0.7 | 20 |
| | 1326 | 11.2 | 341 | | 1313 | 12.4 | 377 | | 1434 | 12.0 | 367 | | 1504 | 13.0 | 395 | | 1504 | 12.2 | 373 | | 1552 | 12.6 | 384 |
| | 1931 | 5.4 | 165 | | 1913 | 5.8 | 177 | | 2001 | 7.9 | 240 | | 2019 | 8.5 | 259 | | 2012 | 9.0 | 275 | | 2052 | 8.9 | 270 |
| 12 W | 0119 | 11.5 | 350 | 27 Th | 0049 | 12.7 | 387 | 12 Sa | 0109 | 12.4 | 378 | 27 Su | 0119 | 13.4 | 409 | 12 M | 0101 | 12.6 | 385 | 27 Tu | 0144 | 12.9 | 393 |
| | 0752 | 3.7 | 114 | | 0734 | 2.2 | 67 | | 0821 | 2.2 | 66 | | 0840 | 0.5 | 14 | | 0832 | 1.6 | 48 | | 0910 | 1.0 | 32 |
| | 1404 | 11.5 | 351 | | 1405 | 12.8 | 390 | | 1511 | 12.2 | 371 | | 1555 | 12.9 | 392 | | 1542 | 12.4 | 377 | | 1632 | 12.5 | 380 |
| | 2001 | 5.7 | 175 | | 1955 | 6.3 | 192 | | 2032 | 8.2 | 250 | | 2100 | 8.8 | 269 | | 2047 | 9.1 | 278 | | 2134 | 8.7 | 264 |
| 13 Th | 0138 | 11.6 | 355 | 28 F | 0120 | 13.0 | 395 | 13 Su | 0132 | 12.4 | 379 | 28 M | 0155 | 13.2 | 403 | 13 Tu | 0133 | 12.7 | 386 | 28 W | 0228 | 12.5 | 380 |
| | 0820 | 3.1 | 95 | | 0814 | 1.2 | 38 | | 0852 | 1.9 | 59 | | 0921 | 0.7 | 22 | | 0907 | 1.6 | 48 | | 0949 | 1.8 | 56 |
| | 1441 | 11.7 | 356 | | 1457 | 12.9 | 394 | | 1550 | 12.1 | 370 | | 1646 | 12.6 | 384 | | 1621 | 12.4 | 377 | | 1710 | 12.2 | 372 |
| | 2030 | 6.1 | 187 | | 2035 | 6.9 | 211 | | 2104 | 8.6 | 262 | | 2143 | 9.1 | 277 | | 2124 | 9.2 | 280 | | 2217 | 8.4 | 257 |
| 14 F | 0157 | 11.7 | 358 | 29 Sa | 0151 | 13.1 | 398 | 14 M | 0156 | 12.4 | 379 | 29 Tu | 0232 | 12.8 | 390 | 14 W | 0207 | 12.6 | 383 | 29 Th | 0313 | 11.8 | 361 |
| | 0848 | 2.7 | 81 | | 0854 | 0.8 | 23 | | 0924 | 1.9 | 58 | | 1002 | 1.4 | 43 | | 0943 | 1.8 | 56 | | 1026 | 2.9 | 87 |
| | 1518 | 11.7 | 356 | | 1550 | 12.8 | 389 | | 1633 | 12.0 | 367 | | 1738 | 12.3 | 374 | | 1700 | 12.3 | 374 | | 1746 | 12.0 | 365 |
| | 2058 | 6.6 | 202 | | 2114 | 7.6 | 232 | | 2136 | 9.0 | 274 | | 2229 | 9.3 | 282 | | 2204 | 9.2 | 279 | | 2304 | 8.2 | 249 |
| 15 Sa | 0216 | 11.8 | 359 | 30 Su | 0223 | 13.0 | 396 | 15 Tu | 0222 | 12.3 | 376 | 30 W | 0310 | 12.1 | 370 | 15 Th | 0246 | 12.3 | 374 | 30 F | 0402 | 11.1 | 338 |
| | 0917 | 2.4 | 74 | | 0935 | 0.8 | 23 | | 0958 | 2.1 | 65 | | 1044 | 2.4 | 74 | | 1022 | 2.4 | 74 | | 1103 | 4.0 | 123 |
| | 1557 | 11.5 | 352 | | 1647 | 12.4 | 377 | | 1720 | 11.8 | 361 | | 1831 | 11.9 | 364 | | 1742 | 12.1 | 370 | | 1822 | 11.7 | 357 |
| | | | | | | | | | | | | | | | | | | | | | | | |

Bangkok Bar, Thailand, 2011

Times and Heights of High and Low Waters

| January | | | | February | | | | March | | | | | | | | | | | | | | | | |
|-----------------|------------------------------|----------------------------|--------------------------|-----------------|------------------------------|-----------------------------|--------------------------|-----------------|------------------------------|----------------------------|--------------------------|-----------------|------------------------------|-----------------------------|--------------------------|-----------------|------------------------------|-----------------------------|--------------------------|-----------------|------------------------------|------------------------------|---------------------------|--------------------------|
| Time | | Height | | Time | | Height | | Time | | Height | | Time | | Height | | | | | | | | | | |
| | h m | ft | cm | | h m | ft | cm | | h m | ft | cm | | h m | ft | cm | | | | | | | | | |
| 1 Sa | 0538 2103 | 10.8 3.6 | 330 110 | 16 Su | 0815 2014 | 11.0 4.6 | 334 140 | 1 Tu | 0628 2239 | 12.0 3.5 | 367 108 | 16 W | 0606 2152 | 11.9 3.7 | 364 114 | 1 Tu | 0523 2111 | 11.5 4.9 | 350 149 | 16 W | 0435 1958 | 11.3 4.8 | 344 147 | |
| 2 Su | 0607 2200 | 11.7 3.1 | 358 94 | 17 M | 0634 2122 | 11.5 3.9 | 349 118 | 2 W | 0642 1235 1528 2319 | 12.1 9.5 10.0 3.3 | 370 290 305 100 | 17 Th | 0615 1207 1452 2246 | 12.2 9.8 10.2 3.2 | 373 298 310 99 | 2 W | 0530 1148 1436 2210 | 11.6 9.1 9.4 4.7 | 354 276 287 142 | 17 Th | 0443 1109 1336 2115 | 11.6 9.2 9.4 4.6 | 355 280 286 141 | |
| 3 M | 0637 2248 | 12.2 2.7 | 373 81 | 18 Tu | 0635 2219 | 12.0 3.2 | 366 97 | 3 Th | 0658 1244 1625 2354 | 12.1 9.1 10.4 3.2 | 370 277 316 99 | 18 F | 0630 1211 1614 2332 | 12.4 9.1 10.7 3.1 | 377 276 326 94 | 3 Th | 0542 1143 1549 2253 | 11.7 8.4 10.0 4.5 | 357 257 320 138 | 18 F | 0456 1102 1530 2217 | 11.8 8.2 10.1 4.5 | 361 250 308 138 | |
| 4 Tu | 0706 1306 1504 2331 | 12.5 9.9 10.1 2.4 | 380 303 308 74 | 19 W | 0656 2307 | 12.4 2.6 | 377 79 | 4 F | 0715 1256 1713 | 12.1 8.6 10.6 | 369 262 322 | 19 Sa | 0644 1233 1716 | 12.4 8.0 11.2 | 378 245 341 | 4 F | 0558 1154 1643 2330 | 11.8 7.7 10.5 4.6 | 359 235 320 140 | 19 Sa | 0510 1123 1638 2310 | 12.0 7.0 11.0 4.7 | 365 213 335 143 | |
| 5 W | 0734 1324 1607 | 12.5 9.8 10.2 | 380 298 312 | 20 Th | 0719 1300 1540 2349 | 12.6 10.1 10.6 2.2 | 383 308 322 68 | 5 Sa | 0024 0731 1315 1756 | 3.4 12.0 8.0 10.6 | 105 367 245 324 | 20 Su | 0015 0700 1304 1815 | 3.3 12.4 6.9 11.5 | 101 378 209 349 | 5 Sa | 0613 1211 1727 | 11.7 7.0 10.9 | 358 213 333 | 20 Su | 0529 1153 1737 2357 | 12.0 5.6 11.7 5.2 | 366 172 357 158 | |
| 6 Th | 0008 0801 1344 1658 | 2.4 12.4 9.5 10.3 | 73 378 281 315 | 21 F | 0742 1315 1647 | 12.7 9.6 10.8 | 386 294 328 | 6 Su | 0052 0742 1337 1838 | 3.9 11.9 7.4 10.6 | 118 364 225 323 | 21 M | 0055 0716 1338 1914 | 4.0 12.3 5.7 11.5 | 122 376 175 350 | 6 Su | 0003 0621 1233 1807 | 4.9 11.7 6.3 11.2 | 149 356 191 341 | 21 M | 0550 1227 1835 | 12.0 4.4 12.1 | 365 134 370 | |
| 7 F | 0041 0825 1400 1744 | 2.6 12.3 9.2 10.3 | 78 374 281 313 | 22 Sa | 0030 0802 1344 1749 | 2.2 12.7 8.9 10.8 | 67 386 270 330 | 7 M | 0117 0749 1403 1919 | 4.5 11.8 6.8 10.5 | 137 361 206 319 | 22 Tu | 0131 0733 1412 2013 | 5.0 12.2 4.8 11.3 | 153 372 146 344 | 7 M | 0033 0630 1257 1846 | 5.4 11.6 5.6 11.3 | 164 353 171 345 | 22 Tu | 0041 0612 1302 1933 | 6.0 11.8 3.4 12.3 | 182 361 105 374 | |
| 8 Sa | 0110 0841 1420 1827 | 2.9 12.1 8.7 10.1 | 88 376 260 307 | 23 Su | 0108 0821 1416 1850 | 2.6 12.6 7.9 10.7 | 78 385 240 327 | 8 Tu | 0139 0759 1428 2000 | 5.2 11.7 6.2 10.3 | 160 358 188 313 | 23 W | 0204 0747 1445 2115 | 6.3 12.0 4.1 10.9 | 192 367 126 333 | 8 Tu | 0100 0644 1320 1925 | 5.9 11.5 5.1 11.4 | 181 351 154 347 | 23 W | 0122 0631 1337 2031 | 7.0 11.7 2.9 12.1 | 213 357 88 368 | |
| 9 Su | 0137 0855 1448 1910 | 3.4 12.0 8.1 9.7 | 105 367 248 297 | 24 M | 0144 0837 1452 1951 | 3.4 12.5 6.8 10.4 | 103 381 208 318 | 9 W | 0158 0808 1452 2044 | 6.1 11.6 5.7 10.0 | 186 353 174 306 | 24 Th | 0233 0802 1521 2227 | 7.6 11.8 3.9 10.5 | 231 361 118 320 | 9 W | 0124 0658 1344 2005 | 6.6 11.4 4.6 11.3 | 201 348 140 345 | 24 Th | 0159 0650 1412 2132 | 8.0 11.5 2.7 11.7 | 245 352 82 357 | |
| 10 M | 0200 0906 1519 1954 | 4.2 11.9 7.5 9.4 | 128 363 230 285 | 25 Tu | 0215 0849 1528 2056 | 4.6 12.3 5.9 10.0 | 139 375 180 306 | 10 Th | 0216 0814 1518 2133 | 7.0 11.5 5.3 9.8 | 213 349 163 298 | 25 F | 0259 0816 1600 | 8.8 11.6 3.9 | 268 354 120 | 10 Th | 0146 0710 1408 2046 | 7.3 11.3 4.3 11.2 | 221 345 130 340 | 25 F | 0231 0712 1447 2238 | 9.0 11.4 2.9 11.3 | 273 346 87 344 | |
| 11 Tu | 0216 0914 1549 2042 | 5.2 11.7 7.0 9.0 | 157 356 213 273 | 26 W | 0245 0901 1605 2215 | 6.0 12.1 5.2 9.6 | 182 368 158 292 | 11 F | 0235 0820 1550 2244 | 7.9 11.4 5.1 9.5 | 241 346 156 289 | 26 Sa | 0012 0313 0822 1651 | 10.1 9.8 11.3 4.3 | 309 299 345 132 | 11 F | 0210 0722 1436 2134 | 7.9 11.3 4.1 10.9 | 242 343 126 332 | 26 Sa | 0305 0731 1527 2358 | 9.7 11.1 3.3 11.0 | 295 338 101 334 | |
| 12 W | 0230 0918 1620 2143 | 6.2 11.5 6.5 8.6 | 188 349 198 262 | 27 Th | 0310 0915 1648 | 7.5 11.8 4.8 | 228 359 145 | 12 Sa | 0242 0827 1632 | 8.8 11.3 5.1 | 268 344 154 | 27 Su | 0751 1802 | 11.1 4.8 | 338 146 | 12 Sa | 0234 0736 1508 2239 | 8.7 11.2 4.2 10.6 | 265 340 127 322 | 27 Su | 0350 0738 1614 | 10.2 10.7 4.0 | 311 327 122 | |
| 13 Th | 0243 0920 1656 | 7.3 11.2 6.0 | 221 342 184 | 28 F | 0008 0318 0922 1745 | 9.3 8.9 11.5 4.6 | 283 272 349 140 | 13 Su | 0827 1739 | 11.2 5.1 | 342 154 | 28 M | 0528 1947 | 11.2 5.0 | 341 152 | 13 Su | 0256 0747 1547 | 9.4 11.1 4.3 | 287 339 132 | 28 M | 0138 1713 | 10.8 4.8 | 330 146 | |
| 14 F | 0919 1745 | 11.1 5.6 | 337 171 | 29 Sa | 0901 1907 | 11.2 4.5 | 341 138 | 14 M | 0804 1915 | 11.2 4.9 | 342 148 | 14 M | 0030 0307 0751 1645 | 10.4 10.1 11.0 4.7 | 317 308 335 142 | 14 M | 0030 0307 0751 1645 | 10.4 10.1 11.0 4.7 | 317 308 335 142 | 29 Tu | 0302 1834 | 10.9 5.5 | 333 167 | |
| 15 Sa | 0912 1855 | 10.9 5.2 | 333 157 | 30 Su | 0643 2036 | 11.3 4.3 | 345 131 | 15 Tu | 0617 2043 | 11.5 4.3 | 351 132 | 15 Tu | 0554 1821 | 10.9 4.9 | 331 149 | 15 Tu | 0554 1821 | 10.9 4.9 | 331 149 | 30 W | 0342 2011 | 11.1 5.8 | 337 178 | |
| | | | | 31 M | 0614 2147 | 11.8 3.9 | 360 119 | | | | | | | | | | | | | | 31 Th | 0405 1045 1501 2125 | 11.2 7.8 9.0 6.0 | 340 237 275 183 |

Time meridian 105° E. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to the chart datum of soundings.

Bangkok Bar, Thailand, 2011

Times and Heights of High and Low Waters

| April | | | | May | | | | June | | | | | | | | | | | | | | | |
|-----------------|--------|------|------|-----------------|------|------|--------|-----------------|------|--------|-----|-----------------|--------|------|-----|-----------------|------|------|------|-----------------|------|------|------|
| Time | Height | | Time | Height | | Time | Height | | Time | Height | | Time | Height | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | |
| 1 F | 0426 | 11.2 | 342 | 16 Sa | 0322 | 11.4 | 348 | 1 Su | 0314 | 10.4 | 318 | 16 M | 0244 | 10.5 | 320 | 1 W | 0259 | 9.2 | 281 | 16 Th | 0039 | 9.0 | 274 |
| | 1053 | 6.9 | 210 | | 1012 | 6.1 | 185 | | 1029 | 4.5 | 138 | | 1012 | 2.9 | 89 | | 1056 | 2.6 | 79 | | 0313 | 9.3 | 284 |
| | 1615 | 9.8 | 300 | | 1553 | 10.2 | 310 | | 1721 | 10.6 | 324 | | 1729 | 11.4 | 346 | | 1840 | 11.6 | 354 | | 1130 | 1.2 | 38 |
| | 2222 | 6.1 | 186 | | 2151 | 6.2 | 188 | | 2253 | 7.7 | 235 | | 2251 | 8.2 | 250 | | 1917 | 11.8 | 361 | | 1931 | 12.1 | 370 |
| 2 Sa | 0441 | 11.2 | 342 | 17 Su | 0352 | 11.4 | 348 | 2 M | 0342 | 10.3 | 314 | 17 Tu | 0321 | 10.3 | 315 | 2 Th | 0033 | 8.6 | 263 | 17 F | 0129 | 8.9 | 271 |
| | 1110 | 6.0 | 182 | | 1044 | 4.6 | 141 | | 1056 | 3.8 | 115 | | 1054 | 2.0 | 60 | | 0331 | 9.3 | 283 | | 0407 | 9.3 | 283 |
| | 1704 | 10.6 | 323 | | 1700 | 11.3 | 343 | | 1757 | 11.4 | 346 | | 1822 | 12.1 | 369 | | 1130 | 2.2 | 67 | | 1215 | 1.1 | 34 |
| | 2307 | 6.3 | 191 | | 2253 | 6.6 | 201 | | 2339 | 7.8 | 239 | | 2354 | 8.5 | 260 | | 1917 | 11.8 | 361 | | 2015 | 12.2 | 371 |
| 3 Su | 0453 | 11.2 | 341 | 18 M | 0421 | 11.4 | 346 | 3 Tu | 0408 | 10.2 | 310 | 18 W | 0356 | 10.2 | 312 | 3 F | 0111 | 8.8 | 267 | 18 Sa | 0213 | 8.8 | 267 |
| | 1131 | 5.2 | 157 | | 1119 | 3.3 | 102 | | 1122 | 3.1 | 96 | | 1136 | 1.4 | 42 | | 0406 | 9.4 | 287 | | 0459 | 9.3 | 283 |
| | 1745 | 11.2 | 342 | | 1759 | 12.1 | 368 | | 1830 | 11.8 | 360 | | 1915 | 12.5 | 380 | | 1205 | 1.9 | 58 | | 1255 | 1.2 | 38 |
| | 2345 | 6.5 | 199 | | 2346 | 7.1 | 217 | | ● | ● | ● | | 1958 | 11.9 | 364 | | 1958 | 11.9 | 364 | | 2053 | 12.0 | 367 |
| 4 M | 0509 | 11.1 | 338 | 19 Tu | 0449 | 11.3 | 343 | 4 W | 0017 | 8.1 | 246 | 19 Th | 0050 | 8.8 | 269 | 4 Sa | 0146 | 8.9 | 270 | 19 Su | 0251 | 8.5 | 260 |
| | 1156 | 4.5 | 136 | | 1157 | 2.4 | 72 | | 0430 | 10.1 | 308 | | 0430 | 10.1 | 308 | | 0445 | 9.5 | 290 | | 0548 | 9.2 | 280 |
| | 1820 | 11.6 | 355 | | 1855 | 12.5 | 382 | | 1149 | 2.7 | 83 | | 1219 | 1.1 | 35 | | 1241 | 1.7 | 53 | | 1330 | 1.6 | 48 |
| | ● | ● | ● | | ● | ● | ● | | 1906 | 12.0 | 367 | | 2008 | 12.5 | 381 | | 2038 | 12.0 | 365 | | 2123 | 11.8 | 360 |
| 5 Tu | 0019 | 6.9 | 211 | 20 W | 0036 | 7.8 | 238 | 5 Th | 0052 | 8.3 | 254 | 20 F | 0146 | 9.1 | 277 | 5 Su | 0222 | 8.9 | 271 | 20 M | 0322 | 8.2 | 250 |
| | 0528 | 11.0 | 335 | | 0515 | 11.1 | 338 | | 0451 | 10.1 | 308 | | 0504 | 10.0 | 305 | | 0526 | 9.5 | 291 | | 0638 | 9.0 | 275 |
| | 1219 | 3.9 | 118 | | 1234 | 1.8 | 55 | | 1216 | 2.4 | 74 | | 1300 | 1.2 | 37 | | 1317 | 1.7 | 51 | | 1402 | 2.1 | 63 |
| | 1856 | 11.9 | 363 | | 1951 | 12.6 | 385 | | 1945 | 12.1 | 370 | | 2100 | 12.3 | 376 | | 2115 | 12.0 | 366 | | 2144 | 11.6 | 353 |
| 6 W | 0050 | 7.4 | 225 | 21 Th | 0123 | 8.5 | 260 | 6 F | 0124 | 8.6 | 263 | 21 Sa | 0242 | 9.2 | 281 | 6 M | 0300 | 8.7 | 266 | 21 Tu | 0345 | 7.7 | 235 |
| | 0545 | 10.9 | 333 | | 0540 | 10.9 | 333 | | 0515 | 10.2 | 310 | | 0544 | 9.8 | 300 | | 0611 | 9.4 | 288 | | 0728 | 8.7 | 265 |
| | 1243 | 3.4 | 105 | | 1312 | 1.7 | 51 | | 1247 | 2.2 | 68 | | 1338 | 1.5 | 47 | | 1354 | 1.9 | 57 | | 1431 | 2.8 | 86 |
| | 1932 | 12.0 | 367 | | 2048 | 12.4 | 379 | | 2027 | 12.1 | 369 | | 2146 | 12.1 | 368 | | 2149 | 12.0 | 365 | | 2200 | 11.4 | 347 |
| 7 Th | 0117 | 7.8 | 238 | 22 F | 0207 | 9.1 | 278 | 7 Sa | 0158 | 8.9 | 270 | 22 Su | 0335 | 9.1 | 278 | 7 Tu | 0340 | 8.4 | 255 | 22 W | 0412 | 7.1 | 217 |
| | 0601 | 10.9 | 331 | | 0606 | 10.8 | 328 | | 0545 | 10.2 | 310 | | 0626 | 9.6 | 293 | | 0701 | 9.2 | 281 | | 0818 | 8.3 | 253 |
| | 1308 | 3.1 | 96 | | 1349 | 1.8 | 56 | | 1320 | 2.2 | 67 | | 1415 | 2.0 | 62 | | 1430 | 2.3 | 70 | | 1459 | 3.7 | 114 |
| | 2013 | 12.0 | 366 | | 2145 | 12.1 | 369 | | 2112 | 12.0 | 367 | | 2221 | 11.8 | 360 | | 2217 | 11.8 | 361 | | 2215 | 11.1 | 339 |
| 8 F | 0144 | 8.3 | 252 | 23 Sa | 0250 | 9.5 | 291 | 8 Su | 0236 | 9.1 | 277 | 23 M | 0424 | 8.9 | 270 | 8 W | 0423 | 7.8 | 238 | 23 Th | 0445 | 6.5 | 199 |
| | 0620 | 10.8 | 330 | | 0636 | 10.5 | 321 | | 0615 | 10.1 | 308 | | 0711 | 9.3 | 282 | | 0800 | 8.9 | 270 | | 0915 | 7.8 | 239 |
| | 1337 | 3.0 | 92 | | 1426 | 2.3 | 69 | | 1356 | 2.3 | 70 | | 1449 | 2.7 | 82 | | 1505 | 3.1 | 94 | | 1519 | 4.9 | 148 |
| | 2056 | 11.9 | 362 | | 2239 | 11.8 | 359 | | 2158 | 11.9 | 364 | | 2246 | 11.5 | 352 | | 2241 | 11.6 | 354 | | ● | 2229 | 10.8 | 328 |
| 9 Sa | 0213 | 8.8 | 267 | 24 Su | 0338 | 9.7 | 297 | 9 M | 0324 | 9.2 | 281 | 24 Tu | 0513 | 8.4 | 256 | 9 Th | 0510 | 7.1 | 215 | 24 F | 0525 | 6.0 | 182 |
| | 0642 | 10.8 | 328 | | 0705 | 10.2 | 311 | | 0645 | 9.9 | 302 | | 0800 | 8.7 | 266 | | 0913 | 8.4 | 256 | | 1033 | 7.4 | 227 |
| | 1409 | 3.1 | 94 | | 1505 | 2.9 | 88 | | 1432 | 2.6 | 80 | | 1523 | 3.6 | 109 | | 1544 | 4.2 | 128 | | 1532 | 6.1 | 185 |
| | 2145 | 11.6 | 355 | | 2327 | 11.5 | 349 | | 2242 | 11.8 | 360 | | 2311 | 11.3 | 344 | | ● | 2302 | 11.3 | | 345 | 2237 | 10.3 | 315 |
| 10 Su | 0245 | 9.3 | 282 | 25 M | 1546 | 3.7 | 113 | 10 Tu | 0425 | 9.2 | 280 | 25 W | 0606 | 7.8 | 238 | 10 F | 0602 | 6.1 | 187 | 25 Sa | 0609 | 5.4 | 166 |
| | 0702 | 10.7 | 325 | | 0723 | 9.6 | 292 | | 0723 | 9.6 | 292 | | 0858 | 8.1 | 246 | | 1052 | 8.0 | 244 | | 1249 | 7.4 | 227 |
| | 1444 | 3.3 | 100 | | 1510 | 3.1 | 96 | | 1510 | 3.1 | 96 | | 1555 | 4.7 | 142 | | 1630 | 5.6 | 172 | | 1541 | 7.3 | 221 |
| | 2246 | 11.4 | 347 | | 2324 | 11.6 | 355 | | ● | ● | ● | | 2337 | 11.0 | 335 | | 2328 | 10.9 | 333 | | 2245 | 9.9 | 303 |
| 11 M | 0326 | 9.7 | 297 | 26 Tu | 0010 | 11.2 | 342 | 11 W | 0544 | 8.8 | 268 | 26 Th | 0702 | 7.1 | 216 | 11 Sa | 0700 | 5.1 | 156 | 26 Su | 0701 | 4.9 | 149 |
| | 0720 | 10.5 | 320 | | 1632 | 4.7 | 142 | | 0816 | 9.1 | 276 | | 1028 | 7.5 | 228 | | 1314 | 8.2 | 249 | | 2256 | 9.5 | 291 |
| | 1522 | 3.6 | 111 | | ● | ● | ● | | 1556 | 4.0 | 121 | | 1625 | 5.9 | 179 | | 1740 | 7.2 | 219 | | ● | ● | ● |
| | 2357 | 11.2 | 342 | | ● | ● | ● | | ● | ● | ● | | ● | ● | ● | | ● | ● | ● | | ● | ● | ● |
| 12 Tu | 0500 | 10.0 | 306 | 27 W | 0051 | 11.0 | 335 | 12 Th | 0004 | 11.5 | 349 | 27 F | 0004 | 10.6 | 323 | 12 Su | 0000 | 10.5 | 319 | 27 M | 0800 | 4.3 | 131 |
| | 0730 | 10.2 | 311 | | 1728 | 5.7 | 174 | | 0702 | 8.0 | 243 | | 0754 | 6.3 | 192 | | 0758 | 4.1 | 124 | | 1737 | 9.5 | 289 |
| | 1614 | 4.2 | 128 | | 0955 | 8.3 | 254 | | 0955 | 8.3 | 254 | | 1320 | 7.4 | 227 | | 1548 | 9.1 | 278 | | ● | ● | ● |
| | ● | ● | ● | | 1657 | 5.1 | 155 | | 1657 | 5.1 | 155 | | 1706 | 7.1 | 217 | | 1934 | 8.5 | 258 | | ● | ● | ● |
| 13 W | 0106 | 11.2 | 341 | 28 Th | 0132 | 10.8 | 330 | 13 F | 0043 | 11.2 | 341 | 28 Sa | 0032 | 10.2 | 311 | 13 M | 0039 | 10.0 | 304 | 28 Tu | 0858 | 3.6 | 111 |
| | 1733 | 4.9 | 149 | | 0936 | 7.3 | 224 | | 0800 | 6.9 | 209 | | 0836 | 5.4 | 166 | | 0854 | 3.1 | 94 | | 1745 | 10.4 | 316 |
| | ● | ● | ● | | 1321 | 7.9 | 240 | | 1246 | 8.1 | 248 | | 1607 | 8.4 | 257 | | 1707 | 10.4 | 317 | | ● | ● | ● |
| | ● | ● | ● | | 1847 | 6.7 | 203 | | 1824 | 6.2 | 190 | | 1851 | 8.2 | 251 | | 2148 | 9.0 | 275 | | ● | ● | ● |
| 14 Th | 0204 | 11.3 | 344 | 29 F | 0210 | 10.7 | 326 | 14 Sa | 0123 | 11.0 | 334 | 29 Su | 0105 | 9.8 | 299 | 14 Tu | 0124 | 9.6 | 293 | 29 W | 0949 | 3.0 | 92 |
| | 1910 | 5.4 | 166 | | 0945 | 6.4 | 196 | | 0847 | 5.5 | 168 | | 0913 | 4.6 | 140 | | 0948 | 2.3 | 69 | | 1815 | 11.0 | 336 |
| | ● | ● | ● | | 1539 | 8.7 | 264 | | 1455 | 9.0 | 274 | | 1655 | 9.5 | 291 | | 1800 | 11.4 | 346 | | ● | ● | ● |
| | ● | ● | ● | | 2034 | 7.3 | 222 | | 2004 | 7.2 | 219 | | 2142 | 8.6 | 263 | | 2333 | 9.1 | 277 | | ● | ● | ● |
| 15 F | 0248 | 11.4 | 346 | 30 Sa | 0243 | 10.6 | 322 | 15 Su | 0204 | 10.7 | 327 | 30 M | 0144 | 9.5 | 290 | 15 W | 0217 | 9.4 | 286 | 30 Th | 1038 | 2.5 | 75 |
| | 0945 | 7.4 | 227 | | 1004 | 5.4 | 166 | | 0930 | 4.2 | 127 | | 0947 | 3.8 | 116 | | 1040 | 1.6 | 50 | | 1849 | 11.5 | 349 |
| | 1430 | 9.1 | 277 | | 1640 | 9.7 | 296 | | 1626 | 10.2 | 312 | | 1730 | 10.5 | 320 | | 1846 | 11.9 | 363 | | ● | ● | ● |
| | 2037 | 5.8 | 178 | | 2155 | | | | | | | | | | | | | | | | | | |

Bangkok Bar, Thailand, 2011

Times and Heights of High and Low Waters

| October | | | | November | | | | December | | | | | | | | | | | | | | | | | | | | | |
|-----------------|--------|------|------|----------|-----------------|------|--------|----------|------|-----------------|------|------|--------|----|-----------------|------|------|-----|--|-----------------|------|------|-----|--|-----------------|------|------|-----|--|
| Time | Height | | Time | Height | | Time | Height | | Time | Height | | Time | Height | | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | | | | | | |
| 1 Sa | 0123 | 2.2 | 66 | | 16 Su | 0102 | 2.9 | 87 | | 1 Tu | 0213 | 2.0 | 61 | | 16 W | 0138 | 2.7 | 82 | | 1 Th | 0229 | 3.0 | 91 | | 16 F | 0155 | 3.1 | 94 | |
| | 0816 | 11.9 | 362 | | | 0808 | 11.7 | 358 | | | 1022 | 12.0 | 367 | | | 0936 | 12.0 | 367 | | | 1027 | 12.0 | 367 | | | 0940 | 12.2 | 372 | |
| | 1347 | 7.5 | 229 | | | 1341 | 8.0 | 245 | | | 1545 | 9.6 | 294 | | | 1505 | 9.4 | 286 | | | 1657 | 8.9 | 270 | | | 1541 | 8.7 | 264 | |
| | 1837 | 11.1 | 338 | | | 1814 | 10.4 | 318 | | | 1855 | 10.1 | 309 | | | 1824 | 10.0 | 305 | | | 1938 | 9.2 | 280 | | | 1917 | 9.7 | 295 | |
| 2 Su | 0200 | 1.9 | 59 | | 17 M | 0132 | 2.8 | 86 | | 2 W | 0252 | 2.7 | 82 | | 17 Th | 0210 | 3.0 | 92 | | 2 F | 0301 | 4.0 | 121 | | 17 Sa | 0225 | 3.8 | 115 | |
| | 0919 | 11.6 | 354 | | | 0852 | 11.6 | 354 | | | 1114 | 11.7 | 357 | | | 1017 | 11.9 | 363 | | | 1048 | 11.7 | 358 | | | 0957 | 12.1 | 368 | |
| | 1428 | 8.4 | 257 | | | 1412 | 8.5 | 260 | | | 1601 | 9.4 | 285 | | | 1601 | 9.4 | 285 | | | 1748 | 8.2 | 251 | | | 1624 | 8.0 | 243 | |
| | 1901 | 10.9 | 332 | | | 1833 | 10.3 | 314 | | | 1857 | 9.7 | 296 | | | 2038 | 8.5 | 259 | | | 2038 | 8.5 | 259 | | | 2020 | 9.2 | 280 | |
| 3 M | 0239 | 2.1 | 64 | | 18 Tu | 0203 | 3.0 | 90 | | 3 Th | 0334 | 3.5 | 108 | | 18 F | 0243 | 3.6 | 109 | | 3 Sa | 0330 | 5.1 | 156 | | 18 Su | 0256 | 4.8 | 145 | |
| | 1026 | 11.3 | 344 | | | 0944 | 11.4 | 348 | | | 1156 | 11.5 | 349 | | | 1055 | 11.7 | 358 | | | 1111 | 11.5 | 349 | | | 1014 | 11.9 | 363 | |
| | 1511 | 9.2 | 280 | | | 1449 | 9.0 | 275 | | | 1943 | 9.2 | 281 | | | 1712 | 9.0 | 275 | | | 1843 | 7.5 | 228 | | | 1713 | 7.1 | 217 | |
| | 1929 | 10.6 | 323 | | | 1852 | 10.2 | 310 | | | 1943 | 9.2 | 281 | | | 1943 | 9.2 | 281 | | | 2205 | 7.9 | 240 | | | 2144 | 8.7 | 265 | |
| 4 Tu | 0320 | 2.5 | 77 | | 19 W | 0237 | 3.2 | 98 | | 4 F | 0419 | 4.6 | 140 | | 19 Sa | 0318 | 4.4 | 133 | | 4 Su | 0348 | 6.4 | 195 | | 19 M | 0331 | 6.1 | 185 | |
| | 1143 | 11.0 | 335 | | | 1042 | 11.2 | 342 | | | 1233 | 11.2 | 341 | | | 1130 | 11.5 | 352 | | | 1134 | 11.1 | 338 | | | 1036 | 11.6 | 355 | |
| | 1611 | 9.7 | 295 | | | 1540 | 9.4 | 288 | | | 2104 | 8.6 | 261 | | | 1833 | 8.3 | 254 | | | 1933 | 6.7 | 204 | | | 1810 | 6.2 | 188 | |
| | 1951 | 10.2 | 310 | | | 1905 | 10.0 | 304 | | | 2104 | 8.6 | 261 | | | 2104 | 8.6 | 261 | | | 2205 | 7.9 | 240 | | | 1914 | 5.2 | 157 | |
| 5 W | 0408 | 3.2 | 98 | | 20 Th | 0313 | 3.6 | 111 | | 5 Sa | 0512 | 5.8 | 176 | | 20 Su | 0404 | 5.4 | 165 | | 5 M | 1157 | 10.7 | 327 | | 20 Tu | 0001 | 8.5 | 258 | |
| | 1303 | 10.9 | 331 | | | 1145 | 11.1 | 338 | | | 1310 | 11.0 | 335 | | | 1203 | 11.4 | 346 | | | 2017 | 5.9 | 179 | | | 0415 | 7.6 | 232 | |
| | | | | | | | | | | | 2103 | 7.2 | 219 | | | 1931 | 7.3 | 222 | | | | | | | | 1107 | 11.3 | 344 | |
| | | | | | | | | | | | | | | | | 2340 | 8.1 | 248 | | | | | | | | 1914 | 5.2 | 157 | |
| 6 Th | 0506 | 4.0 | 122 | | 21 F | 0357 | 4.2 | 128 | | 6 Su | 0113 | 7.9 | 241 | | 21 M | 0519 | 6.7 | 204 | | 6 Tu | 1225 | 10.4 | 316 | | 21 W | 1144 | 10.9 | 333 | |
| | 1415 | 10.9 | 331 | | | 1246 | 11.0 | 336 | | | 0626 | 6.9 | 209 | | | 1242 | 11.1 | 339 | | | 2055 | 5.1 | 155 | | | 2016 | 4.2 | 127 | |
| | | | | | | | | | | | 1345 | 10.8 | 329 | | | 2018 | 6.0 | 184 | | | | | | | | | | | |
| | | | | | | | | | | | 2122 | 6.2 | 190 | | | | | | | | | | | | | | | | |
| 7 F | 0623 | 4.8 | 146 | | 22 Sa | 0502 | 4.9 | 150 | | 7 M | 0334 | 8.7 | 266 | | 22 Tu | 0229 | 8.9 | 271 | | 7 W | 0503 | 10.0 | 305 | | 22 Th | 0459 | 10.6 | 324 | |
| | 1505 | 10.9 | 333 | | | 1339 | 11.1 | 337 | | | 0815 | 7.6 | 232 | | | 0714 | 7.8 | 238 | | | 0924 | 9.5 | 289 | | | 0842 | 10.0 | 306 | |
| | 2214 | 8.0 | 244 | | | | | | | | 1419 | 10.6 | 324 | | | 1323 | 10.9 | 333 | | | 1307 | 10.1 | 308 | | | 1229 | 10.6 | 322 | |
| | | | | | | | | | | | 2145 | 5.3 | 161 | | | 2100 | 4.7 | 143 | | | 2130 | 4.3 | 131 | | | 2115 | 3.2 | 99 | |
| 8 Sa | 0054 | 8.2 | 250 | | 23 Su | 0637 | 5.6 | 171 | | 8 Tu | 0433 | 9.8 | 299 | | 23 W | 0410 | 10.2 | 311 | | 8 Th | 0527 | 11.0 | 334 | | 23 F | 0545 | 11.7 | 357 | |
| | 0751 | 5.3 | 163 | | | 1422 | 11.1 | 339 | | | 0939 | 7.9 | 241 | | | 0900 | 8.5 | 258 | | | 1047 | 9.4 | 287 | | | 1054 | 10.2 | 310 | |
| | 1536 | 11.0 | 334 | | | 2127 | 7.3 | 221 | | | 1451 | 10.5 | 321 | | | 1405 | 10.8 | 329 | | | 1358 | 9.9 | 303 | | | 1328 | 10.4 | 316 | |
| | 2218 | 7.1 | 217 | | | | | | | | 2212 | 4.4 | 134 | | | 2143 | 3.4 | 105 | | | 2205 | 3.6 | 111 | | | 2209 | 2.5 | 76 | |
| 9 Su | 0254 | 8.7 | 265 | | 24 M | 0212 | 8.6 | 263 | | 9 W | 0514 | 10.8 | 329 | | 24 Th | 0511 | 11.4 | 348 | | 9 F | 0556 | 11.7 | 356 | | 24 Sa | 0628 | 12.4 | 379 | |
| | 0906 | 5.7 | 173 | | | 0809 | 6.1 | 186 | | | 1039 | 8.0 | 244 | | | 1020 | 8.8 | 269 | | | 1135 | 9.3 | 283 | | | 1203 | 10.1 | 307 | |
| | 1600 | 11.0 | 335 | | | 1455 | 11.1 | 339 | | | 1521 | 10.4 | 318 | | | 1446 | 10.7 | 327 | | | 1443 | 9.9 | 302 | | | 1434 | 10.3 | 315 | |
| | 2234 | 6.2 | 189 | | | 2150 | 5.9 | 181 | | | 2239 | 3.7 | 112 | | | 2225 | 2.4 | 73 | | | 2241 | 3.1 | 95 | | | 2300 | 2.0 | 60 | |
| 10 M | 0411 | 9.5 | 290 | | 25 Tu | 0338 | 9.8 | 298 | | 10 Th | 0548 | 11.5 | 352 | | 25 F | 0601 | 12.3 | 375 | | 10 Sa | 0628 | 12.1 | 369 | | 25 Su | 0709 | 12.8 | 389 | |
| | 1004 | 5.9 | 179 | | | 0926 | 6.4 | 196 | | | 1125 | 8.1 | 247 | | | 1124 | 9.1 | 277 | | | 1214 | 9.3 | 283 | | | 1249 | 10.0 | 304 | |
| | 1619 | 11.0 | 335 | | | 1525 | 11.2 | 340 | | | 1550 | 10.4 | 316 | | | 1525 | 10.7 | 326 | | | 1520 | 10.0 | 304 | | | 1534 | 10.4 | 317 | |
| | 2255 | 5.3 | 161 | | | 2221 | 4.6 | 139 | | | 2308 | 3.1 | 95 | | | 2309 | 1.7 | 52 | | | 2315 | 2.8 | 84 | | | 2347 | 1.7 | 53 | |
| 11 Tu | 0500 | 10.3 | 315 | | 26 W | 0443 | 10.9 | 333 | | 11 F | 0621 | 12.0 | 366 | | 26 Sa | 0651 | 12.8 | 390 | | 11 Su | 0702 | 12.3 | 375 | | 26 M | 0749 | 12.9 | 392 | |
| | 1052 | 6.1 | 185 | | | 1029 | 6.8 | 206 | | | 1204 | 8.3 | 252 | | | 1221 | 9.4 | 285 | | | 1248 | 9.4 | 287 | | | 1330 | 9.8 | 299 | |
| | 1635 | 11.0 | 334 | | | 1554 | 11.2 | 340 | | | 1617 | 10.3 | 314 | | | 1602 | 10.7 | 325 | | | 1552 | 10.1 | 308 | | | 1628 | 10.4 | 318 | |
| | 2318 | 4.5 | 136 | | | 2256 | 3.3 | 100 | | | 2336 | 2.8 | 84 | | | 2353 | 1.4 | 42 | | | 2348 | 2.6 | 78 | | | | | | |
| 12 W | 0541 | 11.0 | 335 | | 27 Th | 0539 | 11.9 | 362 | | 12 Sa | 0655 | 12.2 | 373 | | 27 Su | 0743 | 13.0 | 395 | | 12 M | 0738 | 12.4 | 377 | | 27 Tu | 0826 | 12.8 | 389 | |
| | 1132 | 6.3 | 193 | | | 1123 | 7.2 | 220 | | | 1239 | 8.5 | 259 | | | 1315 | 9.6 | 292 | | | 1320 | 9.5 | 290 | | | 1409 | 9.6 | 292 | |
| | 1653 | 10.9 | 331 | | | 1623 | 11.1 | 339 | | | 1640 | 10.3 | 313 | | | 1639 | 10.6 | 323 | | | 1626 | 10.2 | 312 | | | 1718 | 10.3 | 315 | |
| | 2344 | 3.8 | 116 | | | 2333 | 2.3 | 69 | | | | | | | | | | | | | | | | | | | | | |
| 13 Th | 0617 | 11.5 | 349 | | 28 F | 0633 | 12.5 | 380 | | 13 Su | 0004 | 2.6 | 78 | | 28 M | 0036 | 1.4 | 42 | | 13 Tu | 0020 | 2.5 | 75 | | 28 W | 0106 | 2.1 | 65 | |
| | 1208 | 6.7 | 205 | | | 1214 | 7.8 | 237 | | | 0731 | 12.3 | 374 | | | 0834 | 12.9 | 392 | | | 0814 | 12.4 | 377 | | | 0857 | 12.5 | 382 | |
| | 1714 | 10.8 | 328 | | | 1651 | 11.1 | 337 | | | 1312 | 8.8 | 268 | | | 1411 | 9.7 | 296 | | | 1351 | 9.6 | 292 | | | 1443 | 9.2 | 281 | |
| | | | | | | | | | | | 1702 | 10.3 | 314 | | | 1718 | 10.4 | 318 | | | 1702 | 10.3 | 314 | | | 1807 | 10.1 | 308 | |
| 14 F | 0010 | 3.3 | 102 | | 29 Sa | 0013 | 1.6 | 50 | | 14 M | 0 | | | | | | | | | | | | | | | | | | |

Singapore (Tanjong Pagar), Singapore, 2011

Times and Heights of High and Low Waters

| January | | | | February | | | | March | | | | | | | | | |
|-----------------|------------------------------|--|-----------------|------------------------------|--|-----------------|------------------------------|--|-----------------|------------------------------|--|-----------------|------------------------------|---|-----------------|------------------------------|--|
| Time | Height | | Time | Height | | Time | Height | | Time | Height | | Time | Height | | | | |
| | h m | ft cm | | h m | ft cm | | h m | ft cm | | h m | ft cm | | h m | ft cm | | | |
| 1 Sa | 0207 0756 1505 2230 | 5.9 180 9.2 280 2.0 60 8.5 260 | 16 Su | 0124 0720 1445 2222 | 6.2 190 8.2 250 2.6 80 7.5 230 | 1 Tu | 0415 0950 1646 2356 | 5.6 170 9.2 280 1.3 40 8.5 260 | 16 W | 0324 0915 1600 2309 | 5.6 170 8.9 270 1.6 50 8.5 260 | 1 Tu | 0322 0854 1556 2300 | 5.6 170 8.2 250 2.0 60 7.9 240 | 16 W | 0156 0745 1441 2154 | 5.6 170 7.9 240 2.0 60 7.9 240 |
| 2 Su | 0318 0856 1558 2322 | 5.9 180 9.5 290 1.6 50 8.9 270 | 17 M | 0245 0831 1531 2303 | 6.2 190 8.5 260 2.3 70 8.2 250 | 2 W | 0454 1035 1722 | 5.2 160 9.5 290 1.3 40 | 17 Th | 0415 1003 1645 2337 | 4.9 150 9.5 290 1.3 40 8.9 270 | 2 W | 0411 0950 1637 2328 | 4.9 150 8.5 260 1.6 50 8.2 250 | 17 Th | 0307 0900 1537 2224 | 4.9 150 8.5 260 1.6 50 8.2 250 |
| 3 M | 0413 0948 1643 | 5.9 180 9.5 290 1.3 40 | 18 Tu | 0341 0928 1613 2339 | 5.9 180 9.2 280 1.6 50 8.9 270 | 3 Th | 0024 0526 1113 1756 | 8.9 270 4.6 140 9.8 300 1.3 40 | 18 F | 0458 1048 1730 | 4.3 130 10.2 310 1.0 30 | 3 Th | 0443 1031 1709 2348 | 4.3 130 8.9 270 1.6 50 8.2 250 | 18 F | 0356 0950 1626 2246 | 3.9 120 9.5 290 1.3 40 8.9 270 |
| 4 Tu | 0003 0458 1033 1724 | 9.2 280 5.6 170 9.8 300 1.0 30 | 19 W | 0428 1015 1654 | 5.6 170 9.8 300 1.3 40 | 4 F | 0045 0556 1146 1828 | 8.9 270 4.3 130 9.8 300 1.3 40 | 19 Sa | 0000 0541 1131 1815 | 9.2 280 3.6 110 10.8 330 1.0 30 | 4 F | 0509 1105 1739 | 3.6 110 9.2 280 1.6 50 | 19 Sa | 0437 1035 1709 2313 | 3.0 90 10.2 310 1.3 40 9.2 280 |
| 5 W | 0041 0535 1115 1803 | 9.2 280 5.2 160 10.2 310 1.3 40 | 20 Th | 0013 0513 1058 1739 | 9.2 280 5.2 160 10.2 310 1.0 30 | 5 Sa | 0100 0628 1218 1900 | 8.9 270 3.9 120 9.8 300 1.6 50 | 20 Su | 0026 0626 1216 1858 | 9.5 290 3.0 90 10.8 330 1.3 40 | 5 Sa | 0000 0535 1135 1809 | 8.5 260 3.3 100 9.5 290 1.6 50 | 20 Su | 0520 1122 1754 2343 | 2.0 60 10.5 320 1.6 50 9.8 300 |
| 6 Th | 0113 0613 1154 1841 | 9.2 280 5.2 160 10.2 310 1.3 40 | 21 F | 0045 0600 1141 1826 | 9.5 290 4.9 150 10.5 320 1.0 30 | 6 Su | 0113 0701 1250 1930 | 8.9 270 3.6 110 9.8 300 2.0 60 | 21 M | 0056 0711 1305 1939 | 9.8 300 2.3 70 10.8 330 1.6 50 | 6 Su | 0009 0605 1203 1839 | 8.9 270 2.6 80 9.5 290 2.0 60 | 21 M | 0603 1211 1837 | 1.3 40 10.5 320 2.0 60 |
| 7 F | 0139 0648 1230 1916 | 9.2 280 4.9 150 10.2 310 1.6 50 | 22 Sa | 0115 0645 1224 1913 | 9.5 290 4.3 130 10.8 330 1.0 30 | 7 M | 0131 0733 1322 1956 | 9.2 280 3.3 100 9.5 290 2.3 70 | 22 Tu | 0128 0754 1356 2018 | 9.8 300 1.6 50 10.2 310 2.6 80 | 7 M | 0026 0635 1235 1909 | 8.9 270 2.3 70 9.5 290 2.0 60 | 22 Tu | 0015 0646 1303 1918 | 9.8 300 0.7 20 10.2 310 2.3 70 |
| 8 Sa | 0201 0722 1305 1950 | 8.9 270 4.6 140 9.8 300 2.0 60 | 23 Su | 0143 0731 1311 1958 | 9.8 300 3.6 110 10.8 330 1.3 40 | 8 Tu | 0154 0805 1354 2016 | 9.2 280 3.0 90 8.9 270 2.6 80 | 23 W | 0203 0839 1454 2052 | 9.8 300 1.3 40 9.2 280 3.3 100 | 8 Tu | 0046 0705 1307 1933 | 9.2 280 2.3 70 9.2 280 2.6 80 | 23 W | 0050 0731 1403 1958 | 10.2 310 0.3 10 9.8 300 3.3 100 |
| 9 Su | 0224 0756 1341 2020 | 8.9 270 4.3 130 9.5 290 2.3 70 | 24 M | 0215 0816 1400 2037 | 9.8 300 3.3 100 10.2 310 2.0 60 | 9 W | 0216 0835 1428 2031 | 8.9 270 3.0 90 8.5 260 3.3 100 | 24 Th | 0239 0926 1558 2126 | 9.8 300 1.6 50 8.2 250 4.3 130 | 9 W | 0109 0735 1339 1952 | 9.2 280 2.0 60 8.9 270 3.0 90 | 24 Th | 0128 0816 1501 2031 | 9.8 300 0.3 10 8.9 270 3.9 120 |
| 10 M | 0246 0831 1416 2048 | 8.9 270 4.3 130 8.9 270 3.0 90 | 25 Tu | 0248 0903 1454 2116 | 9.8 300 3.0 90 9.5 290 3.0 90 | 10 Th | 0241 0911 1509 2050 | 8.9 270 3.0 90 7.5 230 3.9 120 | 25 F | 0320 1022 1711 2205 | 9.2 280 2.0 60 7.2 220 5.2 160 | 10 Th | 0131 0803 1413 2005 | 9.2 280 2.0 60 8.2 250 3.6 110 | 25 F | 0207 0905 1558 2105 | 9.8 300 1.0 30 7.9 240 4.6 140 |
| 11 Tu | 0313 0911 1456 2113 | 8.9 270 4.3 130 8.2 250 3.3 100 | 26 W | 0324 0952 1600 2154 | 9.5 290 2.6 80 8.5 260 3.9 120 | 11 F | 0311 1000 1607 2115 | 8.5 260 3.3 100 6.9 210 4.6 140 | 26 Sa | 0409 1139 1928 2307 | 8.9 270 2.3 70 6.6 200 5.9 180 | 11 F | 0158 0833 1454 2022 | 9.2 280 2.0 60 7.5 230 3.9 120 | 26 Sa | 0250 1000 1701 2145 | 9.2 280 1.3 40 7.2 220 5.2 160 |
| 12 W | 0345 0958 1545 2139 | 8.5 260 3.9 120 7.5 230 4.3 130 | 27 Th | 0405 1050 1722 2239 | 9.2 280 2.6 80 7.5 230 4.9 150 | 12 Sa | 0350 1113 1756 2158 | 8.2 250 3.3 100 6.2 190 5.6 170 | 27 Su | 0520 1320 2124 | 8.2 250 2.3 70 6.9 210 | 12 Sa | 0228 0918 1552 2050 | 8.9 270 2.3 70 6.9 210 4.6 140 | 27 Su | 0343 1115 1856 2250 | 8.5 260 2.0 60 6.6 200 5.6 170 |
| 13 Th | 0420 1101 1700 2216 | 8.2 250 3.9 120 6.9 210 4.9 150 | 28 F | 0454 1209 1924 2343 | 8.9 270 2.6 80 6.9 210 5.9 180 | 13 Su | 0445 1245 2101 | 7.9 240 3.3 100 6.6 200 | 28 M | 0133 0716 1452 2222 | 6.2 190 7.9 240 2.3 70 7.5 230 | 13 Su | 0305 1026 1728 2139 | 8.5 260 2.6 80 6.2 190 5.2 160 | 28 M | 0456 1252 2039 | 7.9 240 2.3 70 6.9 210 |
| 14 F | 0505 1224 1901 2330 | 8.2 250 3.9 120 6.2 190 5.6 170 | 29 Sa | 0601 1341 2131 | 8.5 260 2.3 70 7.2 220 | 14 M | 0011 0605 1407 2200 | 6.2 190 7.9 240 2.6 80 7.2 220 | 14 M | 0403 1156 1956 2350 | 7.9 240 2.6 80 6.6 200 5.9 180 | 14 M | 0403 1156 1956 2350 | 7.9 240 2.6 80 6.6 200 5.9 180 | 29 Tu | 0113 0656 1420 2139 | 5.6 170 7.2 220 2.3 70 7.2 220 |
| 15 Sa | 0607 1343 2128 | 8.2 250 3.3 100 6.9 210 | 30 Su | 0143 0730 1500 2237 | 6.2 190 8.5 260 2.0 60 7.9 240 | 15 Tu | 0216 0805 1509 2237 | 6.2 190 8.2 250 2.3 70 7.9 240 | 15 Tu | 0530 1328 2113 | 7.5 230 2.6 80 7.2 220 | 15 Tu | 0530 1328 2113 | 7.5 230 2.6 80 7.2 220 | 30 W | 0303 0839 1528 2216 | 4.9 150 7.5 230 2.3 70 7.5 230 |
| | | | 31 M | 0318 0854 1601 2322 | 6.2 190 8.9 270 1.6 50 8.5 260 | | | | | | | 31 Th | 0350 0937 1609 2241 | 4.3 130 8.2 250 2.0 60 7.9 240 | | | |

Time meridian 120° E. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to the chart datum of soundings.

Singapore (Tanjong Pagar), Singapore, 2011

Times and Heights of High and Low Waters

| April | | | | May | | | | June | | | | | | | | | | | | | | | |
|-----------------|------|--------|-----|-----------------|------|--------|-----|-----------------|------|--------|-----|-----------------|------|--------|-----|-----------------|------|-----|------|-----------------|------|-----|-----|
| Time | | Height | | Time | | Height | | Time | | Height | | Time | | Height | | | | | | | | | |
| | h m | ft | cm | | h m | ft | cm | | h m | ft | cm | | h m | ft | cm | | | | | | | | |
| 1 F | 0420 | 3.6 | 110 | 16 Sa | 0330 | 3.0 | 90 | 1 Su | 0415 | 2.3 | 70 | 16 M | 0352 | 1.3 | 40 | 1 W | 0448 | 1.3 | 40 | 16 Th | 0511 | 0.0 | 0 |
| | 1018 | 8.5 | 260 | | 0935 | 9.2 | 280 | | 1037 | 8.2 | 250 | | 1024 | 8.9 | 270 | | 1146 | 8.2 | 250 | | 1224 | 8.5 | 260 |
| | 1643 | 2.0 | 60 | | 1558 | 2.0 | 60 | | 1637 | 3.0 | 90 | | 1613 | 3.3 | 100 | | 1701 | 3.9 | 120 | | 1728 | 4.3 | 130 |
| | 2256 | 8.2 | 250 | | 2200 | 8.9 | 270 | | 2218 | 8.5 | 260 | | 2158 | 9.5 | 290 | | 2241 | 8.9 | 270 | | 2307 | 9.8 | 300 |
| 2 Sa | 0445 | 3.0 | 90 | 17 Su | 0413 | 2.0 | 60 | 2 M | 0445 | 2.0 | 60 | 17 Tu | 0437 | 0.3 | 10 | 2 Th | 0520 | 1.0 | 30 | 17 F | 0600 | 0.0 | 0 |
| | 1052 | 8.9 | 270 | | 1026 | 9.5 | 290 | | 1115 | 8.5 | 260 | | 1122 | 9.2 | 280 | | 1226 | 8.2 | 250 | | 1309 | 8.5 | 260 |
| | 1713 | 2.0 | 60 | | 1645 | 2.0 | 60 | | 1709 | 3.0 | 90 | | 1700 | 3.6 | 110 | | 1735 | 4.3 | 130 | | 1813 | 4.3 | 130 |
| | 2307 | 8.5 | 260 | | 2231 | 9.5 | 290 | | 2243 | 8.9 | 270 | | 2239 | 9.8 | 300 | | 2313 | 9.2 | 280 | | 2352 | 9.8 | 300 |
| 3 Su | 0511 | 2.3 | 70 | 18 M | 0456 | 1.0 | 30 | 3 Tu | 0515 | 1.3 | 40 | 18 W | 0524 | 0.0 | 0 | 3 F | 0556 | 0.7 | 20 | 18 Sa | 0646 | 0.0 | 0 |
| | 1122 | 8.9 | 270 | | 1116 | 9.8 | 300 | | 1152 | 8.5 | 260 | | 1220 | 9.2 | 280 | | 1305 | 8.2 | 250 | | 1350 | 8.5 | 260 |
| | 1743 | 2.3 | 70 | | 1728 | 2.3 | 70 | | 1739 | 3.3 | 100 | | 1746 | 3.9 | 120 | | 1813 | 4.3 | 130 | | 1854 | 4.3 | 130 |
| | 2322 | 8.9 | 270 | | 2305 | 9.8 | 300 | | 2309 | 9.2 | 280 | | 2320 | 10.2 | 310 | | 2348 | 9.5 | 290 | | 2348 | 9.5 | 290 |
| 4 M | 0541 | 2.0 | 60 | 19 Tu | 0541 | 0.3 | 10 | 4 W | 0545 | 1.0 | 30 | 19 Th | 0611 | -0.3 | -10 | 4 Sa | 0635 | 0.7 | 20 | 19 Su | 0035 | 9.5 | 290 |
| | 1154 | 9.2 | 280 | | 1213 | 9.8 | 300 | | 1230 | 8.5 | 260 | | 1313 | 9.2 | 280 | | 1345 | 8.2 | 250 | | 0733 | 0.3 | 10 |
| | 1813 | 2.3 | 70 | | 1811 | 3.0 | 90 | | 1809 | 3.6 | 110 | | 1831 | 4.3 | 130 | | 1854 | 4.3 | 130 | | 1428 | 8.2 | 250 |
| | 2345 | 8.9 | 270 | | 2343 | 10.2 | 310 | | 2337 | 9.2 | 280 | | 1831 | 4.3 | 130 | | 1935 | 4.3 | 130 | | 1935 | 4.3 | 130 |
| 5 Tu | 0611 | 1.6 | 50 | 20 W | 0626 | 0.0 | 0 | 5 Th | 0616 | 1.0 | 30 | 20 F | 0003 | 10.2 | 310 | 5 Su | 0026 | 9.5 | 290 | 20 M | 0118 | 9.5 | 290 |
| | 1228 | 9.2 | 280 | | 1311 | 9.8 | 300 | | 1309 | 8.5 | 260 | | 0658 | 0.0 | 0 | | 0716 | 0.7 | 20 | | 0815 | 0.7 | 20 |
| | 1841 | 2.6 | 80 | | 1854 | 3.3 | 100 | | 1839 | 3.6 | 110 | | 1403 | 8.9 | 270 | | 1424 | 8.2 | 250 | | 1500 | 8.2 | 250 |
| | | | | | | | | | | | | | 1915 | 4.3 | 130 | | 1937 | 4.3 | 130 | | 2013 | 3.9 | 120 |
| 6 W | 0009 | 9.2 | 280 | 21 Th | 0022 | 10.2 | 310 | 6 F | 0005 | 9.2 | 280 | 21 Sa | 0048 | 9.8 | 300 | 6 M | 0107 | 9.5 | 290 | 21 Tu | 0200 | 8.9 | 270 |
| | 0639 | 1.3 | 40 | | 0713 | 0.0 | 0 | | 0650 | 1.0 | 30 | | 0746 | 0.0 | 0 | | 0803 | 0.7 | 20 | | 0852 | 1.3 | 40 |
| | 1301 | 8.9 | 270 | | 1407 | 9.2 | 280 | | 1348 | 8.2 | 250 | | 1448 | 8.5 | 260 | | 1503 | 8.2 | 250 | | 1530 | 7.9 | 240 |
| | 1907 | 3.0 | 90 | | 1933 | 3.9 | 120 | | 1909 | 3.9 | 120 | | 1956 | 4.6 | 140 | | 2022 | 4.3 | 130 | | 2052 | 3.9 | 120 |
| 7 Th | 0033 | 9.2 | 280 | 22 F | 0103 | 9.8 | 300 | 7 Sa | 0037 | 9.5 | 290 | 22 Su | 0133 | 9.5 | 290 | 7 Tu | 0152 | 9.5 | 290 | 22 W | 0241 | 8.5 | 260 |
| | 0709 | 1.3 | 40 | | 0801 | 0.0 | 0 | | 0726 | 1.0 | 30 | | 0833 | 0.7 | 20 | | 0850 | 1.0 | 30 | | 0930 | 1.6 | 50 |
| | 1339 | 8.5 | 260 | | 1458 | 8.5 | 260 | | 1430 | 8.2 | 250 | | 1533 | 7.9 | 240 | | 1546 | 8.2 | 250 | | 1601 | 7.5 | 230 |
| | 1930 | 3.6 | 110 | | 2011 | 4.3 | 130 | | 1941 | 4.3 | 130 | | 2033 | 4.6 | 140 | | 2113 | 4.3 | 130 | | 2135 | 3.9 | 120 |
| 8 F | 0100 | 9.2 | 280 | 23 Sa | 0146 | 9.5 | 290 | 8 Su | 0113 | 9.2 | 280 | 23 M | 0218 | 9.2 | 280 | 8 W | 0243 | 9.2 | 280 | 23 Th | 0328 | 7.9 | 240 |
| | 0737 | 1.3 | 40 | | 0850 | 0.7 | 20 | | 0807 | 1.0 | 30 | | 0920 | 1.3 | 40 | | 0941 | 1.3 | 40 | | 1009 | 2.3 | 70 |
| | 1418 | 8.2 | 250 | | 1548 | 7.9 | 240 | | 1513 | 7.9 | 240 | | 1616 | 7.5 | 230 | | 1631 | 7.9 | 240 | | 1637 | 7.5 | 230 |
| | 1948 | 3.9 | 120 | | 2048 | 4.6 | 140 | | 2018 | 4.6 | 140 | | 2116 | 4.6 | 140 | | 2207 | 3.9 | 120 | | 2230 | 3.6 | 110 |
| 9 Sa | 0130 | 9.2 | 280 | 24 Su | 0235 | 9.2 | 280 | 9 M | 0154 | 9.2 | 280 | 24 Tu | 0307 | 8.5 | 260 | 9 Th | 0345 | 8.5 | 260 | 24 F | 0422 | 6.9 | 210 |
| | 0815 | 1.3 | 40 | | 0943 | 1.3 | 40 | | 0856 | 1.3 | 40 | | 1009 | 2.0 | 60 | | 1033 | 2.0 | 60 | | 1052 | 3.0 | 90 |
| | 1501 | 7.5 | 230 | | 1645 | 7.2 | 220 | | 1603 | 7.5 | 230 | | 1701 | 7.2 | 220 | | 1722 | 7.9 | 240 | | 1720 | 7.2 | 220 |
| | 2013 | 4.3 | 130 | | 2133 | 4.9 | 150 | | 2109 | 4.6 | 140 | | 2209 | 4.6 | 140 | | 2309 | 3.6 | 110 | | 2339 | 3.6 | 110 |
| 10 Su | 0203 | 8.9 | 270 | 25 M | 0330 | 8.5 | 260 | 10 Tu | 0245 | 8.9 | 270 | 25 W | 0401 | 7.5 | 230 | 10 F | 0501 | 7.9 | 240 | 25 Sa | 0533 | 6.2 | 190 |
| | 0900 | 1.6 | 50 | | 1045 | 2.0 | 60 | | 0954 | 1.6 | 50 | | 1107 | 2.3 | 70 | | 1131 | 2.6 | 80 | | 1146 | 3.6 | 110 |
| | 1601 | 7.2 | 220 | | 1801 | 6.9 | 210 | | 1701 | 7.5 | 230 | | 1754 | 6.9 | 210 | | 1813 | 8.2 | 250 | | 1813 | 7.2 | 220 |
| | 2050 | 4.6 | 140 | | 2237 | 5.2 | 160 | | 2216 | 4.9 | 150 | | 2320 | 4.6 | 140 | | 2320 | 4.6 | 140 | | 2320 | 4.6 | 140 |
| 11 M | 0248 | 8.5 | 260 | 26 Tu | 0433 | 7.5 | 230 | 11 W | 0350 | 8.2 | 250 | 26 Th | 0507 | 6.9 | 210 | 11 Sa | 0022 | 3.3 | 100 | 26 Su | 0100 | 3.3 | 100 |
| | 1003 | 2.0 | 60 | | 1205 | 2.6 | 80 | | 1100 | 2.0 | 60 | | 1213 | 3.0 | 90 | | 1239 | 3.3 | 100 | | 0716 | 5.9 | 180 |
| | 1718 | 6.9 | 210 | | 1931 | 6.6 | 200 | | 1807 | 7.5 | 230 | | 1852 | 6.9 | 210 | | 1907 | 8.2 | 250 | | 1258 | 4.3 | 130 |
| | 2201 | 5.2 | 160 | | | | | | 2333 | 4.6 | 140 | | | | | | | | 1911 | | 7.2 | 220 | |
| 12 Tu | 0352 | 8.2 | 250 | 27 W | 0024 | 5.2 | 160 | 12 Th | 0515 | 7.9 | 240 | 27 F | 0048 | 4.3 | 130 | 12 Su | 0137 | 2.3 | 70 | 27 M | 0209 | 2.6 | 80 |
| | 1124 | 2.3 | 70 | | 0605 | 6.9 | 210 | | 1211 | 2.3 | 70 | | 0643 | 6.6 | 200 | | 0805 | 7.5 | 230 | | 0909 | 6.2 | 190 |
| | 1854 | 6.9 | 210 | | 1324 | 2.6 | 80 | | 1907 | 7.5 | 230 | | 1318 | 3.3 | 100 | | 1350 | 3.6 | 110 | | 1407 | 4.6 | 140 |
| | 2348 | 5.2 | 160 | | 2031 | 6.9 | 210 | | | | | | 1945 | 7.2 | 220 | | 1958 | 8.5 | 260 | | 2007 | 7.5 | 230 |
| 13 W | 0522 | 7.5 | 230 | 28 Th | 0201 | 4.6 | 140 | 13 F | 0056 | 3.9 | 120 | 28 Sa | 0203 | 3.6 | 110 | 13 M | 0241 | 1.6 | 50 | 28 Tu | 0303 | 2.0 | 60 |
| | 1250 | 2.3 | 70 | | 0756 | 6.9 | 210 | | 0658 | 7.9 | 240 | | 0824 | 6.6 | 200 | | 0930 | 7.9 | 240 | | 1011 | 6.9 | 210 |
| | 2011 | 7.2 | 220 | | 1431 | 3.0 | 90 | | 1326 | 2.6 | 80 | | 1416 | 3.6 | 110 | | 1454 | 3.9 | 120 | | 1503 | 4.6 | 140 |
| | | | | | 2111 | 7.2 | 220 | | 2000 | 8.2 | 250 | | 2028 | 7.5 | 230 | | 2046 | 8.9 | 270 | | 2058 | 7.9 | 240 |
| 14 Th | 0128 | 4.9 | 150 | 29 F | 0303 | 3.9 | 120 | 14 Sa | 0209 | 3.3 | 100 | 29 Su | 0300 | 3.0 | 90 | 14 Tu | 0335 | 1.0 | 30 | 29 W | 0346 | 1.6 | 50 |
| | 0720 | 7.9 | 240 | | 0907 | 7.2 | 220 | | 0818 | 8.2 | 250 | | 0931 | 6.9 | 210 | | 1037 | 8.2 | 250 | | 1058 | 7.2 | 220 |
| | 1407 | 2.3 | 70 | | 1524 | 2.6 | 80 | | 1430 | 2.6 | 80 | | 1509 | 3.6 | 110 | | 1550 | 4.3 | 130 | | 1550 | 4.6 | 140 |
| | 2056 | 7.9 | 240 | | 2139 | 7.5 | 230 | | 2041 | 8.5 | 260 | | 2103 | 7.9 | 240 | | 2135 | 9.2 | 280 | | 2141 | 8.5 | 260 |
| 15 F | 0239 | 3.9 | 120 | 30 Sa | 0343 | 3.0 | 90 | 15 Su | 0305 | 2.3 | 70 | 30 M | 0343 | 2.3 | 70 | 15 W | 0424 | 0.3 | 10 | 30 Th | 0422 | 1.3 | 40 |
| | 0837 | 8.5 | 260 | | 0956 | 7.9 | 240 | | 0924 | 8.5 | 260 | | 1024 | 7.5 | 230 | | 1133 | 8.5 | 260 | | 1137 | 7.9 | 240 |
| | 1509 | 2.0 | 60 | | 1603 | 2.6 | 80 | | 1524 | 3.0 | 90 | | 1550 | 3.6 | 110 | | 1641 | 4.3 | 130 | | 1631 | 4.6 | 140 |
| | 2130 | 8.5 | 260 | | 2200 | 7.9 | 240 | | 2120 | 8.9 | 270 | | 2137 | 8.2 | 250 | | 2222 | 9.5 | 290 | | 2220 | 8.9 | |

Singapore (Tanjong Pagar), Singapore, 2011

Times and Heights of High and Low Waters

| October | | | | November | | | | December | | | | | | | | | | | | | | | |
|-----------------|--------|------|------|-----------------|------|------|--------|-----------------|------|--------|-----|-----------------|--------|------|-----|-----------------|------|------|-----|-----------------|------|------|-----|
| Time | Height | | Time | Height | | Time | Height | | Time | Height | | Time | Height | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | |
| 1 Sa | 0135 | 9.8 | 300 | 16 Su | 0130 | 8.9 | 270 | 1 Tu | 0330 | 8.9 | 270 | 16 W | 0252 | 8.5 | 260 | 1 Th | 0352 | 8.9 | 270 | 16 F | 0309 | 9.2 | 280 |
| | 0731 | 3.3 | 100 | | 0715 | 3.9 | 120 | | 0835 | 5.2 | 160 | | 0801 | 5.2 | 160 | | 0903 | 5.2 | 160 | | 0843 | 4.9 | 150 |
| | 1303 | 10.2 | 310 | | 1243 | 9.5 | 290 | | 1413 | 9.5 | 290 | | 1330 | 9.5 | 290 | | 1448 | 9.2 | 280 | | 1409 | 9.5 | 290 |
| | 1950 | 0.3 | 10 | | 1920 | 1.3 | 40 | | 2115 | 1.6 | 50 | | 2020 | 2.0 | 60 | | 2141 | 2.6 | 80 | | 2058 | 2.3 | 70 |
| 2 Su | 0237 | 9.2 | 280 | 17 M | 0209 | 8.5 | 260 | 2 W | 0424 | 8.2 | 250 | 17 Th | 0335 | 8.2 | 250 | 2 F | 0433 | 8.2 | 250 | 17 Sa | 0348 | 8.9 | 270 |
| | 0811 | 3.9 | 120 | | 0737 | 4.3 | 130 | | 0922 | 5.6 | 170 | | 0846 | 5.2 | 160 | | 0956 | 5.2 | 160 | | 0935 | 4.9 | 150 |
| | 1345 | 9.8 | 300 | | 1311 | 9.2 | 280 | | 1507 | 8.9 | 270 | | 1415 | 9.2 | 280 | | 1543 | 8.5 | 260 | | 1503 | 9.2 | 280 |
| | 2039 | 0.7 | 20 | | 1954 | 1.6 | 50 | | 2216 | 2.3 | 70 | | 2113 | 2.3 | 70 | | 2231 | 3.3 | 100 | | 2146 | 3.0 | 90 |
| 3 M | 0335 | 8.5 | 260 | 18 Tu | 0252 | 7.9 | 240 | 3 Th | 0528 | 7.5 | 230 | 18 F | 0428 | 8.2 | 250 | 3 Sa | 0520 | 7.9 | 240 | 18 Su | 0433 | 8.9 | 270 |
| | 0850 | 4.6 | 140 | | 0801 | 4.6 | 140 | | 1024 | 5.6 | 170 | | 0946 | 5.2 | 160 | | 1105 | 5.2 | 160 | | 1033 | 4.6 | 140 |
| | 1430 | 9.5 | 290 | | 1345 | 9.2 | 280 | | 1613 | 8.2 | 250 | | 1513 | 8.9 | 270 | | 1650 | 7.5 | 230 | | 1615 | 8.5 | 260 |
| | 2133 | 1.0 | 30 | | 2035 | 2.0 | 60 | | 2333 | 3.0 | 90 | | 2215 | 3.0 | 90 | | 2333 | 3.9 | 120 | | 2239 | 3.6 | 110 |
| 4 Tu | 0437 | 7.5 | 230 | 19 W | 0346 | 7.5 | 230 | 4 F | 0648 | 7.5 | 230 | 19 Sa | 0526 | 8.2 | 250 | 4 Su | 0616 | 7.9 | 240 | 19 M | 0526 | 8.9 | 270 |
| | 0935 | 5.2 | 160 | | 0839 | 4.9 | 150 | | 1201 | 5.6 | 170 | | 1058 | 5.2 | 160 | | 1237 | 4.9 | 150 | | 1143 | 4.3 | 130 |
| | 1524 | 8.9 | 270 | | 1426 | 8.9 | 270 | | 1741 | 7.5 | 230 | | 1630 | 8.2 | 250 | | 1830 | 7.2 | 220 | | 1748 | 7.9 | 240 |
| | 2243 | 2.0 | 60 | | 2133 | 2.3 | 70 | | 0054 | 3.3 | 100 | | 1941 | 7.5 | 230 | | 2324 | 3.3 | 100 | | 2341 | 4.3 | 130 |
| 5 W | 0605 | 7.2 | 220 | 20 Th | 0452 | 7.2 | 220 | 5 Sa | 0054 | 3.3 | 100 | 20 Su | 0628 | 8.2 | 250 | 5 M | 0046 | 4.6 | 140 | 20 Tu | 0622 | 8.9 | 270 |
| | 1041 | 5.6 | 170 | | 0943 | 5.2 | 160 | | 0752 | 7.5 | 230 | | 1220 | 4.9 | 150 | | 0715 | 7.9 | 240 | | 1301 | 3.6 | 110 |
| | 1635 | 8.2 | 250 | | 1522 | 8.2 | 250 | | 1343 | 4.9 | 150 | | 1816 | 7.9 | 240 | | 1354 | 4.3 | 130 | | 1928 | 7.9 | 240 |
| | | | | | 2248 | 2.6 | 80 | | 1941 | 7.5 | 230 | | 0039 | 3.6 | 110 | | 2024 | 7.2 | 220 | | 2105 | 8.2 | 250 |
| 6 Th | 0015 | 2.3 | 70 | 21 F | 0615 | 7.2 | 220 | 6 Su | 0205 | 3.6 | 110 | 21 M | 0039 | 3.6 | 110 | 6 Tu | 0156 | 4.9 | 150 | 21 W | 0058 | 4.9 | 150 |
| | 0752 | 7.2 | 220 | | 1120 | 5.6 | 170 | | 0839 | 7.9 | 240 | | 0722 | 8.5 | 260 | | 0805 | 8.2 | 250 | | 0720 | 9.2 | 280 |
| | 1239 | 5.6 | 170 | | 1648 | 7.9 | 240 | | 1452 | 4.3 | 130 | | 1339 | 3.9 | 120 | | 1452 | 3.6 | 110 | | 1411 | 2.6 | 80 |
| | 1818 | 7.5 | 230 | | 2056 | 7.9 | 240 | | 2056 | 7.9 | 240 | | 1948 | 8.2 | 250 | | 2135 | 7.5 | 230 | | 2105 | 8.2 | 250 |
| 7 F | 0143 | 2.6 | 80 | 22 Sa | 0013 | 3.0 | 90 | 7 M | 0301 | 3.6 | 110 | 22 Tu | 0152 | 3.9 | 120 | 7 W | 0258 | 4.9 | 150 | 22 Th | 0218 | 5.2 | 160 |
| | 0856 | 7.2 | 220 | | 0731 | 7.5 | 230 | | 0913 | 8.2 | 250 | | 0809 | 9.2 | 280 | | 0846 | 8.5 | 260 | | 0815 | 9.5 | 290 |
| | 1424 | 4.9 | 150 | | 1300 | 5.2 | 160 | | 1533 | 3.3 | 100 | | 1437 | 3.0 | 90 | | 1535 | 3.0 | 90 | | 1507 | 1.6 | 50 |
| | 2011 | 7.5 | 230 | | 1846 | 7.9 | 240 | | 2150 | 8.2 | 250 | | 2101 | 8.9 | 270 | | 2226 | 8.2 | 250 | | 2218 | 8.9 | 270 |
| 8 Sa | 0256 | 2.3 | 70 | 23 Su | 0133 | 3.0 | 90 | 8 Tu | 0343 | 3.6 | 110 | 23 W | 0252 | 4.3 | 130 | 8 Th | 0346 | 4.9 | 150 | 23 F | 0324 | 5.6 | 170 |
| | 0941 | 7.9 | 240 | | 0824 | 8.2 | 250 | | 0937 | 8.5 | 260 | | 0850 | 9.5 | 290 | | 0922 | 8.9 | 270 | | 0907 | 9.8 | 300 |
| | 1524 | 4.3 | 130 | | 1413 | 4.3 | 130 | | 1603 | 2.6 | 80 | | 1526 | 2.0 | 60 | | 1609 | 2.3 | 70 | | 1558 | 1.3 | 40 |
| | 2116 | 8.2 | 250 | | 2011 | 8.2 | 250 | | 2231 | 8.5 | 260 | | 2205 | 9.2 | 280 | | 2307 | 8.5 | 260 | | 2316 | 9.2 | 280 |
| 9 Su | 0345 | 2.3 | 70 | 24 M | 0237 | 2.6 | 80 | 9 W | 0418 | 3.6 | 110 | 24 Th | 0345 | 4.3 | 130 | 9 F | 0424 | 4.9 | 150 | 24 Sa | 0418 | 5.6 | 170 |
| | 1009 | 7.9 | 240 | | 0900 | 8.5 | 260 | | 1000 | 8.9 | 270 | | 0930 | 10.2 | 310 | | 0956 | 9.2 | 280 | | 0958 | 10.2 | 310 |
| | 1600 | 3.3 | 100 | | 1505 | 3.3 | 100 | | 1631 | 2.3 | 70 | | 1609 | 1.3 | 40 | | 1639 | 2.0 | 60 | | 1645 | 0.7 | 20 |
| | 2203 | 8.5 | 260 | | 2113 | 9.2 | 280 | | 2309 | 8.9 | 270 | | 2301 | 9.8 | 300 | | 2345 | 8.9 | 270 | | | | |
| 10 M | 0420 | 2.3 | 70 | 25 Tu | 0326 | 2.6 | 80 | 10 Th | 0452 | 3.9 | 120 | 25 F | 0431 | 4.6 | 140 | 10 Sa | 0456 | 4.9 | 150 | 25 Su | 0003 | 9.5 | 290 |
| | 1028 | 8.2 | 250 | | 0931 | 9.2 | 280 | | 1026 | 9.2 | 280 | | 1011 | 10.5 | 320 | | 1028 | 9.5 | 290 | | 0507 | 5.6 | 170 |
| | 1628 | 2.6 | 80 | | 1548 | 2.3 | 70 | | 1700 | 1.6 | 50 | | 1654 | 0.7 | 20 | | 1709 | 1.6 | 50 | | 1045 | 10.5 | 320 |
| | 2241 | 8.9 | 270 | | 2203 | 9.8 | 300 | | 2343 | 9.2 | 280 | | 2356 | 9.8 | 300 | | 2356 | 9.8 | 300 | | 1733 | 0.7 | 20 |
| 11 Tu | 0450 | 2.3 | 70 | 26 W | 0413 | 3.0 | 90 | 11 F | 0524 | 3.9 | 120 | 26 Sa | 0518 | 4.9 | 150 | 11 Su | 0020 | 9.2 | 280 | 26 M | 0048 | 9.5 | 290 |
| | 1043 | 8.5 | 260 | | 1003 | 9.8 | 300 | | 1052 | 9.5 | 290 | | 1054 | 10.8 | 330 | | 0528 | 4.9 | 150 | | 0552 | 5.2 | 160 |
| | 1654 | 2.3 | 70 | | 1628 | 1.3 | 40 | | 1728 | 1.6 | 50 | | 1739 | 0.3 | 10 | | 1100 | 9.8 | 300 | | 1131 | 10.5 | 320 |
| | 2313 | 9.2 | 280 | | 2252 | 10.2 | 310 | | 0018 | 9.2 | 280 | | 0018 | 9.2 | 280 | | 1739 | 1.6 | 50 | | 1822 | 0.7 | 20 |
| 12 W | 0522 | 2.6 | 80 | 27 Th | 0456 | 3.3 | 100 | 12 Sa | 0018 | 9.2 | 280 | 27 Su | 0050 | 9.8 | 300 | 12 M | 0054 | 9.2 | 280 | 27 Tu | 0130 | 9.5 | 290 |
| | 1101 | 8.9 | 270 | | 1039 | 10.2 | 310 | | 0554 | 4.3 | 130 | | 0605 | 4.9 | 150 | | 0601 | 5.2 | 160 | | 0637 | 5.2 | 160 |
| | 1722 | 1.6 | 50 | | 1711 | 0.7 | 20 | | 1120 | 9.8 | 300 | | 1139 | 10.8 | 330 | | 1131 | 9.8 | 300 | | 1216 | 10.5 | 320 |
| | 2345 | 9.2 | 280 | | 2345 | 10.2 | 310 | | 1758 | 1.3 | 40 | | 1828 | 0.3 | 10 | | 1815 | 1.6 | 50 | | 1907 | 1.0 | 30 |
| 13 Th | 0552 | 3.0 | 90 | 28 F | 0541 | 3.6 | 110 | 13 Su | 0056 | 9.2 | 280 | 28 M | 0139 | 9.8 | 300 | 13 Tu | 0128 | 9.2 | 280 | 28 W | 0205 | 9.5 | 290 |
| | 1124 | 9.2 | 280 | | 1116 | 10.5 | 320 | | 0624 | 4.6 | 140 | | 0650 | 5.2 | 160 | | 0637 | 5.2 | 160 | | 0718 | 4.9 | 150 |
| | 1752 | 1.6 | 50 | | 1754 | 0.3 | 10 | | 1150 | 9.8 | 300 | | 1224 | 10.5 | 320 | | 1207 | 10.2 | 310 | | 1300 | 10.2 | 310 |
| | | | | | | | | | 1828 | 1.3 | 40 | | 1918 | 0.7 | 20 | | 1852 | 1.6 | 50 | | 1950 | 1.6 | 50 |
| 14 F | 0016 | 9.2 | 280 | 29 Sa | 0043 | 10.2 | 310 | 14 M | 0133 | 8.9 | 270 | 29 Tu | 0226 | 9.5 | 290 | 14 W | 0201 | 9.2 | 280 | 29 Th | 0237 | 9.2 | 280 |
| | 0622 | 3.0 | 90 | | 0626 | 3.9 | 120 | | 0654 | 4.6 | 140 | | 0735 | 5.2 | 160 | | 0716 | 5.2 | 160 | | 0801 | 4.6 | 140 |
| | 1150 | 9.5 | 290 | | 1156 | 10.5 | 320 | | 1220 | 9.8 | 300 | | 1311 | 10.2 | 310 | | 1243 | 10.2 | 310 | | 1343 | 9.8 | 300 |
| | 1822 | 1.3 | 40 | | 1841 | 0.0 | 0 | | 1901 | 1.6 | 50 | | 2007 | 1.3 | 40 | | 1931 | 1.6 | 50 | | 2028 | 2.0 | 60 |
| 15 Sa | 0052 | 9.2 | 280 | 30 Su | 0141 | 9.8 | 300 | 15 Tu | 0213 | 8.9 | 270 | 30 W | 0309 | 9.2 | 280 | 15 Th | 0235 | 9.2 | 280 | 30 F | 0305 | 8.9 | 270 |
| | 0650 | 3.6 | 110 | | 0711 | 4.6 | 140 | | 0726 | 4.9 | 150 | | 0818 | 5.2 | 160 | | 0758 | 4.9 | 150 | | 0841 | 4.6 | 140 |
| | 1216 | 9.5 | 290 | | 1239 | 10.5 | 320 | | 1252 | 9.8 | 300 | | 1358 | 9.8 | 300 | | 1324 | 9.8 | 300 | | 1424 | 9.2 | 280 |
| | 1850 | 1.3 | 40 | | 1930 | 0.3 | 10 | | 1937 | 1.6 | 50 | | 2 | | | | | | | | | | |

Belawan Channel, Sumatra, 2011

Times and Heights of High and Low Waters

| July | | | | August | | | | September | | | | | | | | | | | | | | | |
|--------------------|--------|-----|------|-----------------|------|---------------|--------|-----------------|------|-----------------|------|-----------------|--------|----------------|------|-----------------|------|----------------|------|-----------------|------|-----|------|
| Time | Height | | Time | Height | | Time | Height | | Time | Height | | Time | Height | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | |
| 1 F ● | 0137 | 7.0 | 213 | | | 1 M | 0233 | 8.0 | 244 | 16 Tu | 0252 | 7.8 | 238 | 1 Th | 0315 | 8.7 | 265 | 16 F | 0301 | 8.1 | 247 | | |
| | 0711 | 3.4 | 104 | 16 Sa | 0759 | | 3.3 | 101 | 0822 | | 2.6 | 79 | 0845 | | 2.7 | 82 | 0922 | | 1.8 | 55 | 0912 | 2.3 | 70 |
| | 1319 | 8.4 | 256 | | 1400 | | 8.3 | 253 | 1422 | | 8.6 | 262 | 1442 | | 8.0 | 244 | 1523 | | 8.2 | 250 | 1510 | 7.4 | 226 |
| | 1958 | 1.7 | 52 | | 2035 | | 1.5 | 46 | 2048 | | 0.9 | 27 | 2100 | | 1.6 | 49 | 2133 | | 1.4 | 43 | 2110 | 2.3 | 70 |
| 2 Sa | 0214 | 7.3 | 223 | 17 Su | 0254 | 7.5 | 229 | 2 Tu | 0308 | 8.2 | 250 | 17 W | 0317 | 7.9 | 241 | 2 F | 0350 | 8.5 | 259 | 17 Sa | 0325 | 8.0 | 244 |
| | 0750 | 3.3 | 101 | | 0834 | 3.2 | 98 | | 0900 | 2.4 | 73 | | 0913 | 2.7 | 82 | | 1002 | 2.0 | 61 | | 0940 | 2.5 | 76 |
| | 1355 | 8.5 | 259 | | 1432 | 8.2 | 250 | | 1459 | 8.6 | 262 | | 1508 | 7.8 | 238 | | 1603 | 7.7 | 235 | | 1538 | 7.1 | 216 |
| | 2032 | 1.4 | 43 | | 2105 | 1.5 | 46 | | 2124 | 1.0 | 30 | | 2124 | 1.8 | 55 | | 2209 | 2.0 | 61 | | 2134 | 2.7 | 82 |
| 3 Su | 0251 | 7.6 | 232 | 18 M | 0325 | 7.5 | 229 | 3 W | 0344 | 8.3 | 253 | 18 Th | 0341 | 7.8 | 238 | 3 Sa | 0428 | 8.1 | 247 | 18 Su | 0350 | 7.7 | 235 |
| | 0830 | 3.2 | 98 | | 0906 | 3.2 | 98 | | 0940 | 2.5 | 76 | | 0941 | 2.8 | 85 | | 1046 | 2.5 | 76 | | 1011 | 2.8 | 85 |
| | 1431 | 8.6 | 262 | | 1503 | 8.1 | 247 | | 1538 | 8.3 | 253 | | 1535 | 7.5 | 229 | | 1647 | 7.0 | 213 | | 1610 | 6.7 | 204 |
| | 2107 | 1.3 | 40 | | 2133 | 1.6 | 49 | | 2200 | 1.3 | 40 | | 2148 | 2.1 | 64 | | 2247 | 2.8 | 85 | | 2201 | 3.2 | 98 |
| 4 M | 0329 | 7.7 | 235 | 19 Tu | 0355 | 7.5 | 229 | 4 Th | 0422 | 8.2 | 250 | 19 F | 0408 | 7.6 | 232 | 4 Su | 0509 | 7.5 | 229 | 19 M | 0420 | 7.3 | 223 |
| | 0910 | 3.2 | 98 | | 0939 | 3.3 | 101 | | 1023 | 2.6 | 79 | | 1011 | 3.0 | 91 | | 1139 | 3.0 | 91 | | 1049 | 3.1 | 94 |
| | 1510 | 8.5 | 259 | | 1533 | 7.8 | 238 | | 1619 | 7.8 | 238 | | 1604 | 7.1 | 216 | | 1742 | 6.2 | 189 | | 1649 | 6.2 | 189 |
| | 2144 | 1.3 | 40 | | 2201 | 1.9 | 58 | | 2238 | 1.7 | 52 | | 2213 | 2.5 | 76 | | 2332 | 3.6 | 110 | | 2233 | 3.7 | 113 |
| 5 Tu | 0409 | 7.8 | 238 | 20 W | 0425 | 7.4 | 226 | 5 F | 0504 | 7.9 | 241 | 20 Sa | 0436 | 7.4 | 226 | 5 M | 0602 | 6.9 | 210 | 20 Tu | 0456 | 6.9 | 210 |
| | 0954 | 3.2 | 98 | | 1013 | 3.5 | 107 | | 1110 | 3.0 | 91 | | 1045 | 3.3 | 101 | | 1256 | 3.5 | 107 | | 1142 | 3.5 | 107 |
| | 1550 | 8.2 | 250 | | 1603 | 7.4 | 226 | | 1704 | 7.2 | 219 | | 1635 | 6.6 | 201 | | 1914 | 5.6 | 171 | | 1752 | 5.7 | 174 |
| | 2223 | 1.5 | 46 | | 2229 | 2.2 | 67 | | 2319 | 2.4 | 73 | | 2241 | 2.9 | 88 | | ● | ● | 2320 | | 4.3 | 131 | |
| 6 W | 0452 | 7.8 | 238 | 21 Th | 0457 | 7.3 | 223 | 6 Sa | 0551 | 7.5 | 229 | 21 Su | 0509 | 7.1 | 216 | 6 Tu | 0044 | 4.4 | 134 | 21 W | 0553 | 6.4 | 195 |
| | 1041 | 3.4 | 104 | | 1049 | 3.7 | 113 | | 1208 | 3.4 | 104 | | 1126 | 3.6 | 110 | | 0727 | 6.4 | 195 | | 1316 | 3.8 | 116 |
| | 1634 | 7.8 | 238 | | 1635 | 7.0 | 213 | | 1759 | 6.4 | 195 | | 1713 | 6.1 | 186 | | 1501 | 3.6 | 110 | | 2015 | 5.5 | 168 |
| | 2305 | 1.8 | 55 | | 2259 | 2.6 | 79 | | ● | ● | ● | | 2313 | 3.5 | 107 | | 2201 | 5.6 | 171 | | 2201 | 5.6 | 171 |
| 7 Th | 0539 | 7.6 | 232 | 22 F | 0532 | 7.1 | 216 | 7 Su | 0008 | 3.1 | 94 | 22 M | 0551 | 6.7 | 204 | 7 W | 0322 | 4.7 | 143 | 22 Th | 0127 | 4.8 | 146 |
| | 1135 | 3.6 | 110 | | 1131 | 3.9 | 119 | | 0650 | 7.1 | 216 | | 1227 | 3.9 | 119 | | 0935 | 6.3 | 192 | | 0754 | 6.1 | 186 |
| | 1723 | 7.2 | 219 | | 1710 | 6.5 | 198 | | 1328 | 3.7 | 113 | | 1812 | 5.5 | 168 | | 1644 | 3.2 | 98 | | 1524 | 3.6 | 110 |
| | 2352 | 2.3 | 70 | | 2332 | 3.0 | 91 | | 1921 | 5.8 | 177 | | ● | ● | 2329 | | 6.2 | 189 | 2224 | | 6.0 | 183 | |
| 8 F | 0634 | 7.5 | 229 | 23 Sa | 0615 | 6.9 | 210 | 8 M | 0116 | 3.8 | 116 | 23 Tu | 0001 | 4.1 | 125 | 8 Th | 0507 | 4.3 | 131 | 23 F | 0406 | 4.5 | 137 |
| | 1242 | 3.8 | 116 | | 1225 | 4.2 | 128 | | 0811 | 6.8 | 207 | | 0659 | 6.3 | 192 | | 1059 | 6.6 | 201 | | 0955 | 6.3 | 192 |
| | 1824 | 6.6 | 201 | | 1755 | 6.0 | 183 | | 1522 | 3.7 | 113 | | 1420 | 4.1 | 125 | | 1740 | 2.7 | 82 | | 1639 | 3.0 | 91 |
| | ● | ● | ● | | ● | ● | ● | | 2136 | 5.5 | 168 | | 2035 | 5.2 | 158 | | 2201 | 5.6 | 171 | | 2317 | 6.8 | 207 |
| 9 Sa | 0048 | 2.8 | 85 | 24 Su | 0012 | 3.5 | 107 | 9 Tu | 0306 | 4.2 | 128 | 24 W | 0153 | 4.5 | 137 | 9 F | 0012 | 6.7 | 204 | 24 Sa | 0512 | 3.8 | 116 |
| | 0739 | 7.3 | 223 | | 0710 | 6.7 | 204 | | 0949 | 6.8 | 207 | | 0854 | 6.2 | 189 | | 0559 | 3.8 | 116 | | 1102 | 6.9 | 210 |
| | 1406 | 3.9 | 119 | | 1347 | 4.3 | 131 | | 1658 | 3.2 | 98 | | 1620 | 3.7 | 113 | | 1150 | 7.0 | 213 | | 1728 | 2.4 | 73 |
| | 1947 | 6.1 | 186 | | 1908 | 5.5 | 168 | | 2323 | 5.9 | 180 | | 2253 | 5.6 | 171 | | 1818 | 2.3 | 70 | | 2355 | 7.5 | 229 |
| 10 Su | 0157 | 3.3 | 101 | 25 M | 0112 | 3.9 | 119 | 10 W | 0450 | 4.1 | 125 | 25 Th | 0416 | 4.4 | 134 | 10 Sa | 0043 | 7.2 | 219 | 25 Su | 0556 | 3.1 | 94 |
| | 0853 | 7.3 | 223 | | 0826 | 6.6 | 201 | | 1106 | 7.1 | 216 | | 1030 | 6.6 | 201 | | 0635 | 3.3 | 101 | | 1151 | 7.5 | 229 |
| | 1542 | 3.7 | 113 | | 1538 | 4.2 | 128 | | 1758 | 2.6 | 79 | | 1722 | 3.0 | 91 | | 1228 | 7.4 | 226 | | 1808 | 1.8 | 55 |
| | 2132 | 5.9 | 180 | | 2118 | 5.3 | 162 | | ● | ● | ● | | 2348 | 6.3 | 192 | | 1849 | 2.0 | 61 | | 2355 | 7.5 | 229 |
| 11 M | 0321 | 3.7 | 113 | 26 Tu | 0248 | 4.2 | 128 | 11 Th | 0022 | 6.4 | 195 | 26 F | 0526 | 3.9 | 119 | 11 Su | 0109 | 7.6 | 232 | 26 M | 0030 | 8.2 | 250 |
| | 1008 | 7.4 | 226 | | 0951 | 6.7 | 204 | | 0555 | 3.8 | 116 | | 1128 | 7.1 | 216 | | 0705 | 2.9 | 88 | | 0635 | 2.4 | 73 |
| | 1703 | 3.2 | 98 | | 1701 | 3.7 | 113 | | 1159 | 7.4 | 226 | | 1804 | 2.3 | 70 | | 1300 | 7.6 | 232 | | 1233 | 8.0 | 244 |
| | 2307 | 6.1 | 186 | | 2306 | 5.6 | 171 | | 1840 | 2.2 | 67 | | ● | ● | 1915 | | 1.8 | 55 | 1845 | | 1.4 | 43 | |
| 12 Tu | 0441 | 3.7 | 113 | 27 W | 0426 | 4.2 | 128 | 12 F | 0102 | 6.9 | 210 | 27 Sa | 0026 | 7.0 | 213 | 12 M | 0133 | 7.9 | 241 | 27 Tu | 0104 | 8.7 | 265 |
| | 1111 | 7.7 | 235 | | 1057 | 7.0 | 213 | | 0641 | 3.5 | 107 | | 0613 | 3.3 | 101 | | 0732 | 2.6 | 79 | | 0712 | 1.8 | 55 |
| | 1803 | 2.6 | 79 | | 1752 | 3.1 | 94 | | 1241 | 7.7 | 235 | | 1213 | 7.7 | 235 | | 1328 | 7.8 | 238 | | 1312 | 8.4 | 256 |
| | ● | ● | ● | | ● | ● | ● | | 1914 | 1.8 | 55 | | 1840 | 1.7 | 52 | | 1939 | 1.8 | 55 | | ● | ● | 1921 |
| 13 W | 0015 | 6.4 | 195 | 28 Th | 0005 | 6.1 | 186 | 13 Sa | 0134 | 7.3 | 223 | 28 Su | 0100 | 7.7 | 235 | 13 Tu | 0155 | 8.1 | 247 | 28 W | 0138 | 9.1 | 277 |
| | 0546 | 3.7 | 113 | | 0533 | 3.9 | 119 | | 0718 | 3.2 | 98 | | 0653 | 2.7 | 82 | | 0757 | 2.4 | 73 | | 0749 | 1.5 | 46 |
| | 1203 | 8.0 | 244 | | 1147 | 7.4 | 226 | | 1316 | 7.9 | 241 | | 1252 | 8.2 | 250 | | 1354 | 7.8 | 238 | | 1351 | 8.5 | 259 |
| | 1849 | 2.1 | 64 | | 1831 | 2.4 | 73 | | 1944 | 1.6 | 49 | | 1915 | 1.2 | 37 | | 2002 | 1.8 | 55 | | 1956 | 1.2 | 37 |
| 14 Th | 0105 | 6.8 | 207 | 29 F | 0047 | 6.7 | 204 | 14 Su | 0202 | 7.5 | 229 | 29 M | 0133 | 8.2 | 250 | 14 W | 0217 | 8.2 | 250 | 29 Th | 0212 | 9.2 | 280 |
| | 0638 | 3.5 | 107 | | 0622 | 3.5 | 107 | | 0749 | 2.9 | 88 | | 0730 | 2.2 | 67 | | 0822 | 2.3 | 70 | | 0826 | 1.3 | 40 |
| | 1247 | 8.2 | 250 | | 1229 | 7.9 | 241 | | 1346 | 8.0 | 244 | | 1330 | 8.5 | 259 | | 1419 | 7.8 | 238 | | 1429 | 8.4 | 256 |
| | 1929 | 1.8 | 55 | | 1907 | 1.9 | 58 | | 2011 | 1.5 | 46 | | 1949 | 0.9 | 27 | | 2025 | 1.9 | 58 | | 2031 | 1.5 | 46 |
| 15 F | 0147 | 7.1 | 216 | 30 Sa | 0124 | 7.2 | 219 | 15 M | 0228 | 7.7 | 235 | 30 Tu | 0206 | 8.6 | 262 | 15 Th | 0239 | 8.2 | 250 | 30 F | 0246 | 9.1 | 277 |
| | 0721 | 3.4 | 104 | | 0704 | 3.1 | 94 | | 0818 | 2.8 | 85 | | 0807 | 1.9 | 58 | | 0847 | 2.2 | 67 | | 0904 | 1.4 | 43 |
| | 1325 | 8.3 | 253 | | 1308 | 8.2 | 250 | | 1415 | 8.0 | 244 | | 1407 | 8.6 | 262 | | 1444 | 7.6 | 232 | | 1509 | 8.1 | 247 |
| | 2004 | 1.6 | 49 | | 1940 | 1.4 | 43 | | 2036 | 1.5 | 46 | | 2023 | 0.9 | 27 | | 2047 | | | | | | |

Belawan Channel, Sumatra, 2011

Times and Heights of High and Low Waters

| October | | | | November | | | | December | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|--------|-----|------|----------|-----------------|------|--------|----------|------|-----------------|------|------|--------|----|-----------------|------|-----|-----|--|-----------------|------|-----|-----|--|-----------------|------|-----|-----|--|-----------------|------|-----|-----|--|-----------------|------|-----|-----|--|-----------------|------|-----|-----|--|
| Time | Height | | Time | Height | | Time | Height | | Time | Height | | Time | Height | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 Sa | 0320 | 8.7 | 265 | | 16 Su | 0252 | 8.3 | 253 | | 1 Tu | 0410 | 7.7 | 235 | | 16 W | 0335 | 7.8 | 238 | | 1 Th | 0433 | 7.1 | 216 | | 16 F | 0412 | 7.5 | 229 | | | | | | | | | | | | | | | | |
| | 0943 | 1.7 | 52 | | | 0919 | 2.2 | 67 | | | 1100 | 2.5 | 76 | | | 1021 | 2.2 | 67 | | | 1126 | 2.4 | 73 | | | 1054 | 1.7 | 52 | | | | | | | | | | | | | | | | |
| | 1550 | 7.5 | 229 | | | 1523 | 7.0 | 213 | | | 1732 | 6.4 | 195 | | | 1647 | 6.7 | 204 | | | 1813 | 6.4 | 195 | | | 1729 | 7.0 | 213 | | 1729 | 7.0 | 213 | | | | | | | | | | | | |
| | 2142 | 2.6 | 79 | | | 2106 | 3.1 | 94 | | | 2253 | 4.4 | 134 | | | 2215 | 4.0 | 122 | | | 2343 | 4.5 | 137 | | | 2312 | 3.7 | 113 | | 2312 | 3.7 | 113 | | | | | | | | | | | | |
| 2 Su | 0356 | 8.2 | 250 | | 17 M | 0318 | 8.0 | 244 | | 2 W | 0453 | 7.0 | 213 | | 17 Th | 0416 | 7.4 | 226 | | 2 F | 0519 | 6.4 | 195 | | 17 Sa | 0500 | 7.0 | 213 | | 17 Su | 1142 | 2.1 | 64 | | 17 M | 1827 | 6.9 | 210 | | | | | | |
| | 1026 | 2.2 | 67 | | | 0951 | 2.4 | 73 | | | 1159 | 3.0 | 91 | | | 1109 | 2.5 | 76 | | | 1217 | 2.9 | 88 | | | 1142 | 2.1 | 64 | | | 1142 | 2.1 | 64 | | | | | | | | | | | |
| | 1636 | 6.9 | 210 | | | 1559 | 6.7 | 204 | | | 1859 | 6.1 | 186 | | | 1748 | 6.5 | 198 | | | 1924 | 6.4 | 195 | | | 1827 | 6.9 | 210 | | | 1827 | 6.9 | 210 | | | | | | | | | | | |
| | 2220 | 3.4 | 104 | | | 2136 | 3.5 | 107 | | | ○ | | | | | 2318 | 4.4 | 134 | | | ○ | | | | | 1827 | 6.9 | 210 | | | 1827 | 6.9 | 210 | | | | | | | | | | | |
| 3 M | 0434 | 7.6 | 232 | | 18 Tu | 0348 | 7.6 | 232 | | 3 Th | 0014 | 5.0 | 152 | | 18 F | 0510 | 6.8 | 207 | | 3 Sa | 0112 | 4.8 | 146 | | 18 Su | 0021 | 3.9 | 119 | | 18 M | 0601 | 6.4 | 195 | | 18 Tu | 1241 | 2.4 | 73 | | 18 W | 1937 | 6.9 | 210 | |
| | 1117 | 2.8 | 85 | | | 1029 | 2.7 | 82 | | | 0555 | 6.3 | 192 | | | 1210 | 2.7 | 82 | | | 0624 | 5.9 | 180 | | | 0601 | 6.4 | 195 | | | 0601 | 6.4 | 195 | | | | | | | | | | | |
| | 1736 | 6.2 | 189 | | | 1644 | 6.4 | 195 | | | 1321 | 3.4 | 104 | | | 1909 | 6.5 | 198 | | | 1321 | 3.2 | 98 | | | 1241 | 2.4 | 73 | | | 1241 | 2.4 | 73 | | | | | | | | | | | |
| | 2305 | 4.2 | 128 | | | 2214 | 4.0 | 122 | | | 2054 | 6.2 | 189 | | | ○ | | | | | 2043 | 6.4 | 195 | | | ○ | | | | | 1937 | 6.9 | 210 | | | | | | | | | | | |
| 4 Tu | 0521 | 6.9 | 210 | | 19 W | 0426 | 7.2 | 219 | | 4 F | 0245 | 5.0 | 152 | | 19 Sa | 0053 | 4.6 | 140 | | 4 Su | 0306 | 4.6 | 140 | | 19 M | 0152 | 3.9 | 119 | | 19 Tu | 0725 | 6.0 | 183 | | 19 W | 1353 | 2.8 | 85 | | 19 Th | 2053 | 7.0 | 213 | |
| | 1228 | 3.3 | 101 | | | 1121 | 3.1 | 94 | | | 0749 | 5.8 | 177 | | | 0630 | 6.4 | 195 | | | 0804 | 5.5 | 168 | | | 0725 | 6.0 | 183 | | | 0725 | 6.0 | 183 | | | | | | | | | | | |
| | 1919 | 5.7 | 174 | | | 1753 | 6.0 | 183 | | | 1454 | 3.5 | 107 | | | 1328 | 2.9 | 88 | | | 1435 | 3.5 | 107 | | | 1353 | 2.8 | 85 | | | 1353 | 2.8 | 85 | | | | | | | | | | | |
| | ○ | | | | | 2313 | 4.6 | 140 | | | 2212 | 6.6 | 201 | | | 2036 | 6.8 | 207 | | | 2150 | 6.7 | 204 | | | 2053 | 7.0 | 213 | | | 2053 | 7.0 | 213 | | | | | | | | | | | |
| 5 W | 0028 | 4.9 | 149 | | 20 Th | 0521 | 6.6 | 201 | | 5 Sa | 0428 | 4.5 | 137 | | 20 Su | 0246 | 4.4 | 134 | | 5 M | 0429 | 4.2 | 128 | | 20 Tu | 0329 | 3.6 | 110 | | 20 W | 0908 | 5.8 | 177 | | 20 Th | 1513 | 3.0 | 91 | | 20 F | 2204 | 7.4 | 226 | |
| | 0639 | 6.2 | 189 | | | 1238 | 3.4 | 104 | | | 0943 | 5.9 | 180 | | | 0816 | 6.2 | 189 | | | 0946 | 5.5 | 168 | | | 0908 | 5.8 | 177 | | | 0908 | 5.8 | 177 | | | | | | | | | | | |
| | 1422 | 3.6 | 110 | | | 1948 | 6.0 | 183 | | | 1604 | 3.3 | 101 | | | 1450 | 2.9 | 88 | | | 1544 | 3.5 | 107 | | | 1513 | 3.0 | 91 | | | 1513 | 3.0 | 91 | | | | | | | | | | | |
| | 2155 | 6.0 | 183 | | | ○ | | | | | 2257 | 7.1 | 216 | | | 2147 | 7.3 | 223 | | | 2240 | 7.0 | 213 | | | 2204 | 7.4 | 226 | | | 2204 | 7.4 | 226 | | | | | | | | | | | |
| 6 Th | 0333 | 4.9 | 149 | | 21 F | 0117 | 4.9 | 149 | | 6 Su | 0518 | 4.0 | 122 | | 21 M | 0410 | 3.8 | 116 | | 6 Tu | 0521 | 3.6 | 110 | | 21 W | 0447 | 3.0 | 91 | | 21 Th | 1039 | 6.0 | 183 | | 21 F | 1627 | 3.0 | 91 | | 21 Sa | 2303 | 7.7 | 235 | |
| | 0902 | 6.0 | 183 | | | 0705 | 6.2 | 189 | | | 1050 | 6.1 | 186 | | | 0949 | 6.3 | 192 | | | 1057 | 5.7 | 174 | | | 1039 | 6.0 | 183 | | | 1039 | 6.0 | 183 | | | | | | | | | | | |
| | 1605 | 3.4 | 104 | | | 1423 | 3.3 | 101 | | | 1653 | 3.1 | 94 | | | 1600 | 2.7 | 82 | | | 1640 | 3.4 | 104 | | | 1627 | 3.0 | 91 | | | 1627 | 3.0 | 91 | | | | | | | | | | | |
| | 2305 | 6.5 | 198 | | | 2135 | 6.5 | 198 | | | 2331 | 7.5 | 229 | | | 2242 | 7.8 | 238 | | | 2319 | 7.4 | 226 | | | 2303 | 7.7 | 235 | | | 2303 | 7.7 | 235 | | | | | | | | | | | |
| 7 F | 0502 | 4.4 | 134 | | 22 Sa | 0335 | 4.6 | 140 | | 7 M | 0553 | 3.4 | 104 | | 22 Tu | 0509 | 3.0 | 91 | | 7 W | 0559 | 3.1 | 94 | | 22 Th | 0546 | 2.3 | 70 | | 22 F | 1149 | 6.3 | 192 | | 22 Sa | 1729 | 2.9 | 88 | | 22 Su | 2353 | 8.1 | 247 | |
| | 1036 | 6.3 | 192 | | | 0909 | 6.2 | 189 | | | 1136 | 6.4 | 195 | | | 1059 | 6.7 | 204 | | | 1148 | 6.0 | 183 | | | 1149 | 6.3 | 192 | | | 1149 | 6.3 | 192 | | | | | | | | | | | |
| | 1703 | 3.0 | 91 | | | 1547 | 3.0 | 91 | | | 1731 | 3.0 | 91 | | | 1658 | 2.5 | 76 | | | 1725 | 3.3 | 101 | | | 1729 | 2.9 | 88 | | | 1729 | 2.9 | 88 | | | | | | | | | | | |
| | 2342 | 7.1 | 216 | | | 2236 | 7.2 | 219 | | | 2359 | 7.8 | 238 | | | 2328 | 8.4 | 256 | | | 2353 | 7.6 | 232 | | | 2353 | 8.1 | 247 | | | 2353 | 8.1 | 247 | | | | | | | | | | | |
| 8 Sa | 0546 | 3.8 | 116 | | 23 Su | 0445 | 3.8 | 116 | | 8 Tu | 0623 | 3.0 | 91 | | 23 W | 0557 | 2.3 | 70 | | 8 Th | 0632 | 2.7 | 82 | | 23 F | 0635 | 1.7 | 52 | | 23 Sa | 1244 | 6.7 | 204 | | 23 Su | 1822 | 2.8 | 85 | | | | | | |
| | 1128 | 6.7 | 204 | | | 1029 | 6.7 | 204 | | | 1212 | 6.7 | 204 | | | 1155 | 7.1 | 216 | | | 1229 | 6.2 | 189 | | | 1244 | 6.7 | 204 | | | 1244 | 6.7 | 204 | | | | | | | | | | | |
| | 1742 | 2.7 | 82 | | | 1646 | 2.5 | 76 | | | 1803 | 2.8 | 85 | | | 1747 | 2.4 | 73 | | | 1803 | 3.2 | 98 | | | 1822 | 2.8 | 85 | | | 1822 | 2.8 | 85 | | | | | | | | | | | |
| | ○ | | | | | 2320 | 7.9 | 241 | | | ○ | | | | | ○ | | | | | ○ | | | | | 1822 | 2.8 | 85 | | | 1822 | 2.8 | 85 | | | | | | | | | | | |
| 9 Su | 0011 | 7.5 | 229 | | 24 M | 0534 | 3.0 | 91 | | 9 W | 0025 | 8.1 | 247 | | 24 Th | 0010 | 8.8 | 268 | | 9 F | 0024 | 7.9 | 241 | | 24 Sa | 0038 | 8.3 | 253 | | 24 Su | 0718 | 1.3 | 40 | | 24 M | 1331 | 7.0 | 213 | | 24 Tu | 1909 | 2.7 | 82 | |
| | 0618 | 3.3 | 101 | | | 1125 | 7.2 | 219 | | | 0650 | 2.6 | 79 | | | 0641 | 1.7 | 52 | | | 0702 | 2.3 | 70 | | | 0718 | 1.3 | 40 | | | 0718 | 1.3 | 40 | | | | | | | | | | | |
| | 1206 | 7.0 | 213 | | | 1733 | 2.1 | 64 | | | 1245 | 6.9 | 210 | | | 1244 | 7.4 | 226 | | | 1304 | 6.5 | 198 | | | 1331 | 7.0 | 213 | | | 1331 | 7.0 | 213 | | | | | | | | | | | |
| | 1813 | 2.4 | 73 | | | 2359 | 8.5 | 259 | | | 1831 | 2.8 | 85 | | | 1832 | 2.3 | 70 | | | 1838 | 3.1 | 94 | | | 1909 | 2.7 | 82 | | | 1909 | 2.7 | 82 | | | | | | | | | | | |
| 10 M | 0036 | 7.9 | 241 | | 25 Tu | 0615 | 2.3 | 70 | | 10 Th | 0050 | 8.3 | 253 | | 25 F | 0050 | 9.0 | 274 | | 10 Sa | 0054 | 8.1 | 247 | | 25 Su | 0119 | 8.5 | 259 | | 25 M | 0758 | 1.0 | 30 | | 25 Tu | 1414 | 7.2 | 219 | | 25 W | 1951 | 2.7 | 82 | |
| | 0646 | 2.8 | 85 | | | 1212 | 7.7 | 235 | | | 0717 | 2.3 | 70 | | | 0722 | 1.3 | 40 | | | 0731 | 1.9 | 58 | | | 0758 | 1.0 | 30 | | | 0758 | 1.0 | 30 | | | | | | | | | | | |
| | 1238 | 7.3 | 223 | | | 1814 | 1.8 | 55 | | | 1315 | 7.0 | 213 | | | 1330 | 7.6 | 232 | | | 1338 | 6.7 | 204 | | | 1414 | 7.2 | 219 | | | 1414 | 7.2 | 219 | | | | | | | | | | | |
| | 1840 | 2.3 | 70 | | | ○ | | | | | 1859 | 2.8 | 85 | | | ○ | | | | | 1911 | 3.1 | 94 | | | 1951 | 2.7 | 82 | | | 1951 | 2.7 | 82 | | | | | | | | | | | |
| 11 Tu | 0059 | 8.2 | 250 | | 26 W | 0035 | 9.0 | 274 | | 11 F | 0114 | 8.4 | 256 | | 26 Sa | 0128 | 9.1 | 277 | | 11 Su | 0123 | 8.2 | 250 | | 26 M | 0157 | 8.5 | 259 | | 26 Tu | 0835 | 0.9 | 27 | | 26 W | 1453 | 7.2 | 219 | | 26 Th | 2030 | 2.8 | 85 | |
| | 0711 | 2.5 | 76 | | | 0655 | 1.7 | 52 | | | 0743 | 2.1 | 64 | | | 0803 | 1.1 | 34 | | | 0800 | | | | | | | | | | | | | | | | | | | | | | | |

Musu River (Outer Bar), Sumatra, 2011

Times and Heights of High and Low Waters

| January | | | | February | | | | March | | | | | | | | | | | | | | | |
|-----------------|------------------------------|---------------------------|--------------------------|-----------------|------------------------------|---------------------------|--------------------------|-----------------|------------------------------|---------------------------|--------------------------|-----------------|------------------------------|---------------------------|--------------------------|-----------------|------------------------------|---------------------------|--------------------------|-----------------|------------------------------|---------------------------|--------------------------|
| Time | | Height | | Time | | Height | | Time | | Height | | Time | | Height | | | | | | | | | |
| | h m | ft | cm | | h m | ft | cm | | h m | ft | cm | | h m | ft | cm | | | | | | | | |
| 1 Sa | 0533 2046 | 10.5 2.6 | 320 80 | 16 Su | 0543 2012 | 10.2 3.3 | 310 100 | 1 Tu | 0657 2140 | 12.5 2.3 | 380 70 | 16 W | 0615 2053 | 12.1 2.6 | 370 80 | 1 Tu | 0544 2006 | 11.5 3.3 | 350 100 | 16 W | 0448 1845 | 11.5 3.3 | 350 100 |
| 2 Su | 0624 2122 | 11.8 2.0 | 360 60 | 17 M | 0610 2040 | 11.2 2.6 | 340 80 | 2 W | 0735 2232 | 12.5 2.6 | 380 80 | 17 Th | 0658 2212 | 12.5 2.6 | 380 80 | 2 W | 0625 2128 | 11.5 3.6 | 350 110 | 17 Th | 0539 2058 | 11.5 3.6 | 350 110 |
| 3 M | 0710 2202 | 12.5 1.6 | 380 50 | 18 Tu | 0644 2119 | 12.1 2.3 | 370 70 | 3 Th | 0806 2320 | 12.1 3.0 | 370 90 | 18 F | 0738 2326 | 12.5 2.6 | 380 80 | 3 Th | 0658 2239 | 11.2 4.3 | 340 130 | 18 F | 0625 2243 | 11.2 3.6 | 340 110 |
| 4 Tu | 0751 2243 | 12.8 1.3 | 390 40 | 19 W | 0721 2207 | 12.8 1.6 | 390 50 | 4 F | 0831 | 11.5 | 350 | 19 Sa | 0817 | 11.8 | 360 | 4 F | 0723 1550 1804 2338 | 10.5 5.6 5.9 4.6 | 320 170 180 140 | 19 Sa | 0705 1425 1743 | 10.5 6.2 6.6 | 320 190 200 |
| 5 W | 0829 2321 | 12.8 1.6 | 390 50 | 20 Th | 0800 2301 | 13.1 1.6 | 400 50 | 5 Sa | 0002 0851 | 3.6 11.2 | 110 340 | 20 Su | 0035 0851 1605 1856 | 3.0 10.8 6.6 6.9 | 90 330 200 210 | 5 Sa | 0743 1516 1913 | 10.2 5.6 6.2 | 310 170 190 | 20 Su | 0007 0738 1356 1850 | 3.9 9.5 6.2 7.9 | 120 290 190 240 |
| 6 Th | 0902 2357 | 12.5 2.0 | 380 60 | 21 F | 0840 2358 | 13.1 1.6 | 400 50 | 6 Su | 0041 0908 1729 1954 | 4.3 10.5 5.9 5.9 | 130 320 180 180 | 21 M | 0143 0920 1540 2021 | 3.6 9.8 6.6 7.9 | 110 300 200 240 | 6 Su | 0029 0759 1506 2003 | 4.9 9.5 5.6 6.9 | 150 290 170 210 | 21 M | 0122 0804 1346 1951 | 4.3 8.5 5.9 8.9 | 130 260 180 270 |
| 7 F | 0930 | 12.1 | 370 | 22 Sa | 0919 | 12.5 | 380 | 7 M | 0117 0922 1712 2120 | 4.9 9.8 5.6 6.2 | 150 300 170 190 | 22 Tu | 0253 0940 1535 2139 | 4.6 8.5 5.9 8.5 | 140 260 180 260 | 7 M | 0116 0813 1504 2046 | 5.6 9.2 5.6 7.2 | 170 280 170 220 | 22 Tu | 0236 0819 1349 2050 | 4.9 7.2 4.9 9.8 | 150 220 150 300 |
| 8 Sa | 0028 0953 | 2.6 11.5 | 80 350 | 23 Su | 0058 0956 | 2.3 11.8 | 70 360 | 8 Tu | 0153 0934 1709 2239 | 5.6 9.5 5.6 6.6 | 170 290 170 200 | 23 W | 0411 0943 1541 2301 | 5.6 7.5 4.9 9.2 | 170 230 150 280 | 8 Tu | 0204 0824 1506 2129 | 5.9 8.5 5.2 7.9 | 180 260 160 240 | 23 W | 0359 0815 1401 2152 | 5.6 6.6 3.9 10.5 | 170 200 120 320 |
| 9 Su | 0054 1012 | 3.3 10.8 | 100 330 | 24 M | 0200 1029 1824 2026 | 3.3 10.5 6.6 6.6 | 100 320 200 200 | 9 W | 0233 0940 1712 | 6.2 8.9 5.2 | 190 270 160 | 24 Th | 0606 0902 1559 | 6.6 6.9 4.3 | 200 210 130 | 9 W | 0257 0828 1508 2214 | 6.2 7.9 4.9 8.5 | 190 240 150 260 | 24 Th | 1420 2300 | 3.3 10.8 | 100 330 |
| 10 M | 0110 1029 2047 2159 | 4.3 10.2 4.9 4.9 | 130 310 150 150 | 25 Tu | 0307 1054 1748 2243 | 4.3 9.2 6.2 7.2 | 130 280 190 220 | 10 Th | 0005 0326 0931 1716 | 7.2 6.9 8.2 4.9 | 220 210 250 150 | 25 F | 0033 1625 | 9.8 3.6 | 300 110 | 10 Th | 0407 0814 1511 2305 | 6.9 7.2 4.6 8.9 | 210 220 140 270 | 25 F | 1446 | 2.6 | 80 |
| 11 Tu | 0055 1042 1946 | 4.9 9.8 4.9 | 150 300 150 | 26 W | 0428 1102 1744 | 5.6 8.2 5.6 | 170 250 170 | 11 F | 0144 0540 0810 1722 | 7.9 7.9 7.9 4.6 | 240 240 240 140 | 26 Sa | 0213 1701 | 10.5 3.0 | 320 90 | 11 F | 1515 | 4.3 | 130 | 26 Sa | 0013 1516 | 11.2 2.6 | 340 80 |
| 12 W | 1049 1939 | 9.2 4.9 | 280 150 | 27 Th | 0049 0645 1024 1756 | 8.2 6.9 7.2 4.6 | 250 210 220 140 | 12 Sa | 0304 1733 | 8.9 3.9 | 270 120 | 27 Su | 0343 1748 | 11.2 3.0 | 340 90 | 12 Sa | 0008 1525 | 9.5 3.6 | 290 110 | 27 Su | 0135 1549 | 11.2 2.6 | 340 80 |
| 13 Th | 1038 1941 | 8.5 4.6 | 260 140 | 28 F | 0248 1823 | 9.2 3.6 | 280 110 | 13 Su | 0400 1756 | 9.8 3.6 | 300 110 | 28 M | 0452 1848 | 11.5 3.0 | 350 90 | 13 Su | 0122 1545 | 10.2 3.3 | 310 100 | 28 M | 0254 1623 | 11.2 3.3 | 340 100 |
| 14 F | 0714 1946 | 8.2 4.3 | 250 130 | 29 Sa | 0416 1902 | 10.5 3.0 | 320 90 | 14 M | 0447 1836 | 10.8 3.3 | 330 100 | 14 M | 0240 1617 | 10.5 3.0 | 320 90 | 14 M | 0240 1617 | 10.5 3.0 | 320 90 | 29 Tu | 0400 1655 | 10.8 3.9 | 330 120 |
| 15 Sa | 0531 1955 | 9.2 3.9 | 280 120 | 30 Su | 0521 1951 | 11.5 2.6 | 350 80 | 15 Tu | 0532 1936 | 11.8 2.6 | 360 80 | 15 Tu | 0349 1709 | 11.2 3.0 | 340 90 | 15 Tu | 0349 1709 | 11.2 3.0 | 340 90 | 30 W | 0450 1609 | 10.5 4.6 | 320 140 |
| | | | | 31 M | 0613 2045 | 12.1 2.3 | 370 70 | | | | | | | | | | | | | 31 Th | 0527 1413 1818 2128 | 10.2 5.2 5.6 5.2 | 310 160 170 160 |

Time meridian 105° E. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to the chart datum of soundings.

Djakarta (Tandjungpriok), Java, 2011

Times and Heights of High and Low Waters

| January | | | | February | | | | March | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|------|--------|-----|----------|-----------------|--------|-----|-------|----|-----------------|------|------|-----|--------|-----------------|------|-----|-----|----|-----------------|------|-----|----|----|-----------------|------|------|-----|----|----|
| Time | | Height | | Time | | Height | | Time | | Height | | Time | | Height | | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | | | | | | | |
| 1 Sa | 0846 | 3.7 | 113 | 15 | 16 Su | 0824 | 3.4 | 104 | 18 | 1 Tu | 0933 | 3.5 | 107 | 21 | 16 W | 0855 | 3.5 | 107 | 24 | 1 Tu | 0846 | 3.2 | 98 | 27 | 16 W | 0751 | 3.1 | 94 | 30 | |
| | 1816 | 0.5 | 15 | | | 1758 | 0.6 | 18 | | | 1823 | 0.7 | 21 | | | 1740 | 0.8 | 24 | | | 1658 | 0.9 | 27 | | | 1608 | 1.0 | 30 | | |
| 2 Su | 0917 | 3.7 | 113 | 15 | 17 M | 0848 | 3.6 | 110 | 18 | 2 W | 0957 | 3.4 | 104 | 24 | 17 Th | 0928 | 3.4 | 104 | 27 | 2 W | 0914 | 3.0 | 91 | 34 | 17 Th | 0832 | 3.0 | 91 | 34 | |
| | 1844 | 0.5 | 15 | | | 1818 | 0.6 | 18 | | | 1846 | 0.8 | 24 | | | 1756 | 0.9 | 27 | | | 1717 | 1.1 | 34 | | | 1620 | 1.1 | 34 | 61 | |
| 3 M | 0946 | 3.7 | 113 | 15 | 18 Tu | 0915 | 3.7 | 113 | 15 | 3 Th | 1014 | 3.2 | 98 | 30 | 18 F | 1000 | 3.2 | 98 | 34 | 3 Th | 0937 | 2.9 | 88 | 37 | 18 F | 0225 | 1.8 | 55 | 85 | |
| | 1914 | 0.5 | 15 | | | 1842 | 0.5 | 15 | | | 1906 | 1.0 | 30 | | | 1808 | 1.1 | 34 | | | 1731 | 1.2 | 37 | | | 0913 | 2.8 | 85 | 40 | |
| 4 Tu | 1012 | 3.6 | 110 | 18 | 19 W | 0943 | 3.7 | 113 | 18 | 4 F | 1024 | 3.0 | 91 | 34 | 19 Sa | 0024 | 1.8 | 55 | 52 | 4 F | 0013 | 1.9 | 58 | 55 | 19 Sa | 0338 | 1.7 | 52 | 76 | |
| | 1944 | 0.6 | 18 | | | 1907 | 0.6 | 18 | | | 1920 | 1.1 | 34 | | | 0248 | 1.7 | 52 | 88 | | 0242 | 1.8 | 55 | | | 0952 | 2.5 | 76 | 46 | |
| 5 W | 1034 | 3.5 | 107 | 21 | 20 Th | 1012 | 3.6 | 110 | 21 | 5 Sa | 1023 | 2.8 | 85 | 40 | 20 Su | 0028 | 2.0 | 61 | 46 | 5 Sa | 0009 | 2.0 | 61 | 61 | 20 Su | 0454 | 1.6 | 49 | 67 | |
| | 2012 | 0.7 | 21 | | | 1930 | 0.7 | 21 | | | 1921 | 1.3 | 40 | | | 0413 | 1.8 | 55 | 76 | | 0312 | 1.9 | 58 | | | 1031 | 2.2 | 67 | 79 | |
| 6 Th | 1049 | 3.3 | 101 | 24 | 21 F | 1040 | 3.4 | 104 | 27 | 6 Su | 1008 | 2.6 | 79 | 43 | 21 M | 0055 | 2.2 | 67 | 64 | 6 Su | 0009 | 2.0 | 61 | 61 | 21 M | 0632 | 1.6 | 49 | 55 | |
| | 2039 | 0.8 | 24 | | | 1948 | 0.9 | 27 | | | 1901 | 1.4 | 43 | | | 0603 | 2.0 | 61 | 49 | | 0344 | 1.9 | 58 | | | 1105 | 1.8 | 55 | 49 | |
| 7 F | 1055 | 3.2 | 98 | 30 | 22 Sa | 1101 | 3.1 | 94 | 34 | 7 M | 0936 | 2.5 | 76 | 46 | 22 Tu | 0144 | 2.4 | 73 | 43 | 7 M | 0421 | 2.0 | 61 | 64 | 22 Tu | 1328 | 1.4 | 43 | 37 | |
| | 2103 | 1.0 | 30 | | | 1958 | 1.1 | 34 | | | 1813 | 1.5 | 46 | | | 1622 | 1.4 | 43 | | | 0922 | 2.1 | 64 | | | 1611 | 1.6 | 49 | 67 | |
| 8 Sa | 1047 | 3.0 | 91 | 34 | 23 Su | 1105 | 2.8 | 85 | 40 | 8 Tu | 0848 | 2.4 | 73 | 46 | 23 W | 0304 | 2.6 | 79 | 37 | 8 Tu | 0520 | 1.9 | 58 | 61 | 23 W | 0017 | 2.9 | 88 | 37 | |
| | 2118 | 1.1 | 34 | | | 1956 | 1.3 | 40 | | | 1719 | 1.5 | 46 | | | 1513 | 1.2 | 37 | | | 0807 | 2.0 | 61 | | | 1244 | 1.2 | 37 | 37 | |
| 9 Su | 1021 | 2.8 | 85 | 40 | 24 M | 1000 | 2.4 | 73 | 43 | 9 W | 0753 | 2.4 | 73 | 43 | 24 Th | 0438 | 2.8 | 85 | 30 | 9 W | 1459 | 1.4 | 43 | 76 | 24 Th | 0116 | 2.9 | 88 | 30 | |
| | 2115 | 1.3 | 40 | | | 1933 | 1.4 | 43 | | | 1642 | 1.4 | 43 | | | 1507 | 1.0 | 30 | | | 2358 | 2.5 | 76 | | | 1313 | 1.0 | 30 | 30 | |
| 10 M | 0941 | 2.7 | 82 | 43 | 25 Tu | 0633 | 2.5 | 76 | 43 | 10 Th | 0710 | 2.5 | 76 | 37 | 25 F | 0551 | 3.0 | 91 | 24 | 10 Th | 1449 | 1.3 | 40 | 40 | 25 F | 0245 | 2.9 | 88 | 24 | |
| | 2034 | 1.4 | 43 | | | 1823 | 1.4 | 43 | | | 1625 | 1.2 | 37 | | | 1524 | 0.8 | 24 | | | | | | | | 1344 | 0.8 | 24 | 24 | |
| 11 Tu | 0900 | 2.7 | 82 | 43 | 26 W | 0623 | 2.8 | 85 | 37 | 11 F | 0654 | 2.7 | 82 | 30 | 26 Sa | 0647 | 3.1 | 94 | 21 | 11 F | 0051 | 2.5 | 76 | 34 | 26 Sa | 0432 | 2.9 | 88 | 24 | |
| | 1907 | 1.4 | 43 | | | 1653 | 1.2 | 37 | | | 1622 | 1.0 | 30 | | | 1548 | 0.7 | 21 | | | 1451 | 1.1 | 34 | | | 1414 | 0.8 | 24 | 24 | |
| 12 W | 0827 | 2.7 | 82 | 40 | 27 Th | 0649 | 3.1 | 94 | 27 | 12 Sa | 0702 | 2.9 | 88 | 27 | 27 Su | 0733 | 3.2 | 98 | 21 | 12 Sa | 0345 | 2.6 | 79 | 30 | 27 Su | 0553 | 2.9 | 88 | 27 | |
| | 1803 | 1.3 | 40 | | | 1635 | 0.9 | 27 | | | 1629 | 0.9 | 27 | | | 1612 | 0.7 | 21 | | | 1502 | 1.0 | 30 | | | 1442 | 0.9 | 27 | 27 | |
| 13 Th | 0807 | 2.8 | 85 | 34 | 28 F | 0723 | 3.3 | 101 | 21 | 13 Su | 0723 | 3.1 | 94 | 24 | 28 M | 0812 | 3.2 | 98 | 24 | 13 Su | 0527 | 2.8 | 85 | 27 | 28 M | 0652 | 2.8 | 85 | 27 | |
| | 1738 | 1.1 | 34 | | | 1647 | 0.7 | 21 | | | 1642 | 0.8 | 24 | | | 1636 | 0.8 | 24 | | | 1517 | 0.9 | 27 | | | 1506 | 0.9 | 27 | 27 | |
| 14 F | 0801 | 3.0 | 91 | 30 | 29 Sa | 0759 | 3.5 | 107 | 18 | 14 M | 0751 | 3.3 | 101 | 21 | 29 Tu | 0622 | 2.9 | 88 | 24 | 14 M | 0622 | 2.9 | 88 | 24 | 29 Tu | 0118 | 2.1 | 64 | 64 | |
| | 1734 | 1.0 | 30 | | | 1708 | 0.6 | 18 | | | 1700 | 0.7 | 21 | | | 1534 | 0.8 | 24 | | | 1534 | 0.8 | 24 | | | 0739 | 2.8 | 85 | 85 | |
| 15 Sa | 0808 | 3.2 | 98 | 24 | 30 Su | 0833 | 3.5 | 107 | 18 | 15 Tu | 0822 | 3.4 | 104 | 21 | 30 W | 0708 | 3.1 | 94 | 27 | 15 Tu | 0708 | 3.1 | 94 | 27 | 30 W | 0218 | 2.0 | 61 | 61 | |
| | 1742 | 0.8 | 24 | | | 1733 | 0.6 | 18 | | | 1720 | 0.7 | 21 | | | 1552 | 0.9 | 27 | | | 1552 | 0.9 | 27 | | | 0818 | 2.6 | 79 | 79 | |
| | | | | | 31 M | 0905 | 3.5 | 107 | 18 | | | | | | | | | | | | | | | | | | 1544 | 1.2 | 37 | 37 |
| | | | | | | 1758 | 0.6 | 18 | | | | | | | | | | | | | | | | | | | 2232 | 2.2 | 67 | 67 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | 0307 | 1.9 | 58 | 58 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | 0852 | 2.5 | 76 | 76 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | 1555 | 1.4 | 43 | 43 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | 2234 | 2.3 | 70 | 70 |

Time meridian 105° E. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to the chart datum of soundings.

Djakarta (Tandjungpriok), Java, 2011

Times and Heights of High and Low Waters

| July | | | August | | | September | | | | | | | | | | | | | | | | | | | | | |
|-----------------|--------|-----|--------|--------|-----------------|-----------|--------|-----|------|-----------------|------|-----|-----|----|-----------------|------|-----|----|----------------|-----------------|------|-----|----------------|-----------------|------|-----|----|
| Time | Height | | Time | Height | | Time | Height | | Time | Height | | | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | | | | |
| 1 F | 0723 | 0.6 | 18 | | 16 Sa | 0726 | 0.7 | 21 | | 1 M | 0656 | 1.0 | 30 | | 16 Tu | 2144 | 2.4 | 73 | 1 Th | 0428 | 1.5 | 46 | 16 F | 0220 | 1.4 | 43 | |
| ● | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 Sa | 0749 | 0.6 | 18 | | 17 Su | 0748 | 0.9 | 27 | | 2 Tu | 0701 | 1.2 | 37 | | 17 W | 0553 | 1.5 | 46 | | 2 F | 0314 | 1.4 | 43 | 17 Sa | 0202 | 1.3 | 40 |
| | 2226 | 3.5 | 107 | | | 2244 | 3.0 | 91 | | | 2241 | 2.6 | 79 | | | 2042 | 2.3 | 70 | | | 1331 | 2.8 | 85 | | 1141 | 2.7 | 82 |
| 3 Su | 0814 | 0.7 | 21 | | 18 M | 0805 | 1.0 | 30 | | 3 W | 0652 | 1.3 | 40 | | 18 Th | 0503 | 1.5 | 46 | | 3 Sa | 0220 | 1.1 | 34 | 18 Su | 0203 | 1.1 | 34 |
| | 2249 | 3.3 | 101 | | | 2235 | 2.8 | 85 | | | 2143 | 2.3 | 70 | | | 1910 | 2.3 | 70 | | | 1448 | 2.9 | 88 | | 1209 | 2.7 | 82 |
| 4 M | 0835 | 0.9 | 27 | | 19 Tu | 0812 | 1.2 | 37 | | 4 Th | 0620 | 1.4 | 43 | | 19 F | 0412 | 1.4 | 43 | | 4 Su | 0223 | 0.8 | 24 | 19 M | 0213 | 1.0 | 30 |
| | 2305 | 3.1 | 94 | | | 2156 | 2.6 | 79 | | | 1612 | 2.4 | 73 | | | 1759 | 2.3 | 70 | | | 1623 | 3.0 | 91 | | 1302 | 2.8 | 85 |
| 5 Tu | 0848 | 1.0 | 30 | | 20 W | 0758 | 1.4 | 43 | | 5 F | 0508 | 1.3 | 40 | | 20 Sa | 0344 | 1.3 | 40 | | 5 M | 0244 | 0.7 | 21 | 20 Tu | 0227 | 0.9 | 27 |
| | 2257 | 2.8 | 85 | | | 2053 | 2.5 | 76 | | | 1654 | 2.7 | 82 | | | 1740 | 2.5 | 76 | | | 1742 | 3.1 | 94 | | 1524 | 2.8 | 85 |
| 6 W | 0848 | 1.2 | 37 | | 21 Th | 0658 | 1.5 | 46 | | 6 Sa | 0403 | 1.1 | 34 | | 21 Su | 0337 | 1.1 | 34 | | 6 Tu | 0309 | 0.6 | 18 | 21 W | 0243 | 0.8 | 24 |
| | 2124 | 2.5 | 76 | | | 2005 | 2.6 | 79 | | | 1743 | 3.0 | 91 | | | 1753 | 2.6 | 79 | | | 1842 | 3.2 | 98 | | 1714 | 2.8 | 85 |
| 7 Th | 0824 | 1.3 | 40 | | 22 F | 0539 | 1.4 | 43 | | 7 Su | 0353 | 0.8 | 24 | | 22 M | 0342 | 1.0 | 30 | | 7 W | 0334 | 0.7 | 21 | 22 Th | 0259 | 0.8 | 24 |
| | 1916 | 2.6 | 79 | | | 1941 | 2.6 | 79 | | | 1831 | 3.2 | 98 | | | 1819 | 2.8 | 85 | | | 1930 | 3.1 | 94 | | 1816 | 2.9 | 88 |
| 8 F | 0701 | 1.4 | 43 | | 23 Sa | 0459 | 1.3 | 40 | | 8 M | 0408 | 0.6 | 18 | | 23 Tu | 0353 | 0.8 | 24 | | 8 Th | 0357 | 0.7 | 21 | 23 F | 0315 | 0.8 | 24 |
| ○ | | | | | | 1932 | 2.8 | 85 | | | 1915 | 3.4 | 104 | | | 1848 | 3.0 | 91 | | | 2011 | 3.0 | 91 | | 1907 | 2.9 | 88 |
| 9 Sa | 0517 | 1.1 | 34 | | 24 Su | 0450 | 1.1 | 34 | | 9 Tu | 0430 | 0.6 | 18 | | 24 W | 0408 | 0.8 | 24 | | 9 F | 0417 | 0.9 | 27 | 24 Sa | 0329 | 0.9 | 27 |
| | 1912 | 3.2 | 98 | | | 1934 | 2.9 | 88 | | | 1956 | 3.5 | 107 | | | 1920 | 3.1 | 94 | | | 1141 | 2.1 | 64 | | 1115 | 2.1 | 64 |
| 10 Su | 0500 | 0.9 | 27 | | 25 M | 0455 | 0.9 | 27 | | 10 W | 0454 | 0.5 | 15 | | 25 Th | 0425 | 0.7 | 21 | | 10 Sa | 0433 | 1.0 | 30 | 25 Su | 0338 | 1.1 | 34 |
| | 1940 | 3.4 | 104 | | | 1946 | 3.1 | 94 | | | 2033 | 3.5 | 107 | | | 1953 | 3.2 | 98 | | | 1134 | 2.1 | 64 | | 1031 | 2.2 | 67 |
| 11 M | 0514 | 0.6 | 18 | | 26 Tu | 0507 | 0.8 | 24 | | 11 Th | 0518 | 0.6 | 18 | | 26 F | 0443 | 0.7 | 21 | | 11 Su | 0444 | 1.2 | 37 | 26 M | 0341 | 1.3 | 40 |
| | 2012 | 3.6 | 110 | | | 2004 | 3.2 | 98 | | | 2106 | 3.4 | 104 | | | 2026 | 3.2 | 98 | | | 1137 | 2.2 | 67 | | 1020 | 2.4 | 73 |
| 12 Tu | 0538 | 0.5 | 15 | | 27 W | 0524 | 0.7 | 21 | | 12 F | 0541 | 0.7 | 21 | | 27 Sa | 0459 | 0.8 | 24 | | 12 M | 0446 | 1.4 | 43 | 27 Tu | 0336 | 1.4 | 43 |
| | 2047 | 3.7 | 113 | | | 2027 | 3.4 | 104 | | | 2134 | 3.2 | 98 | | | 2059 | 3.2 | 98 | | | 1631 | 2.0 | 61 | | 1026 | 2.6 | 79 |
| 13 W | 0605 | 0.4 | 12 | | 28 Th | 0544 | 0.6 | 18 | | 13 Sa | 0601 | 0.9 | 27 | | 28 Su | 0512 | 1.0 | 30 | | 13 Tu | 0434 | 1.5 | 46 | 28 W | 0316 | 1.5 | 46 |
| | 2120 | 3.7 | 113 | | | 2053 | 3.5 | 107 | | | 2155 | 3.1 | 94 | | | 2131 | 3.0 | 91 | | | 1139 | 2.3 | 70 | | 1044 | 2.8 | 85 |
| 14 Th | 0633 | 0.5 | 15 | | 29 F | 0605 | 0.6 | 18 | | 14 Su | 0616 | 1.0 | 30 | | 29 M | 0520 | 1.2 | 37 | | 14 W | 0400 | 1.6 | 49 | 29 Th | 0225 | 1.5 | 46 |
| | 2150 | 3.6 | 110 | | | 2120 | 3.5 | 107 | | | 2208 | 2.8 | 85 | | | 1146 | 2.0 | 61 | | | 1133 | 2.4 | 73 | | 1111 | 3.1 | 94 |
| 15 F | 0700 | 0.6 | 18 | | 30 Sa | 0625 | 0.7 | 21 | | 15 M | 0624 | 1.2 | 37 | | 30 Tu | 0519 | 1.3 | 40 | | 15 Th | 0306 | 1.6 | 49 | 30 F | 1147 | 3.2 | 98 |
| ○ | 2216 | 3.5 | 107 | | | 2148 | 3.4 | 104 | | | 2208 | 2.6 | 79 | | | 1149 | 2.2 | 67 | | | 1126 | 2.5 | 76 | | 2349 | 1.0 | 30 |
| | | | | | | 0643 | 0.8 | 24 | | 31 Su | 0643 | 0.8 | 24 | | 31 W | 0505 | 1.5 | 46 | | | | | | | | | |
| | | | | | | 2214 | 3.2 | 98 | | | 2214 | 3.2 | 98 | | | 1208 | 2.4 | 73 | | | | | | | | | |
| | | | | | | ● | | | | | 1845 | 1.8 | 55 | | | 2212 | 1.9 | 58 | | | | | | | | | |

Time meridian 105° E. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to the chart datum of soundings.

Surabaya Strait, Djamuang Reef, Java, 2011

Times and Heights of High and Low Waters

| January | | | | February | | | | March | | | | | | | | | | | | | | | | | | | | | |
|-----------------|------|--------|-----|----------|-----------------|--------|-----|-------|-----|-----------------|------|------|-----|--------|-----------------|------|-----|-----|-----|-----------------|------|-----|-----|-----|-----------------|------|-----|-----|-----|
| Time | | Height | | Time | | Height | | Time | | Height | | Time | | Height | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | | | | | | |
| 1 Sa | 0621 | 1.3 | 40 | 170 | 16 Su | 0557 | 1.0 | 30 | 180 | 1 Tu | 0619 | 0.7 | 20 | 180 | 16 W | 0556 | 0.7 | 20 | 180 | 1 Tu | 0506 | 1.0 | 30 | 170 | 16 W | 0435 | 1.0 | 30 | |
| | 2001 | 5.6 | 170 | | | 1930 | 5.9 | 180 | | | 1921 | 5.9 | 180 | | | 2007 | 5.6 | 170 | | | 1551 | 5.6 | 170 | | | 1427 | 5.2 | 160 | |
| 2 Su | 0635 | 0.7 | 20 | 180 | 17 M | 0614 | 0.7 | 20 | 190 | 2 W | 0641 | 0.7 | 20 | 180 | 17 Th | 0622 | 0.7 | 20 | 170 | 2 W | 0530 | 1.0 | 30 | 160 | 17 Th | 0503 | 1.3 | 40 | 150 |
| | 2003 | 5.9 | 180 | | | 2000 | 6.2 | 190 | | | 2006 | 5.9 | 180 | | | 2058 | 5.6 | 170 | | | 1650 | 5.2 | 160 | | | 1415 | 4.9 | 150 | |
| 3 M | 0655 | 0.3 | 10 | 190 | 18 Tu | 0637 | 0.3 | 10 | 190 | 3 Th | 0703 | 0.7 | 20 | 180 | 18 F | 0647 | 1.0 | 30 | 160 | 3 Th | 0551 | 1.3 | 40 | 160 | 18 F | 0529 | 1.6 | 50 | 140 |
| | 2016 | 6.2 | 190 | | | 2032 | 6.2 | 190 | | | 2047 | 5.9 | 180 | | | 2140 | 5.2 | 160 | | | 1917 | 5.2 | 160 | | | 1358 | 4.6 | 140 | |
| 4 Tu | 0718 | 0.3 | 10 | 200 | 19 W | 0702 | 0.3 | 10 | 190 | 4 F | 0721 | 1.0 | 30 | 170 | 19 Sa | 0708 | 1.3 | 40 | 150 | 4 F | 0609 | 1.3 | 40 | 150 | 19 Sa | 1358 | 4.6 | 140 | |
| | 2037 | 6.6 | 200 | | | 2103 | 6.2 | 190 | | | 2123 | 5.6 | 170 | | | 2213 | 4.9 | 150 | | | 2049 | 4.9 | 150 | | | 1834 | 4.3 | 130 | |
| 5 W | 0741 | 0.3 | 10 | 200 | 20 Th | 0728 | 0.3 | 10 | 190 | 5 Sa | 0735 | 1.3 | 40 | 160 | 20 Su | 0721 | 2.0 | 60 | 130 | 5 Sa | 0621 | 2.0 | 60 | 140 | 20 Su | 1358 | 4.6 | 140 | |
| | 2102 | 6.6 | 200 | | | 2132 | 6.2 | 190 | | | 2153 | 5.2 | 160 | | | 1710 | 4.3 | 130 | | | 2148 | 4.6 | 140 | | | 2127 | 4.3 | 130 | |
| 6 Th | 0804 | 0.3 | 10 | 200 | 21 F | 0753 | 0.7 | 20 | 180 | 6 Su | 0741 | 1.6 | 50 | 150 | 21 M | 0720 | 2.3 | 70 | 130 | 6 Su | 0623 | 2.3 | 70 | 130 | 21 M | 1358 | 4.6 | 140 | |
| | 2128 | 6.6 | 200 | | | 2153 | 5.9 | 180 | | | 2211 | 4.9 | 150 | | | 1553 | 4.3 | 130 | | | 1423 | 4.3 | 130 | | | 1834 | 4.3 | 130 | |
| 7 F | 0825 | 0.7 | 20 | 190 | 22 Sa | 0816 | 1.0 | 30 | 170 | 7 M | 0736 | 2.0 | 60 | 140 | 22 Tu | 0646 | 2.6 | 80 | 130 | 7 M | 0613 | 2.6 | 80 | 130 | 22 Tu | 1358 | 4.6 | 140 | |
| | 2152 | 6.2 | 190 | | | 2203 | 5.6 | 170 | | | 2204 | 4.6 | 140 | | | 1509 | 4.3 | 130 | | | 1336 | 4.3 | 130 | | | 2127 | 4.3 | 130 | |
| 8 Sa | 0841 | 1.0 | 30 | 180 | 23 Su | 0832 | 1.3 | 40 | 160 | 8 Tu | 0714 | 2.3 | 70 | 130 | 23 W | 0520 | 3.0 | 90 | 140 | 8 Tu | 0544 | 3.0 | 90 | 140 | 23 W | 1358 | 4.6 | 140 | |
| | 2209 | 5.9 | 180 | | | 2149 | 5.2 | 160 | | | 1630 | 4.3 | 130 | | | 1429 | 4.6 | 140 | | | 1313 | 4.6 | 140 | | | 1834 | 4.3 | 130 | |
| 9 Su | 0850 | 1.3 | 40 | 170 | 24 M | 0835 | 2.0 | 60 | 150 | 9 W | 0632 | 2.6 | 80 | 140 | 24 Th | 0400 | 2.6 | 80 | 150 | 9 W | 0445 | 3.0 | 90 | 150 | 24 Th | 1358 | 4.6 | 140 | |
| | 2216 | 5.6 | 170 | | | 2058 | 4.9 | 150 | | | 1542 | 4.6 | 140 | | | 1404 | 4.9 | 150 | | | 1306 | 4.9 | 150 | | | 2127 | 4.3 | 130 | |
| 10 M | 0847 | 1.6 | 50 | 160 | 25 Tu | 0808 | 2.3 | 70 | 140 | 10 Th | 0534 | 2.3 | 70 | 150 | 25 F | 0344 | 2.0 | 60 | 160 | 10 Th | 0304 | 2.6 | 80 | 160 | 25 F | 1358 | 4.6 | 140 | |
| | 2158 | 5.2 | 160 | | | 1955 | 4.6 | 140 | | | 1535 | 4.9 | 150 | | | 1400 | 5.2 | 160 | | | 1311 | 5.2 | 160 | | | 1834 | 4.3 | 130 | |
| 11 Tu | 0827 | 2.0 | 60 | 150 | 26 W | 0653 | 2.6 | 80 | 140 | 11 F | 0450 | 2.0 | 60 | 160 | 26 Sa | 0355 | 1.6 | 50 | 170 | 11 F | 0217 | 2.3 | 70 | 170 | 26 Sa | 1358 | 4.6 | 140 | |
| | 2101 | 4.9 | 150 | | | 1905 | 4.6 | 140 | | | 1549 | 5.2 | 160 | | | 1413 | 5.6 | 170 | | | 1324 | 5.6 | 170 | | | 2127 | 4.3 | 130 | |
| 12 W | 0743 | 2.3 | 70 | 150 | 27 Th | 0543 | 2.3 | 70 | 150 | 12 Sa | 0438 | 1.6 | 50 | 170 | 27 Su | 0416 | 1.3 | 40 | 170 | 12 Sa | 0235 | 2.0 | 60 | 170 | 27 Su | 1358 | 4.6 | 140 | |
| | 1944 | 4.9 | 150 | | | 1822 | 4.9 | 150 | | | 1616 | 5.6 | 170 | | | 1438 | 5.6 | 170 | | | 1341 | 5.6 | 170 | | | 1834 | 4.3 | 130 | |
| 13 Th | 0645 | 2.3 | 70 | 150 | 28 F | 0520 | 2.0 | 60 | 160 | 13 Su | 0447 | 1.3 | 40 | 170 | 28 M | 0441 | 1.0 | 30 | 170 | 13 Su | 0303 | 1.3 | 40 | 170 | 28 M | 1358 | 4.6 | 140 | |
| | 1901 | 4.9 | 150 | | | 1748 | 5.2 | 160 | | | 1659 | 5.6 | 170 | | | 1510 | 5.6 | 170 | | | 1400 | 5.6 | 170 | | | 2127 | 4.3 | 130 | |
| 14 F | 0603 | 2.0 | 60 | 160 | 29 Sa | 0522 | 1.3 | 40 | 160 | 14 M | 0507 | 1.0 | 30 | 170 | 29 Tu | 0334 | 1.3 | 40 | 170 | 14 M | 0334 | 1.3 | 40 | 170 | 29 Tu | 1358 | 4.6 | 140 | |
| | 1853 | 5.2 | 160 | | | 1739 | 5.2 | 160 | | | 1757 | 5.6 | 170 | | | 1417 | 5.6 | 170 | | | 1417 | 5.6 | 170 | | | 1834 | 4.3 | 130 | |
| 15 Sa | 0551 | 1.3 | 40 | 170 | 30 Su | 0537 | 1.0 | 30 | 170 | 15 Tu | 0531 | 0.7 | 20 | 170 | 30 W | 0405 | 1.0 | 30 | 160 | 15 Tu | 0405 | 1.0 | 30 | 160 | 30 W | 1358 | 4.6 | 140 | |
| | 1906 | 5.6 | 170 | | | 1759 | 5.6 | 170 | | | 1905 | 5.6 | 170 | | | 1428 | 5.2 | 160 | | | 1428 | 5.2 | 160 | | | 2127 | 4.3 | 130 | |
| | | | | | 31 M | 0557 | 0.7 | 20 | 180 | | | | | | | | | | | | | | | | 31 Th | 0421 | 1.6 | 50 | 150 |
| | | | | | | 1837 | 5.9 | 180 | | | | | | | | | | | | | | | | | | | | | |

Time meridian 105° E. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to the chart datum of soundings.

Surabaya Strait, Djamuang Reef, Java, 2011

Times and Heights of High and Low Waters

| April | | | | May | | | | June | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|------|--------|-----|------|-----------------|--------|-----|------|----|-----------------|------|------|-----|--------|-----------------|------|-----|-----|--|-----------------|------|-----|-----|--|-----------------|------|-----|-----|--|--|--|--|--|--|
| Time | | Height | | Time | | Height | | Time | | Height | | Time | | Height | | | | | | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | | | | | | | | | | | |
| 1 F | 0439 | 2.0 | 60 | | 16 Sa | 0409 | 2.6 | 80 | | 1 Su | 0030 | 3.0 | 90 | | 16 M | 1010 | 5.6 | 170 | | 1 W | 0925 | 6.2 | 190 | | 16 Th | 0903 | 6.2 | 190 | | | | | | |
| | 1315 | 4.6 | 140 | | | 1152 | 4.9 | 150 | | | 0102 | 3.0 | 90 | | | 1923 | 1.6 | 50 | | | 1937 | 0.7 | 20 | | | 1954 | 0.3 | 10 | | | | | | |
| | | | | | | 1914 | 3.3 | 100 | | | 1040 | 4.9 | 150 | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | 2321 | 3.3 | 100 | | | 1919 | 2.6 | 80 | | | | | | | | | | | | | | | | | | | | | |
| 2 Sa | 0447 | 2.3 | 70 | | 17 Su | 0409 | 3.0 | 90 | | 2 M | 1024 | 5.2 | 160 | | 17 Tu | 0958 | 5.6 | 170 | | 2 Th | 0940 | 6.6 | 200 | | 17 F | 0916 | 6.6 | 200 | | | | | | |
| | 1239 | 4.6 | 140 | | | 1137 | 4.9 | 150 | | | 1926 | 2.0 | 60 | | | 1947 | 1.3 | 40 | | | 2004 | 0.3 | 10 | | | 2021 | 0.3 | 10 | | | | | | |
| | 1911 | 3.6 | 110 | | | 1927 | 2.6 | 80 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2202 | 3.6 | 110 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 Su | 0443 | 2.6 | 80 | | 18 M | 0201 | 3.3 | 100 | | 3 Tu | 1019 | 5.6 | 170 | | 18 W | 0952 | 5.9 | 180 | | 3 F | 0958 | 6.6 | 200 | | 18 Sa | 0935 | 6.6 | 200 | | | | | | |
| | 1205 | 4.6 | 140 | | | 0256 | 3.3 | 100 | | | 1948 | 1.6 | 50 | | | 2015 | 1.0 | 30 | | | 2034 | 0.3 | 10 | | | 2047 | 0.3 | 10 | | | | | | |
| | 1913 | 3.3 | 100 | | | 1121 | 4.9 | 150 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2335 | 3.6 | 110 | | | 1952 | 2.3 | 70 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 M | 0417 | 3.0 | 90 | | 19 Tu | 1105 | 5.2 | 160 | | 4 W | 1024 | 5.9 | 180 | | 19 Th | 0955 | 6.2 | 190 | | 4 Sa | 1016 | 6.6 | 200 | | 19 Su | 0954 | 6.6 | 200 | | | | | | |
| | 1142 | 4.6 | 140 | | | 2027 | 2.0 | 60 | | | 2019 | 1.3 | 40 | | | 2047 | 0.7 | 20 | | | 2107 | 0.3 | 10 | | | 2110 | 0.7 | 20 | | | | | | |
| | 1940 | 2.6 | 80 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 Tu | 0200 | 3.3 | 100 | | 20 W | 1054 | 5.6 | 170 | | 5 Th | 1035 | 6.2 | 190 | | 20 F | 1005 | 6.6 | 200 | | 5 Su | 1031 | 6.6 | 200 | | 20 M | 1012 | 6.2 | 190 | | | | | | |
| | 0232 | 3.3 | 100 | | | 2108 | 1.6 | 50 | | | 2056 | 1.0 | 30 | | | 2120 | 0.7 | 20 | | | 2139 | 0.7 | 20 | | | 2129 | 1.0 | 30 | | | | | | |
| | 1132 | 4.9 | 150 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2020 | 2.3 | 70 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 W | 1133 | 5.6 | 170 | | 21 Th | 1053 | 5.9 | 180 | | 6 F | 1049 | 6.6 | 200 | | 21 Sa | 1020 | 6.6 | 200 | | 6 M | 1040 | 6.2 | 190 | | 21 Tu | 1025 | 6.2 | 190 | | | | | | |
| | 2111 | 2.0 | 60 | | | 2156 | 1.3 | 40 | | | 2137 | 1.0 | 30 | | | 2154 | 0.7 | 20 | | | 2211 | 1.0 | 30 | | | 2140 | 1.3 | 40 | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 Th | 1142 | 5.6 | 170 | | 22 F | 1101 | 6.2 | 190 | | 7 Sa | 1104 | 6.6 | 200 | | 22 Su | 1037 | 6.6 | 200 | | 7 Tu | 1039 | 5.9 | 180 | | 22 W | 1028 | 5.9 | 180 | | | | | | |
| | 2214 | 1.6 | 50 | | | 2248 | 1.3 | 40 | | | 2222 | 1.0 | 30 | | | 2228 | 1.0 | 30 | | | 2238 | 1.3 | 40 | | | 2136 | 1.6 | 50 | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 F | 1154 | 5.9 | 180 | | 23 Sa | 1115 | 6.2 | 190 | | 8 Su | 1117 | 6.2 | 190 | | 23 M | 1053 | 6.6 | 200 | | 8 W | 1027 | 5.9 | 180 | | 23 Th | 1014 | 5.2 | 160 | | | | | | |
| | 2324 | 1.6 | 50 | | | 2341 | 1.3 | 40 | | | 2308 | 1.0 | 30 | | | 2258 | 1.0 | 30 | | | 2255 | 1.6 | 50 | | | 2109 | 2.0 | 60 | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 Sa | 1209 | 5.9 | 180 | | 24 Su | 1133 | 6.2 | 190 | | 9 M | 1124 | 6.2 | 190 | | 24 Tu | 1105 | 6.2 | 190 | | 9 Th | 1009 | 5.6 | 170 | | 24 F | 0939 | 5.2 | 160 | | | | | | |
| | | | | | | | | | | | 2354 | 1.3 | 40 | | | 2320 | 1.6 | 50 | | | 2241 | 2.3 | 70 | | | 2014 | 2.3 | 70 | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 Su | 0029 | 1.3 | 40 | | 25 M | 0032 | 1.3 | 40 | | 10 Tu | 1124 | 5.9 | 180 | | 25 W | 1108 | 5.9 | 180 | | 10 F | 0949 | 5.2 | 160 | | 25 Sa | 0854 | 4.9 | 150 | | | | | | |
| | 1221 | 5.9 | 180 | | | 1149 | 6.2 | 190 | | | | | | | | 2329 | 2.0 | 60 | | | 2024 | 2.3 | 70 | | | 1914 | 2.0 | 60 | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 M | 0124 | 1.3 | 40 | | 26 Tu | 0116 | 1.3 | 40 | | 11 W | 0036 | 1.3 | 40 | | 26 Th | 1057 | 5.6 | 170 | | 11 Sa | 0933 | 5.2 | 160 | | 26 Su | 0819 | 5.2 | 160 | | | | | | |
| | 1230 | 5.9 | 180 | | | 1202 | 5.9 | 180 | | | 1116 | 5.6 | 170 | | | 2305 | 2.3 | 70 | | | 1858 | 2.3 | 70 | | | 1838 | 1.6 | 50 | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 Tu | 0210 | 1.3 | 40 | | 27 W | 0151 | 1.6 | 50 | | 12 Th | 0113 | 2.0 | 60 | | 27 F | 1032 | 5.2 | 160 | | 12 Su | 0918 | 5.2 | 160 | | 27 M | 0805 | 5.6 | 170 | | | | | | |
| | 1233 | 5.6 | 170 | | | 1207 | 5.6 | 170 | | | 1103 | 5.6 | 170 | | | 2123 | 2.6 | 80 | | | 1841 | 1.6 | 50 | | | 1828 | 1.3 | 40 | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 W | 0250 | 1.3 | 40 | | 28 Th | 0218 | 2.0 | 60 | | 13 F | 0137 | 2.3 | 70 | | 28 Sa | 0959 | 5.2 | 160 | | 13 M | 0906 | 5.6 | 170 | | 28 Tu | 0809 | 5.9 | 180 | | | | | | |
| | 1228 | 5.6 | 170 | | | 1200 | 5.2 | 160 | | | 1050 | 5.2 | 160 | | | 1944 | 2.3 | 70 | | | 1848 | 1.3 | 40 | | | 1835 | 1.0 | 30 | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 Th | 0323 | 1.6 | 50 | | 29 F | 0232 | 2.3 | 70 | | 14 Sa | 0131 | 2.6 | 80 | | 29 Su | 0931 | 5.2 | 160 | | 14 Tu | 0858 | 5.9 | 180 | | 29 W | 0824 | 6.2 | 190 | | | | | | |
| | 1218 | 5.2 | 160 | | | 1138 | 4.9 | 150 | | | 1036 | 5.2 | 160 | | | 1907 | 2.0 | 60 | | | 1906 | 1.0 | 30 | | | 1852 | 0.7 | 20 | | | | | | |
| | | | | | | | | | | | 1914 | 2.6 | 80 | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 F | 0351 | 2.0 | 60 | | 30 Sa | 0226 | 2.6 | 80 | | 15 Su | 1023 | 5.2 | 160 | | 30 M | 0917 | 5.6 | 170 | | 15 W | 0856 | | | | | | | | | | | | | |

Surabaya Strait, Djamuang Reef, Java, 2011

Times and Heights of High and Low Waters

| July | | | | August | | | | September | | | | | | | | | | | | | | | | | | | | | | | |
|-----------|------|--------|-----|-----------|------|--------|-----|-----------|------|--------|-----|-----------|------|--------|-----|-----------|------|-----|-----|-----------|------|-----|-----|-----------|------|-----|-----|-----------|------|-----|-----|
| Time | | Height | | Time | | Height | | Time | | Height | | Time | | Height | | | | | | | | | | | | | | | | | |
| h | m | ft | cm | h | m | ft | cm | h | m | ft | cm | h | m | ft | cm | | | | | | | | | | | | | | | | |
| 1 | 0911 | 6.6 | 200 | 16 | 0850 | 6.2 | 190 | 1 | 0955 | 5.6 | 170 | 16 | 0948 | 4.9 | 150 | 1 | 0235 | 4.3 | 130 | 16 | 0034 | 4.6 | 140 | | | | | | | | |
| F | 1940 | 0.3 | 10 | Sa | 1947 | 0.3 | 10 | M | 1952 | 1.0 | 30 | Tu | 1919 | 2.0 | 60 | Th | 0845 | 3.6 | 110 | F | 0852 | 3.0 | 90 | F | 1239 | 3.0 | 90 | F | 1537 | 3.0 | 90 |
| ● | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 0935 | 6.6 | 200 | 17 | 0917 | 6.2 | 190 | 2 | 1012 | 5.2 | 160 | 17 | 1010 | 4.6 | 140 | 2 | 0208 | 4.3 | 130 | 17 | 0030 | 4.9 | 150 | 2 | 0208 | 4.3 | 130 | 17 | 0030 | 4.9 | 150 |
| Sa | 2007 | 0.3 | 10 | Su | 2007 | 0.7 | 20 | Tu | 2007 | 1.6 | 50 | W | 1909 | 2.3 | 70 | F | 1637 | 3.0 | 90 | Sa | 1045 | 2.6 | 80 | Sa | 1637 | 3.0 | 90 | Sa | 1045 | 2.6 | 80 |
| 3 | 0956 | 6.2 | 190 | 18 | 0941 | 5.9 | 180 | 3 | 1003 | 4.9 | 150 | 18 | 0445 | 4.3 | 130 | 3 | 0143 | 4.6 | 140 | 18 | 0037 | 5.2 | 160 | 3 | 0143 | 4.6 | 140 | 18 | 0037 | 5.2 | 160 |
| Su | 2033 | 0.7 | 20 | M | 2022 | 1.0 | 30 | W | 2010 | 2.0 | 60 | Th | 0534 | 4.3 | 130 | Sa | 1455 | 2.6 | 80 | Su | 1251 | 2.3 | 70 | Su | 1455 | 2.6 | 80 | Su | 1251 | 2.3 | 70 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 1011 | 6.2 | 190 | 19 | 0959 | 5.6 | 170 | 4 | 0832 | 4.6 | 140 | 19 | 0301 | 4.3 | 130 | 4 | 0127 | 4.9 | 150 | 19 | 0051 | 5.6 | 170 | 4 | 0127 | 4.9 | 150 | 19 | 0051 | 5.6 | 170 |
| M | 2058 | 1.0 | 30 | Tu | 2029 | 1.3 | 40 | Th | 1945 | 2.3 | 70 | F | 1757 | 2.6 | 80 | Su | 1453 | 2.3 | 70 | M | 1342 | 2.0 | 60 | M | 1453 | 2.3 | 70 | M | 1342 | 2.0 | 60 |
| 5 | 1014 | 5.9 | 180 | 20 | 1007 | 5.2 | 160 | 5 | 0635 | 4.6 | 140 | 20 | 0236 | 4.6 | 140 | 5 | 0125 | 5.2 | 160 | 20 | 0108 | 5.6 | 170 | 5 | 0125 | 5.2 | 160 | 20 | 0108 | 5.6 | 170 |
| Tu | 2117 | 1.3 | 40 | W | 2022 | 2.0 | 60 | F | 1831 | 2.6 | 80 | Sa | 1701 | 2.6 | 80 | M | 1515 | 1.6 | 50 | Tu | 1422 | 1.6 | 50 | Tu | 1515 | 1.6 | 50 | Tu | 1422 | 1.6 | 50 |
| 6 | 0958 | 5.6 | 170 | 21 | 0950 | 4.9 | 150 | 6 | 0541 | 4.6 | 140 | 21 | 0236 | 4.9 | 150 | 6 | 0136 | 5.6 | 170 | 21 | 0126 | 5.6 | 170 | 6 | 0136 | 5.6 | 170 | 21 | 0126 | 5.6 | 170 |
| W | 2123 | 1.6 | 50 | Th | 1958 | 2.3 | 70 | Sa | 1715 | 2.3 | 70 | Su | 1621 | 2.3 | 70 | Tu | 1543 | 1.3 | 40 | W | 1458 | 1.3 | 40 | W | 1543 | 1.3 | 40 | W | 1458 | 1.3 | 40 |
| | | | | | | | | ○ | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | 0924 | 5.2 | 160 | 22 | 0845 | 4.6 | 140 | 7 | 0502 | 4.6 | 140 | 22 | 0251 | 5.2 | 160 | 7 | 0155 | 5.6 | 170 | 22 | 0140 | 5.6 | 170 | 7 | 0155 | 5.6 | 170 | 22 | 0140 | 5.6 | 170 |
| Th | 2059 | 2.3 | 70 | F | 1915 | 2.3 | 70 | Su | 1651 | 2.0 | 60 | M | 1612 | 1.6 | 50 | W | 1612 | 1.3 | 40 | Th | 1532 | 1.3 | 40 | Th | 1612 | 1.3 | 40 | Th | 1532 | 1.3 | 40 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | 0849 | 4.9 | 150 | 23 | 0658 | 4.6 | 140 | 8 | 0434 | 4.9 | 150 | 23 | 0316 | 5.2 | 160 | 8 | 0220 | 5.6 | 170 | 23 | 0147 | 5.2 | 160 | 8 | 0220 | 5.6 | 170 | 23 | 0147 | 5.2 | 160 |
| F | 1936 | 2.3 | 70 | Sa | 1823 | 2.3 | 70 | M | 1656 | 1.3 | 40 | Tu | 1623 | 1.3 | 40 | Th | 1639 | 1.0 | 30 | F | 1603 | 1.3 | 40 | Th | 1639 | 1.0 | 30 | F | 1603 | 1.3 | 40 |
| ○ | | | | ○ | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | 0822 | 4.9 | 150 | 24 | 0607 | 4.9 | 150 | 9 | 0433 | 5.2 | 160 | 24 | 0352 | 5.6 | 170 | 9 | 0247 | 5.6 | 170 | 24 | 0141 | 5.2 | 160 | 9 | 0247 | 5.6 | 170 | 24 | 0141 | 5.2 | 160 |
| Sa | 1821 | 2.3 | 70 | Su | 1747 | 2.0 | 60 | Tu | 1713 | 1.0 | 30 | W | 1642 | 1.0 | 30 | F | 1705 | 1.3 | 40 | Sa | 1632 | 1.6 | 50 | Sa | 1705 | 1.3 | 40 | Sa | 1632 | 1.6 | 50 |
| 10 | 0803 | 5.2 | 160 | 25 | 0604 | 5.2 | 160 | 10 | 0458 | 5.6 | 170 | 25 | 0443 | 5.6 | 170 | 10 | 0312 | 5.2 | 160 | 25 | 0127 | 4.9 | 150 | 10 | 0312 | 5.2 | 160 | 25 | 0127 | 4.9 | 150 |
| Su | 1758 | 1.6 | 50 | M | 1735 | 1.3 | 40 | W | 1734 | 0.7 | 20 | Th | 1706 | 1.0 | 30 | Sa | 1728 | 1.3 | 40 | Su | 1658 | 2.0 | 60 | Su | 1728 | 1.3 | 40 | Su | 1658 | 2.0 | 60 |
| 11 | 0749 | 5.2 | 160 | 26 | 0624 | 5.6 | 170 | 11 | 0546 | 5.6 | 170 | 26 | 0608 | 5.6 | 170 | 11 | 0328 | 4.9 | 150 | 26 | 0110 | 4.6 | 140 | 11 | 0328 | 4.9 | 150 | 26 | 0110 | 4.6 | 140 |
| M | 1802 | 1.3 | 40 | Tu | 1740 | 1.0 | 30 | Th | 1758 | 0.7 | 20 | F | 1732 | 1.0 | 30 | Su | 1746 | 1.6 | 50 | M | 0646 | 3.9 | 120 | Su | 1746 | 1.6 | 50 | M | 0646 | 3.9 | 120 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | 0743 | 5.6 | 170 | 27 | 0657 | 5.9 | 180 | 12 | 0646 | 5.6 | 170 | 27 | 0742 | 5.2 | 160 | 12 | 0311 | 4.6 | 140 | 27 | 0054 | 4.6 | 140 | 12 | 0311 | 4.6 | 140 | 27 | 0054 | 4.6 | 140 |
| Tu | 1817 | 1.0 | 30 | W | 1756 | 0.7 | 20 | F | 1822 | 0.7 | 20 | Sa | 1757 | 1.0 | 30 | M | 0622 | 4.6 | 140 | Tu | 0657 | 3.6 | 110 | M | 0622 | 4.6 | 140 | Tu | 0657 | 3.6 | 110 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | 0747 | 5.9 | 180 | 28 | 0735 | 5.9 | 180 | 13 | 0744 | 5.6 | 170 | 28 | 0850 | 5.2 | 160 | 13 | 0221 | 4.3 | 130 | 28 | 0039 | 4.6 | 140 | 13 | 0221 | 4.3 | 130 | 28 | 0039 | 4.6 | 140 |
| W | 1837 | 0.7 | 20 | Th | 1817 | 0.7 | 20 | Sa | 1844 | 1.0 | 30 | Su | 1821 | 1.3 | 40 | Tu | 0620 | 4.3 | 130 | W | 0727 | 3.3 | 100 | Tu | 0620 | 4.3 | 130 | W | 0727 | 3.3 | 100 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | 0802 | 6.2 | 190 | 29 | 0815 | 6.2 | 190 | 14 | 0833 | 5.6 | 170 | 29 | 0943 | 4.9 | 150 | 14 | 0130 | 4.3 | 130 | 29 | 0023 | 4.6 | 140 | 14 | 0130 | 4.3 | 130 | 29 | 0023 | 4.6 | 140 |
| Th | 1901 | 0.3 | 10 | F | 1841 | 0.3 | 10 | Su | 1902 | 1.0 | 30 | M | 1841 | 1.6 | 50 | W | 0654 | 3.6 | 110 | Th | 0808 | 3.0 | 90 | W | 0654 | 3.6 | 110 | Th | 0808 | 3.0 | 90 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | 0824 | 6.2 | 190 | 30 | 0853 | 5.9 | 180 | 15 | 0914 | 5.2 | 160 | 30 | 0339 | 4.3 | 130 | 15 | 0053 | 4.3 | 130 | 30 | 0006 | 4.9 | 150 | 15 | 0053 | 4.3 | 130 | 30 | 0006 | 4.9 | 150 |
| F | 1924 | 0.3 | 10 | Sa | 1906 | 0.7 | 20 | M | 1915 | 1.6 | 50 | Tu | 0549 | 4.3 | 130 | Th | 0744 | 3.3 | 100 | F | 0900 | 2.3 | 70 | Th | 0744 | 3.3 | 100 | F | 0900 | 2.3 | 70 |
| ○ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | 31 | 0927 | 5.9 | 180 | 31 | 0915 | 1.6 | 50 | 31 | 1027 | 4.6 | 140 | 15 | 1139 | 3.6 | 110 | 31 | 2352 | 5.2 | 160 | 15 | 1139 | 3.6 | 110 | 31 | 2352 | 5.2 | 160 |
| | | | | Su | 1930 | 0.7 | 20 | W | 1853 | 2.6 | 80 | 31 | 1854 | 2.0 | 60 | Th | 1659 | 3.0 | 90 | | | | | Th | 1659 | 3.0 | 90 | | | | |
| | | | | ● | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Time meridian 105° E. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to the chart datum of soundings.

Surabaya Strait, Djamuang Reef, Java, 2011

Times and Heights of High and Low Waters

| October | | | | November | | | | December | | | | | | | | | | | | | | | | | | | | | |
|-----------------|------|--------|-----|----------|-----------------|--------|-----|----------|-----|-----------------|------|------|----|--------|-----------------|------|-----|----|-----|-----------------|------|-----|----|-----|-----------------|------|-----|----|-----|
| Time | | Height | | Time | | Height | | Time | | Height | | Time | | Height | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | | | | | | |
| 1 Sa | 1006 | 2.3 | 70 | 170 | 16 Su | 0943 | 1.6 | 50 | 180 | 1 Tu | 1103 | 1.0 | 30 | 190 | 16 W | 1033 | 1.0 | 30 | 190 | 1 Th | 1029 | 1.0 | 30 | 190 | 16 F | 1006 | 1.3 | 40 | 170 |
| 2 Su | 1123 | 2.0 | 60 | 170 | 17 M | 1040 | 1.3 | 40 | 190 | 2 W | 1150 | 1.3 | 40 | 190 | 17 Th | 1113 | 1.0 | 30 | 180 | 2 F | 1046 | 1.6 | 50 | 180 | 17 Sa | 1018 | 1.6 | 50 | 160 |
| 3 M | 1234 | 1.6 | 50 | | 18 Tu | 1139 | 1.3 | 40 | | 3 Th | 1233 | 1.3 | 40 | 180 | 18 F | 1150 | 1.3 | 40 | 170 | 3 Sa | 1045 | 2.0 | 60 | 170 | 18 Su | 1000 | 2.3 | 70 | 160 |
| 4 Tu | 0002 | 5.9 | 180 | 40 | 19 W | 0000 | 6.2 | 190 | 40 | 4 F | 1308 | 1.6 | 50 | 170 | 19 Sa | 1221 | 2.0 | 60 | 170 | 4 Su | 1006 | 2.3 | 70 | 160 | 19 M | 0813 | 2.3 | 70 | 160 |
| 5 W | 0019 | 5.9 | 180 | 40 | 20 Th | 0010 | 5.9 | 180 | 40 | 5 Sa | 1333 | 2.0 | 60 | 160 | 20 Su | 1236 | 2.3 | 70 | 160 | 5 M | 0841 | 2.3 | 70 | 160 | 20 Tu | 0647 | 2.3 | 70 | 160 |
| 6 Th | 0036 | 5.9 | 180 | 40 | 21 F | 0010 | 5.6 | 170 | 50 | 6 Su | 1339 | 2.3 | 70 | 160 | 21 M | 0858 | 2.6 | 80 | 160 | 6 Tu | 0734 | 2.3 | 70 | 160 | 21 W | 0627 | 1.6 | 50 | 170 |
| 7 F | 0051 | 5.6 | 170 | 50 | 22 Sa | 0002 | 5.6 | 170 | 60 | 7 M | 1256 | 2.6 | 80 | 150 | 22 Tu | 0706 | 2.3 | 70 | 160 | 7 W | 0703 | 2.0 | 60 | 170 | 22 Th | 0633 | 1.3 | 40 | 180 |
| 8 Sa | 0100 | 5.2 | 160 | 60 | 23 Su | 1510 | 2.3 | 70 | 150 | 8 Tu | 0749 | 2.6 | 80 | 160 | 23 W | 0658 | 2.0 | 60 | 170 | 8 Th | 0658 | 1.3 | 40 | 180 | 23 F | 0650 | 1.0 | 30 | 180 |
| 9 Su | 0057 | 4.9 | 150 | 70 | 24 M | 0800 | 3.3 | 100 | 100 | 9 W | 0722 | 2.3 | 70 | 160 | 24 Th | 0711 | 1.3 | 40 | 180 | 9 F | 0707 | 1.0 | 30 | 190 | 24 Sa | 0713 | 0.7 | 20 | 190 |
| 10 M | 0038 | 4.9 | 150 | 80 | 25 Tu | 0903 | 3.3 | 100 | 80 | 10 Th | 0724 | 2.0 | 60 | 170 | 25 F | 0733 | 1.0 | 30 | 180 | 10 Sa | 0726 | 0.7 | 20 | 200 | 25 Su | 0738 | 0.3 | 10 | 200 |
| 11 Tu | 0008 | 4.6 | 140 | 140 | 26 W | 0717 | 2.3 | 70 | 160 | 11 F | 0742 | 1.3 | 40 | 180 | 26 Sa | 0800 | 0.7 | 20 | 190 | 11 Su | 0750 | 0.3 | 10 | 200 | 26 M | 0804 | 0.3 | 10 | 200 |
| 12 W | 0724 | 3.0 | 90 | 100 | 27 Th | 0741 | 2.0 | 60 | 160 | 12 Sa | 0807 | 1.0 | 30 | 190 | 27 Su | 0830 | 0.7 | 20 | 200 | 12 M | 0817 | 0.3 | 10 | 200 | 27 Tu | 0830 | 0.3 | 10 | 200 |
| 13 Th | 0742 | 2.6 | 80 | 160 | 28 F | 0812 | 1.6 | 50 | 170 | 13 Su | 0839 | 1.0 | 30 | 200 | 28 M | 0902 | 0.7 | 20 | 200 | 13 Tu | 0846 | 0.3 | 10 | 200 | 28 W | 0853 | 0.7 | 20 | 190 |
| 14 F | 0813 | 2.0 | 60 | 170 | 29 Sa | 0849 | 1.3 | 40 | 180 | 14 M | 0915 | 0.7 | 20 | 200 | 29 Tu | 0933 | 0.7 | 20 | 200 | 14 W | 0915 | 0.7 | 20 | 190 | 29 Th | 0911 | 1.0 | 30 | 180 |
| 15 Sa | 0854 | 1.6 | 50 | 180 | 30 Su | 0930 | 1.3 | 40 | 190 | 15 Tu | 0953 | 0.7 | 20 | 200 | 30 W | 1003 | 0.7 | 20 | 190 | 15 Th | 0943 | 1.0 | 30 | 180 | 30 F | 0919 | 1.3 | 40 | 170 |
| | | | | | 31 M | 1015 | 1.0 | 30 | 190 | | | | | | | | | | | 31 Sa | 0911 | 1.6 | 50 | 160 | | | | | |

Time meridian 105° E. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to the chart datum of soundings.

Kutei River Entrance, Muara Bayor, Borneo, 2011

Times and Heights of High and Low Waters

| January | | | | February | | | | March | | | | | | | | | | | | | | | |
|-----------------|------|--------|----------------|-----------------|------|--------|-----|-----------------|------|--------|-----|-----------------|------|--------|-----|-----------------|-----------------|------|-----|-----------------|-----------------|------|-----|
| Time | | Height | | Time | | Height | | Time | | Height | | Time | | Height | | | | | | | | | |
| | h m | ft | cm | | h m | ft | cm | | h m | ft | cm | | h m | ft | cm | | | | | | | | |
| 1 Sa | 0339 | 5.2 | 160 | 16 Su | 0300 | 4.9 | 150 | 1 Tu | 0034 | 3.0 | 90 | 16 W | 0009 | 3.0 | 90 | 1 Tu | 0010 | 3.6 | 110 | | | | |
| | 0910 | 3.6 | 110 | | 0837 | 3.9 | 120 | | 0608 | 5.6 | 170 | | 0546 | 5.9 | 180 | | 0553 | 5.6 | 170 | 16 W | 1004 | 4.3 | 130 |
| | 1636 | 8.2 | 250 | | 1633 | 7.5 | 230 | | 1128 | 3.3 | 100 | | 1108 | 3.3 | 100 | | 1054 | 3.9 | 120 | | 1645 | 7.5 | 230 |
| | 2346 | 3.6 | 110 | | 2356 | 3.9 | 120 | | 1808 | 8.5 | 260 | | 1746 | 8.5 | 260 | | 1729 | 7.5 | 230 | | 2331 | 3.0 | 90 |
| 2 Su | 0501 | 5.2 | 160 | 17 M | 0503 | 5.2 | 160 | 2 W | 0053 | 2.6 | 80 | 17 Th | 0027 | 2.3 | 70 | 2 W | 0015 | 3.0 | 90 | | 17 Th | 0523 | 6.2 | 190 |
| | 1021 | 3.3 | 100 | | 1012 | 3.6 | 110 | | 0633 | 6.2 | 190 | | 0611 | 6.6 | 200 | | 0603 | 6.2 | 190 | 1058 | | 3.3 | 100 |
| | 1725 | 8.5 | 260 | | 1719 | 8.2 | 250 | | 1206 | 2.6 | 80 | | 1149 | 2.3 | 70 | | 1135 | 3.3 | 100 | 1723 | | 8.2 | 250 |
| 3 M | 0024 | 3.0 | 90 | 18 Tu | 0019 | 3.3 | 100 | 3 Th | 0111 | 2.3 | 70 | 18 F | 0048 | 2.0 | 60 | 3 Th | 0027 | 2.6 | 80 | 18 F | 0546 | 7.2 | 220 |
| | 0550 | 5.6 | 170 | | 0547 | 5.6 | 170 | | 0657 | 6.9 | 210 | | 0637 | 7.5 | 230 | | 0620 | 6.9 | 210 | | 1138 | 2.3 | 70 |
| | 1113 | 3.0 | 90 | | 1108 | 3.3 | 100 | | 1238 | 2.3 | 70 | | 1226 | 1.6 | 50 | | 1205 | 2.6 | 80 | | 1756 | 8.9 | 270 |
| | 1805 | 9.2 | 280 | | 1755 | 8.9 | 270 | | 1902 | 9.2 | 280 | | 1849 | 9.8 | 300 | | 1821 | 8.5 | 260 | | 1821 | 8.5 | 260 |
| 4 Tu | 0055 | 2.6 | 80 | 19 W | 0045 | 2.6 | 80 | 4 F | 0129 | 2.0 | 60 | 19 Sa | 0112 | 1.3 | 40 | 4 F | 0042 | 2.3 | 70 | 19 Sa | 0013 | 2.0 | 60 |
| | 0626 | 6.2 | 190 | | 0620 | 6.2 | 190 | | 0719 | 7.2 | 220 | | 0705 | 8.2 | 250 | | 0638 | 7.5 | 230 | | 0613 | 8.2 | 250 |
| | 1156 | 2.6 | 80 | | 1150 | 2.6 | 80 | | 1307 | 2.0 | 60 | | 1301 | 1.3 | 40 | | 1231 | 2.3 | 70 | | 1215 | 1.6 | 50 |
| | 1839 | 9.5 | 290 | | 1829 | 9.5 | 290 | | 1925 | 9.2 | 280 | | 1919 | 9.8 | 300 | | 1843 | 8.5 | 260 | | 1827 | 9.2 | 280 |
| 5 W | 0122 | 2.3 | 70 | 20 Th | 0111 | 2.0 | 60 | 5 Sa | 0148 | 1.6 | 50 | 20 Su | 0137 | 1.3 | 40 | 5 Sa | 0058 | 2.0 | 60 | 20 Su | 0037 | 1.3 | 40 |
| | 0658 | 6.6 | 200 | | 0651 | 6.9 | 210 | | 0742 | 7.9 | 240 | | 0735 | 8.5 | 260 | | 0658 | 8.2 | 250 | | 0641 | 8.9 | 270 |
| | 1233 | 2.3 | 70 | | 1229 | 2.0 | 60 | | 1333 | 2.0 | 60 | | 1336 | 1.0 | 30 | | 1256 | 2.0 | 60 | | 1249 | 1.0 | 30 |
| | 1910 | 9.5 | 290 | | 1902 | 9.8 | 300 | | 1947 | 9.2 | 280 | | 1949 | 9.5 | 290 | | 1903 | 8.9 | 270 | | 1857 | 9.2 | 280 |
| 6 Th | 0147 | 2.3 | 70 | 21 F | 0137 | 1.6 | 50 | 6 Su | 0206 | 1.6 | 50 | 21 M | 0201 | 1.0 | 30 | 6 Su | 0115 | 1.6 | 50 | 21 M | 0102 | 1.3 | 40 |
| | 0728 | 6.9 | 210 | | 0722 | 7.2 | 220 | | 0805 | 7.9 | 240 | | 0805 | 8.9 | 270 | | 0718 | 8.5 | 260 | | 0711 | 9.5 | 290 |
| | 1307 | 2.3 | 70 | | 1306 | 1.6 | 50 | | 1358 | 2.0 | 60 | | 1410 | 1.0 | 30 | | 1319 | 2.0 | 60 | | 1323 | 1.0 | 30 |
| | 1938 | 9.5 | 290 | | 1935 | 10.2 | 310 | | 2008 | 8.9 | 270 | | 2018 | 9.2 | 280 | | 1923 | 8.9 | 270 | | 1926 | 8.9 | 270 |
| 7 F | 0211 | 2.0 | 60 | 22 Sa | 0204 | 1.3 | 40 | 7 M | 0225 | 1.6 | 50 | 22 Tu | 0226 | 1.3 | 40 | 7 M | 0132 | 1.6 | 50 | 22 Tu | 0127 | 1.0 | 30 |
| | 0756 | 6.9 | 210 | | 0753 | 7.5 | 230 | | 0828 | 8.2 | 250 | | 0836 | 9.2 | 280 | | 0738 | 8.5 | 260 | | 0741 | 9.8 | 300 |
| | 1338 | 2.3 | 70 | | 1342 | 1.6 | 50 | | 1423 | 2.3 | 70 | | 1444 | 1.6 | 50 | | 1341 | 2.0 | 60 | | 1357 | 1.3 | 40 |
| | 2004 | 9.2 | 280 | | 2006 | 9.8 | 300 | | 2029 | 8.5 | 260 | | 2045 | 8.5 | 260 | | 1943 | 8.5 | 260 | | 1954 | 8.5 | 260 |
| 8 Sa | 0234 | 2.0 | 60 | 23 Su | 0232 | 1.3 | 40 | 8 Tu | 0245 | 1.6 | 50 | 23 W | 0251 | 1.3 | 40 | 8 Tu | 0150 | 1.6 | 50 | 23 W | 0152 | 1.3 | 40 |
| | 0824 | 7.2 | 220 | | 0825 | 7.9 | 240 | | 0852 | 8.2 | 250 | | 0908 | 8.9 | 270 | | 0759 | 8.9 | 270 | | 0812 | 9.8 | 300 |
| | 1408 | 2.3 | 70 | | 1419 | 1.6 | 50 | | 1448 | 2.6 | 80 | | 1519 | 2.3 | 70 | | 1404 | 2.0 | 60 | | 1430 | 1.6 | 50 |
| | 2029 | 8.9 | 270 | | 2038 | 9.5 | 290 | | 2049 | 8.2 | 250 | | 2109 | 7.5 | 230 | | 2002 | 8.5 | 260 | | 2021 | 7.9 | 240 |
| 9 Su | 0257 | 2.0 | 60 | 24 M | 0259 | 1.6 | 50 | 9 W | 0305 | 2.0 | 60 | 24 Th | 0314 | 2.0 | 60 | 9 W | 0208 | 1.6 | 50 | 24 Th | 0217 | 1.6 | 50 |
| | 0853 | 7.2 | 220 | | 0859 | 8.2 | 250 | | 0917 | 7.9 | 240 | | 0941 | 8.5 | 260 | | 0821 | 8.9 | 270 | | 0843 | 9.5 | 290 |
| | 1438 | 2.6 | 80 | | 1456 | 2.0 | 60 | | 1513 | 3.0 | 90 | | 1554 | 3.3 | 100 | | 1427 | 2.3 | 70 | | 1504 | 2.3 | 70 |
| | 2053 | 8.5 | 260 | | 2108 | 8.9 | 270 | | 2108 | 7.9 | 240 | | 2130 | 6.9 | 210 | | 2021 | 7.9 | 240 | | 2045 | 7.2 | 220 |
| 10 M | 0321 | 2.3 | 70 | 25 Tu | 0326 | 1.6 | 50 | 10 Th | 0325 | 2.3 | 70 | 25 F | 0336 | 2.3 | 70 | 10 Th | 0226 | 1.6 | 50 | 25 F | 0240 | 2.0 | 60 |
| | 0923 | 7.2 | 220 | | 0935 | 8.2 | 250 | | 0944 | 7.5 | 230 | | 1019 | 7.9 | 240 | | 0844 | 8.5 | 260 | | 0915 | 8.9 | 270 |
| | 1507 | 3.0 | 90 | | 1535 | 2.6 | 80 | | 1541 | 3.6 | 110 | | 1635 | 4.3 | 130 | | 1452 | 2.6 | 80 | | 1538 | 3.3 | 100 |
| | 2117 | 8.2 | 250 | | 2137 | 7.9 | 240 | | 2127 | 7.2 | 220 | | 2140 | 5.9 | 180 | | 2040 | 7.5 | 230 | | 2106 | 6.6 | 200 |
| 11 Tu | 0345 | 2.3 | 70 | 26 W | 0354 | 2.3 | 70 | 11 F | 0345 | 2.6 | 80 | 26 Sa | 0352 | 3.0 | 90 | 11 F | 0244 | 2.0 | 60 | 26 Sa | 0301 | 2.6 | 80 |
| | 0955 | 7.2 | 220 | | 1014 | 7.9 | 240 | | 1017 | 7.2 | 220 | | 1109 | 6.9 | 210 | | 0909 | 8.2 | 250 | | 0948 | 8.2 | 250 |
| | 1538 | 3.6 | 110 | | 1617 | 3.3 | 100 | | 1614 | 4.3 | 130 | | 1755 | 5.2 | 160 | | 1520 | 3.3 | 100 | | 1618 | 3.9 | 120 |
| | 2140 | 7.5 | 230 | | 2204 | 6.9 | 210 | | 2140 | 6.2 | 190 | | 2048 | 5.2 | 160 | | 2058 | 6.9 | 210 | | 2120 | 5.9 | 180 |
| 12 W | 0412 | 2.6 | 80 | 27 Th | 0422 | 2.6 | 80 | 12 Sa | 0405 | 3.0 | 90 | 27 Su | 0348 | 3.9 | 120 | 12 Sa | 0303 | 2.6 | 80 | 27 Su | 0317 | 3.3 | 100 |
| | 1032 | 6.9 | 210 | | 1102 | 7.5 | 230 | | 1103 | 6.9 | 210 | | 1420 | 6.2 | 190 | | 0938 | 7.9 | 240 | | 1029 | 7.2 | 220 |
| | 1614 | 4.3 | 130 | | 1711 | 4.3 | 130 | | 1706 | 4.9 | 150 | | 1650 | 6.9 | 210 | | 1552 | 3.9 | 120 | | 1729 | 4.9 | 150 |
| | 2204 | 6.9 | 210 | | 2226 | 5.9 | 180 | | 2132 | 5.6 | 170 | | 2132 | 5.6 | 170 | | 2113 | 6.2 | 190 | | 2053 | 5.2 | 160 |
| 13 Th | 0441 | 3.0 | 90 | 28 F | 0451 | 3.3 | 100 | 13 Su | 0422 | 3.6 | 110 | 28 M | 0056 | 3.9 | 120 | 13 Su | 0321 | 3.0 | 90 | 28 M | 0305 | 4.3 | 130 |
| | 1122 | 6.6 | 200 | | 1216 | 6.9 | 210 | | 1307 | 6.2 | 190 | | 0713 | 4.9 | 150 | | 1017 | 7.2 | 220 | | 1221 | 6.2 | 190 |
| | 1702 | 4.6 | 140 | | 1923 | 4.9 | 150 | | 1923 | 4.9 | 150 | | 0849 | 4.9 | 150 | | 1641 | 4.6 | 140 | | 2347 | 4.3 | 130 |
| | 2226 | 6.2 | 190 | | 2212 | 5.2 | 160 | | 2212 | 5.2 | 160 | | 1650 | 6.9 | 210 | | 2112 | 5.6 | 170 | | 2112 | 5.6 | 170 |
| 14 F | 0516 | 3.6 | 110 | 29 Sa | 0529 | 3.6 | 110 | 14 M | 0320 | 4.3 | 130 | 14 M | 0333 | 3.6 | 110 | 14 M | 0333 | 3.6 | 110 | 29 Tu | 0619 | 5.2 | 160 |
| | 1246 | 6.2 | 190 | | 1456 | 6.9 | 210 | | 1620 | 6.9 | 210 | | 1137 | 6.6 | 200 | | 1137 | 6.6 | 200 | | 0929 | 4.9 | 150 |
| | 1911 | 5.2 | 160 | | | | | | | | | | | | | | | 1617 | 6.6 | | 200 | | |
| | 2235 | 5.6 | 170 | | | | | | | | | | | | | | | 2319 | 3.9 | | 120 | | |
| 15 Sa | 0618 | 3.9 | 120 | 30 Su | 0034 | 4.3 | 130 | 15 Tu | 0005 | 3.9 | 120 | 15 Tu | 0155 | 4.3 | 130 | 15 Tu | 0155 | 4.3 | 130 | 30 W | 0524 | 5.9 | 180 |
| | 1512 | 6.6 | 200 | | 0429 | 4.6 | 140 | | 0526 | 4.9 | 150 | | 1544 | 6.9 | 210 | | 1544 | 6.9 | 210 | | 1048 | 4.3 | 130 |
| | 2347 | 4.6 | 140 | | 0825 | 4.3 | 130 | | 1010 | 3.9 | 120 | | 2325 | 3.9 | 120 | | 1700 | 7.2 | 220 | | 1700 | 7.2 | 220 |
| | | | | | 1644 | 7.5 | 230 | | 1710 | 7.9 | 240 | | | | | | | 2328 | 3.3 | | 100 | | |
| | | | 31 M | 0019 | 3.6 | 110 | | | | | | | | | | | 31 Th | 0534 | 6.9 | 210 | | | |
| | | | | 0539 | 4.9 | 150 | | | | | | | | | | | | | | | | | |

Kutei River Entrance, Muara Bayor, Borneo, 2011

Times and Heights of High and Low Waters

| July | | | | August | | | | September | | | | | | | | | | | | | | | | | | | |
|-----------------|------|--------|-----|--------|-----------------|--------|-----|-----------|------|-----------------|------|------|-----|--------|-----------------|------|------|-----|------|-----------------|------|------|-----|------|------|-----|-----|
| Time | | Height | | Time | | Height | | Time | | Height | | Time | | Height | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | | | | |
| 1 F | 0623 | 7.9 | 240 | | 16 Sa | 0020 | 1.0 | 30 | | 1 M | 0050 | 0.0 | 0 | | 16 F | 0151 | 0.3 | 10 | | | | | | | | | |
| | 1307 | 1.3 | 40 | | | 0657 | 7.9 | 240 | | | 0717 | 8.2 | 250 | | | 0734 | 7.2 | 220 | | 0747 | 6.6 | 200 | | | | | |
| | 1843 | 4.9 | 150 | | | 1335 | 0.7 | 20 | | | 1345 | 0.0 | 0 | | | 1350 | 0.0 | 0 | | 1403 | -0.3 | -10 | | 1349 | 0.0 | 0 | |
| 2 Sa | 0015 | 1.3 | 40 | | 17 Su | 0057 | 0.7 | 20 | | 2 Tu | 0125 | 0.0 | 0 | | 2 F | 0224 | -0.3 | -10 | | 17 Sa | 0215 | 0.7 | 20 | | | | |
| | 0655 | 8.2 | 250 | | | 0727 | 7.9 | 240 | | | 0748 | 7.9 | 240 | | | 0755 | 6.9 | 210 | | | 0825 | 6.9 | 210 | | 0806 | 6.2 | 190 |
| | 1337 | 1.0 | 30 | | | 1359 | 0.7 | 20 | | | 1411 | -0.3 | -10 | | | 1409 | 0.0 | 0 | | | 1429 | -0.3 | -10 | | 1408 | 0.3 | 10 |
| 3 Su | 0051 | 1.0 | 30 | | 18 M | 0131 | 0.7 | 20 | | 3 W | 0201 | -0.3 | -10 | | 3 Sa | 0259 | 0.3 | 10 | | 18 Su | 0239 | 1.0 | 30 | | | | |
| | 0728 | 8.5 | 260 | | | 0755 | 7.5 | 230 | | | 0819 | 7.9 | 240 | | | 0852 | 6.2 | 190 | | | 0826 | 5.9 | 180 | | 0826 | 5.9 | 180 |
| | 1407 | 0.7 | 20 | | | 1423 | 0.3 | 10 | | | 1438 | -0.3 | -10 | | | 1454 | 0.0 | 0 | | | 1427 | 0.7 | 20 | | 1427 | 0.7 | 20 |
| 4 M | 0127 | 1.0 | 30 | | 19 Tu | 0202 | 0.7 | 20 | | 4 Th | 0237 | 0.0 | 0 | | 4 Su | 0336 | 1.3 | 40 | | 19 M | 0306 | 1.6 | 50 | | | | |
| | 0801 | 8.5 | 260 | | | 0821 | 7.5 | 230 | | | 0849 | 7.2 | 220 | | | 0916 | 5.2 | 160 | | | 0844 | 5.2 | 160 | | 0844 | 5.2 | 160 |
| | 1437 | 0.7 | 20 | | | 1446 | 0.3 | 10 | | | 1505 | 0.0 | 0 | | | 1518 | 0.7 | 20 | | | 1446 | 1.0 | 30 | | 1446 | 1.0 | 30 |
| 5 Tu | 0205 | 1.0 | 30 | | 20 W | 0232 | 1.0 | 30 | | 5 F | 0315 | 0.7 | 20 | | 5 M | 0419 | 2.3 | 70 | | 20 Tu | 0337 | 2.3 | 70 | | | | |
| | 0834 | 8.2 | 250 | | | 0845 | 6.9 | 210 | | | 0919 | 6.6 | 200 | | | 0936 | 4.3 | 130 | | | 0901 | 4.6 | 140 | | 0901 | 4.6 | 140 |
| | 1507 | 0.7 | 20 | | | 1509 | 0.7 | 20 | | | 1533 | 0.3 | 10 | | | 1540 | 1.3 | 40 | | | 1503 | 1.6 | 50 | | 1503 | 1.6 | 50 |
| 6 W | 0245 | 1.0 | 30 | | 21 Th | 0302 | 1.3 | 40 | | 6 Sa | 0357 | 1.3 | 40 | | 6 Tu | 0531 | 3.0 | 90 | | 21 W | 0423 | 3.0 | 90 | | | | |
| | 0909 | 7.5 | 230 | | | 0909 | 6.6 | 200 | | | 0948 | 5.6 | 170 | | | 0915 | 5.2 | 160 | | | 0909 | 3.9 | 120 | | 0909 | 3.9 | 120 |
| | 1539 | 1.0 | 30 | | | 1533 | 0.7 | 20 | | | 1601 | 0.7 | 20 | | | 1529 | 1.0 | 30 | | | 1516 | 2.3 | 70 | | 1516 | 2.3 | 70 |
| 7 Th | 0327 | 1.3 | 40 | | 22 F | 0333 | 1.6 | 50 | | 7 Su | 0446 | 2.0 | 60 | | 7 W | 0043 | 4.9 | 150 | | 22 Th | 1410 | 3.0 | 90 | | | | |
| | 0944 | 6.9 | 210 | | | 0932 | 5.9 | 180 | | | 1014 | 4.6 | 140 | | | 0930 | 4.6 | 140 | | | 1234 | 2.6 | 80 | | 1234 | 2.6 | 80 |
| | 1613 | 1.0 | 30 | | | 1558 | 1.0 | 30 | | | 1632 | 1.3 | 40 | | | 1549 | 1.3 | 40 | | | 2242 | 4.9 | 150 | | 2242 | 4.9 | 150 |
| 8 F | 0416 | 2.0 | 60 | | 23 Sa | 0406 | 2.3 | 70 | | 8 M | 0609 | 3.0 | 90 | | 8 Th | 0407 | 5.2 | 160 | | 23 F | 0302 | 4.9 | 150 | | | | |
| | 1022 | 6.2 | 190 | | | 0954 | 5.2 | 160 | | | 1035 | 3.6 | 110 | | | 1135 | 2.0 | 60 | | | 1058 | 2.6 | 80 | | 1058 | 2.6 | 80 |
| | 1650 | 1.3 | 40 | | | 1625 | 1.3 | 40 | | | 1709 | 1.6 | 50 | | | 1723 | 3.9 | 120 | | | 1652 | 3.9 | 120 | | 1652 | 3.9 | 120 |
| 9 Sa | 0520 | 2.6 | 80 | | 24 Su | 0448 | 3.0 | 90 | | 9 Tu | 0135 | 5.2 | 160 | | 9 F | 0501 | 5.9 | 180 | | 24 Sa | 0418 | 5.9 | 180 | | | | |
| | 1104 | 5.2 | 160 | | | 1016 | 4.6 | 140 | | | 1547 | 2.6 | 80 | | | 1146 | 1.6 | 50 | | | 1105 | 2.0 | 60 | | 1105 | 2.0 | 60 |
| | 1735 | 1.6 | 50 | | | 1657 | 1.6 | 50 | | | 0013 | 4.6 | 140 | | | 1738 | 4.6 | 140 | | | 1702 | 4.9 | 150 | | 1702 | 4.9 | 150 |
| 10 Su | 0035 | 5.6 | 170 | | 25 M | 0007 | 4.9 | 150 | | 10 W | 0402 | 5.6 | 170 | | 10 Sa | 0535 | 6.2 | 190 | | 25 Su | 0458 | 6.6 | 200 | | | | |
| | 0703 | 3.3 | 100 | | | 0610 | 3.6 | 110 | | | 1151 | 2.0 | 60 | | | 1202 | 1.0 | 30 | | | 1125 | 1.3 | 40 | | 1125 | 1.3 | 40 |
| | 1204 | 4.3 | 130 | | | 1030 | 3.9 | 120 | | | 1707 | 3.3 | 100 | | | 1758 | 5.2 | 160 | | | 1724 | 5.9 | 180 | | 1724 | 5.9 | 180 |
| 11 M | 0221 | 5.9 | 180 | | 26 Tu | 0219 | 4.9 | 150 | | 11 Th | 0507 | 6.2 | 190 | | 11 Su | 0602 | 6.6 | 200 | | 26 M | 0532 | 7.2 | 220 | | | | |
| | 0948 | 3.0 | 90 | | | 1942 | 2.6 | 80 | | | 1210 | 1.3 | 40 | | | 1219 | 0.7 | 20 | | | 1147 | 0.7 | 20 | | 1147 | 0.7 | 20 |
| | 1413 | 3.6 | 110 | | | | | | 1745 | | 3.9 | 120 | | 1729 | | 3.9 | 120 | | 1819 | | 5.9 | 180 | | 1751 | 6.9 | 210 | |
| 12 Tu | 0356 | 6.2 | 190 | | 27 W | 0411 | 5.2 | 160 | | 12 F | 0548 | 6.6 | 200 | | 12 M | 0015 | 0.7 | 20 | | 27 Tu | 0604 | 7.5 | 230 | | | | |
| | 1120 | 2.3 | 70 | | | 1148 | 2.3 | 70 | | | 1231 | 1.0 | 30 | | | 0625 | 6.9 | 210 | | | 1212 | 0.3 | 10 | | 1212 | 0.3 | 10 |
| | 1622 | 3.6 | 110 | | | 1645 | 3.3 | 100 | | | 1813 | 4.6 | 140 | | | 1237 | 0.3 | 10 | | | 1819 | 7.5 | 230 | | 1819 | 7.5 | 230 |
| 13 W | 0459 | 6.9 | 210 | | 28 Th | 0504 | 6.2 | 190 | | 13 Sa | 0620 | 6.9 | 210 | | 13 Tu | 0041 | 0.3 | 10 | | 28 W | 0027 | 0.0 | 0 | | | | |
| | 1205 | 1.6 | 50 | | | 1207 | 1.6 | 50 | | | 1251 | 0.7 | 20 | | | 0647 | 6.9 | 210 | | | 0634 | 7.5 | 230 | | 0634 | 7.5 | 230 |
| | 1727 | 3.9 | 120 | | | 1734 | 3.9 | 120 | | | 1839 | 5.2 | 160 | | | 1255 | 0.3 | 10 | | | 1238 | 0.0 | 0 | | 1238 | 0.0 | 0 |
| 14 Th | 0546 | 7.5 | 230 | | 29 F | 0541 | 6.9 | 210 | | 14 Su | 0023 | 0.7 | 20 | | 14 W | 0105 | 0.3 | 10 | | 29 Th | 0102 | -0.3 | -10 | | | | |
| | 1239 | 1.3 | 40 | | | 1230 | 1.0 | 30 | | | 0647 | 7.2 | 220 | | | 0707 | 6.9 | 210 | | | 0704 | 7.5 | 230 | | 0704 | 7.5 | 230 |
| | 1811 | 4.6 | 140 | | | 1807 | 4.3 | 130 | | | 1311 | 0.3 | 10 | | | 1313 | 0.0 | 0 | | | 1304 | 0.0 | 0 | | 1304 | 0.0 | 0 |
| 15 F | 0625 | 7.9 | 240 | | 30 Sa | 0615 | 7.5 | 230 | | 15 M | 0054 | 0.3 | 10 | | 15 Th | 0128 | 0.3 | 10 | | 30 F | 0136 | 0.0 | 0 | | | | |
| | 1308 | 1.0 | 30 | | | 1254 | 0.7 | 20 | | | 0711 | 7.2 | 220 | | | 0727 | 6.9 | 210 | | | 0733 | 7.2 | 220 | | 0733 | 7.2 | 220 |
| | 1846 | 4.9 | 150 | | | 1837 | 4.9 | 150 | | | 1330 | 0.0 | 0 | | | 1331 | 0.0 | 0 | | | 1330 | 0.0 | 0 | | 1330 | 0.0 | 0 |
| 16 Sa | 0014 | 0.7 | 20 | | 31 Su | 0014 | 0.7 | 20 | | 16 Tu | 0115 | -0.7 | -20 | | 16 F | 0193 | 7.2 | 220 | | 31 M | 0136 | 0.0 | 0 | | | | |
| | 0646 | 7.9 | 240 | | | 0646 | 7.9 | 240 | | | 0728 | 7.9 | 240 | | | 0728 | 7.9 | 240 | | | 0728 | 7.9 | 240 | | 0728 | 7.9 | 240 |
| | 1320 | 0.0 | 0 | | | 1320 | 0.0 | 0 | | | 1338 | -0.7 | -20 | | | 1942 | 7.2 | 220 | | | 1338 | 0.0 | 0 | | 1338 | 0.0 | 0 |
| 17 Su | 0015 | 1.3 | 40 | | 1 M | 0015 | 1.3 | 40 | | 17 W | 0125 | 0.0 | 0 | | 1 Th | 0149 | -0.7 | -20 | | 1 F | 0151 | 0.3 | 10 | | | | |
| | 0655 | 8.2 | 250 | | | 0657 | 7.9 | 240 | | | 0734 | 7.2 | 220 | | | 0757 | 7.5 | 230 | | | 0747 | 6.6 | 200 | | 0747 | 6.6 | 200 |
| | 1337 | 1.0 | 30 | | | 1335 | 0.7 | 20 | | | 1350 | 0.0 | 0 | | | 1403 | -0.3 | -10 | | | 1349 | 0.0 | 0 | | 1349 | 0.0 | 0 |
| 18 M | 0015 | 1.3 | 40 | | 2 Tu | 0057 | 0.7 | 20 | | 2 F | 0125 | 0.0 | 0 | | 2 M | 0224 | -0.3 | -10 | | 2 Sa | 0215 | 0.7 | 20 | | | | |
| | 0655 | 8.2 | 250 | | | 0727 | 7.9 | 240 | | | 0748 | 7.9 | 240 | | | 0825 | 6.9 | 210 | | | 0806 | 6.2 | 190 | | 0806 | 6.2 | 190 |
| | 1337 | 1.0 | 30 | | | 1359 | 0.7 | 20 | | | 1411 | -0.3 | -10 | | | 1429 | -0.3 | -10 | | | 1408 | 0.3 | 10 | | 1408 | 0.3 | 10 |
| 19 Tu | 0015 | 1.3 | 40 | | 3 W | 0057 | 0.7 | 20 | | 3 Sa | 0201 | -0.3 | -10 | | 3 M | 0259 | 0.3 | 10 | | 3 Su | 0239 | 1.0 | 30 | | | | |
| | 0655 | 8.2 | 250 | | | 0727 | 7.9 | 240 | | | 0819 | 7.9 | 240 | | | | | | | | | | | | | | |

Barito River (Outer Bar), Borneo, 2011

Times and Heights of High and Low Waters

| July | | | | August | | | | September | | | | | | | | | | | | | | | | | | | | | |
|-----------------|--------|-----|-----|--------|-----------------|------|-----|-----------|--------|-----------------|------|------|--------|----|-----------------|------|-----|-----|----|-----------------|------|-----|-----|--|-----------------|------|-----|-----|--|
| Time | Height | | | Time | Height | | | Time | Height | | | Time | Height | | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | |
| 1 F | 0721 | 8.2 | 250 | | 16 Sa | 0723 | 8.9 | 270 | | 1 M | 0727 | 8.2 | 250 | | 16 Tu | 0735 | 7.2 | 220 | | 1 Th | 0024 | 3.0 | 90 | | 16 F | 0119 | 4.9 | 150 | |
| | 2234 | 0.3 | 10 | | | 2316 | 0.7 | 20 | | | 2335 | 1.0 | 30 | | | 1443 | 4.6 | 140 | | | 0718 | 6.6 | 200 | | | 0635 | 5.6 | 170 | |
| ● | | | | | | | | | | | | | | | | 1723 | 4.9 | 150 | | | 1354 | 3.6 | 110 | | | 1350 | 3.6 | 110 | |
| 2 Sa | 0754 | 8.5 | 260 | | 17 Su | 0801 | 8.5 | 260 | | 2 Tu | 0759 | 7.9 | 240 | | 17 W | 0013 | 3.0 | 90 | | 2 F | 0138 | 3.9 | 120 | | 17 Sa | 0304 | 5.2 | 160 | |
| | 2312 | 0.3 | 10 | | | 2356 | 1.3 | 40 | | | | | | | 0803 | 6.9 | 210 | | | 0752 | 6.2 | 190 | | | 0640 | 5.6 | 170 | | |
| | | | | | | | | | | | | | | | 1516 | 4.3 | 130 | | | 1445 | 3.0 | 90 | | | 1432 | 3.3 | 100 | | |
| 3 Su | 0827 | 8.5 | 260 | | 18 M | 0837 | 8.2 | 250 | | 3 W | 0023 | 1.6 | 50 | | 18 Th | 0057 | 3.6 | 110 | | 3 Sa | 0311 | 4.6 | 140 | | 18 Su | 1516 | 3.0 | 90 | |
| | 2353 | 0.3 | 10 | | | | | | | | 0830 | 7.5 | 230 | | | 0829 | 6.6 | 200 | | | 0827 | 5.9 | 180 | | | 2354 | 6.9 | 210 | |
| | | | | | | | | | | | 1540 | 4.6 | 140 | | | 1549 | 3.9 | 120 | | | 1537 | 2.3 | 70 | | | | | | |
| 4 M | 0858 | 8.9 | 270 | | 19 Tu | 0034 | 2.0 | 60 | | 4 Th | 0118 | 2.6 | 80 | | 19 F | 0147 | 4.3 | 130 | | 4 Su | 0459 | 5.2 | 160 | | 19 M | 1559 | 2.6 | 80 | |
| | | | | | | 0909 | 7.9 | 240 | | | 0902 | 7.5 | 230 | | | 0852 | 6.2 | 190 | | | 0904 | 5.9 | 180 | | | | | | |
| | | | | | | | | | | | 1610 | 3.9 | 120 | | | 1622 | 3.6 | 110 | | | 1629 | 2.0 | 60 | | | | | | |
| 5 Tu | 0037 | 1.0 | 30 | | 20 W | 0113 | 2.6 | 80 | | 5 F | 0222 | 3.3 | 100 | | 20 Sa | 0255 | 4.9 | 150 | | 5 M | 0024 | 7.5 | 230 | | 20 Tu | 0040 | 7.2 | 220 | |
| | 0928 | 8.5 | 260 | | | 0938 | 7.5 | 230 | | | 0932 | 7.2 | 220 | | | 0911 | 5.9 | 180 | | | 0642 | 5.2 | 160 | | | 1642 | 2.3 | 70 | |
| | | | | | | 1808 | 3.9 | 120 | | | 1646 | 3.0 | 90 | | | 1654 | 3.3 | 100 | | ● | 0945 | 5.6 | 170 | | ● | | | | |
| 6 W | 0125 | 1.6 | 50 | | 21 Th | 0150 | 3.3 | 100 | | 6 Sa | 0342 | 4.3 | 130 | | 21 Su | 0039 | 5.6 | 170 | | 6 Tu | 0123 | 7.9 | 240 | | 21 W | 0119 | 7.5 | 230 | |
| | 0958 | 8.5 | 260 | | | 1003 | 7.2 | 220 | | ● | 1002 | 6.9 | 210 | | | 0430 | 5.2 | 160 | | | 0804 | 5.2 | 160 | | | 1725 | 2.0 | 60 | |
| | | | | | | 1807 | 3.6 | 110 | | | 1726 | 2.3 | 70 | | | 0925 | 5.9 | 180 | | | 1031 | 5.6 | 170 | | | | | | |
| 7 Th | 0217 | 2.3 | 70 | | 22 F | 0228 | 3.9 | 120 | | 7 Su | 0041 | 5.9 | 180 | | 22 M | 0140 | 6.2 | 190 | | 7 W | 0213 | 8.2 | 250 | | 22 Th | 0153 | 7.5 | 230 | |
| | 1025 | 8.2 | 250 | | | 1024 | 6.9 | 210 | | | 0518 | 5.2 | 160 | | | 0616 | 5.6 | 170 | | | 0903 | 5.2 | 160 | | | 1809 | 2.0 | 60 | |
| | 1808 | 3.6 | 110 | | | 1822 | 3.3 | 100 | | ● | 1031 | 6.6 | 200 | | ● | 0935 | 5.9 | 180 | | | 1124 | 5.2 | 160 | | | | | | |
| | 2214 | 4.3 | 130 | | | | | | | | 1806 | 1.6 | 50 | | | 1757 | 2.3 | 70 | | | 1855 | 1.3 | 40 | | | | | | |
| 8 F | 0315 | 3.3 | 100 | | 23 Sa | 0112 | 4.6 | 140 | | 8 M | 0156 | 6.9 | 210 | | 23 Tu | 0224 | 6.6 | 200 | | 8 Th | 0258 | 8.2 | 250 | | 23 F | 0224 | 7.9 | 240 | |
| | 1051 | 7.9 | 240 | | | 0312 | 4.6 | 140 | | | 0659 | 5.6 | 170 | | | 0754 | 5.9 | 180 | | | 0946 | 5.2 | 160 | | | 0923 | 5.2 | 160 | |
| ● | 1824 | 3.0 | 90 | | ● | 1040 | 6.9 | 210 | | | 1059 | 6.2 | 190 | | | 0940 | 5.9 | 180 | | | 1221 | 5.2 | 160 | | | 1102 | 5.6 | 170 | |
| | | | | | | 1841 | 2.6 | 80 | | | 1848 | 1.0 | 30 | | | 1830 | 2.0 | 60 | | | 1941 | 1.3 | 40 | | | 1853 | 1.6 | 50 | |
| 9 Sa | 0024 | 4.9 | 150 | | 24 Su | 0247 | 5.2 | 160 | | 9 Tu | 0255 | 7.5 | 230 | | 24 W | 0301 | 6.9 | 210 | | 9 F | 0338 | 8.2 | 250 | | 24 Sa | 0254 | 7.9 | 240 | |
| | 0425 | 4.3 | 130 | | | 0422 | 5.2 | 160 | | | 0835 | 5.9 | 180 | | | 1904 | 1.3 | 40 | | | 1019 | 4.9 | 150 | | | 0923 | 5.2 | 160 | |
| | 1116 | 7.5 | 230 | | | 1052 | 6.6 | 200 | | | 1125 | 6.2 | 190 | | | | | | | | 1318 | 5.2 | 160 | | | 1225 | 5.6 | 170 | |
| | 1851 | 2.3 | 70 | | | 1902 | 2.3 | 70 | | | 1930 | 0.7 | 20 | | | | | | | | 2025 | 1.6 | 50 | | | 1939 | 2.0 | 60 | |
| 10 Su | 0203 | 5.9 | 180 | | 25 M | 0337 | 5.9 | 180 | | 10 W | 0346 | 7.9 | 240 | | 25 Th | 0335 | 7.2 | 220 | | 10 Sa | 0414 | 7.9 | 240 | | 25 Su | 0322 | 7.5 | 230 | |
| | 0551 | 5.2 | 160 | | | 0602 | 5.9 | 180 | | | 1003 | 5.9 | 180 | | | 1940 | 1.0 | 30 | | | 1048 | 4.9 | 150 | | | 0939 | 4.9 | 150 | |
| | 1138 | 7.2 | 220 | | | 1058 | 6.6 | 200 | | | 1150 | 5.9 | 180 | | | | | | | | 1414 | 5.2 | 160 | | | 1339 | 5.6 | 170 | |
| | 1924 | 1.3 | 40 | | | 1926 | 2.0 | 60 | | | 2012 | 0.3 | 10 | | | | | | | | 2107 | 2.0 | 60 | | | 2028 | 2.3 | 70 | |
| 11 M | 0318 | 6.6 | 200 | | 26 Tu | 0413 | 6.6 | 200 | | 11 Th | 0432 | 8.2 | 250 | | 26 F | 0407 | 7.5 | 230 | | 11 Su | 0446 | 7.5 | 230 | | 26 M | 0351 | 7.5 | 230 | |
| | 0730 | 5.9 | 180 | | | 0746 | 6.2 | 190 | | | 1127 | 5.9 | 180 | | | 1025 | 5.9 | 180 | | | 1113 | 4.6 | 140 | | | 1005 | 4.6 | 140 | |
| | 1157 | 6.9 | 210 | | | 1059 | 6.6 | 200 | | | 1210 | 5.9 | 180 | | | 1128 | 5.9 | 180 | | | 1512 | 5.2 | 160 | | | 1453 | 5.9 | 180 | |
| | 2000 | 0.7 | 20 | | | 1953 | 1.3 | 40 | | | 2053 | 0.7 | 20 | | | 2019 | 1.0 | 30 | | | 2149 | 2.6 | 80 | | | 2120 | 2.6 | 80 | |
| 12 Tu | 0418 | 7.5 | 230 | | 27 W | 0446 | 6.9 | 210 | | 12 F | 0514 | 8.2 | 250 | | 27 Sa | 0438 | 7.5 | 230 | | 12 M | 0515 | 6.9 | 210 | | 27 Tu | 0420 | 7.2 | 220 | |
| | 0920 | 6.2 | 190 | | | 0602 | 6.6 | 200 | | | 2134 | 0.7 | 20 | | | 1042 | 5.9 | 180 | | | 1139 | 4.6 | 140 | | | 1038 | 3.9 | 120 | |
| | 1209 | 6.6 | 200 | | | 1042 | 6.6 | 200 | | | | | | | | 1241 | 5.9 | 180 | | | 1612 | 5.2 | 160 | | | 1611 | 5.9 | 180 | |
| | 2038 | 0.3 | 10 | | | 2022 | 1.0 | 30 | | | | | | | | 2100 | 1.0 | 30 | | ○ | 2232 | 3.3 | 100 | | ● | 2217 | 3.3 | 100 | |
| 13 W | 0510 | 8.2 | 250 | | 28 Th | 0518 | 7.5 | 230 | | 13 Sa | 0553 | 8.2 | 250 | | 28 Su | 0509 | 7.5 | 230 | | 13 Tu | 0541 | 6.6 | 200 | | 28 W | 0449 | 6.9 | 210 | |
| | 2117 | 0.0 | 0 | | | 2055 | 0.7 | 20 | | | 2214 | 1.0 | 30 | | | 1107 | 5.6 | 170 | | | 1206 | 4.3 | 130 | | | 1117 | 3.3 | 100 | |
| | | | | | | | | | | | | | | | | 1353 | 5.9 | 180 | | | 1718 | 5.6 | 170 | | | 1735 | 6.2 | 190 | |
| 14 Th | 0557 | 8.5 | 260 | | 29 F | 0550 | 7.9 | 240 | | 14 Su | 0630 | 7.9 | 240 | | 29 M | 0540 | 7.5 | 230 | | 14 W | 0603 | 6.2 | 190 | | 29 Th | 0519 | 6.6 | 200 | |
| | 2157 | 0.0 | 0 | | | 2130 | 0.3 | 10 | | | 1349 | 5.2 | 160 | | | 1140 | 5.2 | 160 | | | 1236 | 3.9 | 120 | | | 1202 | 3.0 | 90 | |
| | | | | | | | | | | | 1439 | 5.2 | 160 | | ● | 1508 | 5.9 | 180 | | | 1834 | 5.6 | 170 | | | 1905 | 6.9 | 210 | |
| | | | | | | | | | | | 2254 | 1.6 | 50 | | | 2231 | 1.6 | 50 | | | | | | | | | | | |
| 15 F | 0642 | 8.9 | 270 | | 30 Sa | 0622 | 7.9 | 240 | | < | | | | | | | | | | | | | | | | | | | |

Barito River (Outer Bar), Borneo, 2011

Times and Heights of High and Low Waters

| October | | | | November | | | | December | | | | | | | | | | | | | | | |
|-----------------|--------|-----|-----|-----------------|--------|-----|-----|-----------------|--------|-----|-----|-----------------|--------|-----|-----|-----------------|------|-----|-----|-----------------|------|-----|-----|
| Time | Height | | | Time | Height | | | Time | Height | | | Time | Height | | | | | | | | | | |
| | h | m | cm | | h | m | cm | | h | m | cm | | h | m | cm | | | | | | | | |
| 1 Sa | 0245 | 5.2 | 160 | 16 Su | 1310 | 2.6 | 80 | 1 Tu | 1445 | 1.6 | 50 | 16 W | 1347 | 2.0 | 60 | 1 Th | 1449 | 2.6 | 80 | 16 F | 1358 | 2.3 | 70 |
| | 0617 | 5.6 | 170 | | 2229 | 7.9 | 240 | | 2319 | 9.5 | 290 | | 2303 | 9.2 | 280 | | 2315 | 9.5 | 290 | | 2243 | 9.2 | 280 |
| | 1344 | 2.0 | 60 | | | | | | | | | | | | | | | | | | | | |
| | 2152 | 7.9 | 240 | | | | | | | | | | | | | | | | | | | | |
| 2 Su | 0504 | 5.2 | 160 | 17 M | 1354 | 2.3 | 70 | 2 W | 1538 | 2.0 | 60 | 17 Th | 1435 | 2.3 | 70 | 2 F | 0732 | 3.9 | 120 | 17 Sa | 1449 | 3.3 | 100 |
| | 0641 | 5.2 | 160 | | 2312 | 8.2 | 250 | | 2359 | 9.2 | 280 | | 2331 | 9.2 | 280 | | 1044 | 4.3 | 130 | | 2307 | 8.9 | 270 |
| | 1439 | 1.6 | 50 | | | | | | | | | | | | | | 1538 | 3.3 | 100 | | | | |
| | 2259 | 8.2 | 250 | | | | | | | | | | | | | | 2344 | 8.9 | 270 | | | | |
| 3 M | 1534 | 1.6 | 50 | 18 Tu | 1442 | 2.3 | 70 | 3 Th | 0808 | 4.3 | 130 | 18 F | 1527 | 2.6 | 80 | 3 Sa | 0740 | 3.6 | 110 | 18 Su | 0703 | 4.3 | 130 |
| | 2354 | 8.5 | 260 | | 2349 | 8.2 | 250 | | 1034 | 4.3 | 130 | | 2357 | 8.9 | 270 | | 1234 | 4.6 | 140 | | 1114 | 4.9 | 150 |
| | | | | | | | | | 1631 | 2.6 | 80 | | | | | | 1627 | 4.3 | 130 | | 1546 | 3.9 | 120 |
| | | | | | | | | | | | | | | | | | | | | | 2330 | 8.5 | 260 |
| 4 Tu | 1629 | 1.6 | 50 | 19 W | 1531 | 2.3 | 70 | 4 F | 0035 | 8.9 | 270 | 19 Sa | 0814 | 4.6 | 140 | 4 Su | 0009 | 8.5 | 260 | 19 M | 0709 | 3.6 | 110 |
| | | | | | | | | | 0817 | 3.9 | 120 | | 1020 | 4.6 | 140 | | 0755 | 3.3 | 100 | | 1312 | 5.6 | 170 |
| | | | | | | | | | 1211 | 4.6 | 140 | | 1622 | 3.3 | 100 | | 1406 | 5.2 | 160 | | 1654 | 4.9 | 150 |
| | | | | | | | | | 1723 | 3.3 | 100 | | | | | | 1716 | 4.9 | 150 | | 2351 | 8.2 | 250 |
| 5 W | 0043 | 8.9 | 270 | 20 Th | 0022 | 8.5 | 260 | 5 Sa | 0106 | 8.5 | 260 | 20 Su | 0022 | 8.5 | 260 | 5 M | 0027 | 7.9 | 240 | 20 Tu | 0731 | 2.6 | 80 |
| | 0825 | 4.6 | 140 | | 1621 | 2.3 | 70 | | 0834 | 3.6 | 110 | | 0754 | 4.3 | 130 | | 0813 | 3.0 | 90 | | 1442 | 6.2 | 190 |
| | 1026 | 4.9 | 150 | | | | | | 1330 | 4.9 | 150 | | 1223 | 4.9 | 150 | | 1526 | 5.9 | 180 | | 1816 | 5.9 | 180 |
| | 1722 | 2.0 | 60 | | | | | | 1813 | 3.9 | 120 | | 1720 | 3.9 | 120 | | 1812 | 5.6 | 170 | | | | |
| 6 Th | 0125 | 8.9 | 270 | 21 F | 0052 | 8.5 | 260 | 6 Su | 0131 | 8.2 | 250 | 21 M | 0045 | 8.2 | 250 | 6 Tu | 0039 | 7.5 | 230 | 21 W | 0011 | 7.9 | 240 |
| | 0848 | 4.6 | 140 | | 1712 | 2.3 | 70 | | 0851 | 3.6 | 110 | | 0805 | 3.6 | 110 | | 0832 | 2.6 | 80 | | 0800 | 2.0 | 60 |
| | 1147 | 4.9 | 150 | | | | | | 1441 | 5.6 | 170 | | 1356 | 5.6 | 170 | | 1634 | 6.6 | 200 | | 1555 | 7.2 | 220 |
| | 1813 | 2.3 | 70 | | | | | | 1904 | 4.6 | 140 | | 1824 | 4.6 | 140 | | 1918 | 6.2 | 190 | | 1953 | 6.6 | 200 |
| 7 F | 0203 | 8.5 | 260 | 22 Sa | 0120 | 8.2 | 250 | 7 M | 0149 | 7.5 | 230 | 22 Tu | 0107 | 7.9 | 240 | 7 W | 0042 | 7.2 | 220 | 22 Th | 0028 | 7.5 | 230 |
| | 0910 | 4.3 | 130 | | 0838 | 4.6 | 140 | | 0910 | 3.3 | 100 | | 0828 | 2.6 | 80 | | 0853 | 2.3 | 70 | | 0834 | 1.3 | 40 |
| | 1257 | 4.9 | 150 | | 1140 | 4.9 | 150 | | 1547 | 5.9 | 180 | | 1518 | 6.2 | 190 | | 1730 | 7.2 | 220 | | 1655 | 8.2 | 250 |
| | 1902 | 2.6 | 80 | | 1804 | 2.6 | 80 | | 1956 | 5.2 | 160 | | 1937 | 5.6 | 170 | | 2045 | 6.9 | 210 | | 2148 | 7.2 | 220 |
| 8 Sa | 0236 | 8.2 | 250 | 23 Su | 0146 | 8.2 | 250 | 8 Tu | 0201 | 7.2 | 220 | 23 W | 0128 | 7.5 | 230 | 8 Th | 0032 | 7.2 | 220 | 23 F | 0036 | 7.2 | 220 |
| | 0932 | 4.3 | 130 | | 0841 | 4.3 | 130 | | 0929 | 3.0 | 90 | | 0858 | 2.0 | 60 | | 0915 | 2.0 | 60 | | 0912 | 0.7 | 20 |
| | 1401 | 5.2 | 160 | | 1308 | 5.2 | 160 | | 1652 | 6.2 | 190 | | 1634 | 7.2 | 220 | | 1817 | 7.5 | 230 | | 1749 | 8.9 | 270 |
| | 1949 | 3.3 | 100 | | 1859 | 3.3 | 100 | | 2055 | 5.9 | 180 | | 2104 | 6.2 | 190 | | | | | | | | |
| 9 Su | 0303 | 7.5 | 230 | 24 M | 0211 | 7.9 | 240 | 9 W | 0205 | 6.9 | 210 | 24 Th | 0145 | 7.2 | 220 | 9 F | 0940 | 1.6 | 50 | 24 Sa | 0951 | 0.3 | 10 |
| | 0952 | 3.9 | 120 | | 0859 | 3.9 | 120 | | 0950 | 2.6 | 80 | | 0934 | 1.3 | 40 | | 1857 | 8.2 | 250 | | 1837 | 9.5 | 290 |
| | 1501 | 5.6 | 170 | | 1427 | 5.9 | 180 | | 1755 | 6.9 | 210 | | 1743 | 7.9 | 240 | | | | | | | | |
| | 2035 | 3.6 | 110 | | 1957 | 3.9 | 120 | | 2213 | 6.2 | 190 | | 2256 | 6.9 | 210 | | | | | | | | |
| 10 M | 0326 | 7.2 | 220 | 25 Tu | 0236 | 7.5 | 230 | 10 Th | 0155 | 6.6 | 200 | 25 F | 0152 | 6.9 | 210 | 10 Sa | 1009 | 1.6 | 50 | 25 Su | 1034 | 0.3 | 10 |
| | 1012 | 3.9 | 120 | | 0927 | 3.3 | 100 | | 1013 | 2.3 | 70 | | 1013 | 1.0 | 30 | | 1935 | 8.5 | 260 | | 1923 | 9.8 | 300 |
| | 1602 | 5.6 | 170 | | 1546 | 6.2 | 190 | | 1854 | 7.2 | 220 | | 1846 | 8.9 | 270 | | | | | | | | |
| | 2122 | 4.3 | 130 | | 2102 | 4.6 | 140 | | | | | | | | | | | | | | | | |
| 11 Tu | 0343 | 6.6 | 200 | 26 W | 0300 | 7.2 | 220 | 11 F | 1040 | 2.3 | 70 | 26 Sa | 1055 | 0.7 | 20 | 11 Su | 1039 | 1.3 | 40 | 26 M | 1116 | 0.7 | 20 |
| | 1033 | 3.6 | 110 | | 1000 | 2.6 | 80 | | 1948 | 7.9 | 240 | | 1941 | 9.5 | 290 | | 2011 | 8.9 | 270 | | 2006 | 9.8 | 300 |
| | 1705 | 5.9 | 180 | | 1705 | 6.9 | 210 | | | | | | | | | | | | | | | | |
| | 2214 | 4.9 | 150 | | 2219 | 5.2 | 160 | | | | | | | | | | | | | | | | |
| 12 W | 0354 | 6.2 | 190 | 27 Th | 0323 | 6.9 | 210 | 12 Sa | 1110 | 2.0 | 60 | 27 Su | 1140 | 0.7 | 20 | 12 M | 1113 | 1.3 | 40 | 27 Tu | 1159 | 1.0 | 30 |
| | 1057 | 3.3 | 100 | | 1039 | 2.0 | 60 | | 2036 | 8.2 | 250 | | 2032 | 9.8 | 300 | | 2045 | 9.2 | 280 | | 2046 | 9.8 | 300 |
| | 1813 | 6.2 | 190 | | 1824 | 7.5 | 230 | | | | | | | | | | | | | | | | |
| | 2319 | 5.2 | 160 | | 2359 | 5.9 | 180 | | | | | | | | | | | | | | | | |
| 13 Th | 0357 | 5.9 | 180 | 28 F | 0340 | 6.2 | 190 | 13 Su | 1144 | 2.0 | 60 | 28 M | 1226 | 1.0 | 30 | 13 Tu | 1150 | 1.3 | 40 | 28 W | 1242 | 1.6 | 50 |
| | 1124 | 3.0 | 90 | | 1123 | 1.6 | 50 | | 2118 | 8.5 | 260 | | 2119 | 9.8 | 300 | | 2117 | 9.2 | 280 | | 2124 | 9.5 | 290 |
| | 1925 | 6.6 | 200 | | 1938 | 8.2 | 250 | | | | | | | | | | | | | | | | |
| 14 F | 0102 | 5.6 | 170 | 29 Sa | 1209 | 1.3 | 40 | 14 M | 1221 | 1.6 | 50 | 29 Tu | 1313 | 1.3 | 40 | 14 W | 1229 | 1.6 | 50 | 29 Th | 1325 | 2.6 | 80 |
| | 0336 | 5.9 | 180 | | 2044 | 8.9 | 270 | | 2156 | 8.9 | 270 | | 2202 | 9.8 | 300 | | 2148 | 9.5 | 290 | | 2158 | 9.2 | 280 |
| | 1155 | 3.0 | 90 | | | | | | | | | | | | | | | | | | | | |
| | 2035 | 6.9 | 210 | | | | | | | | | | | | | | | | | | | | |
| 15 Sa | 1231 | 2.6 | 80 | 30 Su | 1259 | 1.3 | 40 | 15 Tu | 1302 | 1.6 | 50 | 30 W | 1401 | 2.0 | 60 | 15 Th | 1312 | 2.0 | 60 | 30 F | 0649 | 4.6 | 140 |
| | 2137 | 7.2 | 220 | | 2142 | 9.2 | 280 | | 2231 | 8.9 | 270 | | 2240 | 9.8 | 300 | | 2216 | 9.2 | 280 | | 0817 | 4.6 | 140 |
| | | | | | | | | | | | | | | | | | | | | | 1408 | 3.3 | 100 |
| | | | | | | | | | | | | | | | | | | | | | 2228 | 8.9 | 270 |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | 31 M | 1351 | 1.3 | 40 | | | | | | | | | | | | | | | | |

Pages 172 through 175 intentionally omitted

Davao, Philippines, 2011

Times and Heights of High and Low Waters

| January | | | | February | | | | March | | | | | | | | | | | | | | | | |
|-----------------|------|--------|-----|----------------|-----------------|--------|------|-------|-----|-----------------|------|------|------|--------|-----------------|------|------|-----|----|-----------------|------|------|------|-----|
| Time | | Height | | Time | | Height | | Time | | Height | | Time | | Height | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | |
| 1 Sa | 0346 | 3.0 | 90 | | 16 Su | 0331 | 2.6 | 80 | | 1 Tu | 0528 | 3.6 | 110 | | 16 W | 0452 | 3.6 | 110 | | | | | | |
| | 0908 | 1.0 | 30 | | | 0838 | 1.3 | 40 | | | 1058 | 0.3 | 10 | | | 1025 | 0.7 | 20 | | 1002 | 1.0 | 30 | | |
| | 1536 | 4.6 | 140 | | | 1523 | 3.9 | 120 | | | 1709 | 4.9 | 150 | | | 1644 | 5.2 | 160 | | 1610 | 4.6 | 140 | | |
| | 2231 | -0.3 | -10 | | | 2219 | 0.0 | 0 | | | 2347 | -0.7 | -20 | | | 2318 | -0.7 | -20 | | 2252 | 0.0 | 0 | | |
| 2 Su | 0446 | 3.3 | 100 | | 17 M | 0431 | 3.0 | 90 | | 2 W | 0558 | 3.9 | 120 | | 17 Th | 0527 | 4.3 | 130 | | 2 W | 0504 | 3.9 | 120 | |
| | 1009 | 0.7 | 20 | | | 0948 | 1.0 | 30 | | | 1138 | 0.0 | 0 | | | 1109 | 0.0 | 0 | | | 1046 | 0.7 | 20 | |
| | 1629 | 4.9 | 150 | | | 1617 | 4.6 | 140 | | | 1747 | 5.2 | 160 | | | 1726 | 5.9 | 180 | | | 1652 | 4.9 | 150 | |
| | 2316 | -0.7 | -20 | | | 2302 | -0.3 | -10 | | | | | | | | 2352 | -1.0 | -30 | | | 2322 | -0.3 | -10 | |
| 3 M | 0531 | 3.6 | 110 | | 18 Tu | 0514 | 3.3 | 100 | | 3 Th | 0017 | -1.0 | -30 | | 18 F | 0600 | 4.9 | 150 | | 3 Th | 0530 | 4.3 | 130 | |
| | 1059 | 0.3 | 10 | | | 1040 | 0.3 | 10 | | | 0626 | 4.3 | 130 | | | 1150 | -0.7 | -20 | | | 1121 | 0.0 | 0 | |
| | 1714 | 5.2 | 160 | | | 1701 | 5.2 | 160 | | | 1212 | -0.3 | -10 | | | 1805 | 6.2 | 190 | | | 1728 | 5.2 | 160 | |
| | 2355 | -1.0 | -30 | | | 2340 | -1.0 | -30 | | | ● | 1820 | 5.6 | 170 | | | ○ | | | | | 2348 | -0.3 | -10 |
| 4 Tu | 0609 | 3.9 | 120 | | 19 W | 0551 | 3.9 | 120 | | 4 F | 0044 | -1.0 | -30 | | 19 Sa | 0024 | -1.3 | -40 | | 4 F | 0555 | 4.6 | 140 | |
| | 1142 | 0.0 | 0 | | | 1123 | 0.0 | 0 | | | 0651 | 4.6 | 140 | | | 0632 | 5.2 | 160 | | | 1152 | -0.3 | -10 | |
| | 1755 | 5.6 | 170 | | | 1742 | 5.6 | 170 | | | 1243 | -0.3 | -10 | | | 1842 | 6.2 | 190 | | | 1758 | 5.6 | 170 | |
| | ● | | | | | | | | | | 1850 | 5.6 | 170 | | | | | | | | | | | |
| 5 W | 0030 | -1.3 | -40 | | 20 Th | 0015 | -1.3 | -40 | | 5 Sa | 0109 | -1.0 | -30 | | 20 Su | 0057 | -1.3 | -40 | | 5 Sa | 0012 | -0.7 | -20 | |
| | 0643 | 3.9 | 120 | | | 0625 | 4.3 | 130 | | | 0714 | 4.6 | 140 | | | 0705 | 5.6 | 170 | | | 0617 | 4.9 | 150 | |
| | 1221 | -0.3 | -10 | | | 1204 | -0.3 | -10 | | | 1312 | -0.7 | -20 | | | 1309 | -1.0 | -30 | | | 1221 | -0.3 | -10 | |
| | 1831 | 5.6 | 170 | | | 1821 | 5.9 | 180 | | | 1918 | 5.2 | 160 | | | 1920 | 6.2 | 190 | | | ● | 1826 | 5.6 | 170 |
| 6 Th | 0103 | -1.3 | -40 | | 21 F | 0050 | -1.6 | -50 | | 6 Su | 0132 | -1.0 | -30 | | 21 M | 0129 | -1.3 | -40 | | 6 Su | 0035 | -0.7 | -20 | |
| | 0714 | 4.3 | 130 | | | 0659 | 4.6 | 140 | | | 0739 | 4.9 | 150 | | | 0739 | 5.9 | 180 | | | 0640 | 5.2 | 160 | |
| | 1256 | -0.3 | -10 | | | 1244 | -0.7 | -20 | | | 1340 | -0.3 | -10 | | | 1349 | -1.0 | -30 | | | 1248 | -0.7 | -20 | |
| | 1905 | 5.6 | 170 | | | 1859 | 6.2 | 190 | | | 1946 | 5.2 | 160 | | | 1958 | 5.6 | 170 | | | 1853 | 5.6 | 170 | |
| 7 F | 0132 | -1.3 | -40 | | 22 Sa | 0123 | -1.6 | -50 | | 7 M | 0156 | -0.7 | -20 | | 22 Tu | 0202 | -1.0 | -30 | | 7 M | 0058 | -0.7 | -20 | |
| | 0743 | 4.3 | 130 | | | 0733 | 4.9 | 150 | | | 0804 | 4.6 | 140 | | | 0814 | 5.6 | 170 | | | 0704 | 5.2 | 160 | |
| | 1329 | -0.3 | -10 | | | 1324 | -0.7 | -20 | | | 1408 | -0.3 | -10 | | | 1430 | -0.7 | -20 | | | 1315 | -0.7 | -20 | |
| | 1937 | 5.2 | 160 | | | 1938 | 5.9 | 180 | | | 2013 | 4.9 | 150 | | | 2035 | 4.9 | 150 | | | 1920 | 5.2 | 160 | |
| 8 Sa | 0200 | -1.0 | -30 | | 23 Su | 0157 | -1.3 | -40 | | 8 Tu | 0219 | -0.3 | -10 | | 23 W | 0234 | -0.7 | -20 | | 8 Tu | 0121 | -0.3 | -10 | |
| | 0810 | 4.3 | 130 | | | 0808 | 4.9 | 150 | | | 0829 | 4.6 | 140 | | | 0851 | 5.6 | 170 | | | 0728 | 5.2 | 160 | |
| | 1402 | 0.0 | 0 | | | 1405 | -0.7 | -20 | | | 1434 | 0.0 | 0 | | | 1512 | -0.3 | -10 | | | 1340 | -0.3 | -10 | |
| | 2008 | 4.9 | 150 | | | 2017 | 5.6 | 170 | | | 2038 | 4.6 | 140 | | | 2112 | 4.3 | 130 | | | 1946 | 4.9 | 150 | |
| 9 Su | 0227 | -0.7 | -20 | | 24 M | 0232 | -1.0 | -30 | | 9 W | 0241 | 0.0 | 0 | | 24 Th | 0307 | 0.0 | 0 | | 9 W | 0142 | -0.3 | -10 | |
| | 0839 | 4.3 | 130 | | | 0845 | 4.9 | 150 | | | 1502 | 0.3 | 10 | | | 1601 | 0.3 | 10 | | | 0751 | 5.2 | 160 | |
| | 1434 | 0.0 | 0 | | | 1448 | -0.3 | -10 | | | 2104 | 3.9 | 120 | | | 2153 | 3.6 | 110 | | | 1406 | -0.3 | -10 | |
| | 2039 | 4.6 | 140 | | | 2056 | 4.9 | 150 | | | | | | | | | | | | | 2011 | 4.6 | 140 | |
| 10 M | 0255 | -0.3 | -10 | | 25 Tu | 0307 | -0.7 | -20 | | 10 Th | 0304 | 0.3 | 10 | | 25 F | 0342 | 0.7 | 20 | | 10 Th | 0204 | 0.0 | 0 | |
| | 0910 | 3.9 | 120 | | | 0924 | 4.9 | 150 | | | 0922 | 4.3 | 130 | | | 1020 | 4.6 | 140 | | | 0816 | 4.9 | 150 | |
| | 1507 | 0.3 | 10 | | | 1534 | 0.0 | 0 | | | 1537 | 0.7 | 20 | | | 1708 | 1.0 | 30 | | | 1434 | 0.0 | 0 | |
| | 2109 | 4.3 | 130 | | | 2138 | 4.3 | 130 | | | 2137 | 3.3 | 100 | | | ● | 2250 | 2.6 | 80 | | | 2037 | 4.3 | 130 |
| 11 Tu | 0323 | 0.0 | 0 | | 26 W | 0343 | 0.0 | 0 | | 11 F | 0332 | 0.7 | 20 | | 26 Sa | 0429 | 1.3 | 40 | | 11 F | 0228 | 0.3 | 10 | |
| | 0941 | 3.9 | 120 | | | 1009 | 4.6 | 140 | | | 1000 | 3.9 | 120 | | | 1138 | 3.9 | 120 | | | 0845 | 4.9 | 150 | |
| | 1542 | 0.7 | 20 | | | 1629 | 0.3 | 10 | | | 1629 | 1.0 | 30 | | | 1905 | 1.3 | 40 | | | 1509 | 0.3 | 10 | |
| | 2141 | 3.6 | 110 | | | ● | 2225 | 3.6 | 110 | | | ● | 2224 | 3.0 | | 90 | | | | | | | 2110 | 3.6 | 110 |
| 12 W | 0351 | 0.3 | 10 | | 27 Th | 0424 | 0.3 | 10 | | 12 Sa | 0408 | 1.0 | 30 | | 27 Su | 0128 | 2.3 | 70 | | 12 Sa | 0256 | 1.0 | 30 | |
| | 1016 | 3.6 | 110 | | | 1105 | 4.3 | 130 | | | 1058 | 3.6 | 110 | | | 0614 | 2.0 | 60 | | | 0922 | 4.6 | 140 | |
| | 1628 | 1.0 | 30 | | | 1742 | 1.0 | 30 | | | 1812 | 1.3 | 40 | | | 1343 | 3.9 | 120 | | | 1557 | 1.0 | 30 | |
| | ● | | | | | 2334 | 2.6 | 80 | | | 2354 | 2.3 | 70 | | | 2124 | 1.0 | 30 | | | 2157 | 3.0 | 90 | |
| 13 Th | 0425 | 0.7 | 20 | | 28 F | 0521 | 1.0 | 30 | | 13 Su | 0513 | 1.6 | 50 | | 28 M | 0352 | 2.6 | 80 | | 13 Su | 0331 | 1.3 | 40 | |
| | 1105 | 3.6 | 110 | | | 1230 | 3.9 | 120 | | | 1246 | 3.6 | 110 | | | 0852 | 1.6 | 50 | | | 1017 | 4.3 | 130 | |
| | 1741 | 1.3 | 40 | | | 1936 | 1.0 | 30 | | | 2040 | 1.0 | 30 | | | 1513 | 3.9 | 120 | | | 1720 | 1.3 | 40 | |
| | 2322 | 2.6 | 80 | | | | | | | | | | | | | 2218 | 0.7 | 20 | | | ● | 2324 | 2.6 | 80 |
| 14 F | 0517 | 1.3 | 40 | | 29 Sa | 0150 | 2.3 | 70 | | 14 M | 0302 | 2.3 | 70 | | 14 M | 0434 | 1.6 | 50 | | 14 M | 0300 | 3.0 | 90 | |
| | 1222 | 3.3 | 100 | | | 0703 | 1.3 | 40 | | | 0928 | 1.6 | 50 | | | 1152 | 3.9 | 120 | | | 0828 | 2.0 | 60 | |
| | 1933 | 1.3 | 40 | | | 1410 | 3.9 | 120 | | | 1451 | 3.9 | 120 | | | 1950 | 1.3 | 40 | | | 1441 | 3.9 | 120 | |
| | | | | | | 2137 | 0.7 | 20 | | | 2157 | 0.3 | 10 | | | | | | | | 2131 | 1.0 | 30 | |
| 15 Sa | 0123 | 2.3 | 70 | | 30 Su | 0357 | 2.6 | 80 | | 15 Tu | 0411 | 3.0 | 90 | | 15 Tu | 0214 | 2.6 | 80 | | 15 W | 0349 | 3.6 | 110 | |
| | 0653 | 1.3 | 40 | | | 0859 | 1.3 | 40 | | | 0928 | 1.3 | 40 | | | 0706 | 2.0 | 60 | | | 0937 | 1.3 | 40 | |
| | 1409 | 3.6 | 110 | | | 1529 | 4.3 | 130 | | | 1556 | 4.6 | 140 | | | 1406 | 4.3 | 130 | | | 1541 | 4.3 | 130 | |
| | 2116 | 0.7 | 20 | | | 2236 | 0.0 | 0 | | | 2241 | -0.3 | -10 | | | 2114 | 1.0 | 30 | | | 2210 | 0.7 | 20 | |
| | | | | 31 M | 0452 | 3.0 | 90 | | | | | | | | | | | | | | | | | |
| | | | | | 1010 | 1.0 | 30 | | | | | | | | | | | | | | | | | |
| | | | | | 1625 | 4.6 | 140 | | | | | | | | | | | | | | | | | |
| | | | | | 2315 | -0.3 | -10 | | | | | | | | | | | | | | | | | |

Time meridian 120° E. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to the chart datum of soundings.

Davao, Philippines, 2011

Times and Heights of High and Low Waters

| July | | | | August | | | | September | | | | | | | |
|-----------------|--------|------|------|--------|--|-----------------|--------|-----------|------|--------|---|-----------------|--------|------|-----|
| Time | Height | | Time | Height | | Time | Height | | Time | Height | | Time | Height | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | |
| 1 F | 0522 | 5.6 | 170 | | | 16 Sa | 0603 | 5.9 | 180 | | | 1 Th | 0117 | -0.7 | -20 |
| | 1158 | -0.7 | -20 | | | | 1233 | -0.7 | -20 | | | | 0723 | 5.9 | 180 |
| | 1814 | 4.3 | 130 | | | | 1847 | 4.6 | 140 | | | | 1325 | -0.7 | -20 |
| | 2342 | 0.7 | 20 | | | | | | | | | | 1940 | 6.2 | 190 |
| 2 Sa | 0559 | 5.9 | 180 | | | 17 Su | 0029 | 0.3 | 10 | | | 2 F | 0159 | -0.3 | -10 |
| | 1232 | -1.0 | -30 | | | | 0639 | 5.9 | 180 | | | | 0802 | 5.2 | 160 |
| | 1849 | 4.6 | 140 | | | | 1304 | -0.7 | -20 | | | | 1359 | 0.0 | 0 |
| | | | | | | | 1917 | 4.9 | 150 | | | | 2018 | 5.9 | 180 |
| 3 Su | 0020 | 0.3 | 10 | | | 18 M | 0106 | 0.3 | 10 | | | 3 Sa | 0244 | 0.0 | 0 |
| | 0636 | 5.9 | 180 | | | | 0713 | 5.6 | 170 | | | | 0842 | 4.6 | 140 |
| | 1306 | -1.0 | -30 | | | | 1333 | -0.7 | -20 | | | | 1432 | 0.3 | 10 |
| | 1922 | 4.6 | 140 | | | | 1947 | 4.9 | 150 | | | | 2059 | 5.6 | 170 |
| 4 M | 0101 | 0.3 | 10 | | | 19 Tu | 0142 | 0.3 | 10 | | | 4 Su | 0337 | 0.7 | 20 |
| | 0714 | 5.9 | 180 | | | | 0745 | 5.2 | 160 | | | | 0928 | 3.6 | 110 |
| | 1341 | -0.7 | -20 | | | | 1401 | -0.3 | -10 | | | | 1510 | 1.0 | 30 |
| | 1958 | 4.9 | 150 | | | | 2017 | 4.9 | 150 | | | | 2148 | 4.9 | 150 |
| 5 Tu | 0143 | 0.3 | 10 | | | 20 W | 0218 | 0.7 | 20 | | | 5 M | 0450 | 1.0 | 30 |
| | 0755 | 5.6 | 170 | | | | 0818 | 4.9 | 150 | | | | 1040 | 3.0 | 90 |
| | 1417 | -0.3 | -10 | | | | 1429 | 0.0 | 0 | | | | 1601 | 1.6 | 50 |
| | 2036 | 4.9 | 150 | | | | 2048 | 4.6 | 140 | | | | 2305 | 4.3 | 130 |
| 6 W | 0229 | 0.3 | 10 | | | 21 Th | 0254 | 0.7 | 20 | | | 6 Tu | 0637 | 1.3 | 40 |
| | 0838 | 5.2 | 160 | | | | 0850 | 4.3 | 130 | | | | 1313 | 3.0 | 90 |
| | 1456 | 0.0 | 0 | | | | 1456 | 0.7 | 20 | | | | 1754 | 2.3 | 70 |
| | 2118 | 4.9 | 150 | | | | 2121 | 4.6 | 140 | | | | | | |
| 7 Th | 0320 | 0.7 | 20 | | | 22 F | 0334 | 1.0 | 30 | | | 7 W | 0106 | 4.3 | 130 |
| | 0925 | 4.6 | 140 | | | | 0923 | 3.9 | 120 | | | | 0830 | 1.0 | 30 |
| | 1537 | 0.3 | 10 | | | | 1524 | 1.0 | 30 | | | | 1507 | 3.3 | 100 |
| | 2205 | 4.6 | 140 | | | | 2157 | 4.3 | 130 | | | | 2018 | 2.0 | 60 |
| 8 F | 0421 | 1.0 | 30 | | | 23 Sa | 0425 | 1.3 | 40 | | | 8 Th | 0237 | 4.6 | 140 |
| | 1021 | 3.9 | 120 | | | | 1004 | 3.3 | 100 | | | | 0933 | 0.7 | 20 |
| | 1624 | 0.7 | 20 | | | | 1555 | 1.3 | 40 | | | | 1555 | 3.9 | 120 |
| | 2303 | 4.6 | 140 | | | | 2242 | 3.9 | 120 | | | | 2129 | 1.3 | 40 |
| 9 Sa | 0536 | 1.0 | 30 | | | 24 Su | 0541 | 1.6 | 50 | | | 9 F | 0337 | 4.9 | 150 |
| | 1134 | 3.6 | 110 | | | | 1107 | 3.0 | 90 | | | | 1013 | 0.3 | 10 |
| | 1725 | 1.3 | 40 | | | | 1642 | 1.6 | 50 | | | | 1628 | 4.3 | 130 |
| | | | | | | | 2351 | 3.9 | 120 | | | | 2216 | 1.0 | 30 |
| 10 Su | 0015 | 4.6 | 140 | | | 25 M | 0715 | 1.6 | 50 | | | 10 Sa | 0422 | 5.2 | 160 |
| | 0704 | 1.0 | 30 | | | | 1309 | 2.6 | 80 | | | | 1046 | 0.0 | 0 |
| | 1312 | 3.3 | 100 | | | | 1813 | 2.0 | 60 | | | | 1657 | 4.9 | 150 |
| | 1845 | 1.6 | 50 | | | | | | | | | | 2253 | 0.3 | 10 |
| 11 M | 0135 | 4.6 | 140 | | | 26 Tu | 0129 | 3.9 | 120 | | | 11 Su | 0459 | 5.6 | 170 |
| | 0833 | 0.7 | 20 | | | | 0842 | 1.0 | 30 | | | | 1115 | -0.3 | -10 |
| | 1452 | 3.3 | 100 | | | | 1502 | 3.0 | 90 | | | | 1723 | 5.2 | 160 |
| | 2010 | 1.3 | 40 | | | | 2002 | 2.0 | 60 | | | | 2326 | 0.0 | 0 |
| 12 Tu | 0247 | 4.9 | 150 | | | 27 W | 0247 | 4.3 | 130 | | | 12 M | 0532 | 5.6 | 170 |
| | 0944 | 0.3 | 10 | | | | 0944 | 0.7 | 20 | | | | 1141 | -0.3 | -10 |
| | 1604 | 3.6 | 110 | | | | 1601 | 3.3 | 100 | | | | 1749 | 5.6 | 170 |
| | 2121 | 1.3 | 40 | | | | 2113 | 1.6 | 50 | | | | 2356 | -0.3 | -10 |
| 13 W | 0347 | 5.2 | 160 | | | 28 Th | 0342 | 4.9 | 150 | | | 13 Tu | 0601 | 5.6 | 170 |
| | 1037 | -0.3 | -10 | | | | 1028 | 0.0 | 0 | | | | 1205 | -0.3 | -10 |
| | 1655 | 3.9 | 120 | | | | 1643 | 3.6 | 110 | | | | 1813 | 5.6 | 170 |
| | 2219 | 1.0 | 30 | | | | 2206 | 1.0 | 30 | | | | | | |
| 14 Th | 0438 | 5.6 | 170 | | | 29 F | 0428 | 5.2 | 160 | | | 14 W | 0025 | -0.3 | -10 |
| | 1120 | -0.7 | -20 | | | | 1106 | -0.3 | -10 | | | | 0629 | 5.6 | 170 |
| | 1736 | 4.3 | 130 | | | | 1720 | 4.3 | 130 | | | | 1229 | -0.3 | -10 |
| | 2307 | 0.7 | 20 | | | | 2250 | 0.7 | 20 | | | | 1838 | 5.6 | 170 |
| 15 F | 0522 | 5.9 | 180 | | | 30 Sa | 0508 | 5.9 | 180 | | | 15 Th | 0053 | -0.3 | -10 |
| | 1158 | -0.7 | -20 | | | | 1141 | -0.7 | -20 | | | | 0656 | 5.2 | 160 |
| | 1813 | 4.6 | 140 | | | | 1754 | 4.6 | 140 | | | | 1253 | 0.0 | 0 |
| | 2350 | 0.3 | 10 | | | | 2330 | 0.3 | 10 | | | | 1904 | 5.6 | 170 |
| 16 Sa | 0547 | 6.2 | 190 | | | 31 Su | 0547 | 6.2 | 190 | | | 16 F | 0101 | -1.0 | -30 |
| | 1213 | -1.0 | -30 | | | | 1213 | -1.0 | -30 | | | | 0708 | 5.6 | 170 |
| | 1826 | 4.9 | 150 | | | | 1826 | 4.9 | 150 | | | | 1259 | -0.3 | -10 |
| | | | | | | | | | | | | | 1914 | 6.6 | 200 |
| 1 M | 0010 | 0.0 | 0 | | | 16 Tu | 0047 | 0.0 | 0 | | | 1 Th | 0117 | -0.7 | -20 |
| | 0624 | 6.2 | 190 | | | | 0651 | 5.6 | 170 | | | | 0723 | 5.9 | 180 |
| | 1246 | -1.0 | -30 | | | | 1302 | -0.3 | -10 | | | | 1325 | -0.7 | -20 |
| | 1858 | 5.2 | 160 | | | | 1912 | 5.2 | 160 | | | | 1940 | 6.2 | 190 |
| 2 Tu | 0051 | -0.3 | -10 | | | 17 W | 0118 | 0.0 | 0 | | | 2 F | 0159 | -0.3 | -10 |
| | 0702 | 6.2 | 190 | | | | 0720 | 5.2 | 160 | | | | 0802 | 5.2 | 160 |
| | 1319 | -1.0 | -30 | | | | 1326 | -0.3 | -10 | | | | 1359 | 0.0 | 0 |
| | 1933 | 5.6 | 170 | | | | 1939 | 5.2 | 160 | | | | 2018 | 5.9 | 180 |
| 3 W | 0132 | -0.3 | -10 | | | 18 Th | 0148 | 0.3 | 10 | | | 3 Sa | 0244 | 0.0 | 0 |
| | 0741 | 5.9 | 180 | | | | 0748 | 4.9 | 150 | | | | 0842 | 4.6 | 140 |
| | 1353 | -0.7 | -20 | | | | 1350 | 0.0 | 0 | | | | 1432 | 0.3 | 10 |
| | 2009 | 5.6 | 170 | | | | 2006 | 5.2 | 160 | | | | 2059 | 5.6 | 170 |
| 4 Th | 0216 | 0.0 | 0 | | | 19 F | 0218 | 0.3 | 10 | | | 4 Su | 0337 | 0.7 | 20 |
| | 0821 | 5.2 | 160 | | | | 0815 | 4.6 | 140 | | | | 0928 | 3.6 | 110 |
| | 1428 | -0.3 | -10 | | | | 1412 | 0.3 | 10 | | | | 1510 | 1.0 | 30 |
| | 2048 | 5.2 | 160 | | | | 2032 | 4.9 | 150 | | | | 2148 | 4.9 | 150 |
| 5 F | 0303 | 0.3 | 10 | | | 20 Sa | 0248 | 0.7 | 20 | | | 5 M | 0450 | 1.0 | 30 |
| | 0903 | 4.6 | 140 | | | | 0842 | 3.9 | 120 | | | | 1040 | 3.0 | 90 |
| | 1504 | 0.3 | 10 | | | | 1435 | 0.7 | 20 | | | | 1601 | 1.6 | 50 |
| | 2131 | 5.2 | 160 | | | | 2100 | 4.6 | 140 | | | | 2305 | 4.3 | 130 |
| 6 Sa | 0359 | 0.7 | 20 | | | 21 Su | 0325 | 1.0 | 30 | | | 6 Tu | 0637 | 1.3 | 40 |
| | 0952 | 3.9 | 120 | | | | 0915 | 3.6 | 110 | | | | 1313 | 3.0 | 90 |
| | 1544 | 1.0 | 30 | | | | 1503 | 1.3 | 40 | | | | 1754 | 2.3 | 70 |
| | 2224 | 4.9 | 150 | | | | 2136 | 4.3 | 130 | | | | | | |
| 7 Su | 0513 | 1.0 | 30 | | | 22 M | 0421 | 1.3 | 40 | | | 7 W | 0106 | 4.3 | 130 |
| | 1102 | 3.3 | 100 | | | | 1006 | 3.0 | 90 | | | | 0830 | 1.0 | 30 |
| | 1637 | 1.3 | 40 | | | | 1539 | 1.6 | 50 | | | | 1507 | 3.3 | 100 |
| | 2340 | 4.6 | 140 | | | | 2232 | 4.3 | 130 | | | | 2018 | 2.0 | 60 |
| 8 M | 0651 | 1.3 | 40 | | | 23 Th | 0623 | 1.6 | 50 | | | 8 Th | 0237 | 4.6 | 140 |
| | 1303 | 3.0 | 90 | | | | 1157 | 2.6 | 80 | | | | 0933 | 0.7 | 20 |
| | 1810 | 2.0 | 60 | | | | 1644 | 2.0 | 60 | | | | 1555 | 3.9 | 120 |
| | | | | | | | | | | | | | 2129 | 1.3 | 40 |
| 9 Tu | 0118 | 4.6 | 140 | | | 24 W | 0014 | 3.9 | 120 | | | 9 F | 0337 | 4.9 | 150 |
| | 0836 | 1.0 | 30 | | | | 0811 | 1.3 | 40 | | | | 1013 | | |

Davao, Philippines, 2011

Times and Heights of High and Low Waters

| October | | | | November | | | | December | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Time | | Height | | Time | | Height | | Time | | Height | | Time | | Height | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 Sa | 0143 | -0.7 | -20 | | 16 Su | 0128 | -0.3 | -10 | | 1 Tu | 0304 | 0.0 | 0 | | 16 W | 0228 | -0.3 | -10 | | 1 Th | 0333 | 0.0 | 0 | | 16 F | 0301 | -0.3 | -10 | | 1 Sa | 0748 | 4.9 | 150 | | 17 Su | 0735 | 4.3 | 130 | | 2 W | 0844 | 3.6 | 110 | | 17 Th | 0957 | 3.6 | 110 | | 17 F | 0918 | 3.9 | 120 | | 2 Su | 1334 | 0.0 | 0 | | 18 M | 0805 | 3.9 | 120 | | 18 Th | 1539 | 1.0 | 30 | | 3 F | 1504 | 0.7 | 20 | | 3 Sa | 2145 | 4.3 | 130 | | 3 Su | 2116 | 4.6 | 140 | | 4 M | 1953 | 6.2 | 190 | | 19 Tu | 1414 | 1.0 | 30 | | 19 W | 1646 | 1.3 | 40 | | 4 Th | 1600 | 0.7 | 20 | | 4 F | 2034 | 5.6 | 170 | | 20 M | 1955 | 5.2 | 160 | | 20 Tu | 2121 | 4.3 | 130 | | 20 W | 2244 | 3.6 | 110 | | 20 Th | 2210 | 3.9 | 120 | | 21 F | 0319 | 0.3 | 10 | | 21 Sa | 0421 | 0.3 | 10 | | 21 Su | 0343 | 0.0 | 0 | | 22 M | 0919 | 3.6 | 110 | | 22 Tu | 1006 | 3.9 | 120 | | 22 W | 0957 | 3.6 | 110 | | 22 Th | 1060 | 0.7 | 20 | | 22 F | 1451 | 1.3 | 40 | | 23 M | 1413 | 1.3 | 40 | | 23 Tu | 1646 | 1.3 | 40 | | 23 W | 1600 | 0.7 | 20 | | 23 Th | 2122 | 4.9 | 150 | | 23 F | 2033 | 4.9 | 150 | | 23 Sa | 2318 | 3.6 | 110 | | 24 M | 0426 | 1.0 | 30 | | 24 Tu | 0321 | 0.7 | 20 | | 24 W | 0644 | 1.3 | 40 | | 24 Th | 0515 | 1.0 | 30 | | 24 F | 1038 | 3.0 | 90 | | 24 Sa | 0936 | 3.3 | 100 | | 24 Su | 1336 | 3.6 | 110 | | 25 M | 1549 | 2.0 | 60 | | 25 Tu | 1940 | 1.6 | 50 | | 25 W | 1744 | 1.6 | 50 | | 25 Th | 1328 | 3.6 | 110 | | 25 F | 2233 | 4.3 | 130 | | 25 Sa | 2357 | 3.6 | 110 | | 25 Su | 1957 | 1.3 | 40 | | 26 M | 0606 | 1.3 | 40 | | 26 Tu | 0429 | 1.0 | 30 | | 26 W | 0636 | 1.0 | 30 | | 26 Th | 0156 | 3.0 | 90 | | 26 F | 1300 | 3.0 | 90 | | 26 Sa | 1100 | 3.0 | 90 | | 26 Su | 1315 | 3.9 | 120 | | 27 M | 1757 | 2.3 | 70 | | 27 Tu | 2053 | 1.3 | 40 | | 27 W | 0742 | 1.0 | 30 | | 27 Th | 0742 | 1.0 | 30 | | 27 F | 0742 | 1.0 | 30 | | 27 Sa | 0250 | 3.9 | 120 | | 27 Su | 0855 | 1.0 | 30 | | 28 M | 0855 | 1.0 | 30 | | 28 Tu | 1516 | 4.6 | 140 | | 28 W | 2140 | 0.7 | 20 | | 28 Th | 0043 | 3.9 | 120 | | 28 F | 0752 | 1.3 | 40 | | 28 Sa | 1303 | 3.3 | 100 | | 28 Su | 2045 | 0.7 | 20 | | 29 M | 1434 | 3.9 | 120 | | 29 Tu | 1420 | 4.6 | 140 | | 29 W | 2045 | 0.7 | 20 | | 29 Th | 0043 | 3.9 | 120 | | 29 F | 0752 | 1.3 | 40 | | 29 Sa | 1434 | 3.9 | 120 | | 29 Su | 2045 | 0.7 | 20 | | 30 M | 2016 | 2.0 | 60 | | 30 Tu | 0256 | 3.9 | 120 | | 30 W | 0844 | 1.0 | 30 | | 30 Th | 1515 | 4.3 | 130 | | 30 F | 2157 | 0.3 | 10 | | 30 Sa | 0219 | 4.3 | 130 | | 30 Su | 0932 | 3.6 | 110 | | 30 M | 0849 | 0.7 | 20 | | 30 Tu | 1555 | 4.6 | 140 | | 30 W | 0857 | 1.0 | 30 | | 30 Th | 2235 | 0.0 | 0 | | 30 F | 1521 | 3.9 | 120 | | 30 Sa | 2235 | 0.0 | 0 | | 30 Su | 2119 | 1.3 | 40 | | 31 M | 0400 | 3.3 | 100 | | 31 Tu | 0932 | 0.7 | 20 | | 31 W | 1555 | 4.6 | 140 | | 31 Th | 0319 | 4.6 | 140 | | 31 F | 0857 | 1.0 | 30 | | 31 Sa | 1521 | 3.9 | 120 | | 31 Su | 2119 | 1.3 | 40 | | 31 M | 0857 | 1.0 | 30 | | 31 Tu | 1521 | 3.9 | 120 | | 31 W | 0857 | 1.0 | 30 | | 31 Th | 0857 | 1.0 | 30 | | 31 F | 0857 | 1.0 | 30 | | 31 Sa | 0857 | 1.0 | 30 | | 31 Su | 0857 | 1.0 | 30 | | 31 M | 0857 | 1.0 | 30 | | 31 Tu | 0857 | 1.0 | 30 | | 31 W | 0857 | 1.0 | 30 | | 31 Th | 0857 | 1.0 | 30 | | 31 F | 0857 | 1.0 | 30 | | 31 Sa | 0857 | 1.0 | 30 | | 31 Su | 0857 | 1.0 | 30 | | 31 M | 0857 | 1.0 | 30 | | 31 Tu | 0857 | 1.0 | 30 | | 31 W | 0857 | 1.0 | 30 | | 31 Th | 0857 | 1.0 | 30 | | 31 F | 0857 | 1.0 | 30 | | 31 Sa | 0857 | 1.0 | 30 | | 31 Su | 0857 | 1.0 | 30 | | 31 M | 0857 | 1.0 | 30 | | 31 Tu | 0857 | 1.0 | 30 | | 31 W | 0857 | 1.0 | 30 | | 31 Th | 0857 | 1.0 | 30 | | 31 F | 0857 | 1.0 | 30 | | 31 Sa | 0857 | 1.0 | 30 | | 31 Su | 0857 | 1.0 | 30 | | 31 M | 0857 | 1.0 | 30 | | 31 Tu | 0857 | 1.0 | 30 | | 31 W | 0857 | 1.0 | 30 | | 31 Th | 0857 | 1.0 | 30 | | 31 F | 0857 | 1.0 | 30 | | 31 Sa | 0857 | 1.0 | 30 | | 31 Su | 0857 | 1.0 | 30 | | 31 M | 0857 | 1.0 | 30 | | 31 Tu | 0857 | 1.0 | 30 | | 31 W | 0857 | 1.0 | 30 | | 31 Th | 0857 | 1.0 | 30 | | 31 F | 0857 | 1.0 | 30 | | 31 Sa | 0857 | 1.0 | 30 | | 31 Su | 0857 | 1.0 | 30 | | 31 M | 0857 | 1.0 | 30 | | 31 Tu | 0857 | 1.0 | 30 | | 31 W | 0857 | 1.0 | 30 | | 31 Th | 0857 | 1.0 | 30 | | 31 F | 0857 | 1.0 | 30 | | 31 Sa | 0857 | 1.0 | 30 | | 31 Su | 0857 | 1.0 | 30 | | 31 M | 0857 | 1.0 | 30 | | 31 Tu | 0857 | 1.0 | 30 | | 31 W | 0857 | 1.0 | 30 | | 31 Th | 0857 | 1.0 | 30 | | 31 F | 0857 | 1.0 | 30 | | 31 Sa | 0857 | 1.0 | 30 | | 31 Su | 0857 | 1.0 | 30 | | 31 M | 0857 | 1.0 | 30 | | 31 Tu | 0857 | 1.0 | 30 | | 31 W | 0857 | 1.0 | 30 | | 31 Th | 0857 | 1.0 | 30 | | 31 F | 0857 | 1.0 | 30 | | 31 Sa | 0857 | 1.0 | 30 | | 31 Su | 0857 | 1.0 | 30 | | 31 M | 0857 | 1.0 | 30 | | 31 Tu | 0857 | 1.0 | 30 | | 31 W | 0857 | 1.0 | 30 | | 31 Th | 0857 | 1.0 | 30 | | 31 F | 0857 | 1.0 | 30 | | 31 Sa | 0857 | 1.0 | 30 | | 31 Su | 0857 | 1.0 | 30 | | 31 M | 0857 | 1.0 | 30 | | 31 Tu | 0857 | 1.0 | 30 | | 31 W | 0857 | 1.0 | 30 | | 31 Th | 0857 | 1.0 | 30 | | 31 F | 0857 | 1.0 | 30 | | 31 Sa | 0857 | 1.0 | 30 | | 31 Su | 0857 | 1.0 | 30 | | 31 M | 0857 | 1.0 | 30 | | 31 Tu | 0857 | 1.0 | 30 | | 31 W | 0857 | 1.0 | 30 | | 31 Th | 0857 | 1.0 | 30 | | 31 F | 0857 | 1.0 | 30 | | 31 Sa | 0857 | 1.0 | 30 | | 31 Su | 0857 | 1.0 | 30 | | 31 M | 0857 | 1.0 | 30 | | 31 Tu | 0857 | 1.0 | 30 | | 31 W | 0857 | 1.0 | 30 | | 31 Th | 0857 | 1.0 | 30 | | 31 F | 0857 | 1.0 | 30 | | 31 Sa | 0857 | 1.0 | 30 | | 31 Su | 0857 | 1.0 | 30 | | 31 M | 0857 | 1.0 | 30 | | 31 Tu | 0857 | 1.0 | 30 | | 31 W | 0857 | 1.0 | 30 | | 31 Th | 0857 | 1.0 | 30 | | 31 F | 0857 | 1.0 | 30 | | 31 Sa | 0857 | 1.0 | 30 | | 31 Su | 0857 | 1.0 | 30 | | 31 M | 0857 | 1.0 | 30 | | 31 Tu | 0857 | 1.0 | 30 | | 31 W | 0857 | 1.0 | 30 | | 31 Th | 0857 | 1.0 | 30 | | 31 F | 0857 | 1.0 | 30 | | 31 Sa | 0857 | 1.0 | 30 | | 31 Su | 0857 | 1.0 | 30 | | 31 M | 0857 | 1.0 | 30 | | 31 Tu | 0857 | 1.0 | 30 | | 31 W | 0857 | 1.0 | 30 | | 31 Th | 0857 | 1.0 | 30 | | 31 F | 0857 | 1.0 | 30 | | 31 Sa | 0857 | 1.0 | 30 | | 31 Su | 0857 | 1.0 | 30 | | 31 M | 0857 | 1.0 | 30 | | 31 Tu | 0857 | 1.0 | 30 | | 31 W | 0857 | 1.0 | 30 | | 31 Th | 0857 | 1.0 | 30 | | 31 F | 0857 | 1.0 | 30 | | 31 Sa | 0857 | 1.0 | 30 | | 31 Su | 0857 | 1.0 | 30 | | 31 M | 0857 | 1.0 | 30 | | 31 Tu | 0857 | 1.0 | 30 | | 31 W | 0857 | 1.0 | 30 | | 31 Th | 0857 | 1.0 | 30 | | 31 F | 0857 | 1.0 | 30 | | 31 Sa | 0857 | 1.0 | 30 | | 31 Su | 0857 | 1.0 | 30 | | 31 M | 0857 | 1.0 | 30 | | 31 Tu | 0857 | 1.0 | 30 | | 31 W | 0857 | 1.0 | 30 | | 31 Th |

Cebu, Philippines, 2011

Times and Heights of High and Low Waters

| January | | | | February | | | | March | | | | | | | | | | | | | | | | | | | | | |
|-----------------|--------|--------|-----|----------|-----------------|--------|------|-------|----|-----------------|--------|------|-----|--------|-----------------|--------|------|-----|------|-----------------|--------|------|-----|------|-----------------|--------|------|-----|--|
| Time | | Height | | Time | | Height | | Time | | Height | | Time | | Height | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | | | | | | |
| 1 Sa | 0332 | 0.0 | 0 | | 16 Su | 0338 | 0.3 | 10 | | 1 Tu | 0517 | -0.7 | -20 | | 16 W | 0455 | -0.7 | -20 | | | | | | | | | | | |
| | 1004 | 1.6 | 50 | | | 2010 | 4.3 | 130 | | | 1146 | 2.0 | 60 | | | 1132 | 2.0 | 60 | | 0422 | -0.3 | -10 | | | | | | | |
| | 1251 | 1.6 | 50 | | | | | | | | 1527 | 1.6 | 50 | | | 1503 | 1.6 | 50 | | 1435 | 1.6 | 50 | | 1109 | 2.3 | 70 | | | |
| | 2029 | 4.9 | 150 | | | | | | | | 2217 | 5.2 | 160 | | | 2153 | 5.2 | 160 | | 2123 | 4.6 | 140 | | 1435 | 1.6 | 50 | | | |
| 2 Su | 0432 | -0.7 | -20 | | 17 M | 0432 | -0.3 | -10 | | 2 W | 0548 | -1.0 | -30 | | 17 Th | 0525 | -1.0 | -30 | | 2 W | 0453 | -0.3 | -10 | | 17 Th | 0415 | -0.3 | -10 | |
| | 1113 | 2.0 | 60 | | | 1149 | 2.0 | 60 | | | 1202 | 2.3 | 70 | | | 1139 | 2.3 | 70 | | | 1109 | 2.6 | 80 | | | 1109 | 2.6 | 80 | |
| | 1409 | 1.6 | 50 | | | 1333 | 2.0 | 60 | | | 1622 | 1.0 | 30 | | | 1604 | 1.0 | 30 | | | 1544 | 1.3 | 40 | | | 1544 | 1.3 | 40 | |
| | 2126 | 5.2 | 160 | | | 2111 | 4.9 | 150 | | | 2259 | 5.2 | 160 | | | 2241 | 5.6 | 170 | | | 2212 | 4.6 | 140 | | | 2212 | 4.6 | 140 | |
| 3 M | 0519 | -1.0 | -30 | | 18 Tu | 0513 | -1.0 | -30 | | 3 Th | 0614 | -1.0 | -30 | | 18 F | 0553 | -1.0 | -30 | | 3 Th | 0517 | -0.3 | -10 | | 18 F | 0444 | -0.3 | -10 | |
| | 1153 | 2.0 | 60 | | | 1159 | 2.0 | 60 | | | 1219 | 2.6 | 80 | | | 1154 | 2.6 | 80 | | | 1122 | 3.0 | 90 | | | 1122 | 3.0 | 90 | |
| | 1514 | 1.6 | 50 | | | 1459 | 1.6 | 50 | | | 1704 | 1.0 | 30 | | | 1653 | 0.7 | 20 | | | 1630 | 0.7 | 20 | | | 1630 | 0.7 | 20 | |
| | 2215 | 5.6 | 170 | | | 2202 | 5.2 | 160 | | | ● 2334 | 5.2 | 160 | | | ○ 2324 | 5.6 | 170 | | | 2251 | 4.9 | 150 | | | 2251 | 4.9 | 150 | |
| 4 Tu | 0559 | -1.3 | -40 | | 19 W | 0549 | -1.3 | -40 | | 4 F | 0637 | -1.0 | -30 | | 19 Sa | 0618 | -1.0 | -30 | | 4 F | 0538 | -0.3 | -10 | | 19 Sa | 0511 | -0.3 | -10 | |
| | 1223 | 2.0 | 60 | | | 1216 | 2.0 | 60 | | | 1237 | 3.0 | 90 | | | 1213 | 3.3 | 100 | | | 1138 | 3.3 | 100 | | | 1138 | 3.3 | 100 | |
| | 1607 | 1.3 | 40 | | | 1557 | 1.3 | 40 | | | 1741 | 0.7 | 20 | | | 1739 | 0.0 | 0 | | | 1707 | 0.3 | 10 | | | 1707 | 0.3 | 10 | |
| | ● 2259 | 5.6 | 170 | | | 2247 | 5.6 | 170 | | | | | | | | | | | 2323 | | 4.6 | 140 | | 2323 | | 4.6 | 140 | | |
| 5 W | 0634 | -1.3 | -40 | | 20 Th | 0621 | -1.3 | -40 | | 5 Sa | 0005 | 5.2 | 160 | | 20 Su | 0005 | 5.2 | 160 | | 5 Sa | 0557 | -0.3 | -10 | | 20 Su | 0535 | -0.3 | -10 | |
| | 1248 | 2.3 | 70 | | | 1234 | 2.3 | 70 | | | 0655 | -0.7 | -20 | | | 0641 | -0.7 | -20 | | | 1156 | 3.6 | 110 | | | 1156 | 3.6 | 110 | |
| | 1652 | 1.3 | 40 | | | 1646 | 1.0 | 30 | | | 1255 | 3.0 | 90 | | | 1236 | 3.6 | 110 | | | 1739 | 0.0 | 0 | | | 1739 | 0.0 | 0 | |
| | 2337 | 5.6 | 170 | | | ○ 2329 | 5.9 | 180 | | | 1814 | 0.3 | 10 | | | 1823 | -0.3 | -10 | | | ● 2352 | 4.6 | 140 | | | ● 2352 | 4.6 | 140 | |
| 6 Th | 0703 | -1.0 | -30 | | 21 F | 0650 | -1.3 | -40 | | 6 Su | 0033 | 4.9 | 150 | | 21 M | 0045 | 4.9 | 150 | | 6 Su | 0614 | -0.3 | -10 | | 21 M | 0557 | 0.0 | 0 | |
| | 1310 | 2.3 | 70 | | | 1254 | 2.3 | 70 | | | 0713 | -0.7 | -20 | | | 0703 | -0.3 | -10 | | | 1213 | 3.9 | 120 | | | 1213 | 3.9 | 120 | |
| | 1731 | 1.0 | 30 | | | 1732 | 0.7 | 20 | | | 1314 | 3.3 | 100 | | | 1302 | 4.3 | 130 | | | 1809 | 0.0 | 0 | | | 1809 | 0.0 | 0 | |
| | | | | | | | | | | | 1847 | 0.3 | 10 | | | 1908 | -0.7 | -20 | | | | | | | | | | | |
| 7 F | 0012 | 5.6 | 170 | | 22 Sa | 0009 | 5.9 | 180 | | 7 M | 0100 | 4.6 | 140 | | 22 Tu | 0123 | 4.3 | 130 | | 7 M | 0019 | 4.3 | 130 | | 22 Tu | 0038 | 4.3 | 130 | |
| | 0728 | -1.0 | -30 | | | 0717 | -1.3 | -40 | | | 0729 | -0.3 | -10 | | | 0723 | 0.0 | 0 | | | 0629 | 0.0 | 0 | | | 0629 | 0.0 | 0 | |
| | 1332 | 2.6 | 80 | | | 1317 | 2.6 | 80 | | | 1334 | 3.6 | 110 | | | 1331 | 4.6 | 140 | | | 1232 | 4.3 | 130 | | | 1232 | 4.3 | 130 | |
| | 1809 | 1.0 | 30 | | | 1818 | 0.3 | 10 | | | 1921 | 0.3 | 10 | | | 1955 | -0.7 | -20 | | | 1839 | -0.3 | -10 | | | 1839 | -0.3 | -10 | |
| 8 Sa | 0044 | 5.2 | 160 | | 23 Su | 0050 | 5.6 | 170 | | 8 Tu | 0128 | 4.3 | 130 | | 23 W | 0202 | 3.6 | 110 | | 8 Tu | 0046 | 4.3 | 130 | | 23 W | 0117 | 3.6 | 110 | |
| | 0751 | -0.7 | -20 | | | 0743 | -1.0 | -30 | | | 0746 | 0.0 | 0 | | | 0742 | 0.3 | 10 | | | 0645 | 0.0 | 0 | | | 0645 | 0.0 | 0 | |
| | 1354 | 2.6 | 80 | | | 1342 | 3.3 | 100 | | | 1357 | 3.9 | 120 | | | 1403 | 4.9 | 150 | | | 1251 | 4.3 | 130 | | | 1251 | 4.3 | 130 | |
| | 1847 | 1.0 | 30 | | | 1906 | 0.3 | 10 | | | 1957 | 0.3 | 10 | | | 2048 | -0.3 | -10 | | | 1909 | -0.3 | -10 | | | 1909 | -0.3 | -10 | |
| 9 Su | 0114 | 4.9 | 150 | | 24 M | 0130 | 4.9 | 150 | | 9 W | 0157 | 3.6 | 110 | | 24 Th | 0242 | 2.6 | 80 | | 9 W | 0114 | 3.9 | 120 | | 24 Th | 0155 | 3.0 | 90 | |
| | 0812 | -0.3 | -10 | | | 0808 | -0.7 | -20 | | | 0803 | 0.0 | 0 | | | 0758 | 0.7 | 20 | | | 0700 | 0.3 | 10 | | | 0700 | 0.3 | 10 | |
| | 1419 | 3.0 | 90 | | | 1412 | 3.6 | 110 | | | 1422 | 3.9 | 120 | | | 1440 | 4.9 | 150 | | | 1312 | 4.6 | 140 | | | 1312 | 4.6 | 140 | |
| | 1927 | 1.0 | 30 | | | 1958 | 0.0 | 0 | | | 2039 | 0.3 | 10 | | | 2150 | 0.0 | 0 | | | 1941 | -0.3 | -10 | | | 1941 | -0.3 | -10 | |
| 10 M | 0145 | 4.6 | 140 | | 25 Tu | 0211 | 4.3 | 130 | | 10 Th | 0229 | 3.0 | 90 | | 25 F | 0327 | 2.0 | 60 | | 10 Th | 0142 | 3.3 | 100 | | 25 F | 0234 | 2.3 | 70 | |
| | 0833 | -0.3 | -10 | | | 0831 | 0.0 | 0 | | | 0820 | 0.3 | 10 | | | 0809 | 1.0 | 30 | | | 0715 | 0.7 | 20 | | | 0715 | 0.7 | 20 | |
| | 1447 | 3.3 | 100 | | | 1446 | 3.9 | 120 | | | 1452 | 3.9 | 120 | | | 1525 | 4.6 | 140 | | | 1335 | 4.6 | 140 | | | 1335 | 4.6 | 140 | |
| | 2012 | 1.0 | 30 | | | 2056 | 0.3 | 10 | | | 2130 | 0.7 | 20 | | | ○ 2322 | 0.3 | 10 | | | 2019 | 0.0 | 0 | | | 2019 | 0.0 | 0 | |
| 11 Tu | 0217 | 3.9 | 120 | | 26 W | 0254 | 3.3 | 100 | | 11 F | 0305 | 2.3 | 70 | | 26 Sa | 0441 | 1.3 | 40 | | 11 F | 0213 | 3.0 | 90 | | 26 Sa | 0320 | 1.6 | 50 | |
| | 0855 | 0.0 | 0 | | | 0853 | 0.3 | 10 | | | 0833 | 0.7 | 20 | | | 0757 | 1.0 | 30 | | | 0729 | 0.7 | 20 | | | 0729 | 0.7 | 20 | |
| | 1519 | 3.3 | 100 | | | 1526 | 4.3 | 130 | | | 1529 | 3.9 | 120 | | | 1628 | 4.3 | 130 | | | 1403 | 4.6 | 140 | | | 1403 | 4.6 | 140 | |
| | 2104 | 1.0 | 30 | | | ● 2207 | 0.3 | 10 | | | ● 2245 | 0.7 | 20 | | | | | | | | 2105 | 0.0 | 0 | | | 2105 | 0.0 | 0 | |
| 12 W | 0253 | 3.3 | 100 | | 27 Th | 0345 | 2.3 | 70 | | 12 Sa | 0354 | 1.6 | 50 | | 27 Su | 0202 | 0.3 | 10 | | 12 Sa | 0248 | 2.3 | 70 | | 27 Su | 0455 | 1.3 | 40 | |
| | 0918 | 0.3 | 10 | | | 0913 | 0.7 | 20 | | | 0837 | 1.0 | 30 | | | 1814 | 3.9 | 120 | | | 0740 | 1.0 | 30 | | | 0740 | 1.0 | 30 | |
| | 1557 | 3.6 | 110 | | | 1615 | 4.3 | 130 | | | 1620 | 3.9 | 120 | | | | | | | | 1438 | 4.6 | 140 | | | 1438 | 4.6 | 140 | |
| | ○ 2212 | 1.3 | 40 | | | 2345 | 0.7 | 20 | | | | | | | | | | | | | 2210 | 0.3 | 10 | | | 2210 | 0.3 | 10 | |
| 13 Th | 0338 | 2.6 | 80 | | 28 F | 0502 | 1.6 | 50 | | 13 Su | 0106 | 0.7 | 20 | | 28 M | 0339 | 0.0 | 0 | | 13 Su | 0337 | 1.6 | 50 | | 28 M | 0122 | 0.7 | 20 | |
| | 0940 | 0.7 | 20 | | | 0926 | 1.0 | 30 | | | 1743 | 3.9 | 120 | | | 2009 | 4.3 | 130 | | | 0740 | 1.3 | 40 | | | 0740 | 1.3 | 40 | |
| | 1644 | 3.6 | 110 | | | 1720 | 4.3 | 130 | | | | | | | | | | | | | 1526 | 4.3 | 130 | | | 1526 | 4.3 | 130 | |
| | 2351 | 1.3 | 40 | | | | | | | | | | | | | | | | | | ○ | | | | | | | | |
| 14 F | 0447 | 2.0 | 60 | | 29 Sa | 0203 | 0.3 | 10 | | 14 M | 0325 | 0.3 | 10 | | 14 M | 0011 | 0.7 | 20 | | 14 M | 0256 | 0.3 | 10 | | | | | | |
| | 1001 | 1.0 | 30 | | | 1846 | 4.3 | 130 | | | 1932 | 4.3 | 130 | | | 1647 | 3.9 | 120 | | | 1108 | 2.3 | 70 | | | | | | |

Cebu, Philippines, 2011

Times and Heights of High and Low Waters

| July | | | | August | | | | September | | | | | | | | | | | | | | | |
|-----------------|------|--------|-----|-----------------|------|--------|-----|-----------------|------|--------|-----|-----------------|------|--------|-----|-----------------|------|------|-----|-----------------|------|------|-----|
| Time | | Height | | Time | | Height | | Time | | Height | | Time | | Height | | | | | | | | | |
| h | m | ft | cm | h | m | ft | cm | h | m | ft | cm | h | m | ft | cm | | | | | | | | |
| 1 F | 0013 | 2.6 | 80 | 16 Sa | 0033 | 2.6 | 80 | 1 M | 0035 | 3.3 | 100 | 16 Tu | 0038 | 3.9 | 120 | 1 Th | 0038 | 4.9 | 150 | 16 F | 0035 | 4.9 | 150 |
| | 0358 | 2.0 | 60 | | 0443 | 1.6 | 50 | | 0521 | 1.3 | 40 | | 0608 | 0.7 | 20 | | 0649 | -0.3 | -10 | | 0701 | 0.0 | 0 |
| | 1044 | 5.9 | 180 | | 1127 | 6.2 | 190 | | 1155 | 6.2 | 190 | | 1226 | 5.2 | 160 | | 1304 | 4.9 | 150 | | 1305 | 4.3 | 130 |
| | 1819 | -0.7 | -20 | | 1849 | -0.7 | -20 | | 1857 | -0.7 | -20 | | 1857 | 0.0 | 0 | | 1900 | 0.7 | 20 | | 1843 | 1.0 | 30 |
| 2 Sa | 0041 | 2.6 | 80 | 17 Su | 0056 | 3.0 | 90 | 2 Tu | 0055 | 3.3 | 100 | 17 W | 0057 | 4.3 | 130 | 2 F | 0106 | 5.2 | 160 | 17 Sa | 0057 | 5.2 | 160 |
| | 0436 | 1.6 | 50 | | 0526 | 1.3 | 40 | | 0604 | 1.0 | 30 | | 0641 | 0.7 | 20 | | 0733 | -0.3 | -10 | | 0732 | 0.0 | 0 |
| | 1122 | 6.2 | 190 | | 1204 | 5.9 | 180 | | 1233 | 5.9 | 180 | | 1253 | 4.9 | 150 | | 1342 | 4.3 | 130 | | 1333 | 3.6 | 110 |
| | 1851 | -1.0 | -30 | | 1915 | -0.3 | -10 | | 1920 | -0.3 | -10 | | 1913 | 0.3 | 10 | | 1919 | 0.7 | 20 | | 1859 | 1.0 | 30 |
| 3 Su | 0106 | 2.6 | 80 | 18 M | 0117 | 3.0 | 90 | 3 W | 0118 | 3.9 | 120 | 18 Th | 0117 | 4.3 | 130 | 3 Sa | 0137 | 5.6 | 170 | 18 Su | 0120 | 5.2 | 160 |
| | 0514 | 1.6 | 50 | | 0605 | 1.3 | 40 | | 0648 | 0.7 | 20 | | 0713 | 0.7 | 20 | | 0822 | 0.0 | 0 | | 0806 | 0.3 | 10 |
| | 1158 | 6.2 | 190 | | 1237 | 5.9 | 180 | | 1310 | 5.6 | 170 | | 1320 | 4.6 | 140 | | 1422 | 3.6 | 110 | | 1403 | 3.3 | 100 |
| | 1922 | -1.0 | -30 | | 1937 | -0.3 | -10 | | 1943 | 0.0 | 0 | | 1928 | 0.7 | 20 | | 1938 | 1.0 | 30 | | 1915 | 1.3 | 40 |
| 4 M | 0130 | 3.0 | 90 | 19 Tu | 0139 | 3.3 | 100 | 4 Th | 0145 | 4.3 | 130 | 19 F | 0139 | 4.6 | 140 | 4 Su | 0213 | 5.6 | 170 | 19 M | 0147 | 5.2 | 160 |
| | 0554 | 1.3 | 40 | | 0643 | 1.3 | 40 | | 0735 | 0.3 | 10 | | 0748 | 0.7 | 20 | | 0919 | 0.3 | 10 | | 0848 | 0.3 | 10 |
| | 1235 | 6.2 | 190 | | 1307 | 5.2 | 160 | | 1349 | 4.9 | 150 | | 1347 | 4.3 | 130 | | 1505 | 2.6 | 80 | | 1437 | 3.0 | 90 |
| | 1951 | -0.7 | -20 | | 1957 | 0.0 | 0 | | 2005 | 0.3 | 10 | | 1945 | 0.7 | 20 | | 1953 | 1.3 | 40 | | 1929 | 1.3 | 40 |
| 5 Tu | 0155 | 3.0 | 90 | 20 W | 0201 | 3.6 | 110 | 5 F | 0216 | 4.6 | 140 | 20 Sa | 0204 | 4.6 | 140 | 5 M | 0255 | 5.2 | 160 | 20 Tu | 0220 | 4.9 | 150 |
| | 0638 | 1.3 | 40 | | 0722 | 1.3 | 40 | | 0827 | 0.7 | 20 | | 0826 | 0.7 | 20 | | 1034 | 0.7 | 20 | | 0945 | 0.7 | 20 |
| | 1314 | 5.9 | 180 | | 1337 | 4.9 | 150 | | 1430 | 4.3 | 130 | | 1417 | 3.6 | 110 | | 1605 | 2.0 | 60 | | 1522 | 2.3 | 70 |
| | 2019 | -0.3 | -10 | | 2016 | 0.3 | 10 | | 2026 | 0.7 | 20 | | 2001 | 1.0 | 30 | | 1958 | 1.6 | 50 | | 1935 | 1.6 | 50 |
| 6 W | 0224 | 3.3 | 100 | 21 Th | 0227 | 3.9 | 120 | 6 Sa | 0252 | 4.9 | 150 | 21 Su | 0232 | 4.6 | 140 | 6 Tu | 0351 | 4.9 | 150 | 21 W | 0303 | 4.9 | 150 |
| | 0728 | 1.3 | 40 | | 0804 | 1.3 | 40 | | 0929 | 0.7 | 20 | | 0912 | 1.0 | 30 | | 1242 | 1.0 | 30 | | 1118 | 1.0 | 30 |
| | 1354 | 5.2 | 160 | | 1407 | 4.3 | 130 | | 1515 | 3.3 | 100 | | 1450 | 3.0 | 90 | | 1935 | 1.6 | 50 | | 1723 | 2.0 | 60 |
| | 2047 | 0.0 | 0 | | 2035 | 0.7 | 20 | | 2046 | 1.0 | 30 | | 2016 | 1.3 | 40 | | 1958 | 1.6 | 50 | | 1851 | 2.0 | 60 |
| 7 Th | 0258 | 3.6 | 110 | 22 F | 0256 | 3.9 | 120 | 7 Su | 0337 | 4.9 | 150 | 22 M | 0307 | 4.6 | 140 | 7 W | 0522 | 4.6 | 140 | 22 Th | 0410 | 4.6 | 140 |
| | 0826 | 1.3 | 40 | | 0851 | 1.3 | 40 | | 1050 | 1.0 | 30 | | 1015 | 1.3 | 40 | | 1455 | 0.7 | 20 | | 1347 | 1.0 | 30 |
| | 1439 | 4.6 | 140 | | 1440 | 3.9 | 120 | | 1614 | 2.3 | 70 | | 1533 | 2.3 | 70 | | 2024 | 1.6 | 50 | | 2248 | 2.6 | 80 |
| | 2116 | 0.3 | 10 | | 2055 | 1.0 | 30 | | 2102 | 1.3 | 40 | | 2024 | 1.6 | 50 | | 2024 | 1.6 | 50 | | 2248 | 2.6 | 80 |
| 8 F | 0339 | 3.9 | 120 | 23 Sa | 0331 | 4.3 | 130 | 8 M | 0434 | 4.9 | 150 | 23 Tu | 0353 | 4.6 | 140 | 8 Th | 0730 | 4.6 | 140 | 23 F | 0613 | 4.3 | 130 |
| | 0936 | 1.3 | 40 | | 0950 | 1.6 | 50 | | 1254 | 1.0 | 30 | | 1212 | 1.3 | 40 | | 1553 | 0.3 | 10 | | 1506 | 0.7 | 20 |
| | 1530 | 3.6 | 110 | | 1518 | 3.3 | 100 | | 1837 | 1.6 | 50 | | 1718 | 2.0 | 60 | | 2248 | 2.6 | 80 | | 2234 | 2.6 | 80 |
| | 2145 | 1.0 | 30 | | 2115 | 1.3 | 40 | | 2049 | 1.6 | 50 | | 1946 | 1.6 | 50 | | 2248 | 2.6 | 80 | | 2234 | 2.6 | 80 |
| 9 Sa | 0428 | 4.3 | 130 | 24 Su | 0414 | 4.3 | 130 | 9 Tu | 0557 | 4.9 | 150 | 24 W | 0508 | 4.3 | 130 | 9 F | 0209 | 2.3 | 70 | 24 Sa | 0102 | 2.6 | 80 |
| | 1108 | 1.3 | 40 | | 1114 | 1.6 | 50 | | 1505 | 0.7 | 20 | | 1457 | 1.0 | 30 | | 0858 | 4.9 | 150 | | 0806 | 4.6 | 140 |
| | 1639 | 3.0 | 90 | | 1612 | 2.6 | 80 | | 2332 | 2.3 | 70 | | 2332 | 2.3 | 70 | | 1629 | 0.3 | 10 | | 1547 | 0.3 | 10 |
| | 2215 | 1.3 | 40 | | 2133 | 1.6 | 50 | | 2133 | 2.0 | 60 | | 2133 | 2.0 | 60 | | 2248 | 3.0 | 90 | | 2213 | 3.0 | 90 |
| 10 Su | 0528 | 4.6 | 140 | 25 M | 0512 | 4.3 | 130 | 10 W | 0738 | 4.9 | 150 | 25 Th | 0705 | 4.6 | 140 | 10 Sa | 0330 | 2.0 | 60 | 25 Su | 0252 | 2.0 | 60 |
| | 1307 | 1.0 | 30 | | 1331 | 1.6 | 50 | | 1613 | 0.3 | 10 | | 1558 | 0.7 | 20 | | 0955 | 4.9 | 150 | | 0917 | 4.9 | 150 |
| | 1836 | 2.3 | 70 | | 1837 | 2.0 | 60 | | 2332 | 2.3 | 70 | | 2332 | 2.3 | 70 | | 1657 | 0.3 | 10 | | 1619 | 0.3 | 10 |
| | 2250 | 1.6 | 50 | | 2133 | 2.0 | 60 | | 2133 | 2.0 | 60 | | 2133 | 2.0 | 60 | | 2302 | 3.3 | 100 | | 2225 | 3.6 | 110 |
| 11 M | 0640 | 4.9 | 150 | 26 Tu | 0629 | 4.3 | 130 | 11 Th | 0120 | 2.3 | 70 | 26 F | 0837 | 4.9 | 150 | 11 Su | 0419 | 1.3 | 40 | 26 M | 0350 | 1.3 | 40 |
| | 1457 | 0.7 | 20 | | 1524 | 1.0 | 30 | | 0900 | 5.2 | 160 | | 1635 | 0.0 | 0 | | 1038 | 5.2 | 160 | | 1010 | 4.9 | 150 |
| | 2130 | 2.0 | 60 | | 2328 | 2.6 | 80 | | 1656 | 0.0 | 0 | | 2314 | 2.6 | 80 | | 1719 | 0.3 | 10 | | 1646 | 0.3 | 10 |
| | 2345 | 2.0 | 60 | | 2328 | 2.6 | 80 | | 2328 | 2.6 | 80 | | 2328 | 2.6 | 80 | | 2320 | 3.9 | 120 | | 2244 | 3.9 | 120 |
| 12 Tu | 0754 | 5.2 | 160 | 27 W | 0753 | 4.6 | 140 | 12 F | 0311 | 2.0 | 60 | 27 Sa | 0254 | 2.3 | 70 | 12 M | 0458 | 1.0 | 30 | 27 Tu | 0437 | 0.3 | 10 |
| | 1609 | 0.0 | 0 | | 1620 | 0.3 | 10 | | 1000 | 5.6 | 170 | | 0938 | 5.2 | 160 | | 1113 | 4.9 | 150 | | 1056 | 4.9 | 150 |
| | 2300 | 2.3 | 70 | | 2345 | 2.3 | 70 | | 1730 | -0.3 | -10 | | 1706 | -0.3 | -10 | | 1739 | 0.3 | 10 | | 1710 | 0.3 | 10 |
| | 2300 | 2.3 | 70 | | 2345 | 2.3 | 70 | | 2343 | 3.0 | 90 | | 2320 | 3.0 | 90 | | 2338 | 4.3 | 130 | | 2307 | 4.6 | 140 |
| 13 W | 0125 | 2.0 | 60 | 28 Th | 0115 | 2.3 | 70 | 13 Sa | 0411 | 1.6 | 50 | 28 Su | 0354 | 1.6 | 50 | 13 Tu | 0532 | 0.3 | 10 | 28 W | 0521 | -0.3 | -10 |
| | 0900 | 5.6 | 170 | | 0900 | 5.2 | 160 | | 1046 | 5.6 | 170 | | 1026 | 5.6 | 170 | | 1144 | 4.9 | 150 | | 1139 | 4.9 | 150 |
| | 1701 | -0.3 | -10 | | 1700 | 0.0 | 0 | | 1758 | -0.3 | -10 | | 1732 | -0.3 | -10 | | 1756 | 0.3 | 10 | | 1733 | 0.7 | 20 |
| | 2338 | 2.3 | 70 | | 2345 | 2.6 | 80 | | 2345 | 2.6 | 80 | | 2333 | 3.3 | 100 | | 2357 | 4.6 | 140 | | 2332 | 5.2 | 160 |
| 14 Th | 0252 | 2.0 | 60 | 29 F | 0255 | 2.3 | 70 | 14 Su | 0001 | 3.3 | 100 | 29 M | 0441 | 1.0 | 30 | 14 W | 0602 | 0.3 | 10 | 29 Th | 0603 | -0.7 | -20 |
| | 0957 | 5.9 | 180 | | 0952 | 5.6 | 170 | | 0456 | 1.3 | 40 | | 1108 | 5.9 | 180 | | 1211 | 4.6 | 140 | | 1219 | 4.6 | 140 |
| | 1743 | -0.7 | -20 | | 1734 | -0.3 | -10 | | 1124 | 5.6 | 170 | | 1757 | -0.3 | -10 | | 1812 | 0.7 | 20 | | 1755 | 1.0 | 30 |
| | 1743 | -0.7 | -20 | | 1734 | -0.3 | -10 | | 1820 | -0.3 | -10 | | 2352 | 3.9 | 120 | | 1812 | 0.7 | 20 | | 1755 | 1.0 | 30 |
| 15 F | 0008 | 2.6 | 80 | 30 Sa | 0000 | 2.6 | 80 | 15 M | 0020 | 3.6 | 110 | 30 Tu | 0524 | 0.7 | 20 | 15 Th | 0015 | 4.9 | 150 | 30 F | 0001 | 5.6 | 170 |
| | 0354 | 2.0 | 60 | | 0353 | 2.0 | 60 | | 0534 | 1.0 | 30 | | 1148 | 5.6 | 170 | | 0631 | 0.0 | 0 | | 0646 | -1.0 | -30 |
| | 1046 | 6.2 | 190 | | 1037 | 5.9 | 180 | | 1157 | 5.6 | 170 | | 1819 | 0.0 | 0 | | 1238 | 4.6 | 140 | | 1259 | 3.9 | 120 |
| | 1818 | -0.7 | -20 | | 1804 | -0.7 | -20 | | 1840 | 0.0 | 0 | | 1840 | 0.0 | 0 | | 1827 | 0.7 | 20 | | 1815 | 1.0 | 30 |

Cebu, Philippines, 2011

Times and Heights of High and Low Waters

| October | | | | November | | | | December | | | | | | | | | | | | | | | | | | | |
|-----------------|--------|------|------|----------|----------------|-----------------|--------|----------|------|-----------------|------|------|--------|-----------------|------|------|-----|-----------------|------|------|------|-----|--|--|------|------|-----|
| Time | Height | | Time | Height | | Time | Height | | Time | Height | | Time | Height | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | | | | |
| 1 Sa | 0032 | 5.9 | 180 | | | 1 Tu | 0125 | 5.9 | 180 | 16 W | 0104 | 5.6 | 170 | 1 Th | 0158 | 4.9 | 150 | 16 F | 0139 | 5.2 | 160 | | | | | | |
| | 0730 | -0.7 | -20 | | | | 0906 | -0.3 | -10 | | | | 0835 | | -0.3 | -10 | | | | 0931 | 0.0 | 0 | | | 0856 | -0.7 | -20 |
| | 1338 | 3.3 | 100 | | | | 1513 | 2.0 | 60 | | | | 1445 | | 2.3 | 70 | | | | 1548 | 2.3 | 70 | | | 1509 | 2.6 | 80 |
| | 1835 | 1.3 | 40 | | | | 1851 | 1.6 | 50 | | | | 1845 | | 1.6 | 50 | | | | 1954 | 1.6 | 50 | | | 1950 | 1.3 | 40 |
| 2 Su | 0106 | 5.9 | 180 | | | 2 W | 0208 | 5.2 | 160 | 17 Th | 0142 | 5.2 | 160 | 2 F | 0242 | 4.3 | 130 | 17 Sa | 0222 | 4.6 | 140 | | | | | | |
| | 0817 | -0.7 | -20 | | | | 1004 | 0.3 | 10 | | | | 0920 | | 0.0 | 0 | | | | 1012 | 0.3 | 10 | | | 0931 | 0.0 | 0 |
| | 1419 | 3.0 | 90 | | | | 1625 | 2.0 | 60 | | | | 1535 | | 2.3 | 70 | | | | 1645 | 2.6 | 80 | | | 1551 | 3.0 | 90 |
| | 1854 | 1.3 | 40 | | | | 1919 | 2.0 | 60 | | | | 1925 | | 1.6 | 50 | | | | 2111 | 2.0 | 60 | | | 2058 | 1.3 | 40 |
| 3 M | 0143 | 5.9 | 180 | | | 3 Th | 0300 | 4.6 | 140 | 18 F | 0227 | 4.9 | 150 | 3 Sa | 0334 | 3.6 | 110 | 18 Su | 0313 | 3.9 | 120 | | | | | | |
| | 0911 | 0.0 | 0 | | | | 1115 | 0.7 | 20 | | | | 1011 | | 0.0 | 0 | | | | 1055 | 0.7 | 20 | | | 1008 | 0.3 | 10 |
| | 1506 | 2.3 | 70 | | | | 1839 | 2.3 | 70 | | | | 1640 | | 2.3 | 70 | | | | 1750 | 3.0 | 90 | | | 1642 | 3.3 | 100 |
| | 1910 | 1.6 | 50 | | | | 2010 | 2.3 | 70 | | | | 2028 | | 2.0 | 60 | | | | 2312 | 2.0 | 60 | | | 2228 | 1.3 | 40 |
| 4 Tu | 0226 | 5.6 | 170 | | | 4 F | 0414 | 3.9 | 120 | 19 Sa | 0326 | 4.3 | 130 | 4 Su | 0448 | 3.0 | 90 | 19 M | 0419 | 3.3 | 100 | | | | | | |
| | 1022 | 0.7 | 20 | | | | 1233 | 1.0 | 30 | | | | 1109 | | 0.3 | 10 | | | | 1142 | 1.0 | 30 | | | 1049 | 0.7 | 20 |
| | 1620 | 2.0 | 60 | | | | 1955 | 2.6 | 80 | | | | 1755 | | 2.6 | 80 | | | | 1851 | 3.3 | 100 | | | 1741 | 3.6 | 110 |
| | 1913 | 1.6 | 50 | | | | 2352 | 2.3 | 70 | | | | 2224 | | 2.0 | 60 | | | | | | | | | | | |
| 5 W | 0321 | 4.9 | 150 | | | 5 Sa | 0610 | 3.3 | 100 | 20 Su | 0449 | 3.6 | 110 | 5 M | 0126 | 1.6 | 50 | 20 Tu | 0024 | 1.0 | 30 | | | | | | |
| | 1211 | 1.0 | 30 | | | | 1336 | 1.0 | 30 | | | | 1210 | | 0.7 | 20 | | | | 0637 | 2.6 | 80 | | | 0556 | 2.3 | 70 |
| | | | | | | | 2027 | 3.3 | 100 | | | | 1859 | | 3.3 | 100 | | | | 1234 | 1.3 | 40 | | | 1136 | 1.0 | 30 |
| | | | | | | | | | | | | | | | | | | | | 1942 | 3.9 | 120 | | | 1845 | 4.3 | 130 |
| 6 Th | 0451 | 4.3 | 130 | | | 6 Su | 0211 | 2.0 | 60 | 21 M | 0047 | 1.6 | 50 | 6 Tu | 0252 | 1.0 | 30 | 21 W | 0215 | 0.7 | 20 | | | | | | |
| | 1404 | 1.0 | 30 | | | | 0756 | 3.3 | 100 | | | | 0640 | | 3.3 | 100 | | | | 0824 | 2.3 | 70 | | | 0804 | 2.0 | 60 |
| | | | | | | | 1422 | 1.0 | 30 | | | | 1309 | | 1.0 | 30 | | | | 1327 | 1.3 | 40 | | | 1232 | 1.3 | 40 |
| | | | | | | | 2055 | 3.6 | 110 | | | | 1949 | | 3.9 | 120 | | | | 2027 | 4.3 | 130 | | | 1947 | 4.6 | 140 |
| 7 F | 0707 | 3.9 | 120 | | | 7 M | 0317 | 1.3 | 40 | 22 Tu | 0228 | 1.0 | 30 | 7 W | 0346 | 0.7 | 20 | 22 Th | 0334 | -0.3 | -10 | | | | | | |
| | 1502 | 0.7 | 20 | | | | 0908 | 3.3 | 100 | | | | 0824 | | 3.0 | 90 | | | | 0940 | 2.3 | 70 | | | 0950 | 2.0 | 60 |
| | 2144 | 3.0 | 90 | | | | 1457 | 1.0 | 30 | | | | 1359 | | 1.3 | 40 | | | | 1416 | 1.3 | 40 | | | 1336 | 1.6 | 50 |
| | | | | | | | 2123 | 4.3 | 130 | | | | 2033 | | 4.6 | 140 | | | | 2106 | 4.6 | 140 | | | 2045 | 5.2 | 160 |
| 8 Sa | 0226 | 2.0 | 60 | | | 8 Tu | 0402 | 0.7 | 20 | 23 W | 0335 | 0.0 | 0 | 8 Th | 0428 | 0.0 | 0 | 23 F | 0433 | -0.7 | -20 | | | | | | |
| | 0839 | 4.3 | 130 | | | | 0959 | 3.3 | 100 | | | | 0943 | | 3.0 | 90 | | | | 1035 | 2.3 | 70 | | | 1100 | 2.0 | 60 |
| | 1538 | 0.7 | 20 | | | | 1527 | 1.0 | 30 | | | | 1444 | | 1.3 | 40 | | | | 1500 | 1.3 | 40 | | | 1438 | 1.6 | 50 |
| | 2156 | 3.6 | 110 | | | | 2150 | 4.6 | 140 | | | | 2115 | | 5.2 | 160 | | | | 2142 | 4.9 | 150 | | | 2138 | 5.6 | 170 |
| 9 Su | 0330 | 1.3 | 40 | | | 9 W | 0440 | 0.0 | 0 | 24 Th | 0429 | -0.7 | -20 | 9 F | 0505 | -0.3 | -10 | 24 Sa | 0522 | -1.3 | -40 | | | | | | |
| | 0937 | 4.3 | 130 | | | | 1042 | 3.3 | 100 | | | | 1045 | | 3.0 | 90 | | | | 1119 | 2.6 | 80 | | | 1149 | 2.3 | 70 |
| | 1605 | 0.7 | 20 | | | | 1555 | 1.3 | 40 | | | | 1523 | | 1.3 | 40 | | | | 1538 | 1.3 | 40 | | | 1533 | 1.3 | 40 |
| | 2214 | 3.9 | 120 | | | | 2217 | 4.9 | 150 | | | | 2155 | | 5.6 | 170 | | | | 2216 | 5.2 | 160 | | | 2227 | 5.9 | 180 |
| 10 M | 0414 | 1.0 | 30 | | | 10 Th | 0513 | -0.3 | -10 | 25 F | 0518 | -1.3 | -40 | 10 Sa | 0540 | -0.7 | -20 | 25 Su | 0606 | -1.3 | -40 | | | | | | |
| | 1021 | 4.3 | 130 | | | | 1119 | 3.3 | 100 | | | | 1137 | | 3.0 | 90 | | | | 1157 | 2.6 | 80 | | | 1227 | 2.3 | 70 |
| | 1628 | 0.7 | 20 | | | | 1621 | 1.3 | 40 | | | | 1600 | | 1.3 | 40 | | | | 1612 | 1.3 | 40 | | | 1622 | 1.3 | 40 |
| | 2235 | 4.3 | 130 | | | | 2243 | 5.2 | 160 | | | | 2236 | | 6.2 | 190 | | | | 2248 | 5.6 | 170 | | | 2312 | 5.9 | 180 |
| 11 Tu | 0451 | 0.3 | 10 | | | 11 F | 0545 | -0.7 | -20 | 26 Sa | 0603 | -1.3 | -40 | 11 Su | 0613 | -1.0 | -30 | 26 M | 0646 | -1.3 | -40 | | | | | | |
| | 1057 | 4.3 | 130 | | | | 1153 | 3.3 | 100 | | | | 1222 | | 2.6 | 80 | | | | 1231 | 2.6 | 80 | | | 1301 | 2.3 | 70 |
| | 1649 | 0.7 | 20 | | | | 1645 | 1.3 | 40 | | | | 1635 | | 1.3 | 40 | | | | 1643 | 1.3 | 40 | | | 1707 | 1.3 | 40 |
| | 2256 | 4.9 | 150 | | | | 2308 | 5.6 | 170 | | | | 2316 | | 6.2 | 190 | | | | 2320 | 5.6 | 170 | | | 2354 | 5.9 | 180 |
| 12 W | 0523 | 0.0 | 0 | | | 12 Sa | 0616 | -0.7 | -20 | 27 Su | 0647 | -1.3 | -40 | 12 M | 0646 | -1.0 | -30 | 27 Tu | 0722 | -1.3 | -40 | | | | | | |
| | 1129 | 3.9 | 120 | | | | 1226 | 3.0 | 90 | | | | 1304 | | 2.6 | 80 | | | | 1302 | 2.6 | 80 | | | 1330 | 2.3 | 70 |
| | 1709 | 1.0 | 30 | | | | 1708 | 1.3 | 40 | | | | 1709 | | 1.3 | 40 | | | | 1712 | 1.3 | 40 | | | 1750 | 1.0 | 30 |
| | 2317 | 5.2 | 160 | | | | 2334 | 5.6 | 170 | | | | 2356 | | 6.2 | 190 | | | | 2352 | 5.6 | 170 | | | | | |
| 13 Th | 0553 | -0.3 | -10 | | | 13 Su | 0647 | -0.7 | -20 | 28 M | 0729 | -1.3 | -40 | 13 Tu | 0719 | -1.0 | -30 | 28 W | 0033 | 5.6 | 170 | | | | | | |
| | 1159 | 3.9 | 120 | | | | 1258 | 3.0 | 90 | | | | 1343 | | 2.3 | 70 | | | | 1332 | 2.3 | 70 | | | 0754 | -1.0 | -30 |
| | 1727 | 1.0 | 30 | | | | 1730 | 1.3 | 40 | | | | 1744 | | 1.3 | 40 | | | | 1742 | 1.3 | 40 | | | 1359 | 2.3 | 70 |
| | 2338 | 5.2 | 160 | | | | | | | | | | | | | | | | | 1832 | 1.0 | 30 | | | 1832 | 1.0 | 30 |
| 14 F | 0622 | -0.3 | -10 | | | 14 M | 0001 | 5.6 | 170 | 29 Tu | 0036 | 5.9 | 180 | 14 W | 0025 | 5.6 | 170 | 29 Th | 0111 | 5.2 | 160 | | | | | | |
| | 1228 | 3.6 | 110 | | | | 0719 | -0.7 | -20 | | | | 0810 | | -1.0 | -30 | | | | 0750 | -1.0 | -30 | | | 0822 | -0.7 | -20 |
| | 1745 | 1.0 | 30 | | | | 1331 | 2.6 | 80 | | | | 1421 | | 2.3 | 70 | | | | 1401 | 2.3 | 70 | | | 1428 | 2.6 | 80 |
| | | | | | | | 1751 | 1.3 | 40 | | | | 1820 | | 1.3 | 40 | | | | 1817 | 1.3 | 40 | | | 1916 | 1.0 | 30 |
| 15 Sa | 0000 | 5.6 | 170 | | | 15 Tu | 0031 | 5.6 | 170 | 30 W | 0117 | 5.6 | 170 | 15 Th | 0100 | 5.6 | 170 | 30 F | 0146 | 4.6 | 140 | | | | | | |
| | 0650 | -0.3 | -10 | | | | 0755 | -0.7 | -20 | | | | 0851 | | -0.3 | -10 | | | | 0823 | -0.7 | -20 | | | 0848 | -0.3 | -10 |
| | 1257 | 3.6 | 110 | | | | 1405 | 2.6 | 80 | | | | 1502 | | 2.3 | 70 | | | | 1433 | 2.3 | 70 | | | 1459 | 3.0 | 90 |
| | 1802 | 1.3 | 40 | | | | 1815 | 1.3 | 40 | | | | 1902 | | 1.3 | 40 | | | | 1858 | 1.3 | 40 | | | 2005 | 1.3 | 40 |
| | | | | | 31 M | 0045 | 6.2 | 190 | | | | | | | | | | | | | | | | | | | |
| | | | | | | 0815 | -0.7 | -20</ | | | | | | | | | | | | | | | | | | | |

Manila, Philippines, 2011

Times and Heights of High and Low Waters

| January | | | February | | | March | | | | | | | | |
|-----------------|--------|------|----------|--------|-----------------|-------|--------|-----|------|-----------------|------|------|-----|----|
| Time | Height | | Time | Height | | Time | Height | | Time | Height | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm |
| 1 Sa | 0328 | -0.3 | -10 | | 16 Su | 0350 | -0.3 | -10 | | 1 Tu | 0350 | -0.7 | -20 | |
| | 1932 | 3.3 | 100 | | | 1903 | 3.3 | 100 | | | 1951 | 3.0 | 90 | |
| 2 Su | 0424 | -0.7 | -20 | | 17 M | 0421 | -0.7 | -20 | | 2 W | 0423 | -0.3 | -10 | |
| | 2018 | 3.6 | 110 | | | 1950 | 3.6 | 110 | | | 2050 | 3.0 | 90 | |
| 3 M | 0509 | -1.0 | -30 | | 18 Tu | 0451 | -1.0 | -30 | | 3 Th | 0448 | -0.3 | -10 | |
| | 2101 | 3.9 | 120 | | | 2036 | 3.9 | 120 | | | 1059 | 1.0 | 30 | |
| 4 Tu | 0548 | -1.0 | -30 | | 19 W | 0521 | -1.3 | -40 | | 4 F | 0508 | 0.0 | 0 | |
| | 2143 | 3.9 | 120 | | | 2122 | 3.9 | 120 | | | 1059 | 1.3 | 40 | |
| 5 W | 0623 | -1.0 | -30 | | 20 Th | 0552 | -1.3 | -40 | | 5 Sa | 0523 | 0.0 | 0 | |
| | 2223 | 3.6 | 110 | | | 2209 | 3.9 | 120 | | | 1108 | 1.3 | 40 | |
| 6 Th | 0655 | -1.0 | -30 | | 21 F | 0624 | -1.0 | -30 | | 6 Su | 0536 | 0.3 | 10 | |
| | 2301 | 3.6 | 110 | | | 1305 | 0.7 | 20 | | | 1123 | 1.6 | 50 | |
| 7 F | 0724 | -0.7 | -20 | | 22 Sa | 0656 | -0.7 | -20 | | 7 M | 0547 | 0.3 | 10 | |
| | 1427 | 0.7 | 20 | | | 1308 | 1.0 | 30 | | | 1143 | 2.0 | 60 | |
| 8 Sa | 0751 | -0.3 | -10 | | 23 Su | 0727 | -0.3 | -10 | | 8 Tu | 0010 | 2.0 | 60 | |
| | 1419 | 1.0 | 30 | | | 1326 | 1.3 | 40 | | | 0558 | 0.7 | 20 | |
| 9 Su | 0815 | 3.0 | 90 | | 24 M | 0043 | 3.0 | 90 | | 9 W | 0048 | 1.6 | 50 | |
| | 1428 | 1.0 | 30 | | | 0754 | 0.0 | 0 | | | 0604 | 0.7 | 20 | |
| 10 M | 0835 | 0.0 | 0 | | 25 Tu | 0137 | 2.3 | 70 | | 10 Th | 0130 | 2.3 | 70 | |
| | 1448 | 1.3 | 40 | | | 0814 | 0.3 | 10 | | | 1232 | 2.3 | 70 | |
| 11 Tu | 0849 | 0.3 | 10 | | 26 W | 0234 | 1.6 | 50 | | 11 F | 0222 | 1.0 | 30 | |
| | 1517 | 1.6 | 50 | | | 0822 | 0.3 | 10 | | | 0541 | 0.7 | 20 | |
| 12 W | 0855 | 0.3 | 10 | | 27 Th | 0345 | 1.0 | 30 | | 12 Sa | 0355 | 0.7 | 20 | |
| | 1554 | 2.0 | 60 | | | 0811 | 0.7 | 20 | | | 0455 | 0.7 | 20 | |
| 13 Th | 0258 | 1.0 | 30 | | 28 F | 0036 | 0.0 | 0 | | 13 Su | 0355 | 0.7 | 20 | |
| | 0846 | 0.7 | 20 | | | 0608 | 0.7 | 20 | | | 1410 | 3.0 | 90 | |
| 14 F | 0125 | 0.7 | 20 | | 29 Sa | 0225 | -0.3 | -10 | | 14 M | 1501 | 3.0 | 90 | |
| | 0447 | 0.7 | 20 | | | 1801 | 3.0 | 90 | | | 2314 | 0.0 | 0 | |
| 15 Sa | 0310 | 0.0 | 0 | | 30 Su | 0334 | -0.7 | -20 | | 15 Tu | 0202 | -0.3 | -10 | |
| | 1815 | 2.6 | 80 | | | 1907 | 3.3 | 100 | | | 1727 | 3.3 | 100 | |
| | | | | | 31 M | 0421 | -1.0 | -30 | | 16 W | 0245 | -0.3 | -10 | |
| | | | | | | 2005 | 3.3 | 100 | | | 1850 | 3.3 | 100 | |
| | | | | | | | | | | 17 Th | 0320 | -0.3 | -10 | |
| | | | | | | | | | | | 1040 | 1.0 | 30 | |
| | | | | | | | | | | | 1209 | 1.0 | 30 | |
| | | | | | | | | | | | 2008 | 3.3 | 100 | |
| | | | | | | | | | | | 0351 | -0.3 | -10 | |
| | | | | | | | | | | | 1011 | 1.3 | 40 | |
| | | | | | | | | | | | 1408 | 0.7 | 20 | |
| | | | | | | | | | | | 2117 | 3.3 | 100 | |
| | | | | | | | | | | | 0419 | 0.0 | 0 | |
| | | | | | | | | | | | 1020 | 1.6 | 50 | |
| | | | | | | | | | | | 1524 | 0.3 | 10 | |
| | | | | | | | | | | | 2217 | 3.0 | 90 | |
| | | | | | | | | | | | 0443 | 0.3 | 10 | |
| | | | | | | | | | | | 1040 | 2.0 | 60 | |
| | | | | | | | | | | | 1631 | 0.0 | 0 | |
| | | | | | | | | | | | 2313 | 2.6 | 80 | |
| | | | | | | | | | | | 0503 | 0.7 | 20 | |
| | | | | | | | | | | | 1106 | 2.6 | 80 | |
| | | | | | | | | | | | 1737 | -0.3 | -10 | |
| | | | | | | | | | | | 0007 | 2.3 | 70 | |
| | | | | | | | | | | | 0516 | 0.7 | 20 | |
| | | | | | | | | | | | 1137 | 3.0 | 90 | |
| | | | | | | | | | | | 1844 | -0.3 | -10 | |
| | | | | | | | | | | | 0104 | 1.6 | 50 | |
| | | | | | | | | | | | 0520 | 1.0 | 30 | |
| | | | | | | | | | | | 1212 | 3.3 | 100 | |
| | | | | | | | | | | | 1956 | -0.3 | -10 | |
| | | | | | | | | | | | 0208 | 1.3 | 40 | |
| | | | | | | | | | | | 0514 | 1.0 | 30 | |
| | | | | | | | | | | | 1251 | 3.3 | 100 | |
| | | | | | | | | | | | 2113 | -0.7 | -20 | |
| | | | | | | | | | | | 1334 | 3.3 | 100 | |
| | | | | | | | | | | | 2239 | -0.3 | -10 | |
| | | | | | | | | | | | 1425 | 3.3 | 100 | |
| | | | | | | | | | | | 0010 | -0.3 | -10 | |
| | | | | | | | | | | | 1525 | 3.3 | 100 | |
| | | | | | | | | | | | 0123 | -0.3 | -10 | |
| | | | | | | | | | | | 1636 | 3.0 | 90 | |
| | | | | | | | | | | | 0216 | -0.3 | -10 | |
| | | | | | | | | | | | 1759 | 2.6 | 80 | |
| | | | | | | | | | | | 0255 | 0.0 | 0 | |
| | | | | | | | | | | | 1923 | 2.6 | 80 | |
| | | | | | | | | | | | 0323 | 0.0 | 0 | |
| | | | | | | | | | | | 0948 | 1.3 | 40 | |
| | | | | | | | | | | | 1314 | 1.0 | 30 | |
| | | | | | | | | | | | 2033 | 2.6 | 80 | |

Time meridian 120° E. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to the chart datum of soundings.

Manila, Philippines, 2011

Times and Heights of High and Low Waters

| July | | | | August | | | | September | | | | | | |
|-----------------|--------|------|------|--------|-----------------|------|--------|-----------|------|-----------------|------|------|--------|----|
| Time | Height | | Time | Height | | Time | Height | | Time | Height | | Time | Height | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm |
| 1 F | 0920 | 4.3 | 130 | | 16 Sa | 1012 | 4.3 | 130 | | 1 M | 0037 | 1.3 | 40 | |
| | 1806 | -0.3 | -10 | | | 1840 | -0.3 | -10 | | | 0227 | 1.3 | 40 | |
| ● | | | | | | | | | | | 1041 | 4.3 | 130 | |
| 2 Sa | 0959 | 4.6 | 140 | | 17 Su | 1055 | 4.3 | 130 | | 2 Tu | 0040 | 1.6 | 50 | |
| | 1838 | -0.3 | -10 | | | 1911 | 0.0 | 0 | | | 0353 | 1.3 | 40 | |
| 3 Su | 1042 | 4.6 | 140 | | 18 M | 0157 | 1.3 | 40 | | 3 W | 0059 | 2.0 | 60 | |
| | 1911 | -0.3 | -10 | | | 0328 | 1.3 | 40 | | | 0513 | 1.3 | 40 | |
| 4 M | 1129 | 4.3 | 130 | | 19 Tu | 0200 | 1.6 | 50 | | 4 Th | 0126 | 2.3 | 70 | |
| | 1945 | 0.0 | 0 | | | 0444 | 1.3 | 40 | | | 0642 | 1.3 | 40 | |
| 5 Tu | 0257 | 1.3 | 40 | | 20 W | 0212 | 2.0 | 60 | | 5 F | 0201 | 2.6 | 80 | |
| | 0344 | 1.3 | 40 | | | 0556 | 1.6 | 50 | | | 0820 | 1.3 | 40 | |
| | 1219 | 3.9 | 120 | | 21 Th | 0232 | 2.0 | 60 | | 6 Sa | 0242 | 3.0 | 90 | |
| | 2018 | 0.3 | 10 | | | 0715 | 1.6 | 50 | | | 0958 | 1.0 | 30 | |
| 6 W | 0256 | 1.6 | 50 | | 22 F | 0301 | 2.3 | 70 | | 7 Su | 0331 | 3.3 | 100 | |
| | 0535 | 1.6 | 50 | | | 0846 | 1.6 | 50 | | | 1143 | 0.7 | 20 | |
| | 1313 | 3.6 | 110 | | 23 Sa | 0337 | 2.6 | 80 | | 8 M | 0429 | 3.6 | 110 | |
| | 2047 | 0.7 | 20 | | | 1026 | 1.3 | 40 | | | 1337 | 0.3 | 10 | |
| 7 Th | 0318 | 2.0 | 60 | | 24 Su | 0420 | 3.0 | 90 | | 9 Tu | 0533 | 3.9 | 120 | |
| | 0725 | 1.6 | 50 | | | 1244 | 1.3 | 40 | | | 1459 | 0.0 | 0 | |
| | 1411 | 3.0 | 90 | | 25 M | 1642 | 1.3 | 40 | | 10 W | 0638 | 4.3 | 130 | |
| | 2111 | 0.7 | 20 | | | 1939 | 1.3 | 40 | | | 1552 | 0.0 | 0 | |
| 8 F | 0350 | 2.3 | 70 | | 26 Tu | 0556 | 3.6 | 110 | | 11 Th | 0739 | 4.3 | 130 | |
| | 0932 | 1.6 | 50 | | | 1542 | 0.3 | 10 | | | 1634 | 0.0 | 0 | |
| | 1516 | 2.3 | 70 | | 27 W | 0645 | 3.6 | 110 | | 12 F | 0835 | 4.3 | 130 | |
| | 2125 | 1.0 | 30 | | | 1614 | 0.0 | 0 | | | 1708 | 0.0 | 0 | |
| 9 Sa | 0430 | 3.0 | 90 | | 28 Th | 0732 | 3.9 | 120 | | 13 Sa | 0926 | 4.3 | 130 | |
| | 1130 | 1.3 | 40 | | | 1642 | 0.0 | 0 | | | 1738 | 0.0 | 0 | |
| | 1644 | 1.6 | 50 | | 29 F | 0818 | 4.3 | 130 | | 14 Su | 0000 | 1.6 | 50 | |
| | 2128 | 1.3 | 40 | | | 1709 | -0.3 | -10 | | | 0152 | 1.3 | 40 | |
| 10 Su | 0516 | 3.3 | 100 | | 30 Sa | 0904 | 4.6 | 140 | | 15 M | 0102 | 3.9 | 120 | |
| | 1322 | 0.7 | 20 | | | 1737 | -0.3 | -10 | | | 1804 | 0.3 | 10 | |
| | 1901 | 1.3 | 40 | | 31 Su | 0951 | 4.6 | 140 | | 16 Tu | 0000 | 1.6 | 50 | |
| | 2114 | 1.3 | 40 | | | 1805 | 0.0 | 0 | | | 0312 | 1.3 | 40 | |
| 11 M | 0607 | 3.6 | 110 | | ● | | | | | 17 W | 1044 | 3.9 | 120 | |
| | 1456 | 0.3 | 10 | | | | | | | | 1745 | 0.7 | 20 | |
| 12 Tu | 0659 | 3.9 | 120 | | | | | | | 18 Th | 2328 | 2.3 | 70 | |
| | 1600 | 0.0 | 0 | | | | | | | | 0446 | 1.0 | 30 | |
| 13 W | 0750 | 4.3 | 130 | | | | | | | 19 F | 1137 | 3.6 | 110 | |
| | 1649 | -0.3 | -10 | | | | | | | | 1808 | 1.0 | 30 | |
| 14 Th | 0840 | 4.6 | 140 | | | | | | | 20 Sa | 2355 | 2.6 | 80 | |
| | 1730 | -0.3 | -10 | | | | | | | | | | | |
| 15 F | 0927 | 4.6 | 140 | | | | | | | 21 Su | | | | |
| | 1807 | -0.3 | -10 | | | | | | | | | | | |
| ○ | | | | | | | | | | 22 M | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | 23 Tu | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | 24 W | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | 25 Th | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | 26 F | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | 27 Sa | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | 28 Su | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | 29 M | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | 30 Tu | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | 31 W | | | | |
| | | | | | | | | | | | | | | |

Time meridian 120° E. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to the chart datum of soundings.

Manila, Philippines, 2011

Times and Heights of High and Low Waters

| October | | | | November | | | | December | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|--------|-----|-----|----------|-----------------|------|------|----------|--------|-----------------|------|------|--------|----|-----------------|------|------|-----|----|-----------------|------|------|------|-----|-----------------|------|------|------|-----|--|
| Time | Height | | | Time | Height | | | Time | Height | | | Time | Height | | | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | | |
| 1 Sa | 0733 | 0.0 | 0 | | 16 Su | 0726 | 0.3 | 10 | | 1 Tu | 0040 | 3.9 | 120 | | 16 W | 0854 | -0.3 | -10 | | 1 Th | 0108 | 3.3 | 100 | | 16 F | 0039 | 3.3 | 100 | | |
| | 1354 | 1.6 | 50 | | | 1409 | 1.3 | 40 | | | 0949 | -0.3 | -10 | | | | | | | | | 1000 | -0.3 | -10 | | | 0900 | -0.3 | -10 | |
| | 1649 | 1.6 | 50 | | | 1521 | 1.3 | 40 | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | 2354 | 3.6 | 110 | | | | | | | | | | | | | | | | | | | | | | |
| 2 Su | 0027 | 3.9 | 120 | | 17 M | 0818 | 0.0 | 0 | | 2 W | 0135 | 3.6 | 110 | | 17 Th | 0044 | 3.6 | 110 | | 2 F | 0201 | 3.0 | 90 | | 17 Sa | 0134 | 3.0 | 90 | | |
| | 0845 | 0.0 | 0 | | | | | | | | 1056 | -0.3 | -10 | | | 0943 | -0.3 | -10 | | | 1042 | 0.0 | 0 | | | 0935 | 0.0 | 0 | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 M | 0114 | 3.9 | 120 | | 18 Tu | 0028 | 3.6 | 110 | | 3 Th | 0238 | 3.3 | 100 | | 18 F | 0142 | 3.3 | 100 | | 3 Sa | 0259 | 2.3 | 70 | | 18 Su | 0237 | 2.3 | 70 | | |
| | 1006 | 0.0 | 0 | | | 0915 | 0.0 | 0 | | | 1156 | 0.0 | 0 | | | 1034 | 0.0 | 0 | | | 1116 | 0.3 | 10 | | | 1005 | 0.3 | 10 | | |
| | | | | | | | | | | | | | | | | | | | | | | 1836 | 1.6 | 50 | | | 1706 | 1.6 | 50 | |
| | | | | | | | | | | | | | | | | | | | | | | 2258 | 1.6 | 50 | | | 2224 | 1.3 | 40 | |
| 4 Tu | 0210 | 3.9 | 120 | | 19 W | 0110 | 3.6 | 110 | | 4 F | 0349 | 3.0 | 90 | | 19 Sa | 0253 | 3.0 | 90 | | 4 Su | 0403 | 2.0 | 60 | | 19 M | 0354 | 2.0 | 60 | | |
| | 1134 | 0.0 | 0 | | | 1020 | 0.0 | 0 | | | 1243 | 0.3 | 10 | | | 1121 | 0.3 | 10 | | | 1140 | 0.7 | 20 | | | 1029 | 0.7 | 20 | | |
| | | | | | | | | | | | | | | | | | | | | | | 1839 | 2.0 | 60 | | | 1741 | 2.3 | 70 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 W | 0317 | 3.6 | 110 | | 20 Th | 0207 | 3.6 | 110 | | 5 Sa | 0506 | 2.6 | 80 | | 20 Su | 0417 | 2.6 | 80 | | 5 M | 0119 | 1.3 | 40 | | 20 Tu | 0037 | 1.0 | 30 | | |
| | 1250 | 0.0 | 0 | | | 1131 | 0.0 | 0 | | | 1318 | 0.7 | 20 | | | 1200 | 0.3 | 10 | | | 0529 | 1.3 | 40 | | | 0543 | 1.3 | 40 | | |
| | | | | | | | | | | | 2006 | 2.0 | 60 | | | 1900 | 2.0 | 60 | | | 1151 | 0.7 | 20 | | | 1048 | 0.7 | 20 | | |
| | | | | | | | | | | | | | | | | | | | | | | 1859 | 2.3 | 70 | | | 1822 | 2.6 | 80 | |
| 6 Th | 0432 | 3.6 | 110 | | 21 F | 0321 | 3.3 | 100 | | 6 Su | 0055 | 1.6 | 50 | | 21 M | 0015 | 1.3 | 40 | | 6 Tu | 0235 | 0.7 | 20 | | 21 W | 0209 | 0.3 | 10 | | |
| | 1347 | 0.0 | 0 | | | 1231 | 0.3 | 10 | | | 0631 | 2.3 | 70 | | | 0554 | 2.3 | 70 | | | 0734 | 1.0 | 30 | | | 0758 | 1.0 | 30 | | |
| | | | | | | | | | | | 1344 | 1.0 | 30 | | | 1232 | 0.7 | 20 | | | 1151 | 1.0 | 30 | | | 1100 | 1.0 | 30 | | |
| | | | | | | | | | | | 2005 | 2.3 | 70 | | | 1919 | 2.3 | 70 | | | 1928 | 2.6 | 80 | | | 1905 | 3.0 | 90 | | |
| 7 F | 0552 | 3.3 | 100 | | 22 Sa | 0444 | 3.3 | 100 | | 7 M | 0212 | 1.3 | 40 | | 22 Tu | 0149 | 1.0 | 30 | | 7 W | 0331 | 0.3 | 10 | | 22 Th | 0320 | -0.3 | -10 | | |
| | 1429 | 0.3 | 10 | | | 1317 | 0.3 | 10 | | | 0758 | 2.0 | 60 | | | 0739 | 2.0 | 60 | | | 0936 | 1.0 | 30 | | | 1949 | 3.6 | 110 | | |
| | | | | | | 2056 | 1.6 | 50 | | | 1359 | 1.0 | 30 | | | 1256 | 1.0 | 30 | | | 1146 | 1.0 | 30 | | | | | | | |
| | | | | | | 2238 | 1.6 | 50 | | | 2019 | 2.6 | 80 | | | 1947 | 3.0 | 90 | | | 1959 | 3.0 | 90 | | | | | | | |
| 8 Sa | 0710 | 3.0 | 90 | | 23 Su | 0612 | 3.0 | 90 | | 8 Tu | 0307 | 0.7 | 20 | | 23 W | 0258 | 0.3 | 10 | | 8 Th | 0416 | 0.0 | 0 | | 23 F | 0418 | -0.7 | -20 | | |
| | 1501 | 0.7 | 20 | | | 1353 | 0.7 | 20 | | | 0909 | 2.0 | 60 | | | 0909 | 1.6 | 50 | | | 2031 | 3.3 | 100 | | | 2033 | 3.9 | 120 | | |
| | 2116 | 2.0 | 60 | | | 2023 | 2.0 | 60 | | | 1407 | 1.3 | 40 | | | 1315 | 1.0 | 30 | | | | | | | | | | | | |
| | | | | | | | | | | | 2040 | 3.0 | 90 | | | 2020 | 3.3 | 100 | | | | | | | | | | | | |
| 9 Su | 0122 | 1.6 | 50 | | 24 M | 0114 | 1.3 | 40 | | 9 W | 0355 | 0.3 | 10 | | 24 Th | 0358 | -0.3 | -10 | | 9 F | 0455 | -0.3 | -10 | | 24 Sa | 0507 | -1.0 | -30 | | |
| | 0818 | 3.0 | 90 | | | 0739 | 3.0 | 90 | | | 1005 | 1.6 | 50 | | | 1026 | 1.3 | 40 | | | 2102 | 3.6 | 110 | | | 2116 | 3.9 | 120 | | |
| | 1524 | 1.0 | 30 | | | 1422 | 0.7 | 20 | | | 1412 | 1.3 | 40 | | | 1329 | 1.3 | 40 | | | | | | | | | | | | |
| | 2118 | 2.3 | 70 | | | 2036 | 2.3 | 70 | | | 2104 | 3.0 | 90 | | | 2055 | 3.6 | 110 | | | | | | | | | | | | |
| 10 M | 0236 | 1.3 | 40 | | 25 Tu | 0233 | 1.0 | 30 | | 10 Th | 0438 | 0.3 | 10 | | 25 F | 0455 | -0.7 | -20 | | 10 Sa | 0529 | -0.7 | -20 | | 25 Su | 0552 | -1.3 | -40 | | |
| | 0915 | 2.6 | 80 | | | 0856 | 2.6 | 80 | | | 1055 | 1.6 | 50 | | | 1142 | 1.3 | 40 | | | 2133 | 3.6 | 110 | | | 2159 | 3.9 | 120 | | |
| | 1540 | 1.0 | 30 | | | 1446 | 1.0 | 30 | | | 1417 | 1.3 | 40 | | | 1338 | 1.3 | 40 | | | | | | | | | | | | |
| | 2130 | 2.3 | 70 | | | 2059 | 3.0 | 90 | | | 2131 | 3.3 | 100 | | | 2132 | 3.9 | 120 | | | | | | | | | | | | |
| 11 Tu | 0330 | 1.0 | 30 | | 26 W | 0337 | 0.3 | 10 | | 11 F | 0519 | 0.0 | 0 | | 26 Sa | 0549 | -1.0 | -30 | | 11 Su | 0602 | -0.7 | -20 | | 26 M | 0634 | -1.3 | -40 | | |
| | 1003 | 2.6 | 80 | | | 1003 | 2.3 | 70 | | | 1146 | 1.3 | 40 | | | 2209 | 4.3 | 130 | | | 2204 | 3.6 | 110 | | | 2242 | 3.9 | 120 | | |
| | 1549 | 1.3 | 40 | | | 1503 | 1.3 | 40 | | | 1419 | 1.3 | 40 | | | | | | | | | | | | | | | | | |
| | 2148 | 2.6 | 80 | | | 2128 | 3.3 | 100 | | | 2158 | 3.6 | 110 | | | | | | | | | | | | | | | | | |
| 12 W | 0417 | 0.7 | 20 | | 27 Th | 0437 | 0.0 | 0 | | 12 Sa | 0600 | -0.3 | -10 | | 27 Su | 0641 | -1.0 | -30 | | 12 M | 0636 | -0.7 | -20 | | 27 Tu | 0714 | -1.0 | -30 | | |
| | 1045 | 2.3 | 70 | | | 1104 | 2.0 | 60 | | | 1252 | 1.3 | 40 | | | 2249 | 4.3 | 130 | | | 2236 | 3.9 | 120 | | | 2325 | 3.6 | 110 | | |
| | 1556 | 1.3 | 40 | | | 1515 | 1.3 | 40 | | | 1400 | 1.3 | 40 | | | | | | | | | | | | | | | | | |
| | 2210 | 3.0 | 90 | | | 2200 | 3.6 | 110 | | | 2225 | 3.6 | 110 | | | | | | | | | | | | | | | | | |
| 13 Th | 0504 | 0.7 | 20 | | 28 F | 0536 | -0.3 | -10 | | 13 Su | 0640 | -0.3 | -10 | | 28 M | 0732 | -1.0 | -30 | | 13 Tu | 0711 | -0.7 | -20 | | 28 W | 0752 | -0.7 | -20 | | |
| | 1126 | 2.3 | 70 | | | 1208 | 1.6 | 50 | | | 2253 | 3.6 | 110 | | | 2332 | 3.9 | 120 | | | 2311 | 3.6 | 110 | | | | | | | |
| | 1602 | 1.3 | 40 | | | 1521 | 1.3 | 40 | | | | | | | | | | | | | | | | | | | | | | |
| | 2234 | 3.3 | 100 | | | 2234 | 3.9 | 120 | | | | | | | | | | | | | | | | | | | | | | |
| 14 F | 0550 | 0.3 | 10 | | 29 Sa | 0636 | -0.7 | -20 | | 14 M | 0722 | -0.3 | -10 | | 29 Tu | 0823 | -1.0 | -30 | | 14 W | 0747 | -0.7 | -20 | | 29 Th | 0009 | 3. | | | |

Pages 188 through 195 intentionally omitted

Guam (Apra Harbor), Mariana Islands, 2011

Times and Heights of High and Low Waters

| January | | | | February | | | | March | | | | | | | | | |
|-----------------|--------|------|------|----------|-----------------|------|--------|-------|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|------|------|-----|
| Time | Height | | Time | Height | | Time | Height | | Time | Height | | Time | Height | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | |
| 1 Sa | 0627 | 2.1 | 64 | | 16 Su | 0609 | 2.0 | 61 | | 1 Tu | 0033 | -0.4 | -12 | | | | |
| | 1100 | 1.6 | 49 | | | 0749 | 2.2 | 67 | | | 16 W | 0701 | 2.3 | 70 | | | |
| | 1616 | 2.5 | 76 | | | 1257 | 1.5 | 46 | | | | 1211 | 1.4 | 43 | | | |
| | 2357 | -0.5 | -15 | | | 1752 | 2.3 | 70 | | | | 1723 | 2.5 | 76 | | | |
| | | | | | | | | | 1 Tu | 0642 | | 2.1 | 64 | | | | |
| 2 Su | 0721 | 2.2 | 67 | | 17 M | 0655 | 2.1 | 64 | | | 2 W | 0012 | 0.0 | 0 | | | |
| | 1207 | 1.6 | 49 | | | 1136 | 1.6 | 49 | | | | 0711 | 2.2 | 67 | | | |
| | 1707 | 2.5 | 76 | | | 1642 | 2.4 | 73 | | | | 1242 | 1.2 | 37 | | | |
| | | | | | | | | | | | 17 Th | 1718 | 2.4 | 73 | | | |
| 3 M | 0044 | -0.6 | -18 | | 18 Tu | 0016 | -0.5 | -15 | | 3 Th | | 0053 | 0.0 | 0 | | | |
| | 0806 | 2.3 | 70 | | | 0735 | 2.3 | 70 | | | | 0735 | 2.2 | 67 | | | |
| | 1304 | 1.6 | 49 | | | 1232 | 1.6 | 49 | | | | 1319 | 1.1 | 34 | | | |
| | 1756 | 2.5 | 76 | | | 1734 | 2.5 | 76 | | | 1840 | 2.3 | 70 | | | | |
| | | | | | | | | | | | 3 F | 0009 | -0.1 | -3 | | | |
| 4 Tu | 0128 | -0.6 | -18 | | 19 W | 0101 | -0.7 | -21 | | 4 F | | 0208 | -0.4 | -12 | | | |
| | 0844 | 2.4 | 73 | | | 0812 | 2.4 | 73 | | | | 0840 | 2.6 | 79 | | | |
| | 1353 | 1.5 | 46 | | | 1322 | 1.5 | 46 | | | | 1434 | 0.7 | 21 | | | |
| | 1842 | 2.4 | 73 | | | 1825 | 2.6 | 79 | | | 2012 | 2.7 | 82 | | | | |
| | | | | | | | | | | | 4 F | 0130 | 0.1 | 3 | | | |
| 5 W | 0209 | -0.6 | -18 | | 20 Th | 0145 | -0.8 | -24 | | 5 Sa | | 0251 | -0.2 | -6 | | | |
| | 0919 | 2.4 | 73 | | | 0848 | 2.5 | 76 | | | | 0911 | 2.7 | 82 | | | |
| | 1438 | 1.5 | 46 | | | 1409 | 1.4 | 43 | | | | 1521 | 0.5 | 15 | | | |
| | 1925 | 2.4 | 73 | | | 1915 | 2.6 | 79 | | | 2108 | 2.6 | 79 | | | | |
| | | | | | | | | | | | 5 Su | 0818 | 2.3 | 70 | | | |
| 6 Th | 0247 | -0.5 | -15 | | 21 F | 0227 | -0.7 | -21 | | 6 M | | 0334 | 0.1 | 3 | | | |
| | 0951 | 2.4 | 73 | | | 0923 | 2.6 | 79 | | | | 0943 | 2.6 | 79 | | | |
| | 1520 | 1.4 | 43 | | | 1456 | 1.2 | 37 | | | | 1609 | 0.2 | 6 | | | |
| | 2007 | 2.3 | 70 | | | 2007 | 2.6 | 79 | | | 2208 | 2.4 | 73 | | | | |
| | | | | | | | | | | | 6 Su | 0233 | 0.4 | 12 | | | |
| 7 F | 0322 | -0.3 | -9 | | 22 Sa | 0309 | -0.6 | -18 | | 7 M | | 0417 | 0.5 | 15 | | | |
| | 1020 | 2.4 | 73 | | | 0957 | 2.6 | 79 | | | | 1016 | 2.3 | 70 | | | |
| | 1602 | 1.3 | 40 | | | 1545 | 1.1 | 34 | | | | 1701 | 0.1 | 3 | | | |
| | 2049 | 2.2 | 67 | | | 2101 | 2.5 | 76 | | | 2313 | 2.2 | 67 | | | | |
| | | | | | | | | | | | 7 M | 0303 | 0.6 | 18 | | | |
| 8 Sa | 0355 | -0.1 | -3 | | 23 Su | 0351 | -0.3 | -9 | | 8 Tu | | 0502 | 0.8 | 24 | | | |
| | 1048 | 2.4 | 73 | | | 1030 | 2.6 | 79 | | | | 1051 | 2.5 | 76 | | | |
| | 1644 | 1.2 | 37 | | | 1636 | 0.8 | 24 | | | | 1756 | 0.0 | 0 | | | |
| | 2132 | 2.1 | 64 | | | 2159 | 2.3 | 70 | | | 2208 | 2.1 | 64 | | | | |
| | | | | | | | | | | | 8 Tu | 0401 | 0.9 | 27 | | | |
| 9 Su | 0427 | 0.1 | 3 | | 24 M | 0434 | 0.0 | 0 | | 9 W | | 0550 | 1.2 | 37 | | | |
| | 1114 | 2.3 | 70 | | | 1104 | 2.6 | 79 | | | | 1129 | 2.4 | 73 | | | |
| | 1728 | 1.1 | 34 | | | 1730 | 0.6 | 18 | | | | 1857 | -0.1 | -3 | | | |
| | 2220 | 1.9 | 58 | | | 2305 | 2.1 | 64 | | | 2254 | 2.0 | 61 | | | | |
| | | | | | | | | | | | 9 W | 0431 | 1.1 | 34 | | | |
| 10 M | 0459 | 0.4 | 12 | | 25 Tu | 0518 | 0.5 | 15 | | 10 Th | | 0648 | 1.4 | 43 | | | |
| | 1141 | 2.3 | 70 | | | 1139 | 2.6 | 79 | | | | 1012 | 2.2 | 67 | | | |
| | 1814 | 1.0 | 30 | | | 1829 | 0.4 | 12 | | | | 1714 | 0.2 | 6 | | | |
| | 2317 | 1.8 | 55 | | | | | | | | 2349 | 1.9 | 58 | | | | |
| | | | | | | | | | | | 10 Th | 0505 | 1.3 | 40 | | | |
| 11 Tu | 0531 | 0.7 | 21 | | 26 W | 0024 | 1.9 | 58 | | 11 F | | 0805 | 1.6 | 49 | | | |
| | 1209 | 2.3 | 70 | | | 0605 | 0.9 | 27 | | | | 1042 | 2.2 | 67 | | | |
| | 1905 | 0.8 | 24 | | | 1217 | 2.5 | 76 | | | | 1802 | 0.2 | 6 | | | |
| | | | | | | 1931 | 0.2 | 6 | | | | | | 11 F | 0151 | 2.1 | 64 |
| 12 W | 0028 | 1.6 | 49 | | 27 Th | 0204 | 1.8 | 55 | | 12 Sa | 0350 | 1.9 | 58 | | | | |
| | 0608 | 0.9 | 27 | | | 0659 | 1.2 | 37 | | | 0511 | 2.0 | 61 | | | | |
| | 1241 | 2.3 | 70 | | | 1300 | 2.4 | 73 | | | 0938 | 1.6 | 49 | | | | |
| | 1958 | 0.6 | 18 | | | 2038 | 0.0 | 0 | | | 1431 | 2.1 | 64 | | | | |
| | | | | | | | | | | | 12 Su | 1120 | 2.1 | 64 | | | |
| 13 Th | 0202 | 1.6 | 49 | | 28 F | 0357 | 1.8 | 55 | | 13 M | | 0604 | 2.1 | 64 | | | |
| | 0653 | 1.2 | 37 | | | 0808 | 1.5 | 46 | | | | 1058 | 1.5 | 46 | | | |
| | 1318 | 2.2 | 67 | | | 1351 | 2.4 | 73 | | | | 1550 | 2.1 | 64 | | | |
| | 2054 | 0.4 | 12 | | | 2145 | -0.1 | -3 | | | 2323 | -0.1 | -3 | | | | |
| | | | | | | | | | | | 13 Su | 0226 | 1.8 | 55 | | | |
| 14 F | 0348 | 1.6 | 49 | | 29 Sa | 0528 | 1.9 | 58 | | 14 M | | 0352 | 1.9 | 58 | | | |
| | 0753 | 1.4 | 43 | | | 0934 | 1.6 | 49 | | | | 0819 | 1.6 | 49 | | | |
| | 1402 | 2.2 | 67 | | | 1453 | 2.3 | 70 | | | | 1321 | 2.1 | 64 | | | |
| | 2148 | 0.2 | 6 | | | 2248 | -0.3 | -9 | | | 2114 | 0.0 | 0 | | | | |
| | | | | | | | | | | | 14 M | 0352 | 1.9 | 58 | | | |
| 15 Sa | 0511 | 1.8 | 55 | | 30 Su | 0630 | 2.1 | 64 | | 15 Tu | | 0453 | 2.1 | 64 | | | |
| | 0910 | 1.5 | 46 | | | 1059 | 1.7 | 52 | | | | 0946 | 1.6 | 49 | | | |
| | 1453 | 2.3 | 70 | | | 1558 | 2.3 | 70 | | | | 1447 | 2.1 | 64 | | | |
| | 2241 | -0.1 | -3 | | | 2344 | -0.4 | -12 | | | 2218 | -0.1 | -3 | | | | |
| | | | | | | | | | | | 15 Tu | 0453 | 2.1 | 64 | | | |
| 16 Su | 0714 | 2.2 | 67 | | 31 M | 1205 | 1.6 | 49 | | 16 W | | 0536 | 2.2 | 67 | | | |
| | 1205 | 1.6 | 49 | | | 1658 | 2.3 | 70 | | | | 1055 | 1.4 | 43 | | | |
| | | | | | | | | | | | | 1608 | 2.2 | 67 | | | |
| | | | | | | | | | | | 2316 | -0.2 | -6 | | | | |
| | | | | | | | | | | | 16 W | 0613 | 2.4 | 73 | | | |
| | | | | | | | | | | | | 17 Th | 1150 | 1.1 | 34 | | |
| | | | | | | | | | | | | | 18 F | 1718 | 2.4 | 73 | |
| | | | | | | | | | | | | | | 19 Sa | 0009 | -0.1 | -3 |
| | | | | | | | | | | | 20 Su | | | | 0647 | 2.5 | 76 |
| | | | | | | | | | | | | 21 M | | | 1239 | 0.8 | 24 |
| | | | | | | | | | | | | | 22 Tu | | 1821 | 2.5 | 76 |
| | | | | | | | | | | | | | | 23 W | 0058 | -0.1 | -3 |
| | | | | | | | | | | | 24 Th | | | | 0719 | 2.6 | 79 |
| | | | | | | | | | | | | 25 F | | | 1325 | 0.5 | 15 |
| | | | | | | | | | | | | | 26 Sa | | 1920 | 2.6 | 79 |
| | | | | | | | | | | | | | | 27 Su | 0145 | 0.1 | 3 |
| | | | | | | | | | | | 28 M | | | | 0751 | 2.6 | 79 |
| | | | | | | | | | | | | 29 Tu | | | 1411 | 0.1 | 3 |
| | | | | | | | | | | | | | 30 W | | 2018 | 2.7 | 82 |
| | | | | | | | | | | | | | | 31 Th | 0231 | 0.4 | 12 |
| | | | | | | | | | | | 1 Tu | | | | 0824 | 2.6 | 79 |
| | | | | | | | | | | | | 2 W | | | 1457 | -0.1 | -3 |
| | | | | | | | | | | | | | 3 Th | | 2115 | 2.6 | 79 |
| | | | | | | | | | | | | | | 4 F | 0317 | 0.7 | 21 |
| | | | | | | | | | | | 5 Sa | | | | 0857 | 2.6 | 79 |
| | | | | | | | | | | | | 6 Su | | | 1544 | -0.3 | -9 |
| | | | | | | | | | | | | | 7 M | | 2214 | 2.5 | 76 |
| | | | | | | | | | | | | | | 8 Tu | 0403 | 0.9 | 27 |
| | | | | | | | | | | | 9 W | | | | 0932 | 2.6 | 79 |
| | | | | | | | | | | | | 10 Th | | | 1634 | -0.4 | -12 |
| | | | | | | | | | | | | | 11 F | | 2317 | 2.3 | 70 |
| | | | | | | | | | | | | | | | | | |

Guam (Apra Harbor), Mariana Islands, 2011

Times and Heights of High and Low Waters

| July | | | | August | | | | September | | | | | | | | | | | | | | | |
|-----------------|--------|------|------|-----------------|------|------|--------|-----------------|------|--------|----------------|-----------------|--------|------|----|-----------------|------|------|----|-----------------|------|------|-----|
| Time | Height | | Time | Height | | Time | Height | | Time | Height | | Time | Height | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | |
| 1 F | 0129 | 1.6 | 49 | 16 Sa | 0219 | 1.4 | 43 | 1 M | 0234 | 1.2 | 37 | 16 Tu | 0314 | 0.9 | 27 | 1 Th | 0340 | 0.2 | 6 | 16 F | 0342 | 0.3 | 9 |
| | 0621 | 2.4 | 73 | | 0713 | 2.4 | 73 | | 0749 | 2.5 | 76 | | 0839 | 2.3 | 70 | | 0946 | 2.5 | 76 | | 1001 | 2.2 | 67 |
| | 1349 | -0.6 | -18 | | 1433 | -0.5 | -15 | | 1449 | -0.4 | -12 | | 1519 | 0.3 | 9 | | 1554 | 0.6 | 18 | | 1553 | 1.0 | 30 |
| | 2102 | 2.4 | 73 | | 2134 | 2.4 | 73 | | 2132 | 2.6 | 79 | | 2135 | 2.3 | 70 | | 2146 | 2.6 | 79 | | 2124 | 2.2 | 67 |
| 2 Sa | 0215 | 1.6 | 49 | 17 Su | 0304 | 1.4 | 43 | 2 Tu | 0321 | 1.0 | 30 | 17 W | 0350 | 0.8 | 24 | 2 F | 0431 | 0.0 | 0 | 17 Sa | 0417 | 0.2 | 6 |
| | 0706 | 2.4 | 73 | | 0759 | 2.4 | 73 | | 0842 | 2.5 | 76 | | 0923 | 2.2 | 67 | | 1050 | 2.3 | 70 | | 1048 | 2.1 | 64 |
| | 1429 | -0.6 | -18 | | 1512 | -0.3 | -9 | | 1530 | -0.2 | -6 | | 1550 | 0.5 | 15 | | 1641 | 0.9 | 27 | | 1627 | 1.2 | 37 |
| | 2139 | 2.5 | 76 | | 2205 | 2.4 | 73 | | 2204 | 2.6 | 79 | | 2158 | 2.3 | 70 | | 2222 | 2.5 | 76 | | 2151 | 2.1 | 64 |
| 3 Su | 0300 | 1.5 | 46 | 18 M | 0348 | 1.2 | 37 | 3 W | 0409 | 0.8 | 24 | 18 Th | 0426 | 0.7 | 21 | 3 Sa | 0525 | -0.1 | -3 | 18 Su | 0457 | 0.2 | 6 |
| | 0751 | 2.4 | 73 | | 0844 | 2.3 | 70 | | 0939 | 2.4 | 73 | | 1009 | 2.1 | 64 | | 1202 | 2.2 | 67 | | 1142 | 2.0 | 61 |
| | 1509 | -0.6 | -18 | | 1548 | -0.1 | -3 | | 1612 | 0.1 | 3 | | 1621 | 0.7 | 21 | | 1731 | 1.2 | 37 | | 1705 | 1.3 | 40 |
| | 2214 | 2.5 | 76 | | 2233 | 2.4 | 73 | | 2236 | 2.6 | 79 | | 2222 | 2.3 | 70 | | 2301 | 2.4 | 73 | | 2222 | 2.1 | 64 |
| 4 M | 0347 | 1.4 | 43 | 19 Tu | 0430 | 1.1 | 34 | 4 Th | 0500 | 0.6 | 18 | 19 F | 0504 | 0.6 | 18 | 4 Su | 0624 | -0.2 | -6 | 19 M | 0543 | 0.2 | 6 |
| | 0840 | 2.4 | 73 | | 0930 | 2.1 | 64 | | 1042 | 2.2 | 67 | | 1059 | 1.9 | 58 | | 1328 | 2.0 | 61 | | 1248 | 1.9 | 58 |
| | 1550 | -0.5 | -15 | | 1621 | 0.2 | 6 | | 1656 | 0.4 | 12 | | 1653 | 0.9 | 27 | | 1831 | 1.4 | 43 | | 1753 | 1.5 | 46 |
| | 2249 | 2.5 | 76 | | 2259 | 2.3 | 70 | | 2310 | 2.6 | 79 | | 2248 | 2.2 | 67 | | 2347 | 2.3 | 70 | | 2300 | 2.0 | 61 |
| 5 Tu | 0436 | 1.3 | 40 | 20 W | 0513 | 1.0 | 30 | 5 F | 0554 | 0.3 | 9 | 20 Sa | 0546 | 0.5 | 15 | 5 M | 0729 | -0.2 | -6 | 20 Tu | 0638 | 0.2 | 6 |
| | 0932 | 2.3 | 70 | | 1019 | 2.0 | 61 | | 1154 | 2.0 | 61 | | 1157 | 1.8 | 55 | | 1503 | 2.0 | 61 | | 1407 | 1.9 | 58 |
| | 1631 | -0.2 | -6 | | 1654 | 0.4 | 12 | | 1742 | 0.8 | 24 | | 1729 | 1.1 | 34 | | 1943 | 1.6 | 49 | | 1858 | 1.6 | 49 |
| | 2324 | 2.6 | 79 | | 2325 | 2.3 | 70 | | 2346 | 2.5 | 76 | | 2318 | 2.2 | 67 | | 2318 | 2.2 | 67 | | 2351 | 2.0 | 61 |
| 6 W | 0528 | 1.1 | 34 | 21 Th | 0557 | 0.9 | 27 | 6 Sa | 0653 | 0.1 | 3 | 21 Su | 0634 | 0.4 | 12 | 6 Tu | 0046 | 2.2 | 67 | 21 W | 0741 | 0.1 | 3 |
| | 1032 | 2.1 | 64 | | 1114 | 1.8 | 55 | | 1320 | 1.9 | 58 | | 1310 | 1.8 | 55 | | 0838 | -0.1 | -3 | | 1524 | 2.0 | 61 |
| | 1714 | 0.1 | 3 | | 1728 | 0.7 | 21 | | 1834 | 1.1 | 34 | | 1811 | 1.3 | 40 | | 1624 | 2.0 | 61 | | 2017 | 1.6 | 49 |
| | 2358 | 2.6 | 79 | | 2352 | 2.3 | 70 | | 2354 | 2.1 | 64 | | 2354 | 2.1 | 64 | | 2107 | 1.6 | 49 | | 2107 | 1.6 | 49 |
| 7 Th | 0624 | 0.8 | 24 | 22 F | 0644 | 0.7 | 21 | 7 Su | 0027 | 2.5 | 76 | 22 M | 0729 | 0.3 | 9 | 7 W | 0201 | 2.1 | 64 | 22 Th | 0101 | 2.0 | 61 |
| | 1143 | 2.0 | 61 | | 1220 | 1.7 | 52 | | 0756 | 0.0 | 0 | | 1440 | 1.7 | 52 | | 0947 | -0.1 | -3 | | 0846 | 0.1 | 3 |
| | 1800 | 0.4 | 12 | | 1804 | 0.9 | 27 | | 1502 | 1.9 | 58 | | 1908 | 1.5 | 46 | | 1722 | 2.1 | 64 | | 1621 | 2.1 | 64 |
| | | | | | | | | | 1937 | 1.4 | 43 | | 2023 | 1.6 | 49 | | 2225 | 1.5 | 46 | | 2133 | 1.5 | 46 |
| 8 F | 0034 | 2.5 | 76 | 23 Sa | 0022 | 2.2 | 67 | 8 M | 0117 | 2.4 | 73 | 23 Tu | 0041 | 2.1 | 64 | 8 Th | 0322 | 2.1 | 64 | 23 F | 0226 | 2.0 | 61 |
| | 0723 | 0.5 | 15 | | 0733 | 0.6 | 18 | | 0903 | -0.2 | -6 | | 0830 | 0.2 | 6 | | 1049 | -0.1 | -3 | | 0948 | 0.0 | 0 |
| | 1309 | 1.8 | 55 | | 1342 | 1.6 | 49 | | 1637 | 2.0 | 61 | | 1606 | 1.8 | 55 | | 1805 | 2.2 | 67 | | 1704 | 2.2 | 67 |
| | 1850 | 0.8 | 24 | | 1845 | 1.2 | 37 | | 2053 | 1.6 | 49 | | 2023 | 1.6 | 49 | | 2327 | 1.3 | 40 | | 2234 | 1.3 | 40 |
| 9 Sa | 0113 | 2.5 | 76 | 24 Su | 0056 | 2.2 | 67 | 9 Tu | 0217 | 2.3 | 70 | 24 W | 0142 | 2.1 | 64 | 9 F | 0434 | 2.1 | 64 | 24 Sa | 0346 | 2.1 | 64 |
| | 0824 | 0.2 | 6 | | 0827 | 0.4 | 12 | | 1009 | -0.3 | -9 | | 0932 | 0.1 | 3 | | 1142 | 0.0 | 0 | | 1045 | 0.0 | 0 |
| | 1450 | 1.8 | 55 | | 1518 | 1.7 | 52 | | 1748 | 2.1 | 64 | | 1709 | 1.9 | 58 | | 1838 | 2.2 | 67 | | 1740 | 2.3 | 70 |
| | 1947 | 1.1 | 34 | | 1939 | 1.4 | 43 | | 2216 | 1.6 | 49 | | 2143 | 1.6 | 49 | | 2143 | 1.6 | 49 | | 2326 | 1.1 | 34 |
| 10 Su | 0157 | 2.5 | 76 | 25 M | 0138 | 2.2 | 67 | 10 W | 0324 | 2.3 | 70 | 25 Th | 0252 | 2.1 | 64 | 10 Sa | 0015 | 1.2 | 37 | 25 Su | 0456 | 2.3 | 70 |
| | 0926 | 0.0 | 0 | | 0922 | 0.2 | 6 | | 1110 | -0.3 | -9 | | 1031 | -0.1 | -3 | | 1228 | 0.1 | 3 | | 1138 | 0.0 | 0 |
| | 1629 | 1.9 | 58 | | 1644 | 1.8 | 55 | | 1839 | 2.2 | 67 | | 1755 | 2.1 | 64 | | 1906 | 2.3 | 70 | | 1813 | 2.4 | 73 |
| | 2056 | 1.4 | 43 | | 2048 | 1.5 | 46 | | 2329 | 1.6 | 49 | | 2251 | 1.5 | 46 | | 1906 | 2.3 | 70 | | 1906 | 2.3 | 70 |
| 11 M | 0246 | 2.5 | 76 | 26 Tu | 0229 | 2.2 | 67 | 11 Th | 0430 | 2.3 | 70 | 26 F | 0400 | 2.2 | 67 | 11 Su | 0056 | 1.0 | 30 | 26 M | 0012 | 0.8 | 24 |
| | 1027 | -0.3 | -9 | | 1017 | 0.0 | 0 | | 1204 | -0.4 | -12 | | 1124 | -0.2 | -6 | | 0625 | 2.2 | 67 | | 0558 | 2.4 | 73 |
| | 1750 | 2.0 | 61 | | 1747 | 1.9 | 58 | | 1920 | 2.2 | 67 | | 1832 | 2.2 | 67 | | 1308 | 0.2 | 6 | | 1227 | 0.1 | 3 |
| | 2213 | 1.6 | 49 | | 2203 | 1.6 | 49 | | | | | | 2347 | 1.4 | 43 | | 1930 | 2.3 | 70 | | 1846 | 2.5 | 76 |
| 12 Tu | 0340 | 2.5 | 76 | 27 W | 0325 | 2.2 | 67 | 12 F | 0027 | 1.5 | 46 | 27 Sa | 0502 | 2.4 | 73 | 12 M | 0133 | 0.8 | 24 | 27 Tu | 0057 | 0.4 | 12 |
| | 1124 | -0.5 | -15 | | 1109 | -0.1 | -3 | | 0530 | 2.3 | 70 | | 1212 | -0.3 | -9 | | 0711 | 2.3 | 70 | | 0657 | 2.6 | 79 |
| | 1852 | 2.2 | 67 | | 1835 | 2.0 | 61 | | 1252 | -0.3 | -9 | | 1906 | 2.4 | 73 | | 1344 | 0.4 | 12 | | 1315 | 0.3 | 9 |
| | 2328 | 1.6 | 49 | | 2313 | 1.6 | 49 | | 1953 | 2.3 | 70 | | | | | | 1952 | 2.3 | 70 | | 1918 | 2.6 | 79 |
| 13 W | 0436 | 2.5 | 76 | 28 Th | 0422 | 2.3 | 70 | 13 Sa | 0115 | 1.3 | 40 | 28 Su | 0036 | 1.2 | 37 | 13 Tu | 0206 | 0.6 | 18 | 28 W | 0142 | 0.1 | 3 |
| | 1217 | -0.6 | -18 | | 1157 | -0.3 | -9 | | 0622 | 2.4 | 73 | | 0600 | 2.5 | 76 | | 0755 | 2.3 | 70 | | 0755 | 2.6 | 79 |
| | 1942 | 2.3 | 70 | | 1916 | 2.2 | 67 | | 1334 | -0.2 | -6 | | 1258 | -0.3 | -9 | | 1417 | 0.5 | 15 | | 1402 | 0.5 | 15 |
| | | | | | | | | | 2022 | 2.3 | 70 | | 1939 | 2.5 | 76 | | 2014 | 2.3 | 70 | | 1951 | 2.6 | 79 |
| 14 Th | 0034 | 1.6 | 49 | 29 F | 0011 | 1.6 | 49 | 14 Su | 0158 | 1.2 | 37 | 29 M | 0122 | 1.0 | 30 | 14 W | 0238 | 0.5 | 15 | 29 Th | 0227 | -0.2 | -6 |
| | 0531 | 2.5 | 76 | | 0516 | 2.4 | 73 | | 0710 | 2.4 | 73 | | 0656 | 2.6 | 79 | | 0836 | 2.3 | 70 | | 0853 | 2.6 | 79 |
| | 1307 | -0.6 | -18 | | 1243 | -0.5 | -15 | | 1411 | -0.1 | -3 | | 1342 | -0.2 | -6 | | 1450 | 0.7 | 21 | | 1449 | 0.8 | 24 |
| | 2024 | 2.3 | 70 | | 1952 | 2.3 | 70 | | 2048 | 2.3 | 70 | | 2010 | 2.5 | 76 | | 2037 | 2.3 | 70 | | 2025 | 2.6 | 79 |
| 15 F | 0129 | 1.5 | 46 | 30 Sa | 0102 | 1.5 | 46 | 15 M | 0237 | 1.0 | 30 | 30 Tu | 0207 | 0.7 | 21 | 15 Th | 0310 | 0.4 | 12 | 30 F | 0315 | -0.4 | -12 |
| | 0624 | 2.5 | 76 | | 0607 | 2.5 | 76 | | 0755 | 2.3 | 70 | | 0751 | 2.6 | 79 | | 0918 | 2.2 | 67 | | 0952 | 2.6 | 79 |
| | 1352 | -0.6 | -18 | | 1326 | -0.5 | -15 | | 1446 | 0.1 | 3 | | 1426 | 0.0 | 0 | | 1521 | 0.9 | 27 | | 1538 | 1.0 | 30 |
| | 2101 | 2.4 | 73 | | 2027 | 2.4 | 73 | | 2112 | 2.3 | 70 | | 2042 | 2.6 | 79 | | 2100 | 2.2 | 67 | | 2101 | 2.5 | 76 |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | 31 Su | 0149 | 1.4 | 43 | | | | 31 W | 0253 | 0.4 | 12 | | | | | | | | | |

Guam (Apra Harbor), Mariana Islands, 2011

Times and Heights of High and Low Waters

| October | | | | November | | | | December | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|------|------|--------|----------|-----------------|------|------|----------|----|-----------------|------|------|--------|----|-----------------|------|------|-----|--|-----------------|------|------|-----|--|-----------------|------|------|-----|--|------|-----|----|--|------|-----|----|--|
| | Time | | Height | | | Time | | Height | | | Time | | Height | | | | | | | | | | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | | | | | | | | | | | | | | |
| 1 Sa | 0405 | -0.5 | -15 | | 16 Su | 0343 | -0.1 | -3 | | 1 Tu | 0530 | -0.4 | -12 | | 16 W | 0441 | -0.2 | -6 | | 1 Th | 0550 | 0.0 | 0 | | 16 F | 0502 | -0.1 | -3 | | | | | | | | | |
| | 1055 | 2.4 | 73 | | | 1042 | 2.2 | 67 | | | 1301 | 2.3 | 70 | | | 1209 | 2.3 | 70 | | | 1309 | 2.3 | 70 | | | 1212 | 2.5 | 76 | | | | | | | | | |
| | 1629 | 1.3 | 40 | | | 1609 | 1.4 | 43 | | | 1828 | 1.5 | 46 | | | 1741 | 1.6 | 49 | | | 1913 | 1.3 | 40 | | | 1820 | 1.3 | 40 | | 2336 | 1.8 | 55 | | 2258 | 1.9 | 58 | |
| | 2139 | 2.5 | 76 | | | 2105 | 2.1 | 64 | | | 2248 | 2.1 | 64 | | | 2158 | 2.1 | 64 | | | | | | | | | | | | | | | | | | | |
| 2 Su | 0458 | -0.5 | -15 | | 17 M | 0422 | -0.1 | -3 | | 2 W | 0627 | -0.1 | -3 | | 17 Th | 0527 | -0.1 | -3 | | 2 F | 0638 | 0.3 | 9 | | 17 Sa | 0547 | 0.2 | 6 | | | | | | | | | |
| | 1204 | 2.3 | 70 | | | 1132 | 2.1 | 64 | | | 1404 | 2.3 | 70 | | | 1258 | 2.3 | 70 | | | 1351 | 2.3 | 70 | | | 1250 | 2.5 | 76 | | | | | | | | | |
| | 1726 | 1.4 | 43 | | | 1652 | 1.5 | 46 | | | 1943 | 1.4 | 43 | | | 1845 | 1.5 | 46 | | | 2018 | 1.1 | 34 | | | 1920 | 1.0 | 30 | | | | | | | | | |
| | 2222 | 2.3 | 70 | | | 2138 | 2.1 | 64 | | | 2359 | 1.9 | 58 | | | 2257 | 1.9 | 58 | | | | | | | | | | | | | | | | | | | |
| 3 M | 0556 | -0.3 | -9 | | 18 Tu | 0506 | 0.0 | 0 | | 3 Th | 0727 | 0.1 | 3 | | 18 F | 0619 | 0.1 | 3 | | 3 Sa | 0104 | 1.6 | 49 | | 18 Su | 0018 | 1.8 | 55 | | | | | | | | | |
| | 1323 | 2.2 | 67 | | | 1231 | 2.1 | 64 | | | 1457 | 2.2 | 67 | | | 1345 | 2.3 | 70 | | | 0729 | 0.6 | 18 | | | 0638 | 0.5 | 15 | | | | | | | | | |
| | 1833 | 1.5 | 46 | | | 1747 | 1.6 | 49 | | | 2057 | 1.3 | 40 | | | 1952 | 1.3 | 40 | | | 1428 | 2.3 | 70 | | | 1329 | 2.5 | 76 | | | | | | | | | |
| | 2314 | 2.2 | 67 | | | 2219 | 2.0 | 61 | | | | | | | | | | | | | 2117 | 0.9 | 27 | | | 2021 | 0.7 | 21 | | | | | | | | | |
| 4 Tu | 0700 | -0.2 | -6 | | 19 W | 0558 | 0.0 | 0 | | 4 F | 0133 | 1.7 | 52 | | 19 Sa | 0018 | 1.8 | 55 | | 4 Su | 0249 | 1.6 | 49 | | 19 M | 0159 | 1.7 | 52 | | | | | | | | | |
| | 1443 | 2.1 | 64 | | | 1336 | 2.1 | 64 | | | 0827 | 0.4 | 12 | | | 0715 | 0.3 | 9 | | | 0823 | 0.9 | 27 | | | 0735 | 0.8 | 24 | | | | | | | | | |
| | 1952 | 1.5 | 46 | | | 1857 | 1.6 | 49 | | | 1540 | 2.3 | 70 | | | 1428 | 2.4 | 73 | | | 1503 | 2.3 | 70 | | | 1411 | 2.5 | 76 | | | | | | | | | |
| | | | | | | 2314 | 2.0 | 61 | | | 2158 | 1.0 | 30 | | | 2054 | 1.0 | 30 | | | 2207 | 0.6 | 18 | | | 2120 | 0.3 | 9 | | | | | | | | | |
| 5 W | 0021 | 2.0 | 61 | | 20 Th | 0656 | 0.1 | 3 | | 5 Sa | 0313 | 1.7 | 52 | | 20 Su | 0159 | 1.8 | 55 | | 5 M | 0422 | 1.7 | 52 | | 20 Tu | 0344 | 1.8 | 55 | | | | | | | | | |
| | 0807 | 0.0 | 0 | | | 1436 | 2.2 | 67 | | | 0926 | 0.6 | 18 | | | 0816 | 0.5 | 15 | | | 0921 | 1.1 | 34 | | | 0841 | 1.1 | 34 | | | | | | | | | |
| | 1549 | 2.2 | 67 | | | 2012 | 1.5 | 46 | | | 1614 | 2.3 | 70 | | | 1509 | 2.5 | 76 | | | 1536 | 2.3 | 70 | | | 1455 | 2.5 | 76 | | | | | | | | | |
| | 2113 | 1.4 | 43 | | | | | | | | 2247 | 0.8 | 24 | | | 2149 | 0.7 | 21 | | | 2251 | 0.4 | 12 | | | 2217 | -0.1 | -3 | | | | | | | | | |
| 6 Th | 0150 | 1.9 | 58 | | 21 F | 0032 | 1.9 | 58 | | 6 Su | 0434 | 1.8 | 55 | | 21 M | 0337 | 1.9 | 58 | | 6 Tu | 0531 | 1.8 | 55 | | 21 W | 0511 | 2.0 | 61 | | | | | | | | | |
| | 0914 | 0.1 | 3 | | | 0759 | 0.1 | 3 | | | 1021 | 0.8 | 24 | | | 0920 | 0.7 | 21 | | | 1021 | 1.3 | 40 | | | 0954 | 1.4 | 43 | | | | | | | | | |
| | 1638 | 2.2 | 67 | | | 1526 | 2.2 | 67 | | | 1643 | 2.3 | 70 | | | 1548 | 2.5 | 76 | | | 1609 | 2.3 | 70 | | | 1542 | 2.6 | 79 | | | | | | | | | |
| | 2221 | 1.3 | 40 | | | 2119 | 1.3 | 40 | | | 2327 | 0.5 | 15 | | | 2240 | 0.2 | 6 | | | 2329 | 0.1 | 3 | | | 2311 | -0.4 | -12 | | | | | | | | | |
| 7 F | 0322 | 1.9 | 58 | | 22 Sa | 0208 | 1.9 | 58 | | 7 M | 0537 | 1.9 | 58 | | 22 Tu | 0500 | 2.1 | 64 | | 7 W | 0625 | 2.0 | 61 | | 22 Th | 0621 | 2.2 | 67 | | | | | | | | | |
| | 1015 | 0.3 | 9 | | | 0902 | 0.2 | 6 | | | 1112 | 1.0 | 30 | | | 1025 | 1.0 | 30 | | | 1118 | 1.4 | 43 | | | 1106 | 1.5 | 46 | | | | | | | | | |
| | 1715 | 2.2 | 67 | | | 1607 | 2.3 | 70 | | | 1710 | 2.3 | 70 | | | 1628 | 2.6 | 79 | | | 1643 | 2.3 | 70 | | | 1631 | 2.6 | 79 | | | | | | | | | |
| | 2313 | 1.1 | 34 | | | 2215 | 1.0 | 30 | | | | | | | | 2329 | -0.2 | -6 | | | | | | | | | | | | | | | | | | | |
| 8 Sa | 0437 | 2.0 | 61 | | 23 Su | 0338 | 2.0 | 61 | | 8 Tu | 0003 | 0.3 | 9 | | 23 W | 0609 | 2.3 | 70 | | 8 Th | 0006 | -0.1 | -3 | | 23 F | 0003 | -0.7 | -21 | | | | | | | | | |
| | 1109 | 0.4 | 12 | | | 1003 | 0.3 | 9 | | | 0628 | 2.0 | 61 | | | 1127 | 1.1 | 34 | | | 0710 | 2.1 | 64 | | | 0719 | 2.4 | 73 | | | | | | | | | |
| | 1744 | 2.2 | 67 | | | 1644 | 2.4 | 73 | | | 1158 | 1.1 | 34 | | | 1708 | 2.6 | 79 | | | 1210 | 1.5 | 46 | | | 1212 | 1.6 | 49 | | | | | | | | | |
| | 2355 | 0.8 | 24 | | | 2304 | 0.7 | 21 | | | 1736 | 2.3 | 70 | | | | | | | | 1718 | 2.3 | 70 | | | 1721 | 2.6 | 79 | | | | | | | | | |
| 9 Su | 0537 | 2.1 | 64 | | 24 M | 0455 | 2.2 | 67 | | 9 W | 0036 | 0.1 | 3 | | 24 Th | 0016 | -0.5 | -15 | | 9 F | 0042 | -0.3 | -9 | | 24 Sa | 0053 | -0.9 | -27 | | | | | | | | | |
| | 1155 | 0.5 | 15 | | | 1101 | 0.5 | 15 | | | 0713 | 2.2 | 67 | | | 0710 | 2.4 | 73 | | | 0750 | 2.2 | 67 | | | 0809 | 2.5 | 76 | | | | | | | | | |
| | 1809 | 2.3 | 70 | | | 1719 | 2.5 | 76 | | | 1241 | 1.2 | 37 | | | 1226 | 1.3 | 40 | | | 1257 | 1.5 | 46 | | | 1312 | 1.6 | 49 | | | | | | | | | |
| | | | | | | 2350 | 0.3 | 9 | | | 1803 | 2.3 | 70 | | | 1749 | 2.7 | 82 | | | 1753 | 2.3 | 70 | | | 1811 | 2.6 | 79 | | | | | | | | | |
| 10 M | 0032 | 0.6 | 18 | | 25 Tu | 0601 | 2.4 | 73 | | 10 Th | 0108 | -0.1 | -3 | | 25 F | 0104 | -0.8 | -24 | | 10 Sa | 0118 | -0.4 | -12 | | 25 Su | 0141 | -0.9 | -27 | | | | | | | | | |
| | 0628 | 2.1 | 64 | | | 1156 | 0.6 | 18 | | | 0754 | 2.2 | 67 | | | 0807 | 2.5 | 76 | | | 0828 | 2.3 | 70 | | | 0855 | 2.5 | 76 | | | | | | | | | |
| | 1235 | 0.7 | 21 | | | 1754 | 2.6 | 79 | | | 1322 | 1.3 | 40 | | | 1323 | 1.4 | 43 | | | 1340 | 1.5 | 46 | | | 1406 | 1.5 | 46 | | | | | | | | | |
| | 1833 | 2.3 | 70 | | | | | | | | 1831 | 2.3 | 70 | | | 1832 | 2.7 | 82 | | | 1829 | 2.3 | 70 | | | 1900 | 2.6 | 79 | | | | | | | | | |
| 11 Tu | 0105 | 0.4 | 12 | | 26 W | 0035 | -0.1 | -3 | | 11 F | 0140 | -0.2 | -6 | | 26 Sa | 0152 | -0.9 | -27 | | 11 Su | 0154 | -0.5 | -15 | | 26 M | 0227 | -0.9 | -27 | | | | | | | | | |
| | 0713 | 2.2 | 67 | | | 0702 | 2.5 | 76 | | | 0834 | 2.3 | 70 | | | 0900 | 2.6 | 79 | | | 0905 | 2.3 | 70 | | | 0938 | 2.5 | 76 | | | | | | | | | |
| | 1313 | 0.8 | 24 | | | 1249 | 0.8 | 24 | | | 1401 | 1.4 | 43 | | | 1417 | 1.5 | 46 | | | 1420 | 1.6 | 49 | | | 1457 | 1.5 | 46 | | | | | | | | | |
| | 1855 | 2.3 | 70 | | | 1830 | 2.6 | 79 | | | 1900 | 2.3 | 70 | | | 1915 | 2.6 | 79 | | | 1906 | 2.3 | 70 | | | 1948 | 2.5 | 76 | | | | | | | | | |
| 12 W | 0136 | 0.2 | 6 | | 27 Th | 0120 | -0.5 | -15 | | 12 Sa | 0212 | -0.3 | -9 | | 27 Su | 0239 | -1.0 | -30 | | 12 M | 0229 | -0.5 | -15 | | 27 Tu | 0311 | -0.7 | -21 | | | | | | | | | |
| | 0755 | 2.3 | 70 | | | 0801 | 2.6 | 79 | | | 0913 | 2.3 | 70 | | | 0952 | 2.6 | 79 | | | 0943 | 2.4 | 73 | | | 1019 | 2.5 | 76 | | | | | | | | | |
| | 1349 | 1.0 | 30 | | | 1340 | 1.0 | 30 | | | 1438 | 1.5 | 46 | | | 1511 | 1.5 | 46 | | | 1501 | 1.6 | 49 | | | 1548 | 1.4 | 43 | | | | | | | | | |
| | 1919 | 2.3 | 70 | | | 1906 | 2.7 | 82 | | | 1930 | 2.3 | 70 | | | 2000 | 2.5 | 76 | | | 1942 | 2.3 | 70 | | | 2036 | 2.4 | 73 | | | | | | | | | |
| 13 Th | 0206 | 0.1 | 3 | | 28 F | 0207 | -0.7 | -21 | | 13 Su | 0246 | -0.3 | -9 | | 28 M | 0327 | -0.8 | -24 | | 13 Tu | 0305 | -0.5 | -15 | | 28 W | 0353 | -0.5 | -15 | | | | | | | | | |
| | 0835 | 2.3 | 70 | | | 0858 | 2.6 | 79 | | | 0953 | 2.3 | 70 | | | 1043 | 2.5 | 76 | | | 1020 | 2.4 | 73 | | | 1056 | 2.5 | 76 | | | | | | | | | |
| | 1423 | 1.1 | 34 | | | 1431 | 1.2 | 37 | | | 1516 | 1.5 | 46 | | | 1606 | 1.5 | 46 | | | 1543 | 1.6 | 49 | | | 1639 | 1.3 | 40 | | | | | | | | | |
| | 1943 | 2.3 | 70 | | | 1944 | 2.6 | 79 | | | 2001 | 2.2 | 67 | | | 2046 | 2.4 | 73 | | | 2021 | 2.3 | 70 | | | 2124 | 2.2 | 67 | | | | | | | | | |
| 14 F | 0237 | 0.0 | 0 | | 29 Sa | 0254 | -0.8 | -24 | | 14 M | 0321 | -0.3 | -9 | | 29 Tu | 0415 | -0.6 | -18 | | 14 W | 0343 | -0.4 | -12 | | 29 Th | 0433 | -0.2 | -6 | | | | | | | | | |
| | 0915 | 2.3 | 70 | | | 0955 | 2.6 | 79 | | | 1036 | 2.3 | 70 | | | 1134 | 2.4 | 73 | | | 1058 | 2.4 | 73 | | | 1131 | 2.4 | 73 | | | | | | | | | |
| | 1458 | 1.2 | 37 | | | 1523 | 1.4 | 43 | | | 1557 | 1.6 | 49 | | | 1704 | 1.5 | 46 | | | 1630 | 1.5 | 46 | | | 1731 | 1.2 | 37 | | | | | | | | | |
| | 2008 | 2.2 | 67 | | | 2024 | 2.6 | 79 | | | 2035 | 2.2 | 67 | | | 2135 | 2.2 | 67 | | | 2105 | 2.2 | 67 | | | 2216 | 2.0 | 61 | | | | | | | | | |
| 15 Sa | 0309 | -0.1 | -3 | | 30 Su | 0344 | -0.8 | -24 | | 15 Tu | 0359 | -0.3 | -9 | | 30 W | 0502 | -0.3 | -9 | | 15 Th | 0421 | -0.3 | -9 | | 30 F | 0511 | 0.2 | 6 | | | | | | | | | |
| | 0957 | 2.2 | 67 | | | 1054 | 2.5 | 76 | | | 1121 | 2.3 | 70 | | | | | | | | | | | | | | | | | | | | | | | | |

Malakal Harbor, Palau Islands, Caroline Islands, 2011

Times and Heights of High and Low Waters

| January | | | | February | | | | March | | | | | | | | | | | | | | | | |
|-----------------|---------------|------|------|-----------------|----------------|------|--------|-----------------|----------------|--------|-----|-----------------|----------------|------|-----|-----------------|----------------|------|--------|-----------------|----------------|------|------|-----|
| Time | Height | | Time | Height | | Time | Height | | Time | Height | | Time | Height | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | |
| 1 Sa | 0528 | 4.6 | 140 | 16 Su | 0459 | 4.1 | 125 | 1 Tu | 0035 | 0.3 | 9 | 16 W | 0002 | 0.4 | 12 | 1 Tu | 0612 | 4.5 | 137 | 16 W | 0457 | 4.5 | 137 | |
| | 1100 | 2.8 | 85 | | 1035 | 3.1 | 94 | | 0712 | 4.8 | 146 | | 0627 | 4.7 | 143 | | 1143 | 2.4 | 73 | | 1057 | 2.6 | 79 | |
| | 1637 | 5.7 | 174 | | 1603 | 5.1 | 155 | | 1245 | 2.2 | 67 | | 1213 | 2.3 | 70 | | 1721 | 4.9 | 149 | | 1623 | 5.0 | 152 | |
| | 2356 | 0.4 | 12 | | 2337 | 0.9 | 27 | | 1822 | 5.5 | 168 | | 1746 | 5.6 | 171 | | | | | | 2330 | 0.8 | 24 | |
| 2 Su | 0633 | 4.9 | 149 | 17 M | 0606 | 4.4 | 134 | 2 W | 0117 | 0.1 | 3 | 17 Th | 0047 | 0.0 | 0 | 2 W | 0014 | 0.7 | 21 | 17 Th | 0547 | 5.0 | 152 | |
| | 1202 | 2.6 | 79 | | 1140 | 2.8 | 85 | | 0743 | 5.1 | 155 | | 0703 | 5.2 | 158 | | 0645 | 4.8 | 146 | | 1152 | 1.9 | 58 | |
| | 1736 | 5.8 | 177 | | 1706 | 5.4 | 165 | | 1325 | 1.9 | 58 | | 1257 | 1.7 | 52 | | 1229 | 1.9 | 58 | | 1732 | 5.5 | 168 | |
| 3 M | 0046 | 0.1 | 3 | 18 Tu | 0025 | 0.4 | 12 | 3 Th | 0153 | 0.0 | 0 | 18 F | 0127 | -0.2 | -6 | 3 Th | 0054 | 0.5 | 15 | 18 F | 0019 | 0.4 | 12 | |
| | 0720 | 5.2 | 158 | | 0651 | 4.8 | 146 | | 0809 | 5.3 | 162 | | 0737 | 5.6 | 171 | | 0711 | 5.1 | 155 | | 0626 | 5.4 | 165 | |
| | 1253 | 2.4 | 73 | | 1230 | 2.5 | 76 | | 1401 | 1.6 | 49 | | 1337 | 1.2 | 37 | | 1307 | 1.5 | 46 | | 1238 | 1.2 | 37 | |
| | 1827 | 6.0 | 183 | | 1800 | 5.8 | 177 | | ● 1942 | 5.9 | 180 | | ○ 1925 | 6.4 | 195 | | 1854 | 5.5 | 168 | | 1827 | 5.9 | 180 | |
| 4 Tu | 0130 | -0.1 | -3 | 19 W | 0108 | -0.1 | -3 | 4 F | 0225 | 0.1 | 3 | 19 Sa | 0205 | -0.2 | -6 | 4 F | 0128 | 0.4 | 12 | 19 Sa | 0101 | 0.3 | 9 | |
| | 0757 | 5.3 | 162 | | 0729 | 5.2 | 158 | | 0833 | 5.5 | 168 | | 0809 | 6.0 | 183 | | 0735 | 5.4 | 165 | | 0702 | 5.9 | 180 | |
| | 1336 | 2.2 | 67 | | 1312 | 2.2 | 67 | | 1433 | 1.5 | 46 | | 1417 | 0.8 | 24 | | 1340 | 1.2 | 37 | | 1319 | 0.6 | 18 | |
| | ● 1911 | 6.1 | 186 | | 1848 | 6.1 | 186 | | 2015 | 6.0 | 183 | | 2010 | 6.5 | 198 | | 1929 | 5.7 | 174 | | 1916 | 6.3 | 192 | |
| 5 W | 0209 | -0.1 | -3 | 20 Th | 0146 | -0.3 | -9 | 5 Sa | 0254 | 0.3 | 9 | 20 Su | 0241 | 0.0 | 0 | 5 Sa | 0159 | 0.5 | 15 | 20 Su | 0141 | 0.4 | 12 | |
| | 0830 | 5.5 | 168 | | 0803 | 5.5 | 168 | | 0857 | 5.6 | 171 | | 0842 | 6.2 | 189 | | 0757 | 5.6 | 171 | | 0736 | 6.3 | 192 | |
| | 1414 | 2.2 | 67 | | 1351 | 1.9 | 58 | | 1502 | 1.4 | 43 | | 1457 | 0.5 | 15 | | 1410 | 1.0 | 30 | | 1359 | 0.1 | 3 | |
| 6 Th | 1950 | 6.2 | 189 | ○ 1932 | 6.4 | 195 | 2047 | 5.9 | 180 | 2054 | 6.4 | 195 | ● 2000 | 5.8 | 177 | ○ 2002 | 6.4 | 195 | ○ 2002 | 6.4 | 195 | | | |
| | 7 F | 0244 | 0.0 | 0 | 21 F | 0224 | -0.4 | -12 | 6 Su | 0321 | 0.6 | 18 | 21 M | 0317 | 0.4 | 12 | 6 Su | 0226 | 0.7 | 21 | 21 M | 0218 | 0.6 | 18 |
| | | 0900 | 5.6 | 171 | | 0837 | 5.8 | 177 | | 0920 | 5.6 | 171 | | 0916 | 6.3 | 192 | | 0819 | 5.7 | 174 | | 0810 | 6.5 | 198 |
| | | 1450 | 2.1 | 64 | | 1431 | 1.7 | 52 | | 1531 | 1.4 | 43 | | 1437 | 0.4 | 12 | | 1437 | 0.9 | 27 | | 1440 | -0.2 | -6 |
| 2026 | | 6.2 | 189 | 2016 | | 6.6 | 201 | 2119 | | 5.8 | 177 | 2139 | | 6.2 | 189 | 2031 | | 5.9 | 180 | 2046 | | 6.3 | 192 | |
| 8 Sa | 0317 | 0.3 | 9 | 22 Sa | 0301 | -0.2 | -6 | 7 M | 0346 | 1.0 | 30 | 22 Tu | 0353 | 0.9 | 27 | 7 M | 0251 | 0.9 | 27 | 22 Tu | 0255 | 1.0 | 30 | |
| | 0928 | 5.6 | 171 | | 0912 | 6.0 | 183 | | 0946 | 5.6 | 171 | | 0951 | 6.3 | 192 | | 0842 | 5.8 | 177 | | 0844 | 6.5 | 198 | |
| | 1524 | 2.2 | 67 | | 1511 | 1.5 | 46 | | 1601 | 1.5 | 46 | | 1624 | 0.5 | 15 | | 1504 | 0.8 | 24 | | 1521 | -0.2 | -6 | |
| | 2101 | 6.0 | 183 | | 2100 | 6.5 | 198 | | 2153 | 5.5 | 168 | | 2227 | 5.7 | 174 | | 2101 | 5.8 | 177 | | 2131 | 6.0 | 183 | |
| 9 Su | 0348 | 0.6 | 18 | 23 Su | 0338 | 0.1 | 3 | 8 Tu | 0410 | 1.4 | 43 | 23 W | 0431 | 1.5 | 46 | 8 Tu | 0314 | 1.3 | 40 | 23 W | 0331 | 1.5 | 46 | |
| | 0957 | 5.6 | 171 | | 0947 | 6.1 | 186 | | 1013 | 5.6 | 171 | | 1030 | 6.1 | 186 | | 0906 | 5.8 | 177 | | 0920 | 6.4 | 195 | |
| | 1558 | 2.2 | 67 | | 1555 | 1.3 | 40 | | 1632 | 1.5 | 46 | | 1714 | 0.6 | 18 | | 1531 | 0.9 | 27 | | 1605 | 0.0 | 0 | |
| | 2137 | 5.8 | 177 | | 2147 | 6.2 | 189 | | 2230 | 5.2 | 158 | | 2319 | 5.1 | 155 | | 2134 | 5.6 | 171 | | 2217 | 5.6 | 171 | |
| 10 M | 0418 | 1.0 | 30 | 24 M | 0416 | 0.6 | 18 | 9 W | 0434 | 1.7 | 52 | 24 Th | 0512 | 2.1 | 64 | 9 W | 0337 | 1.6 | 49 | 24 Th | 0410 | 2.0 | 61 | |
| | 1026 | 5.5 | 168 | | 1025 | 6.1 | 186 | | 1043 | 5.5 | 168 | | 1112 | 5.8 | 177 | | 0932 | 5.7 | 174 | | 0959 | 6.2 | 189 | |
| | 1633 | 2.3 | 70 | | 1644 | 1.3 | 40 | | 1708 | 1.5 | 46 | | 1813 | 0.9 | 27 | | 1559 | 0.9 | 27 | | 1653 | 0.4 | 12 | |
| | 2214 | 5.6 | 171 | | 2237 | 5.8 | 177 | | 2312 | 4.9 | 149 | | 2312 | 4.9 | 149 | | 2209 | 5.3 | 162 | | 2307 | 5.1 | 155 | |
| 11 Tu | 0448 | 1.4 | 43 | 25 Tu | 0457 | 1.2 | 37 | 10 Th | 0459 | 2.1 | 64 | 25 F | 0019 | 4.6 | 140 | 10 Th | 0359 | 2.0 | 61 | 25 F | 0452 | 2.5 | 76 | |
| | 1058 | 5.5 | 168 | | 1105 | 6.0 | 183 | | 1117 | 5.3 | 162 | | 0601 | 2.6 | 79 | | 1001 | 5.6 | 171 | | 1041 | 5.8 | 177 | |
| | 1713 | 2.3 | 70 | | 1738 | 1.3 | 40 | | 1752 | 1.6 | 49 | | 1201 | 5.4 | 165 | | 1632 | 1.1 | 34 | | 1749 | 0.8 | 24 | |
| | 2256 | 5.2 | 158 | | 2332 | 5.3 | 162 | | ● 1927 | 1.2 | 37 | | ○ 1927 | 1.2 | 37 | | 2248 | 5.0 | 152 | | 2307 | 5.1 | 155 | |
| 12 W | 0518 | 1.8 | 55 | 26 W | 0540 | 1.8 | 55 | 11 F | 0001 | 4.5 | 137 | 26 Sa | 0138 | 4.1 | 125 | 11 F | 0423 | 2.3 | 70 | 26 Sa | 0005 | 4.6 | 140 | |
| | 1132 | 5.4 | 165 | | 1149 | 5.8 | 177 | | 0528 | 2.5 | 76 | | 0717 | 3.0 | 91 | | 1035 | 5.5 | 168 | | 0546 | 2.9 | 88 | |
| | 1758 | 2.2 | 67 | | 1842 | 1.3 | 40 | | 1157 | 5.1 | 155 | | 1303 | 5.0 | 152 | | 1712 | 1.2 | 37 | | 1131 | 5.3 | 162 | |
| | 2344 | 4.8 | 146 | | ● 1842 | 1.3 | 40 | | ○ 1852 | 1.7 | 52 | | 2055 | 1.3 | 40 | | 2336 | 4.6 | 140 | | ○ 1858 | 1.3 | 40 | |
| 13 Th | 0551 | 2.2 | 67 | 27 Th | 0037 | 4.7 | 143 | 12 Sa | 0105 | 4.1 | 125 | 27 Su | 0336 | 3.9 | 119 | 12 Sa | 0453 | 2.6 | 79 | 27 Su | 0119 | 4.3 | 131 | |
| | 1210 | 5.3 | 162 | | 0632 | 2.3 | 70 | | 0608 | 2.8 | 85 | | 0907 | 3.1 | 94 | | 1115 | 5.2 | 158 | | 0709 | 3.2 | 98 | |
| | 1854 | 2.2 | 67 | | 1239 | 5.6 | 171 | | 1249 | 4.9 | 149 | | 1428 | 4.7 | 143 | | 1806 | 1.4 | 43 | | 1235 | 4.9 | 149 | |
| | ● 1854 | 2.2 | 67 | | 1958 | 1.3 | 40 | | 2020 | 1.7 | 52 | | 2219 | 1.2 | 37 | | 2219 | 1.2 | 37 | | 2021 | 1.5 | 46 | |
| 14 F | 0040 | 4.4 | 134 | 28 F | 0158 | 4.2 | 128 | 13 Su | 0233 | 3.8 | 116 | 28 M | 0522 | 4.2 | 128 | 13 Su | 0037 | 4.3 | 131 | 28 M | 0301 | 4.2 | 128 | |
| | 0630 | 2.6 | 79 | | 0744 | 2.8 | 85 | | 0733 | 3.1 | 94 | | 1039 | 2.8 | 85 | | 0535 | 2.9 | 88 | | 0855 | 3.1 | 94 | |
| | 1254 | 5.1 | 155 | | 1340 | 5.3 | 162 | | 1400 | 4.8 | 146 | | 1605 | 4.7 | 143 | | 1208 | 5.0 | 152 | | 1402 | 4.6 | 140 | |
| | 2005 | 2.0 | 61 | | 2122 | 1.2 | 37 | | 2155 | 1.4 | 43 | | 2324 | 0.9 | 27 | | ○ 1928 | 1.5 | 46 | | 2142 | 1.6 | 49 | |
| 15 Sa | 0152 | 4.1 | 125 | 29 Sa | 0348 | 4.0 | 122 | 14 M | 0423 | 3.9 | 119 | 29 Su | 0522 | 4.2 | 128 | 14 M | 0159 | 4.0 | 122 | 29 Tu | 0432 | 4.4 | 134 | |
| | 0727 | 2.9 | 88 | | 0920 | 3.0 | 91 | | 1000 | 3.1 | 94 | | 0907 | 3.1 | 94 | | 0705 | 3.2 | 98 | | 1019 | 2.8 | 85 | |
| | 1348 | 5.0 | 152 | | 1456 | 5.1 | 155 | | 1524 | 4.8 | 146 | | 1605 | 4.7 | 143 | | 1322 | 4.8 | 146 | | 1542 | 4.5 | 137 | |
| | 2125 | 1.8 | 55 | | 2241 | 0.9 | 27 | | 2308 | 0.9 | 27 | | 2324 | 0.9 | 27 | | 2109 | 1.5 | 46 | | 2248 | 1.5 | 46 | |
| 16 Su | 0323 | 4.0 | 122 | 30 Su | 0534 | 4.2 | 128 | 15 Tu | 0541 | 4.3 | 131 | 15 Tu | 0339 | 4.1 | 125 | 15 Tu | 0339 | 4.1 | 125 | 30 W | 0523 | 4.6 | 140 | |
| | 0903 | 3.1 | 94 | | 1049 | 2.9 | 88 | | 1120 | 2.8 | 85 | | 0936 | 3.1 | 94 | | 0936 | 3.1 | 94 | | 1118 | 2.3 | 70 | |
| | 1453 | 5.0 | 152 | | 1618 | 5.1 | 155 | | 1643 | 5.1 | 155 | | 1455 | 4.8 | 146 | | 1455 | 4.8 | 146 | | 1701 | 4.7 | 143 | |
| | 2238 | 1.4 | 43 | | 2344 | 0.6 | 18 | | | | | | 2230 | 1.1 | 34 | | 2230 | 1.1 | 34 | | 2339 | 1.3 | 40 | |
| 31 M | 0633 | 4.5 | 137 | 31 M | 0633 | 4.5 | 137 | 31 Th | 1155 | 2.5 | | | | | | | | | | | | | | |

Malakal Harbor, Palau Islands, Caroline Islands, 2011

Times and Heights of High and Low Waters

| July | | | | August | | | | September | | | | | | | | | | | | | | | | | | |
|-----------------|------|--------|-----|-----------------|------|--------|-----|-----------------|------|--------|-----|-----------------|------|--------|-----|-----------------|------|-----|-----|-----------------|------|-----|-----|------|-----|-----|
| Time | | Height | | Time | | Height | | Time | | Height | | Time | | Height | | | | | | | | | | | | |
| h | m | ft | cm | h | m | ft | cm | h | m | ft | cm | h | m | ft | cm | | | | | | | | | | | |
| 1 F | 0111 | 2.6 | 79 | 16 Sa | 0158 | 2.3 | 70 | 1 M | 0212 | 2.1 | 64 | 16 Tu | 0249 | 1.8 | 55 | 1 Th | 0313 | 1.0 | 30 | 16 F | 0318 | 1.6 | 49 | | | |
| | 0641 | 6.0 | 183 | | 0733 | 6.2 | 189 | | 0754 | 6.6 | 201 | | 0833 | 6.3 | 192 | | 0914 | 6.8 | 207 | | 0918 | 6.2 | 189 | | | |
| | 1347 | 0.0 | 0 | | 1429 | -0.1 | -3 | | 1439 | 0.1 | 3 | | 1506 | 1.0 | 30 | | 1526 | 1.5 | 46 | | 1521 | 2.4 | 73 | 1521 | 2.4 | 73 |
| | 2009 | 5.3 | 162 | | 2049 | 5.6 | 171 | | 2051 | 6.2 | 189 | | 2107 | 6.2 | 189 | | 2125 | 7.0 | 213 | | 2116 | 6.5 | 198 | 2116 | 6.5 | 198 |
| 2 Sa | 0149 | 2.6 | 79 | 17 Su | 0237 | 2.2 | 67 | 2 Tu | 0251 | 1.8 | 55 | 17 W | 0320 | 1.8 | 55 | 2 F | 0357 | 1.0 | 30 | 17 Sa | 0347 | 1.7 | 52 | | | |
| | 0722 | 6.2 | 189 | | 0812 | 6.2 | 189 | | 0838 | 6.7 | 204 | | 0906 | 6.2 | 189 | | 1001 | 6.4 | 195 | | 0953 | 5.9 | 180 | | | |
| | 1423 | -0.1 | -3 | | 1504 | 0.2 | 6 | | 1515 | 0.4 | 12 | | 1532 | 1.4 | 43 | | 1603 | 2.1 | 64 | | 1543 | 2.8 | 85 | 1543 | 2.8 | 85 |
| | 2043 | 5.6 | 171 | | 2119 | 5.7 | 174 | | 2124 | 6.4 | 195 | | 2132 | 6.2 | 189 | | 2203 | 6.9 | 210 | | 2144 | 6.3 | 192 | 2144 | 6.3 | 192 |
| 3 Su | 0226 | 2.5 | 76 | 18 M | 0314 | 2.2 | 67 | 3 W | 0332 | 1.6 | 49 | 18 Th | 0351 | 1.9 | 58 | 3 Sa | 0447 | 1.1 | 34 | 18 Su | 0419 | 1.9 | 58 | | | |
| | 0803 | 6.3 | 192 | | 0849 | 6.1 | 186 | | 0923 | 6.5 | 198 | | 0940 | 6.0 | 183 | | 1053 | 5.9 | 180 | | 1032 | 5.6 | 171 | | | |
| | 1458 | 0.0 | 0 | | 1536 | 0.6 | 18 | | 1551 | 0.9 | 27 | | 1557 | 1.9 | 58 | | 1644 | 2.6 | 79 | | 1606 | 3.1 | 94 | 1606 | 3.1 | 94 |
| | 2118 | 5.7 | 174 | | 2147 | 5.8 | 177 | | 2200 | 6.5 | 198 | | 2159 | 6.1 | 186 | | 2246 | 6.6 | 201 | | 2217 | 6.2 | 189 | 2217 | 6.2 | 189 |
| 4 M | 0305 | 2.4 | 73 | 19 Tu | 0350 | 2.2 | 67 | 4 Th | 0418 | 1.5 | 46 | 19 F | 0423 | 1.9 | 58 | 4 Su | 0545 | 1.4 | 43 | 19 M | 0459 | 2.1 | 64 | | | |
| | 0845 | 6.3 | 192 | | 0926 | 5.9 | 180 | | 1012 | 6.2 | 189 | | 1017 | 5.7 | 174 | | 1152 | 5.3 | 162 | | 1118 | 5.3 | 162 | | | |
| | 1535 | 0.2 | 6 | | 1607 | 1.0 | 30 | | 1629 | 1.4 | 43 | | 1621 | 2.3 | 70 | | 1731 | 3.2 | 98 | | 1634 | 3.4 | 104 | 1634 | 3.4 | 104 |
| | 2155 | 5.9 | 180 | | 2216 | 5.8 | 177 | | 2239 | 6.5 | 198 | | 2228 | 6.0 | 183 | | 2335 | 6.3 | 192 | | 2357 | 6.0 | 183 | 2357 | 6.0 | 183 |
| 5 Tu | 0348 | 2.3 | 70 | 20 W | 0427 | 2.2 | 67 | 5 F | 0510 | 1.5 | 46 | 20 Sa | 0459 | 2.0 | 61 | 5 M | 0656 | 1.7 | 52 | 20 Tu | 0552 | 2.3 | 70 | | | |
| | 0931 | 6.2 | 189 | | 1004 | 5.7 | 174 | | 1105 | 5.7 | 174 | | 1058 | 5.3 | 162 | | 1308 | 4.9 | 149 | | 1218 | 4.9 | 149 | | | |
| | 1613 | 0.5 | 15 | | 1637 | 1.4 | 43 | | 1710 | 2.0 | 61 | | 1646 | 2.7 | 82 | | 1841 | 3.6 | 110 | | 1713 | 3.7 | 113 | 1713 | 3.7 | 113 |
| | 2233 | 6.0 | 183 | | 2246 | 5.7 | 174 | | 2321 | 6.3 | 192 | | 2302 | 5.9 | 180 | | 2026 | 3.8 | 116 | | 2349 | 5.7 | 174 | 2349 | 5.7 | 174 |
| 6 W | 0437 | 2.2 | 67 | 21 Th | 0507 | 2.3 | 70 | 6 Sa | 0610 | 1.5 | 46 | 21 Su | 0543 | 2.1 | 64 | 6 Tu | 0036 | 5.9 | 180 | 21 W | 0711 | 2.4 | 73 | | | |
| | 1021 | 5.9 | 180 | | 1045 | 5.3 | 162 | | 1206 | 5.2 | 158 | | 1146 | 4.9 | 149 | | 0821 | 1.8 | 55 | | 1337 | 4.8 | 146 | | | |
| | 1654 | 1.0 | 30 | | 1707 | 1.9 | 58 | | 1757 | 2.5 | 76 | | 1714 | 3.0 | 91 | | 1453 | 4.7 | 143 | | 1837 | 4.0 | 122 | 1837 | 4.0 | 122 |
| | 2314 | 6.0 | 183 | | 2319 | 5.6 | 171 | | 2028 | 3.3 | 101 | | 2342 | 5.7 | 174 | | 2026 | 3.8 | 116 | | 2026 | 3.8 | 116 | 2026 | 3.8 | 116 |
| 7 Th | 0533 | 2.0 | 61 | 22 F | 0551 | 2.3 | 70 | 7 Su | 0009 | 6.1 | 186 | 22 M | 0641 | 2.2 | 67 | 7 W | 0155 | 5.6 | 171 | 22 Th | 0059 | 5.5 | 168 | | | |
| | 1117 | 5.5 | 168 | | 1131 | 5.0 | 152 | | 0721 | 1.5 | 46 | | 1247 | 4.6 | 140 | | 0946 | 1.8 | 55 | | 0847 | 2.3 | 70 | | | |
| | 1739 | 1.4 | 43 | | 1738 | 2.3 | 70 | | 1320 | 4.7 | 143 | | 1751 | 3.4 | 104 | | 1642 | 4.8 | 146 | | 1513 | 4.8 | 146 | 1513 | 4.8 | 146 |
| | 2359 | 6.0 | 183 | | 2355 | 5.5 | 168 | | 1859 | 3.0 | 91 | | 1904 | 3.7 | 113 | | 2204 | 3.6 | 110 | | 2108 | 3.9 | 119 | 2108 | 3.9 | 119 |
| 8 F | 0637 | 1.8 | 55 | 23 Sa | 0643 | 2.2 | 67 | 8 M | 0106 | 5.9 | 180 | 23 Tu | 0032 | 5.5 | 168 | 8 Th | 0329 | 5.5 | 168 | 23 F | 0228 | 5.5 | 168 | | | |
| | 1221 | 5.1 | 155 | | 1225 | 4.6 | 140 | | 0842 | 1.4 | 43 | | 0804 | 2.2 | 67 | | 1055 | 1.6 | 49 | | 1005 | 2.1 | 64 | | | |
| | 1830 | 2.0 | 61 | | 1813 | 2.7 | 82 | | 1457 | 4.4 | 134 | | 1411 | 4.3 | 131 | | 1742 | 5.2 | 158 | | 1630 | 5.2 | 158 | 1630 | 5.2 | 158 |
| | | | | | | | | | 2028 | 3.3 | 101 | | 1904 | 3.7 | 113 | | 2313 | 3.1 | 94 | | 2232 | 3.5 | 107 | 2232 | 3.5 | 107 |
| 9 Sa | 0048 | 5.9 | 180 | 24 Su | 0036 | 5.4 | 165 | 9 Tu | 0216 | 5.7 | 174 | 24 W | 0138 | 5.3 | 162 | 9 F | 0450 | 5.7 | 174 | 24 Sa | 0354 | 5.7 | 174 | | | |
| | 0749 | 1.6 | 49 | | 0747 | 2.1 | 64 | | 1004 | 1.2 | 37 | | 0934 | 2.0 | 61 | | 1148 | 1.3 | 40 | | 1105 | 1.7 | 52 | | | |
| | 1336 | 4.6 | 140 | | 1331 | 4.3 | 131 | | 1649 | 4.5 | 137 | | 1557 | 4.4 | 134 | | 1820 | 5.5 | 168 | | 1720 | 5.6 | 171 | 1720 | 5.6 | 171 |
| | 1931 | 2.4 | 73 | | 1900 | 3.0 | 91 | | 2206 | 3.3 | 101 | | 2130 | 3.7 | 113 | | 2300 | 3.7 | 113 | | 2327 | 2.8 | 85 | 2327 | 2.8 | 85 |
| 10 Su | 0143 | 5.8 | 177 | 25 M | 0126 | 5.3 | 162 | 10 W | 0337 | 5.6 | 171 | 25 Th | 0258 | 5.3 | 162 | 10 Sa | 0005 | 2.7 | 82 | 25 Su | 0504 | 6.1 | 186 | | | |
| | 0905 | 1.3 | 40 | | 0903 | 2.0 | 61 | | 1113 | 0.9 | 27 | | 1046 | 1.6 | 49 | | 1231 | 1.2 | 37 | | 1153 | 1.4 | 43 | | | |
| | 1506 | 4.4 | 134 | | 1456 | 4.1 | 125 | | 1803 | 4.8 | 146 | | 1718 | 4.7 | 143 | | 1850 | 5.8 | 177 | | 1800 | 6.1 | 186 | 1800 | 6.1 | 186 |
| | 2049 | 2.8 | 85 | | 2022 | 3.3 | 101 | | 2322 | 3.1 | 94 | | 2255 | 3.4 | 104 | | 1850 | 5.8 | 177 | | 2327 | 2.8 | 85 | 2327 | 2.8 | 85 |
| 11 M | 0245 | 5.7 | 174 | 26 Tu | 0227 | 5.2 | 158 | 11 Th | 0454 | 5.7 | 174 | 26 F | 0417 | 5.6 | 171 | 11 Su | 0046 | 2.2 | 67 | 26 M | 0013 | 2.1 | 64 | | | |
| | 1019 | 0.9 | 27 | | 1016 | 1.6 | 49 | | 1209 | 0.6 | 18 | | 1141 | 1.2 | 37 | | 0634 | 6.2 | 189 | | 0600 | 6.5 | 198 | | | |
| | 1644 | 4.4 | 134 | | 1634 | 4.1 | 125 | | 1849 | 5.2 | 158 | | 1805 | 5.2 | 158 | | 1308 | 1.1 | 34 | | 1235 | 1.2 | 37 | 1235 | 1.2 | 37 |
| | 2213 | 2.9 | 88 | | 2202 | 3.3 | 101 | | | | | | 2351 | 3.0 | 91 | | 1916 | 6.1 | 186 | | 1835 | 6.5 | 198 | 1835 | 6.5 | 198 |
| 12 Tu | 0353 | 5.7 | 174 | 27 W | 0335 | 5.2 | 158 | 12 F | 0019 | 2.7 | 82 | 27 Sa | 0521 | 6.0 | 183 | 12 M | 0122 | 1.9 | 58 | 27 Tu | 0054 | 1.5 | 46 | | | |
| | 1124 | 0.5 | 15 | | 1118 | 1.2 | 37 | | 0555 | 5.9 | 180 | | 1225 | 0.8 | 24 | | 0711 | 6.4 | 195 | | 0650 | 6.9 | 210 | | | |
| | 1803 | 4.7 | 143 | | 1749 | 4.4 | 134 | | 1255 | 0.4 | 12 | | 1841 | 5.6 | 171 | | 1340 | 1.2 | 37 | | 1314 | 1.2 | 37 | 1314 | 1.2 | 37 |
| | 2326 | 2.8 | 85 | | 2316 | 3.2 | 98 | | 1923 | 5.5 | 168 | | | | | | 1939 | 6.3 | 192 | | 1909 | 6.9 | 210 | 1909 | 6.9 | 210 |
| 13 W | 0500 | 5.8 | 177 | 28 Th | 0441 | 5.4 | 165 | 13 Sa | 0104 | 2.3 | 70 | 28 Su | 0035 | 2.5 | 76 | 13 Tu | 0153 | 1.6 | 49 | 28 W | 0134 | 0.9 | 27 | | | |
| | 1220 | 0.1 | 3 | | 1208 | 0.8 | 24 | | 0644 | 6.2 | 189 | | 0614 | 6.4 | 195 | | 0744 | 6.5 | 198 | | 0736 | 7.1 | 216 | | | |
| | 1859 | 5.0 | 152 | | 1837 | 4.8 | 146 | | 1333 | 0.4 | 12 | | 1304 | 0.6 | 18 | | 1408 | 1.4 | 43 | | 1351 | 1.4 | 43 | 1351 | 1.4 | 43 |
| | | | | | | | | | 1952 | 5.8 | 177 | | 1914 | 6.1 | 186 | | 2002 | 6.5 | 198 | | 1943 | 7.2 | 219 | 1943 | 7.2 | 219 |
| 14 Th | 0026 | 2.6 | 79 | 29 F | 0011 | 2.9 | 88 | 14 Su | 0143 | 2.1 | 64 | 29 M | 0115 | 1.9 | 58 | 14 W | 0223 | 1.5 | 46 | 29 Th | 0214 | 0.6 | 18 | | | |
| | 0559 | 6.0 | 183 | | 0538 | 5.8 | 177 | | 0724 | 6.3 | 192 | | 0701 | 6.8 | 207 | | 0815 | 6.5 | 198 | | 0820 | 7.0 | 213 | | | |
| | 1309 | -0.1 | -3 | | 1251 | 0.4 | 12 | | 1407 | 0.5 | 15 | | 1341 | 0.5 | 15 | | 1435 | 1.7 | 52 | | 1427 | 1.8 | 55 | 1427 | 1.8 | 55 |
| | 1942 | 5.3 | 162 | | 1914 | 5.2 | 158 | | 2018 | 6.0 | 183 | | 1945 | 6.5 | 198 | | 2025 | 6.5 | 198 | | 2018 | 7.3 | 223 | 2018 | 7.3 | 223 |
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Malakal Harbor, Palau Islands, Caroline Islands, 2011

Times and Heights of High and Low Waters

| October | | | November | | | December | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 Sa | 0339 | 0.6 | 18 | | | 16 Su | 0321 | 1.4 | 43 | | 1 Tu | 0506 | 1.3 | 40 | 16 W | 0419 | 1.4 | 43 | 1 Th | 0535 | 1.6 | 49 | 16 F | 0447 | 1.2 | 37 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0952 | 6.4 | 195 | | | | 0936 | 6.0 | 183 | | | | 1128 | 5.6 | | 171 | | | | 1048 | 5.7 | 174 | | | | 1154 | 5.5 | 168 | | | 1113 | 5.8 | 177 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1542 | 2.7 | 82 | | | | 1515 | 3.2 | 98 | | | | 1711 | 3.7 | | 113 | | | | 1615 | 3.6 | 110 | | | | 1802 | 3.3 | 101 | | | 1708 | 2.8 | 85 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2133 | 7.1 | 216 | | | | 2111 | 6.5 | 198 | | | | 2247 | 6.2 | | 189 | | | | 2211 | 6.2 | 189 | | | | 2324 | 5.6 | 171 | | | 2255 | 5.8 | 177 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 Su | 0428 | 1.0 | 30 | | | 17 M | 0354 | 1.6 | 49 | | | 2 W | 0607 | 1.8 | 55 | | | 17 Th | 0505 | 1.7 | 52 | | | 2 F | 0627 | 2.0 | 61 | | | 17 Sa | 0532 | 1.5 | 46 | | | 17 Su | 1159 | 5.8 | 177 | | | 17 Mo | 1813 | 2.6 | 79 | | | 17 Tu | 2357 | 5.4 | 165 | | | 17 We | 2357 | 5.4 | 165 | | | 17 Th | 2357 | 5.4 | 165 | | | 17 Fr | 2357 | 5.4 | 165 | | | 17 Sa | 2357 | 5.4 | 165 | | | 17 Su | 2357 | 5.4 | 165 | | | 17 Mo | 2357 | 5.4 | 165 | | | 17 Tu | 2357 | 5.4 | 165 | | | 17 We | 2357 | 5.4 | 165 | | | 17 Th | 2357 | 5.4 | 165 | | | 17 Fr | 2357 | 5.4 | 165 | | | 17 Sa | 2357 | 5.4 | 165 | | | 17 Su | 2357 | 5.4 | 165 | | | 17 Mo | 2357 | 5.4 | 165 | | | 17 Tu | 2357 | 5.4 | 165 | | | 17 We | 2357 | 5.4 | 165 | | | 17 Th | 2357 | 5.4 | 165 | | | 17 Fr | 2357 | 5.4 | 165 | | | 17 Sa | 2357 | 5.4 | 165 | | | 17 Su | 2357 | 5.4 | 165 | | | 17 Mo | 2357 | 5.4 | 165 | | | 17 Tu | 2357 | 5.4 | 165 | | | 17 We | 2357 | 5.4 | 165 | | | 17 Th | 2357 | 5.4 | 165 | | | 17 Fr | 2357 | 5.4 | 165 | | | 17 Sa | 2357 | 5.4 | 165 | | | 17 Su | 2357 | 5.4 | 165 | | | 17 Mo | 2357 | 5.4 | 165 | | | 17 Tu | 2357 | 5.4 | 165 | | | 17 We | 2357 | 5.4 | 165 | | | 17 Th | 2357 | 5.4 | 165 | | | 17 Fr | 2357 | 5.4 | 165 | | | 17 Sa | 2357 | 5.4 | 165 | | | 17 Su | 2357 | 5.4 | 165 | | | 17 Mo | 2357 | 5.4 | 165 | | | 17 Tu | 2357 | 5.4 | 165 | | | 17 We | 2357 | 5.4 | 165 | | | 17 Th | 2357 | 5.4 | 165 | | | 17 Fr | 2357 | 5.4 | 165 | | | 17 Sa | 2357 | 5.4 | 165 | | | 17 Su | 2357 | 5.4 | 165 | | | 17 Mo | 2357 | 5.4 | 165 | | | 17 Tu | 2357 | 5.4 | 165 | | | 17 We | 2357 | 5.4 | 165 | | | 17 Th | 2357 | 5.4 | 165 | | | 17 Fr | 2357 | 5.4 | 165 | | | 17 Sa | 2357 | 5.4 | 165 | | | 17 Su | 2357 | 5.4 | 165 | | | 17 Mo | 2357 | 5.4 | 165 | | | 17 Tu | 2357 | 5.4 | 165 | | | 17 We | 2357 | 5.4 | 165 | | | 17 Th | 2357 | 5.4 | 165 | | | 17 Fr | 2357 | 5.4 | 165 | | | 17 Sa | 2357 | 5.4 | 165 | | | 17 Su | 2357 | 5.4 | 165 | | | 17 Mo | 2357 | 5.4 | 165 | | | 17 Tu | 2357 | 5.4 | 165 | | | 17 We | 2357 | 5.4 | 165 | | | 17 Th | 2357 | 5.4 | 165 | | | 17 Fr | 2357 | 5.4 | 165 | | | 17 Sa | 2357 | 5.4 | 165 | | | 17 Su | 2357 | 5.4 | 165 | | | 17 Mo | 2357 | 5.4 | 165 | | | 17 Tu | 2357 | 5.4 | 165 | | | 17 We | 2357 | 5.4 | 165 | | | 17 Th | 2357 | 5.4 | 165 | | | 17 Fr | 2357 | 5.4 | 165 | | | 17 Sa | 2357 | 5.4 | 165 | | | 17 Su | 2357 | 5.4 | 165 | | | 17 Mo | 2357 | 5.4 | 165 | | | 17 Tu | 2357 | 5.4 | 165 | | | 17 We | 2357 | 5.4 | 165 | | | 17 Th | 2357 | 5.4 | 165 | | | 17 Fr | 2357 | 5.4 | 165 | | | 17 Sa | 2357 | 5.4 | 165 | | | 17 Su | 2357 | 5.4 | 165 | | | 17 Mo | 2357 | 5.4 | 165 | | | 17 Tu | 2357 | 5.4 | 165 | | | 17 We | 2357 | 5.4 | 165 | | | 17 Th | 2357 | 5.4 | 165 | | | 17 Fr | 2357 | 5.4 | 165 | | | 17 Sa | 2357 | 5.4 | 165 | | | 17 Su | 2357 | 5.4 | 165 | | | 17 Mo | 2357 | 5.4 | 165 | | | 17 Tu | 2357 | 5.4 | 165 | | | 17 We | 2357 | 5.4 | 165 | | | 17 Th | 2357 | 5.4 | 165 | | | 17 Fr | 2357 | 5.4 | 165 | | | 17 Sa | 2357 | 5.4 | 165 | | | 17 Su | 2357 | 5.4 | 165 | | | 17 Mo | 2357 | 5.4 | 165 | | | 17 Tu | 2357 | 5.4 | 165 | | | 17 We | 2357 | 5.4 | 165 | | | 17 Th | 2357 | 5.4 | 165 | | | 17 Fr | 2357 | 5.4 | 165 | | | 17 Sa | 2357 | 5.4 | 165 | | | 17 Su | 2357 | 5.4 | 165 | | | 17 Mo | 2357 | 5.4 | 165 | | | 17 Tu | 2357 | 5.4 | 165 | | | 17 We | 2357 | 5.4 | 165 | | | 17 Th | 2357 | 5.4 | 165 | | | 17 Fr | 2357 | 5.4 | 165 | | | 17 Sa | 2357 | 5.4 | 165 | | | 17 Su | 2357 | 5.4 | 165 | | | 17 Mo | 2357 | 5.4 | 165 | | | 17 Tu | 2357 | 5.4 | 165 | | | 17 We | 2357 | 5.4 | 165 | | | 17 Th | 2357 | 5.4 | 165 | | | 17 Fr | 2357 | 5.4 | 165 | | | 17 Sa | 2357 | 5.4 | 165 | | | 17 Su | 2357 | 5.4 | 165 | | | 17 Mo | 2357 | 5.4 | 165 | | | 17 Tu | 2357 | 5.4 | 165 | | | 17 We | 2357 | 5.4 | 165 | | | 17 Th | 2357 | 5.4 | 165 | | | 17 Fr | 2357 | 5.4 | 165 | | | 17 Sa | 2357 | 5.4 | 165 | | | 17 Su | 2357 | 5.4 | 165 | | | 17 Mo | 2357 | 5.4 | 165 | | | 17 Tu | 2357 | 5.4 | 165 | | | 17 We | 2357 | 5.4 | 165 | | | 17 Th | 2357 | 5.4 | 165 | | | 17 Fr | 2357 | 5.4 | 165 | | | 17 Sa | 2357 | 5.4 | 165 | | | 17 Su | 2357 | 5.4 | 165 | | | 17 Mo | 2357 | 5.4 | 165 | | | 17 Tu | 2357 | 5.4 | 165 | | | 17 We | 2357 | 5.4 | 165 | | | 17 Th | 2357 | 5.4 | 165 | | | 17 Fr | 2357 | 5.4 | 165 | | | 17 Sa | 2357 | 5.4 | 165 | | | 17 Su | 2357 | 5.4 | 165 | | | 17 Mo | 2357 | 5.4 | 165 | | | 17 Tu | 2357 | 5.4 | 165 | | | 17 We | 2357 | 5.4 | 165 | | | 17 Th | 2357 | 5.4 | 165 | | | 17 Fr | 2357 | 5.4 | 165 | | | 17 Sa | 2357 | 5.4 | 165 | | | 17 Su | 2357 | 5.4 | 165 | | | 17 Mo | 2357 | 5.4 | 165 | | | 17 Tu | 2357 | 5.4 | 165 | | | 17 We | 2357 | 5.4 | 165 | | | 17 Th | 2357 | 5.4 | 165 | | | 17 Fr | 2357 | 5.4 | 165 | | | 17 Sa | 2357 | 5.4 | 165 | | | 17 Su | 2357 | 5.4 | 165 | | | 17 Mo | 2357 | 5.4 | 165 | | | 17 Tu | 2357 | 5.4 | 165 | | | 17 We | 2357 | 5.4 | 165 | | | 17 Th | 2357 | 5.4 | 165 | | | 17 Fr | 2357 | 5.4 | 165 | | | 17 Sa | 2357 | 5.4 | 165 | | | 17 Su | 2357 | 5.4 | 165 | | | 17 Mo | 2357 | 5.4 | 165 | | | 17 Tu | 2357 | 5.4 | 165 | | | 17 We | 2357 | 5.4 | 165 | | | 17 Th | 2357 | 5.4 | 165 | | | 17 Fr | 2357 | 5.4 | 165 | | | 17 Sa | 2357 | 5.4 | 165 | | | 17 Su | 2357 | 5.4 | 165 | | | 17 Mo | 2357 | 5.4 | 165 | | | 17 Tu | 2357 | 5.4 | 165 | | | 17 We | 2357 | 5.4 | 165 | | | 17 Th | 2357 | 5.4 | 165 | | | 17 Fr | 2357 | 5.4 | 165 | | | 17 Sa | 2357 | 5.4 | 165 | | | 17 Su | 2357 | 5.4 | 165 | | | 17 Mo | 2357 | 5.4 | 165 | | | 17 Tu | 2357 | 5.4 | 165 | | | 17 We | 2357 | 5.4 | 165 | | | 17 Th | 2357 | 5.4 | 165 | | | 17 Fr | 2357 | 5.4 | 165 | | | 17 Sa | 2357 | 5.4 | 165 | | | 17 Su | 2357 | 5.4 | 165 | | | 17 Mo | 2357 | 5.4 | 165 | | | 17 Tu | 2357 | 5.4 | 165 | | | 17 We | 2357 | 5.4 | 165 | | | 17 Th | 2357 | 5.4 | 165 | | | 17 Fr | 2357 | 5.4 | 165 | | | 17 Sa | 2357 | 5.4 | 165 | | | 17 Su | 2357 | 5.4 | 165 | | | 17 Mo | 2357 | 5.4 | 165 | | | 17 Tu | 2357 | 5.4 | 165 | | | 17 We | 2357 | 5.4 | 165 | | | 17 Th | 2357 | 5.4 | 165 | | | 17 Fr |

Chuuk, Moen Island, Caroline Islands, 2011

Times and Heights of High and Low Waters

| April | | | | May | | | | June | | | | | | | | | | | | | | | | | | | | |
|-----------------|------|--------|----|------|-----------------|--------|-----|------|----|-----------------|------|------|----|--------|-----------------|------|------|----|----|-----------------|------|------|----|-----------------|------|------|------|----|
| Time | | Height | | Time | | Height | | Time | | Height | | Time | | Height | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | |
| 1 F | 0224 | 1.4 | 43 | | 16 Sa | 0153 | 1.7 | 52 | | 1 Su | 0137 | 1.8 | 55 | | 16 M | 0132 | 2.3 | 70 | | 1 W | 0144 | 2.2 | 67 | 16 Th | 0214 | 2.5 | 76 | |
| | 0746 | 0.7 | 21 | | | 0759 | 0.5 | 15 | | | 0833 | 0.5 | 15 | | | 0925 | 0.1 | 3 | | | 0956 | 0.0 | 0 | | | 1105 | -0.3 | -9 |
| | 1339 | 1.6 | 49 | | | 1346 | 1.5 | 46 | | | 1336 | 1.1 | 34 | | | 1438 | 0.6 | 18 | | | 1445 | 0.4 | 12 | | | 1519 | 0.4 | 12 |
| | 1959 | 0.4 | 12 | | | 1939 | 0.4 | 12 | | | 1839 | 0.5 | 15 | | | 1809 | 0.4 | 12 | | | 1807 | 0.3 | 9 | | | 1834 | 0.2 | 6 |
| 2 Sa | 0215 | 1.6 | 49 | | 17 Su | 0204 | 2.0 | 61 | | 2 M | 0145 | 2.0 | 61 | | 17 Tu | 0156 | 2.5 | 76 | | 2 Th | 0211 | 2.4 | 73 | 17 F | 0245 | 2.5 | 76 | |
| | 0811 | 0.5 | 15 | | | 0841 | 0.3 | 9 | | | 0858 | 0.3 | 9 | | | 1004 | 0.0 | 0 | | | 1026 | -0.1 | -3 | | | 1128 | -0.2 | -6 |
| | 1359 | 1.6 | 49 | | | 1420 | 1.3 | 40 | | | 1402 | 1.0 | 30 | | | 1511 | 0.4 | 12 | | | 1519 | 0.4 | 12 | | | 1519 | 0.4 | 12 |
| | 1957 | 0.4 | 12 | | | 1942 | 0.4 | 12 | | | 1851 | 0.4 | 12 | | | 1809 | 0.3 | 9 | | | 1834 | 0.2 | 6 | | | 1834 | 0.2 | 6 |
| 3 Su | 0219 | 1.8 | 55 | | 18 M | 0222 | 2.2 | 67 | | 3 Tu | 0201 | 2.2 | 67 | | 18 W | 0224 | 2.6 | 79 | | 3 F | 0240 | 2.4 | 73 | 18 Sa | 0314 | 2.4 | 73 | |
| | 0837 | 0.4 | 12 | | | 0923 | 0.2 | 6 | | | 0926 | 0.2 | 6 | | | 1046 | -0.1 | -3 | | | 1102 | -0.1 | -3 | | | 1148 | -0.1 | -3 |
| | 1419 | 1.5 | 46 | | | 1448 | 1.0 | 30 | | | 1427 | 0.9 | 27 | | | 1533 | 0.3 | 9 | | | 1557 | 0.3 | 9 | | | 1557 | 0.3 | 9 |
| | 2001 | 0.4 | 12 | | | 1940 | 0.4 | 12 | | | 1905 | 0.3 | 9 | | | 1809 | 0.2 | 6 | | | 1856 | 0.2 | 6 | | | 1856 | 0.2 | 6 |
| 4 M | 0229 | 1.9 | 58 | | 19 Tu | 0244 | 2.4 | 73 | | 4 W | 0222 | 2.3 | 70 | | 19 Th | 0252 | 2.6 | 79 | | 4 Sa | 0310 | 2.4 | 73 | 19 Su | 0340 | 2.3 | 70 | |
| | 0905 | 0.4 | 12 | | | 1007 | 0.2 | 6 | | | 0959 | 0.2 | 6 | | | 1130 | 0.0 | 0 | | | 1142 | -0.1 | -3 | | | 1204 | 0.0 | 0 |
| | 1438 | 1.4 | 43 | | | 1507 | 0.8 | 24 | | | 1452 | 0.7 | 21 | | | 1538 | 0.2 | 6 | | | 1640 | 0.3 | 9 | | | 1648 | 0.3 | 9 |
| | 2008 | 0.3 | 9 | | | 1935 | 0.3 | 9 | | | 1920 | 0.3 | 9 | | | 1813 | 0.1 | 3 | | | 1911 | 0.2 | 6 | | | 1858 | 0.2 | 6 |
| 5 Tu | 0245 | 2.1 | 64 | | 20 W | 0309 | 2.5 | 76 | | 5 Th | 0246 | 2.4 | 73 | | 20 F | 0321 | 2.5 | 76 | | 5 Su | 0339 | 2.4 | 73 | 20 M | 0402 | 2.1 | 64 | |
| | 0934 | 0.3 | 9 | | | 1054 | 0.2 | 6 | | | 1036 | 0.2 | 6 | | | 1221 | 0.0 | 0 | | | 1227 | 0.0 | 0 | | | 1215 | 0.2 | 6 |
| | 1457 | 1.2 | 37 | | | 1508 | 0.5 | 15 | | | 1517 | 0.6 | 18 | | | 1519 | 0.1 | 3 | | | 1519 | 0.1 | 3 | | | 1701 | 0.4 | 12 |
| | 2016 | 0.3 | 9 | | | 1927 | 0.2 | 6 | | | 1933 | 0.2 | 6 | | | 1821 | 0.0 | 0 | | | 1821 | 0.0 | 0 | | | 1921 | 0.3 | 9 |
| 6 W | 0304 | 2.2 | 67 | | 21 Th | 0334 | 2.5 | 76 | | 6 F | 0312 | 2.4 | 73 | | 21 Sa | 0348 | 2.4 | 73 | | 6 M | 0407 | 2.3 | 70 | 21 Tu | 0417 | 1.9 | 58 | |
| | 1005 | 0.3 | 9 | | | 1150 | 0.3 | 9 | | | 1121 | 0.2 | 6 | | | 1833 | 0.1 | 3 | | | 1316 | 0.1 | 3 | | | 1220 | 0.3 | 9 |
| | 1512 | 1.0 | 30 | | | 1436 | 0.4 | 12 | | | 1539 | 0.5 | 15 | | | 1940 | 0.2 | 6 | | | 1940 | 0.2 | 6 | | | 1728 | 0.5 | 15 |
| | 2025 | 0.3 | 9 | | | 1921 | 0.1 | 3 | | | 1940 | 0.2 | 6 | | | 1940 | 0.2 | 6 | | | 1940 | 0.2 | 6 | | | 1935 | 0.4 | 12 |
| 7 Th | 0325 | 2.2 | 67 | | 22 F | 0359 | 2.4 | 73 | | 7 Sa | 0339 | 2.4 | 73 | | 22 Su | 0412 | 2.2 | 67 | | 7 Tu | 0432 | 2.1 | 64 | 22 W | 0421 | 1.7 | 52 | |
| | 1041 | 0.4 | 12 | | | 1921 | 0.0 | 0 | | | 1225 | 0.3 | 9 | | | 1844 | 0.2 | 6 | | | 1405 | 0.2 | 6 | | | 1218 | 0.3 | 9 |
| | 1521 | 0.9 | 27 | | | | | | | | 1552 | 0.4 | 12 | | | 1937 | 0.2 | 6 | | | 1937 | 0.2 | 6 | | | 1937 | 0.2 | 6 |
| | 2030 | 0.2 | 6 | | | | | | | | 1937 | 0.2 | 6 | | | 1937 | 0.2 | 6 | | | 1937 | 0.2 | 6 | | | 1937 | 0.2 | 6 |
| 8 F | 0349 | 2.2 | 67 | | 23 Sa | 0422 | 2.2 | 67 | | 8 Su | 0408 | 2.3 | 70 | | 23 M | 0429 | 2.0 | 61 | | 8 W | 0446 | 1.8 | 55 | 23 Th | 0407 | 1.5 | 46 | |
| | 1127 | 0.5 | 15 | | | 1928 | 0.0 | 0 | | | 1906 | 0.2 | 6 | | | 1850 | 0.3 | 9 | | | 1447 | 0.3 | 9 | | | 1214 | 0.4 | 12 |
| | 1512 | 0.7 | 21 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2031 | 0.2 | 6 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 Sa | 0415 | 2.1 | 64 | | 24 Su | 0441 | 2.0 | 61 | | 9 M | 0437 | 2.1 | 64 | | 24 Tu | 0435 | 1.8 | 55 | | 9 Th | 0431 | 1.5 | 46 | 24 F | 0317 | 1.3 | 40 | |
| | 2021 | 0.2 | 6 | | | 1938 | 0.1 | 3 | | | 1758 | 0.2 | 6 | | | 1843 | 0.4 | 12 | | | 1511 | 0.4 | 12 | | | 1208 | 0.4 | 12 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 Su | 0445 | 2.0 | 61 | | 25 M | 0449 | 1.8 | 55 | | 10 Tu | 0503 | 1.9 | 58 | | 25 W | 0416 | 1.6 | 49 | | 10 F | 0212 | 1.3 | 40 | 25 Sa | 0149 | 1.3 | 40 | |
| | 1957 | 0.1 | 3 | | | 1944 | 0.2 | 6 | | | 1748 | 0.2 | 6 | | | 1803 | 0.6 | 18 | | | 1510 | 0.5 | 15 | | | 1158 | 0.3 | 9 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 M | 0519 | 1.9 | 58 | | 26 Tu | 0431 | 1.6 | 49 | | 11 W | 0518 | 1.7 | 52 | | 26 Th | 0315 | 1.4 | 43 | | 11 Sa | 0031 | 1.5 | 46 | 26 Su | 0044 | 1.4 | 43 | |
| | 1931 | 0.1 | 3 | | | 1941 | 0.3 | 9 | | | 1754 | 0.3 | 9 | | | 1631 | 0.6 | 18 | | | 1056 | 0.5 | 15 | | | 1128 | 0.2 | 6 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 Tu | 0610 | 1.7 | 52 | | 27 W | 0337 | 1.4 | 43 | | 12 Th | 0340 | 1.4 | 43 | | 27 F | 0204 | 1.4 | 43 | | 12 Su | 0028 | 1.8 | 55 | 27 M | 0031 | 1.6 | 49 | |
| | 1921 | 0.1 | 3 | | | 0838 | 1.2 | 37 | | | 1801 | 0.4 | 12 | | | 1559 | 0.6 | 18 | | | 0956 | 0.2 | 6 | | | 1021 | 0.1 | 3 |
| | | | | | | 1103 | 1.3 | 40 | | | | | | | | | | | | | | | | | | | | |
| | | | | | | 1925 | 0.5 | 15 | | | | | | | | | | | | | | | | | | | | |
| 13 W | 1118 | 1.6 | 49 | | 28 Th | 0240 | 1.4 | 43 | | 13 F | 0131 | 1.5 | 46 | | 28 Sa | 0118 | 1.5 | 46 | | 13 M | 0047 | 2.1 | 64 | 28 Tu | 0046 | 1.8 | 55 | |
| | 1923 | 0.2 | 6 | | | 0753 | 1.0 | 30 | | | 0755 | 1.0 | 30 | | | 0942 | 0.6 | 18 | | | 1000 | 0.0 | 0 | | | 0951 | 0.0 | 0 |
| | | | | | | 1209 | 1.2 | 37 | | | 1146 | 1.1 | 34 | | | 1147 | 0.7 | 21 | | | | | | | | | | |
| | | | | | | 1900 | 0.6 | 18 | | | 1806 | 0.5 | 15 | | | 1608 | 0.6 | 18 | | | | | | | | | | |
| 14 Th | 0236 | 1.3 | 40 | | 29 F | 0200 | 1.5 | 46 | | 14 Sa | 0109 | 1.7 | 52 | | 29 Su | 0101 | 1.7 | 52 | | 14 Tu | 0113 | 2.3 | 70 | 29 W | 0110 | 2.0 | 61 | |
| | 0630 | 1.1 | 34 | | | 0756 | 0.9 | 27 | | | 0815 | 0.6 | 18 | | | 0909 | 0.5 | 15 | | | 1018 | -0.2 | -6 | | | 0952 | -0.1 | -3 |
| | 1222 | 1.7 | 52 | | | 1243 | 1.2 | 37 | | | 1301 | 1.0 | 30 | | | 1259 | 0.6 | 18 | | | | | | | | | | |
| | 1928 | 0.2 | 6 | | | 1840 | 0.6 | 18 | | | 1809 | 0.5 | 15 | | | 1634 | 0.5 | 15 | | | | | | | | | | |
| 15 F | 0157 | 1.4 | 43 | | 30 Sa | 0140 | 1.6 | 49 | | 15 Su | 0115 | 2.0 | 61 | | 30 M | 0105 | 1.9 | 58 | | 15 W | 0143 | 2.4 | 73 | 30 Th | 0139 | 2.2 | 67 | |
| | 0717 | 0.8 | 24 | | | 0812 | 0.7 | 21 | | | 0848 | 0.3 | 9 | | | 0914 | 0.3 | 9 | | | 1041 | -0.3 | -9 | | | 1006 | -0.2 | -6 |
| | 1307 | 1.6 | 49 | | | 1311 | 1.1 | 34 | | | 1355 | 0. | | | | | | | | | | | | | | | | |

Chuuk, Moen Island, Caroline Islands, 2011

Times and Heights of High and Low Waters

| July | | | | August | | | | September | | | | | | | | | | | | | | | | | | | | | |
|-----------------|--------|------|------|--------|-----------------|------|------|-----------|--------|-----------------|------|------|--------|----|-----------------|------|------|-----|----|-----------------|------|------|-----|--|-----------------|------|------|-----|--|
| Time | Height | | | Time | Height | | | Time | Height | | | Time | Height | | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | |
| 1 F | 0209 | 2.3 | 7.0 | | 16 Sa | 1045 | -0.2 | -6 | | 1 M | 1034 | -0.2 | -6 | | 16 Tu | 0305 | 1.9 | 5.8 | | 1 Th | 0328 | 1.4 | 4.3 | | 16 F | 0308 | 1.2 | 3.7 | |
| | 1028 | -0.3 | -9 | | | 1612 | 0.3 | 9 | | | 1609 | 0.8 | 2.4 | | | 1535 | 1.1 | 3.4 | | | 0933 | 0.2 | 6 | | | 0850 | 0.2 | 6 | |
| | 1554 | 0.3 | 9 | | | 1905 | 0.2 | 6 | | | 2031 | 0.3 | 9 | | | 2059 | 0.4 | 1.2 | | | 1609 | 1.7 | 5.2 | | | 1529 | 1.8 | 5.5 | |
| | 1826 | 0.2 | 6 | | | | | | | | | | | | | | | | | | 2228 | 0.5 | 1.5 | | | 2209 | 0.4 | 1.2 | |
| 2 Sa | 0240 | 2.4 | 7.3 | | 17 Su | 0304 | 2.3 | 7.0 | | 2 Tu | 0329 | 2.1 | 6.4 | | 17 W | 0321 | 1.7 | 5.2 | | 2 F | 0325 | 1.0 | 3.0 | | 17 Sa | 0313 | 1.0 | 3.0 | |
| | 1054 | -0.3 | -9 | | | 1051 | -0.1 | -3 | | | 1048 | 0.0 | 0 | | | 0950 | 0.1 | 3 | | | 0916 | 0.2 | 6 | | | 0853 | 0.1 | 3 | |
| | 1619 | 0.3 | 9 | | | 1610 | 0.5 | 1.5 | | | 1631 | 1.0 | 3.0 | | | 1549 | 1.3 | 4.0 | | | 1632 | 1.8 | 5.5 | | | 1549 | 1.9 | 5.8 | |
| | 1908 | 0.2 | 6 | | | 1949 | 0.3 | 9 | | | 2113 | 0.4 | 1.2 | | | 2127 | 0.4 | 1.2 | | | 2319 | 0.6 | 1.8 | | | 2240 | 0.5 | 1.5 | |
| 3 Su | 0310 | 2.4 | 7.3 | | 18 M | 0326 | 2.1 | 6.4 | | 3 W | 0348 | 1.8 | 5.5 | | 18 Th | 0332 | 1.5 | 4.6 | | 3 Sa | 0245 | 0.8 | 2.4 | | 18 Su | 0304 | 0.9 | 2.7 | |
| | 1121 | -0.3 | -9 | | | 1055 | 0.0 | 0 | | | 1053 | 0.1 | 3 | | | 0952 | 0.2 | 6 | | | 0854 | 0.0 | 0 | | | 0855 | 0.1 | 3 | |
| | 1648 | 0.4 | 1.2 | | | 1619 | 0.6 | 1.8 | | | 1655 | 1.1 | 3.4 | | | 1605 | 1.4 | 4.3 | | | 1658 | 1.8 | 5.5 | | | 1612 | 1.8 | 5.5 | |
| | 1945 | 0.3 | 9 | | | 2024 | 0.4 | 1.2 | | | 2154 | 0.5 | 1.5 | | | 2154 | 0.5 | 1.5 | | | | | | | 2319 | 0.7 | 2.1 | | |
| 4 M | 0338 | 2.3 | 7.0 | | 19 Tu | 0344 | 2.0 | 6.1 | | 4 Th | 0355 | 1.5 | 4.6 | | 19 F | 0336 | 1.3 | 4.0 | | 4 Su | 0839 | -0.1 | -3 | | 19 M | 0222 | 0.8 | 2.4 | |
| | 1147 | -0.1 | -3 | | | 1059 | 0.1 | 3 | | | 1045 | 0.2 | 6 | | | 0953 | 0.1 | 3 | | | 1729 | 1.7 | 5.2 | | | 0851 | 0.0 | 0 | |
| | 1721 | 0.5 | 1.5 | | | 1632 | 0.8 | 2.4 | | | 1723 | 1.3 | 4.0 | | | 1625 | 1.5 | 4.6 | | | | | | | 1639 | 1.7 | 5.2 | | |
| | 2020 | 0.4 | 1.2 | | | 2055 | 0.5 | 1.5 | | | 2239 | 0.7 | 2.1 | | | 2221 | 0.6 | 1.8 | | | | | | | | | | | |
| 5 Tu | 0402 | 2.1 | 6.4 | | 20 W | 0357 | 1.7 | 5.2 | | 5 F | 0337 | 1.2 | 3.7 | | 20 Sa | 0327 | 1.1 | 3.4 | | 5 M | 0839 | -0.3 | -9 | | 20 Tu | 0839 | 0.0 | 0 | |
| | 1208 | 0.0 | 0 | | | 1100 | 0.2 | 6 | | | 1022 | 0.2 | 6 | | | 0953 | 0.1 | 3 | | | 1815 | 1.6 | 4.9 | | | 1712 | 1.6 | 4.9 | |
| | 1758 | 0.6 | 1.8 | | | 1650 | 0.9 | 2.7 | | | 1757 | 1.4 | 4.3 | | | 1649 | 1.5 | 4.6 | | | | | | | | | | | |
| | 2052 | 0.5 | 1.5 | | | 2123 | 0.6 | 1.8 | | | 2340 | 0.9 | 2.7 | | | 2249 | 0.8 | 2.4 | | | | | | | | | | | |
| 6 W | 0418 | 1.8 | 5.5 | | 21 Th | 0401 | 1.5 | 4.6 | | 6 Sa | 0225 | 1.0 | 3.0 | | 21 Su | 0254 | 1.0 | 3.0 | | 6 Tu | 0847 | -0.3 | -9 | | 21 W | 0817 | 0.0 | 0 | |
| | 1219 | 0.2 | 6 | | | 1100 | 0.2 | 6 | | | 0952 | 0.0 | 0 | | | 0950 | 0.1 | 3 | | | 2339 | 1.6 | 4.9 | | | 1815 | 1.4 | 4.3 | |
| | 1847 | 0.8 | 2.4 | | | 1713 | 1.0 | 3.0 | | | 1852 | 1.4 | 4.3 | | | 1721 | 1.5 | 4.6 | | | | | | | | | | | |
| | 2123 | 0.7 | 2.1 | | | 2149 | 0.7 | 2.1 | | | | | | | 2324 | 0.9 | 2.7 | | | | | | | | | | | | |
| 7 Th | 0417 | 1.5 | 4.6 | | 22 F | 0350 | 1.3 | 4.0 | | 7 Su | 0935 | -0.2 | -6 | | 22 M | 0130 | 1.0 | 3.0 | | 7 W | 0856 | -0.3 | -9 | | 22 Th | 0758 | -0.1 | -3 | |
| | 1212 | 0.3 | 9 | | | 1057 | 0.2 | 6 | | | 2204 | 1.5 | 4.6 | | | 0942 | 0.0 | 0 | | | | | | | 2340 | 1.6 | 4.9 | | |
| | | | | | | 1745 | 1.1 | 3.4 | | | | | | | 1809 | 1.4 | 4.3 | | | | | | | | | | | | |
| | | | | | | 2212 | 0.9 | 2.7 | | | | | | | | | | | | | | | | | | | | | |
| 8 F | 0335 | 1.2 | 3.7 | | 23 Sa | 0313 | 1.2 | 3.7 | | 8 M | 0933 | -0.3 | -9 | | 23 Tu | 0924 | 0.0 | 0 | | 8 Th | 0026 | 1.7 | 5.2 | | 23 F | 0753 | -0.1 | -3 | |
| | 1138 | 0.3 | 9 | | | 1053 | 0.1 | 3 | | | 2351 | 1.7 | 5.2 | | | 2341 | 1.4 | 4.3 | | | 0900 | -0.2 | -6 | | | | | | |
| | 2354 | 1.2 | 3.7 | | | 1836 | 1.2 | 3.7 | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | 2226 | 1.1 | 3.4 | | | | | | | | | | | | | | | | | | | | | |
| 9 Sa | 1048 | 0.2 | 6 | | 24 Su | 0151 | 1.2 | 3.7 | | 9 Tu | 0940 | -0.4 | -1.2 | | 24 W | 0901 | -0.1 | -3 | | 9 F | 0056 | 1.8 | 5.5 | | 24 Sa | 0024 | 1.7 | 5.2 | |
| | 2331 | 1.5 | 4.6 | | | 1045 | 0.1 | 3 | | | | | | | | | | | | | 0857 | -0.1 | -3 | | | 0756 | -0.1 | -3 | |
| | | | | | | | | | | | | | | | | | | | | | 1527 | 0.9 | 2.7 | | | 1421 | 1.0 | 3.0 | |
| | | | | | | | | | | | | | | | | | | | | | 1841 | 0.7 | 2.1 | | | 1832 | 0.7 | 2.1 | |
| 10 Su | 1018 | -0.1 | -3 | | 25 M | 0015 | 1.3 | 4.0 | | 10 W | 0034 | 1.9 | 5.8 | | 25 Th | 0018 | 1.7 | 5.2 | | 10 Sa | 0120 | 1.8 | 5.5 | | 25 Su | 0100 | 1.8 | 5.5 | |
| | | | | | | 1026 | 0.0 | 0 | | | 0947 | -0.4 | -1.2 | | | 0849 | -0.2 | -6 | | | 0848 | 0.1 | 3 | | | 0804 | 0.0 | 0 | |
| | | | | | | | | | | | | | | | | | | | | | 1453 | 1.0 | 3.0 | | | 1410 | 1.2 | 3.7 | |
| | | | | | | | | | | | | | | | | | | | | | 1916 | 0.6 | 1.8 | | | 1917 | 0.5 | 1.5 | |
| 11 M | 0001 | 1.8 | 5.5 | | 26 Tu | 0012 | 1.5 | 4.6 | | 11 Th | 0106 | 2.0 | 6.1 | | 26 F | 0050 | 1.9 | 5.8 | | 11 Su | 0142 | 1.8 | 5.5 | | 26 M | 0135 | 1.8 | 5.5 | |
| | 1011 | -0.2 | -6 | | | 0955 | -0.1 | -3 | | | 0950 | -0.3 | -9 | | | 0850 | -0.2 | -6 | | | 0840 | 0.1 | 3 | | | 0814 | 0.0 | 0 | |
| | | | | | | | | | | | | | | | | | | | | | 1516 | 0.7 | 2.1 | | | 1416 | 1.5 | 4.6 | |
| | | | | | | | | | | | | | | | | | | | | | 1747 | 0.6 | 1.8 | | | 1959 | 0.3 | 9 | |
| 12 Tu | 0034 | 2.0 | 6.1 | | 27 W | 0036 | 1.8 | 5.5 | | 12 F | 0135 | 2.1 | 6.4 | | 27 Sa | 0121 | 2.1 | 6.4 | | 12 M | 0203 | 1.8 | 5.5 | | 27 Tu | 0207 | 1.7 | 5.2 | |
| | 1016 | -0.4 | -1.2 | | | 0935 | -0.2 | -6 | | | 0949 | -0.2 | -6 | | | 0859 | -0.2 | -6 | | | 0836 | 0.2 | 6 | | | 0822 | 0.1 | 3 | |
| | | | | | | | | | | | 1600 | 0.5 | 1.5 | | | 1452 | 0.8 | 2.4 | | | 1437 | 1.3 | 4.0 | | | 1431 | 1.7 | 5.2 | |
| | | | | | | | | | | | 1824 | 0.4 | 1.2 | | | 1849 | 0.5 | 1.5 | | | 2017 | 0.4 | 1.2 | | | 2041 | 0.2 | 6 | |
| 13 W | 0107 | 2.2 | 6.7 | | 28 Th | 0104 | 2.0 | 6.1 | | 13 Sa | 0201 | 2.1 | 6.4 | | 28 Su | 0152 | 2.2 | 6.7 | | 13 Tu | 0222 | 1.7 | 5.2 | | 28 W | 0236 | 1.4 | 4.3 | |
| | 1025 | -0.4 | -1.2 | | | 0933 | -0.3 | -9 | | | 0946 | -0.1 | -3 | | | 0911 | -0.2 | -6 | | | 0837 | 0.2 | 6 | | | 0826 | 0.2 | 6 | |
| | | | | | | | | | | | 1528 | 0.6 | 1.8 | | | 1456 | 1.0 | 3.0 | | | 1445 | 1.5 | 4.6 | | | 1450 | 2.0 | 6.1 | |
| | | | | | | | | | | | 1916 | 0.4 | 1.2 | | | 1935 | 0.4 | 1.2 | | | 2045 | 0.3 | 9 | | | 2125 | 0.1 | 3 | |
| 14 Th | 0140 | 2.3 | 7.0 | | 29 F | 0134 | 2.2 | 6.7 | | 14 | | | | | | | | | | | | | | | | | | | |

Pohnpei Harbor, Caroline Islands, 2011

Times and Heights of High and Low Waters

| April | | | | May | | | | June | | | | | | | | | | | | | | | |
|-----------------|--------|-----|------|-----------------|------|------|--------|-----------------|------|--------|------|-----------------|--------|-----|------|-----------------|------|-----|------|-----------------|------|-----|------|
| Time | Height | | Time | Height | | Time | Height | | Time | Height | | Time | Height | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | |
| 1 F | 0233 | 3.5 | 107 | 16 Sa | 0202 | 4.0 | 122 | 1 Su | 0214 | 4.0 | 122 | 16 M | 0208 | 4.4 | 134 | 1 W | 0239 | 4.3 | 131 | 16 Th | 0313 | 4.5 | 137 |
| | 0826 | 1.3 | 40 | | 0811 | 0.9 | 27 | | 0836 | 1.3 | 40 | | 0847 | 0.7 | 21 | | 0931 | 0.8 | 24 | | 1012 | 0.4 | 12 |
| | 1428 | 3.8 | 116 | | 1416 | 4.0 | 122 | | 1420 | 3.3 | 101 | | 1436 | 3.2 | 98 | | 1508 | 2.6 | 79 | | 1554 | 2.6 | 79 |
| | 2040 | 0.9 | 27 | | 2019 | 0.8 | 24 | | 2009 | 1.1 | 34 | | 2012 | 0.9 | 27 | | 2027 | 1.0 | 30 | | 2107 | 0.9 | 27 |
| 2 Sa | 0250 | 3.8 | 116 | 17 Su | 0233 | 4.4 | 134 | 2 M | 0237 | 4.2 | 128 | 17 Tu | 0245 | 4.7 | 143 | 2 Th | 0311 | 4.4 | 134 | 17 F | 0351 | 4.5 | 137 |
| | 0852 | 1.1 | 34 | | 0851 | 0.7 | 21 | | 0905 | 1.1 | 34 | | 0929 | 0.6 | 18 | | 1006 | 0.6 | 18 | | 1049 | 0.4 | 12 |
| | 1452 | 3.8 | 116 | | 1453 | 3.9 | 119 | | 1448 | 3.3 | 101 | | 1516 | 3.1 | 94 | | 1545 | 2.6 | 79 | | 1633 | 2.6 | 79 |
| | 2057 | 0.9 | 27 | | 2048 | 0.8 | 24 | | 2031 | 1.0 | 30 | | 2046 | 0.9 | 27 | | 2100 | 1.0 | 30 | | 2146 | 0.9 | 27 |
| 3 Su | 0309 | 4.0 | 122 | 18 M | 0306 | 4.6 | 140 | 3 Tu | 0301 | 4.4 | 134 | 18 W | 0322 | 4.8 | 146 | 3 F | 0344 | 4.5 | 137 | 18 Sa | 0427 | 4.4 | 134 |
| | 0918 | 1.0 | 30 | | 0931 | 0.5 | 15 | | 0934 | 0.9 | 27 | | 1011 | 0.5 | 15 | | 1041 | 0.6 | 18 | | 1124 | 0.5 | 15 |
| | 1514 | 3.8 | 116 | | 1529 | 3.8 | 116 | | 1517 | 3.2 | 98 | | 1555 | 3.0 | 91 | | 1622 | 2.6 | 79 | | 1711 | 2.6 | 79 |
| | 2115 | 0.8 | 24 | | 2117 | 0.8 | 24 | | 2055 | 1.0 | 30 | | 2119 | 0.9 | 27 | | 2135 | 1.0 | 30 | | 2223 | 1.0 | 30 |
| 4 M | 0330 | 4.2 | 128 | 19 Tu | 0339 | 4.8 | 146 | 4 W | 0327 | 4.5 | 137 | 19 Th | 0359 | 4.8 | 146 | 4 Sa | 0419 | 4.5 | 137 | 19 Su | 0502 | 4.2 | 128 |
| | 0944 | 0.9 | 27 | | 1011 | 0.5 | 15 | | 1005 | 0.9 | 27 | | 1052 | 0.6 | 18 | | 1119 | 0.6 | 18 | | 1157 | 0.6 | 18 |
| | 1537 | 3.7 | 113 | | 1604 | 3.5 | 107 | | 1546 | 3.1 | 94 | | 1634 | 2.8 | 85 | | 1701 | 2.6 | 79 | | 1749 | 2.6 | 79 |
| | 2133 | 0.8 | 24 | | 2146 | 0.8 | 24 | | 2119 | 1.0 | 30 | | 2153 | 1.0 | 30 | | 2211 | 1.1 | 34 | | 2300 | 1.2 | 37 |
| 5 Tu | 0352 | 4.3 | 131 | 20 W | 0413 | 4.8 | 146 | 5 Th | 0355 | 4.5 | 137 | 20 F | 0436 | 4.6 | 140 | 5 Su | 0456 | 4.4 | 134 | 20 M | 0534 | 3.9 | 119 |
| | 1011 | 0.9 | 27 | | 1051 | 0.6 | 18 | | 1039 | 0.9 | 27 | | 1134 | 0.7 | 21 | | 1158 | 0.7 | 21 | | 1230 | 0.8 | 24 |
| | 1600 | 3.5 | 107 | | 1638 | 3.2 | 98 | | 1617 | 2.9 | 88 | | 1714 | 2.6 | 79 | | 1744 | 2.5 | 76 | | 1829 | 2.6 | 79 |
| | 2151 | 0.9 | 27 | | 2213 | 1.0 | 30 | | 2144 | 1.1 | 34 | | 2226 | 1.2 | 37 | | 2250 | 1.3 | 40 | | 2338 | 1.5 | 46 |
| 6 W | 0415 | 4.3 | 131 | 21 Th | 0448 | 4.6 | 140 | 6 F | 0425 | 4.5 | 137 | 21 Sa | 0514 | 4.4 | 134 | 6 M | 0535 | 4.1 | 125 | 21 Tu | 0604 | 3.6 | 110 |
| | 1040 | 0.9 | 27 | | 1134 | 0.9 | 27 | | 1115 | 0.9 | 27 | | 1218 | 0.9 | 27 | | 1239 | 0.9 | 27 | | 1301 | 0.9 | 27 |
| | 1624 | 3.3 | 101 | | 1713 | 2.9 | 88 | | 1650 | 2.8 | 85 | | 1759 | 2.5 | 76 | | 1832 | 2.5 | 76 | | 1912 | 2.6 | 79 |
| | 2210 | 0.9 | 27 | | 2240 | 1.2 | 37 | | 2211 | 1.2 | 37 | | 2300 | 1.4 | 43 | | 2336 | 1.5 | 46 | | 2044 | 2.7 | 82 |
| 7 Th | 0441 | 4.3 | 131 | 22 F | 0525 | 4.4 | 134 | 7 Sa | 0458 | 4.4 | 134 | 22 Su | 0551 | 4.0 | 122 | 7 Tu | 0618 | 3.8 | 116 | 22 W | 0019 | 1.7 | 52 |
| | 1111 | 1.1 | 34 | | 1221 | 1.2 | 37 | | 1156 | 1.1 | 34 | | 1304 | 1.2 | 37 | | 1325 | 1.0 | 30 | | 0633 | 3.3 | 101 |
| | 1648 | 3.1 | 94 | | 1750 | 2.6 | 79 | | 1728 | 2.6 | 79 | | 1851 | 2.4 | 73 | | 1930 | 2.6 | 79 | | 1332 | 1.1 | 34 |
| | 2230 | 1.1 | 34 | | 2304 | 1.4 | 43 | | 2239 | 1.4 | 43 | | 2336 | 1.7 | 52 | | 2336 | 1.7 | 52 | | 2004 | 2.6 | 79 |
| 8 F | 0509 | 4.2 | 128 | 23 Sa | 0603 | 4.0 | 122 | 8 Su | 0535 | 4.1 | 125 | 23 M | 0631 | 3.7 | 113 | 8 W | 0034 | 1.7 | 52 | 23 Th | 0110 | 2.0 | 61 |
| | 1147 | 1.3 | 40 | | 1319 | 1.5 | 46 | | 1246 | 1.3 | 40 | | 1356 | 1.4 | 43 | | 0708 | 3.5 | 107 | | 0701 | 2.9 | 88 |
| | 1714 | 2.8 | 85 | | 1837 | 2.3 | 70 | | 1817 | 2.4 | 73 | | 2005 | 2.4 | 73 | | 1416 | 1.2 | 37 | | 1405 | 1.2 | 37 |
| | 2250 | 1.2 | 37 | | 2323 | 1.8 | 55 | | 2313 | 1.6 | 49 | | 2324 | 1.6 | 49 | | 2044 | 2.7 | 82 | | 2110 | 2.7 | 82 |
| 9 Sa | 0541 | 4.0 | 122 | 24 Su | 0649 | 3.6 | 110 | 9 M | 0620 | 3.9 | 119 | 24 Tu | 0022 | 2.0 | 61 | 9 Th | 0200 | 1.9 | 58 | 24 F | 0234 | 2.2 | 67 |
| | 1233 | 1.5 | 46 | | 1452 | 1.7 | 52 | | 1349 | 1.5 | 46 | | 0715 | 3.3 | 101 | | 0813 | 3.1 | 94 | | 0733 | 2.6 | 79 |
| | 1743 | 2.5 | 76 | | 2036 | 2.1 | 64 | | 1934 | 2.3 | 70 | | 1456 | 1.5 | 46 | | 1515 | 1.3 | 40 | | 1446 | 1.3 | 40 |
| | 2309 | 1.5 | 46 | | 2315 | 2.0 | 61 | | 0002 | 1.9 | 58 | | 2156 | 2.5 | 76 | | 2208 | 2.9 | 88 | | 2230 | 2.8 | 85 |
| 10 Su | 0622 | 3.7 | 113 | 25 M | 0801 | 3.3 | 101 | 10 Tu | 0723 | 3.5 | 107 | 25 W | 0154 | 2.3 | 70 | 10 F | 0405 | 1.9 | 58 | 25 Sa | 0513 | 2.1 | 64 |
| | 1347 | 1.8 | 55 | | 1707 | 1.7 | 52 | | 1514 | 1.6 | 49 | | 0817 | 3.0 | 91 | | 0942 | 2.7 | 82 | | 0835 | 2.2 | 67 |
| | 1827 | 2.2 | 67 | | 2147 | 2.4 | 73 | | 2147 | 2.4 | 73 | | 1601 | 1.6 | 49 | | 1619 | 1.4 | 43 | | 1541 | 1.4 | 43 |
| | 2326 | 1.8 | 55 | | 0 | 0 | 0156 | | 2.2 | 67 | 0901 | | 3.3 | 101 | 2327 | | 2.8 | 85 | 2322 | | 3.2 | 98 | 2339 | 3.0 | 91 |
| 11 M | 0730 | 3.4 | 104 | 26 Tu | 1018 | 3.1 | 94 | 11 W | 0156 | 2.2 | 67 | 26 Th | 0445 | 2.4 | 73 | 11 Sa | 0558 | 1.7 | 52 | 26 Su | 0710 | 1.8 | 55 |
| | 1642 | 1.8 | 55 | | 1810 | 1.6 | 49 | | 1639 | 1.6 | 49 | | 0950 | 2.7 | 82 | | 1122 | 2.5 | 76 | | 1058 | 2.0 | 61 |
| | 0 | 0 | 0 | | 2324 | 2.8 | 85 | | 0 | 0 | 0 | | 1657 | 1.6 | 49 | | 1720 | 1.3 | 40 | | 1648 | 1.4 | 43 |
| | 0 | 0 | 0 | | 0 | 0 | 0445 | | 2.1 | 64 | 0445 | | 2.1 | 64 | 0013 | | 3.0 | 91 | 0020 | | 3.6 | 110 | 0030 | 3.3 | 101 |
| 12 Tu | 0956 | 3.3 | 101 | 27 W | 0106 | 2.8 | 85 | 12 Th | 1050 | 3.2 | 98 | 27 F | 0626 | 2.1 | 64 | 12 Su | 0713 | 1.3 | 40 | 27 M | 0754 | 1.5 | 46 |
| | 1812 | 1.6 | 49 | | 1154 | 3.1 | 94 | | 1738 | 1.4 | 43 | | 1122 | 2.6 | 79 | | 1242 | 2.5 | 76 | | 1243 | 2.0 | 61 |
| | 0 | 0 | 0 | | 1843 | 1.5 | 46 | | 0 | 0 | 0 | | 1741 | 1.5 | 46 | | 1814 | 1.2 | 37 | | 1752 | 1.3 | 40 |
| | 0 | 0 | 0 | | 0 | 0 | 0118 | | 3.1 | 94 | 0118 | | 3.1 | 94 | 0044 | | 3.3 | 101 | 0109 | | 3.9 | 119 | 0112 | 3.6 | 110 |
| 13 W | 0044 | 2.6 | 79 | 28 Th | 0703 | 2.0 | 61 | 13 F | 0616 | 1.8 | 55 | 28 Sa | 0717 | 1.8 | 55 | 13 M | 0807 | 1.0 | 30 | 28 Tu | 0826 | 1.1 | 34 |
| | 0518 | 2.2 | 67 | | 1246 | 3.2 | 98 | | 1208 | 3.2 | 98 | | 1225 | 2.6 | 79 | | 1342 | 2.5 | 76 | | 1344 | 2.1 | 64 |
| | 1149 | 3.4 | 104 | | 1907 | 1.4 | 43 | | 1823 | 1.3 | 40 | | 1818 | 1.4 | 43 | | 1902 | 1.1 | 34 | | 1846 | 1.2 | 37 |
| | 1850 | 1.4 | 43 | | 0 | 0 | 0135 | | 3.5 | 107 | 0135 | | 3.5 | 107 | 0112 | | 3.6 | 110 | 0153 | | 4.2 | 128 | 0149 | 3.9 | 119 |
| 14 Th | 0638 | 1.8 | 55 | 29 F | 0739 | 1.7 | 52 | 14 Sa | 0715 | 1.4 | 43 | 29 Su | 0754 | 1.5 | 46 | 14 Tu | 0853 | 0.7 | 21 | 29 W | 0857 | 0.8 | 24 |
| | 1250 | 3.7 | 113 | | 1322 | 3.2 | 98 | | 1306 | 3.2 | 98 | | 1313 | 2.6 | 79 | | 1431 | 2.5 | 76 | | 1429 | 2.2 | 67 |
| | 1920 | 1.2 | 37 | | 1928 | 1.3 | 40 | | 1902 | 1.2 | 37 | | 1851 | 1.3 | 40 | | 1946 | 1.0 | 30 | | 1934 | 1.1 | 34 |
| | 0 | 0 | 0 | | 0 | 0 | 0154 | | 3.8 | 116 | 0154 | | 3.8 | 116 | 0140 | | 3.9 | 119 | 0234 | | 4.4 | 134 | 0226 | 4.1 | 125 |
| 15 F | 0728 | 1.3 | 40 | 30 Sa | 0808 | 1.5 | 46 | 15 Su | 0803 | 1.0 | 30 | 30 M | 0826 | 1.3 | 40 | 15 W | 0934 | 0.5 | 15 | 30 Th | 0929 | 0.6 | 18 |
| | 1336 | 3.9 | 119 | | 1352 | 3.3 | 101 | | 1353 | 3.2 | 98 | | 1353 | 2.6 | 79 | | 1514 | 2.5 | 76 | | 1509 | 2.4 | 73 |
| | 1950 | 1.0 | 30 | | 1948 | 1.2 | 37 | | 1937 | 1.0 | 30 | | 1923 | 1.2 | 37 | | 2027 | 0.9 | 27 | | 2017 | 1.0 | 30 |
| | 0 | 0 | 0 | | 0 | 0 | 0131 | | 4.1 | 125 | 0131 | | 4.1 | 125 | 0140 | | 3.9 | 119 | 0234 | | 4.4 | 134 | 0226 | 4.1 | 125 |
| 0 | 0 | | | | | | | | | | | | | | | | | | | | | | |

Pohnpei Harbor, Caroline Islands, 2011

Times and Heights of High and Low Waters

| July | | | | August | | | | September | | | | | | | | | | | | | | | |
|--------------------|------|--------|-----|-----------------|------|--------|-----|-----------------|------|--------|-----|-----------------|------|--------|------|-----------------|------|-----|------|-----------------|------|-----|-----|
| Time | | Height | | Time | | Height | | Time | | Height | | Time | | Height | | | | | | | | | |
| | h m | ft | cm | | h m | ft | cm | | h m | ft | cm | | h m | ft | cm | | | | | | | | |
| 1 F ● | 0302 | 4.3 | 131 | 16 Sa | 0342 | 4.4 | 134 | 1 M | 0403 | 4.5 | 137 | 16 Tu | 0416 | 4.1 | 125 | 1 Th | 0450 | 4.0 | 122 | 16 F | 0427 | 3.6 | 110 |
| | 1001 | 0.4 | 12 | | 1031 | 0.3 | 9 | | 1039 | 0.2 | 6 | | 1039 | 0.5 | 15 | | 1055 | 0.7 | 21 | | 1025 | 1.0 | 30 |
| | 1546 | 2.5 | 76 | | 1621 | 2.7 | 82 | | 1636 | 3.3 | 101 | | 1644 | 3.5 | 107 | | 1711 | 4.1 | 125 | | 1651 | 4.2 | 128 |
| | 2058 | 0.9 | 27 | | 2143 | 0.8 | 24 | | 2216 | 0.6 | 18 | | 2234 | 1.0 | 30 | | 2325 | 0.9 | 27 | | 2308 | 1.3 | 40 |
| 2 Sa | 0338 | 4.4 | 134 | 17 Su | 0413 | 4.3 | 131 | 2 Tu | 0437 | 4.3 | 131 | 17 W | 0438 | 3.9 | 119 | 2 F | 0521 | 3.5 | 107 | 17 Sa | 0446 | 3.3 | 101 |
| | 1034 | 0.3 | 9 | | 1058 | 0.3 | 9 | | 1108 | 0.3 | 9 | | 1056 | 0.6 | 18 | | 1119 | 0.9 | 27 | | 1040 | 1.1 | 34 |
| | 1622 | 2.6 | 79 | | 1651 | 2.9 | 88 | | 1709 | 3.4 | 104 | | 1707 | 3.6 | 110 | | 1746 | 4.0 | 122 | | 1715 | 4.1 | 125 |
| | 2138 | 0.8 | 24 | | 2218 | 0.9 | 27 | | 2256 | 0.7 | 21 | | 2301 | 1.1 | 34 | | 2301 | 1.1 | 34 | | 2339 | 1.5 | 46 |
| 3 Su | 0415 | 4.4 | 134 | 18 M | 0442 | 4.1 | 125 | 3 W | 0511 | 4.1 | 125 | 18 Th | 0458 | 3.6 | 110 | 3 Sa | 0009 | 1.2 | 37 | 18 Su | 0503 | 3.0 | 91 |
| | 1107 | 0.3 | 9 | | 1122 | 0.4 | 12 | | 1136 | 0.5 | 15 | | 1113 | 0.7 | 21 | | 1141 | 1.2 | 37 | | 1054 | 1.2 | 37 |
| | 1658 | 2.7 | 82 | | 1720 | 3.0 | 91 | | 1743 | 3.4 | 104 | | 1731 | 3.6 | 110 | | 1824 | 3.8 | 116 | | 1742 | 3.9 | 119 |
| | 2218 | 0.9 | 27 | | 2251 | 1.0 | 30 | | 2337 | 0.9 | 27 | | 2329 | 1.3 | 40 | | 2329 | 1.3 | 40 | | 2329 | 1.3 | 40 |
| 4 M | 0451 | 4.3 | 131 | 19 Tu | 0509 | 3.9 | 119 | 4 Th | 0544 | 3.6 | 110 | 19 F | 0515 | 3.3 | 101 | 4 Su | 0105 | 1.6 | 49 | 19 M | 0017 | 1.8 | 55 |
| | 1140 | 0.4 | 12 | | 1145 | 0.6 | 18 | | 1203 | 0.7 | 21 | | 1129 | 0.9 | 27 | | 0615 | 2.5 | 76 | | 0520 | 2.7 | 82 |
| | 1735 | 2.8 | 85 | | 1750 | 3.0 | 91 | | 1820 | 3.4 | 104 | | 1756 | 3.5 | 107 | | 1156 | 1.4 | 43 | | 1107 | 1.4 | 43 |
| | 2259 | 1.0 | 30 | | 2323 | 1.2 | 37 | | 2355 | 1.4 | 43 | | 2358 | 1.5 | 46 | | 1915 | 3.5 | 107 | | 1817 | 3.7 | 113 |
| 5 Tu | 0528 | 4.1 | 125 | 20 W | 0532 | 3.6 | 110 | 5 F | 0022 | 1.2 | 37 | 20 Sa | 0531 | 3.0 | 91 | 5 M | 0305 | 2.0 | 61 | 20 Tu | 0120 | 2.1 | 64 |
| | 1213 | 0.5 | 15 | | 1206 | 0.7 | 21 | | 0616 | 3.1 | 94 | | 1143 | 1.0 | 30 | | 0623 | 2.1 | 64 | | 0527 | 2.4 | 73 |
| | 1814 | 2.9 | 88 | | 1819 | 3.0 | 91 | | 1229 | 0.9 | 27 | | 1826 | 3.4 | 104 | | 1145 | 1.7 | 52 | | 1110 | 1.7 | 52 |
| | 2343 | 1.1 | 34 | | 2355 | 1.4 | 43 | | 1903 | 3.3 | 101 | | 1906 | 3.2 | 98 | | 2058 | 3.3 | 101 | | 1914 | 3.4 | 104 |
| 6 W | 0605 | 3.7 | 113 | 21 Th | 0552 | 3.3 | 101 | 6 Sa | 0119 | 1.5 | 46 | 21 Su | 0035 | 1.8 | 55 | 6 Tu | 0737 | 1.6 | 49 | 21 W | 0932 | 1.9 | 58 |
| | 1247 | 0.7 | 21 | | 1226 | 0.8 | 24 | | 0647 | 2.6 | 79 | | 0543 | 2.6 | 79 | | 2340 | 3.4 | 104 | | 2155 | 3.3 | 101 |
| | 1857 | 2.9 | 88 | | 1852 | 3.0 | 91 | | 2002 | 3.2 | 98 | | 1157 | 1.2 | 37 | | 1906 | 3.2 | 98 | | 2002 | 3.2 | 98 |
| | | | | | | | | | | | | | | | | | | | | | | | |
| 7 Th | 0034 | 1.4 | 43 | 22 F | 0030 | 1.6 | 49 | 7 Su | 0303 | 1.8 | 55 | 22 M | 0139 | 2.0 | 61 | 7 W | 0747 | 1.3 | 40 | 22 Th | 0705 | 1.7 | 52 |
| | 0644 | 3.3 | 101 | | 0610 | 2.9 | 88 | | 0719 | 2.1 | 64 | | 0539 | 2.3 | 70 | | 1412 | 2.4 | 73 | | 1356 | 2.5 | 76 |
| | 1322 | 0.9 | 27 | | 1245 | 1.0 | 30 | | 1321 | 1.4 | 43 | | 1207 | 1.4 | 43 | | 1809 | 2.1 | 64 | | 1657 | 2.4 | 73 |
| | 1950 | 2.9 | 88 | | 1931 | 2.9 | 88 | | 2143 | 3.1 | 94 | | 2019 | 3.1 | 94 | | 2019 | 3.1 | 94 | | 2357 | 3.6 | 110 |
| 8 F | 0140 | 1.6 | 49 | 23 Sa | 0117 | 1.9 | 58 | 8 M | 0728 | 1.6 | 49 | 23 Tu | 1136 | 1.6 | 49 | 8 Th | 0052 | 3.7 | 113 | 23 F | 0718 | 1.4 | 43 |
| | 0728 | 2.8 | 85 | | 0624 | 2.6 | 79 | | 1146 | 1.7 | 52 | | 2300 | 3.1 | 94 | | 0805 | 1.1 | 34 | | 1332 | 2.9 | 88 |
| | 1402 | 1.1 | 34 | | 1306 | 1.1 | 34 | | 1409 | 1.6 | 49 | | 1414 | 2.8 | 85 | | 1414 | 2.8 | 85 | | 1833 | 2.0 | 61 |
| | 2101 | 3.0 | 91 | | 2029 | 2.8 | 85 | | 2348 | 3.3 | 101 | | 1912 | 1.8 | 55 | | 1912 | 1.8 | 55 | | 1912 | 1.8 | 55 |
| 9 Sa | 0327 | 1.8 | 55 | 24 Su | 0252 | 2.1 | 64 | 9 Tu | 0803 | 1.2 | 37 | 24 W | 0802 | 1.5 | 46 | 9 F | 0135 | 3.9 | 119 | 24 Sa | 0053 | 3.9 | 119 |
| | 0831 | 2.3 | 70 | | 0625 | 2.2 | 67 | | 1356 | 1.9 | 58 | | 1416 | 2.0 | 61 | | 0824 | 1.0 | 30 | | 0740 | 1.1 | 34 |
| | 1454 | 1.3 | 40 | | 1334 | 1.3 | 40 | | 1736 | 1.7 | 52 | | 1640 | 1.9 | 58 | | 1428 | 3.1 | 94 | | 1348 | 3.4 | 104 |
| | 2231 | 3.1 | 94 | | 2205 | 2.9 | 88 | | | | | | | | 1951 | | 1.5 | 46 | 1922 | | 1.6 | 49 | |
| 10 Su | 0605 | 1.6 | 49 | 25 M | 1431 | 1.5 | 46 | 10 W | 0100 | 3.6 | 110 | 25 Th | 0030 | 3.5 | 107 | 10 Sa | 0208 | 4.1 | 125 | 25 Su | 0135 | 4.2 | 128 |
| | 1040 | 2.0 | 61 | | 2348 | 3.1 | 94 | | 0829 | 0.9 | 27 | | 0802 | 1.2 | 37 | | 0843 | 0.9 | 27 | | 0805 | 0.9 | 27 |
| | 1610 | 1.4 | 43 | | | | | | 1421 | 2.2 | 67 | | 1358 | 2.4 | 73 | | 1445 | 3.4 | 104 | | 1412 | 3.8 | 116 |
| | 2356 | 3.4 | 104 | | | | | | 1858 | 1.5 | 46 | | 1836 | 1.7 | 52 | | 2024 | 1.3 | 40 | | 2002 | 1.2 | 37 |
| 11 M | 0737 | 1.3 | 40 | 26 Tu | 0814 | 1.4 | 43 | 11 Th | 0147 | 3.9 | 119 | 26 F | 0119 | 3.8 | 116 | 11 Su | 0236 | 4.2 | 128 | 26 M | 0213 | 4.4 | 134 |
| | 1251 | 1.9 | 58 | | 1304 | 1.7 | 52 | | 0853 | 0.7 | 21 | | 0820 | 0.9 | 27 | | 0901 | 0.8 | 24 | | 0831 | 0.8 | 24 |
| | 1737 | 1.4 | 43 | | 1700 | 1.5 | 46 | | 1445 | 2.5 | 76 | | 1417 | 2.8 | 85 | | 1505 | 3.7 | 113 | | 1439 | 4.2 | 128 |
| | | | | | | | | | 1949 | 1.3 | 40 | | 1930 | 1.4 | 43 | | 2054 | 1.1 | 34 | | 2041 | 0.9 | 27 |
| 12 Tu | 0059 | 3.7 | 113 | 27 W | 0050 | 3.4 | 104 | 12 F | 0224 | 4.1 | 125 | 27 Sa | 0159 | 4.2 | 128 | 12 M | 0301 | 4.2 | 128 | 27 Tu | 0248 | 4.5 | 137 |
| | 0825 | 0.9 | 27 | | 0825 | 1.1 | 34 | | 0916 | 0.5 | 15 | | 0844 | 0.6 | 18 | | 0919 | 0.8 | 24 | | 0858 | 0.7 | 21 |
| | 1358 | 2.0 | 61 | | 1357 | 2.0 | 61 | | 1509 | 2.8 | 85 | | 1441 | 3.2 | 98 | | 1525 | 3.9 | 119 | | 1509 | 4.5 | 137 |
| | 1847 | 1.2 | 37 | | 1833 | 1.4 | 43 | | 2028 | 1.0 | 30 | | 2012 | 1.0 | 30 | | 2122 | 1.0 | 30 | | 2119 | 0.7 | 21 |
| 13 W | 0148 | 4.0 | 122 | 28 Th | 0136 | 3.8 | 116 | 13 Sa | 0256 | 4.3 | 131 | 28 Su | 0235 | 4.4 | 134 | 13 Tu | 0325 | 4.1 | 125 | 28 W | 0323 | 4.4 | 134 |
| | 0901 | 0.6 | 18 | | 0848 | 0.7 | 21 | | 0938 | 0.4 | 12 | | 0910 | 0.4 | 12 | | 0936 | 0.8 | 24 | | 0925 | 0.7 | 21 |
| | 1442 | 2.2 | 67 | | 1431 | 2.3 | 70 | | 1532 | 3.0 | 91 | | 1508 | 3.5 | 107 | | 1546 | 4.1 | 125 | | 1539 | 4.8 | 146 |
| | 1940 | 1.1 | 34 | | 1930 | 1.2 | 37 | | 2103 | 0.9 | 27 | | 2052 | 0.8 | 24 | | 2148 | 1.0 | 30 | | 2157 | 0.6 | 18 |
| 14 Th | 0230 | 4.2 | 128 | 29 F | 0215 | 4.1 | 125 | 14 Su | 0325 | 4.3 | 131 | 29 M | 0310 | 4.6 | 140 | 14 W | 0347 | 4.0 | 122 | 29 Th | 0357 | 4.1 | 125 |
| | 0934 | 0.4 | 12 | | 0914 | 0.5 | 15 | | 0959 | 0.4 | 12 | | 0936 | 0.4 | 12 | | 0953 | 0.8 | 24 | | 0952 | 0.8 | 24 |
| | 1518 | 2.4 | 73 | | 1502 | 2.6 | 79 | | 1556 | 3.3 | 101 | | 1537 | 3.8 | 116 | | 1607 | 4.2 | 128 | | 1611 | 4.8 | 146 |
| | 2026 | 0.9 | 27 | | 2016 | 1.0 | 30 | | 2135 | 0.8 | 24 | | 2129 | 0.6 | 18 | | 2215 | 1.1 | 34 | | 2236 | 0.8 | 24 |
| 15 F | 0308 | 4.3 | 131 | 30 Sa | 0252 | 4.3 | 131 | 15 M | 0352 | 4.2 | 128 | 30 Tu | 0344 | 4.5 | 137 | 15 Th | 0407 | 3.8 | 116 | 30 F | 0430 | 3.8 | 116 |
| | 1003 | 0.3 | 9 | | 0942 | 0.3 | 9 | | 1019 | 0.5 | 15 | | 1003 | 0.4 | 12 | | 1009 | 0.9 | 27 | | 1017 | 0.9 | 27 |
| | 1550 | 2.6 | 79 | | 1533 | 2.8 | 85 | | 1620 | 3.4 | 104 | | 1607 | 4.0 | 122 | | 1629 | 4.2 | 128 | | 1645 | 4.7 | 143 |
| | 2106 | 0.8 | 24 | | 2058 | 0.8 | 24 | | 2205 | 0.9 | 27 | | 2207 | 0.6 | 18 | | 2241 | 1.2 | 37 | | 2318 | 1.0 | 30 |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | 31 Su | 0328 | 4.5 | 137 | | | | | | | | | | | | | | | | |

Pohnpei Harbor, Caroline Islands, 2011

Times and Heights of High and Low Waters

| October | | | | | November | | | | | December | | | | | | | | | | | | | | | | | | | |
|-----------------|------|--------|-----|------|-----------------|------|--------|------|------|-----------------|------|--------|------|-----|-----------------|------|--------|-----|-----|-----------------|----------------|------|-----|----|-----------------|-----------------|------|-----|----|
| Time | | Height | | | Time | | Height | | | Time | | Height | | | Time | | Height | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | |
| 1 Sa | 0502 | 3.3 | 101 | | 16 Su | 0429 | 3.1 | 94 | | 1 Tu | 0102 | 1.5 | 46 | | 16 W | 0023 | 1.3 | 40 | | 1 Th | 0131 | 1.3 | 40 | | | | | | |
| | 1041 | 1.2 | 37 | | | 1004 | 1.3 | 40 | | | 0625 | 2.5 | 76 | | | 0551 | 2.5 | 76 | | | 0733 | 2.5 | 76 | | | | | | |
| | 1720 | 4.5 | 137 | | | 1649 | 4.5 | 137 | | | 1104 | 1.9 | 58 | | | 1045 | 1.7 | 52 | | | 1200 | 2.0 | 61 | | | | | | |
| | | | | | 2334 | 1.5 | 46 | | 1827 | 4.0 | 122 | | 1751 | 4.2 | 128 | | 1850 | 3.6 | 110 | | 16 F | 0050 | 1.0 | 30 | | | | | |
| 2 Su | 0004 | 1.3 | 40 | | 17 M | 0454 | 2.9 | 88 | | 2 W | 0225 | 1.8 | 55 | | 17 Th | 0117 | 1.5 | 46 | | 2 F | | 0225 | 1.5 | 46 | | 17 Sa | 0133 | 1.1 | 34 |
| | 0534 | 2.9 | 88 | | | 1022 | 1.5 | 46 | | | 0818 | 2.3 | 70 | | | 0656 | 2.4 | 73 | | | | 0913 | 2.6 | 79 | | | | | |
| | 1102 | 1.4 | 43 | | | 1719 | 4.3 | 131 | | | 1108 | 2.2 | 67 | | | 1123 | 2.0 | 61 | | | 1306 | 2.4 | 73 | | | | | | |
| | 1758 | 4.2 | 128 | | | | | | 1930 | 3.6 | 110 | | 1841 | 3.8 | 116 | | 1938 | 3.2 | 98 | | 1256 | 1.9 | 58 | | | | | | |
| 3 M | 0104 | 1.7 | 52 | | 18 Tu | 0018 | 1.7 | 52 | | 3 Th | 0422 | 1.8 | 55 | | 18 F | 0229 | 1.6 | 49 | | 3 Sa | 0329 | 1.6 | 49 | | 18 Su | 0224 | 1.3 | 40 | |
| | 0607 | 2.5 | 76 | | | 0524 | 2.6 | 79 | | | 2127 | 3.3 | 101 | | | 0854 | 2.5 | 76 | | | 1110 | 2.8 | 85 | | | | | | |
| | 1113 | 1.7 | 52 | | | 1039 | 1.7 | 52 | | | 1747 | 2.6 | 91 | | | 1237 | 2.3 | 70 | | | 1603 | 2.5 | 76 | | | | | | |
| | 1845 | 3.9 | 119 | | 1755 | 4.0 | 122 | | 2320 | 3.2 | 98 | | 1956 | 3.5 | 107 | | 2057 | 2.8 | 85 | | 1445 | 2.1 | 64 | | | | | | |
| 4 Tu | 0309 | 2.0 | 61 | | 19 W | 0126 | 1.9 | 58 | | 4 F | 0538 | 1.7 | 52 | | 19 Sa | 0353 | 1.7 | 52 | | 4 Su | 0432 | 1.6 | 49 | | 19 M | 0327 | 1.4 | 43 | |
| | 0712 | 2.1 | 64 | | | 0609 | 2.4 | 73 | | | 1251 | 3.0 | 91 | | | 1548 | 2.8 | 85 | | | 1209 | 3.1 | 94 | | | | | | |
| | 1029 | 2.0 | 61 | | | 1050 | 2.0 | 61 | | | 1747 | 2.6 | 91 | | | 1544 | 2.5 | 76 | | | 1831 | 2.3 | 70 | | | | | | |
| | 2012 | 3.5 | 107 | | 1849 | 3.7 | 113 | | 2320 | 3.2 | 98 | | 2149 | 3.2 | 98 | | 2252 | 2.6 | 79 | | 1721 | 2.0 | 61 | | | | | | |
| 5 W | 0624 | 1.8 | 55 | | 20 Th | 0350 | 2.0 | 61 | | 5 Sa | 0618 | 1.6 | 49 | | 20 Su | 0502 | 1.6 | 49 | | 5 M | 0524 | 1.6 | 49 | | 20 Tu | 0440 | 1.4 | 43 | |
| | 2301 | 3.4 | 104 | | | 2047 | 3.5 | 107 | | | 1305 | 3.4 | 104 | | | 1155 | 3.3 | 101 | | | 1244 | 3.4 | 104 | | | | | | |
| | | | | | | | | | | | 1852 | 2.3 | 70 | | | 1750 | 2.1 | 64 | | | 1928 | 2.0 | 61 | | | | | | |
| 6 Th | 0658 | 1.6 | 49 | | 21 F | 0537 | 1.8 | 55 | | 6 Su | 0022 | 3.3 | 101 | | 21 M | 0553 | 1.4 | 43 | | 6 Tu | 0013 | 2.5 | 76 | | 21 W | 0010 | 2.3 | 70 | |
| | 1342 | 2.9 | 88 | | | 1244 | 2.8 | 85 | | | 0645 | 1.5 | 46 | | | 1236 | 3.7 | 113 | | | 0605 | 1.5 | 46 | | | | | | |
| | 1816 | 2.4 | 73 | | | 1638 | 2.6 | 79 | | | 1324 | 3.7 | 113 | | | 1856 | 1.7 | 52 | | | 1312 | 3.7 | 113 | | | | | | |
| | | | | 2304 | 3.5 | 107 | | 1931 | 2.0 | 61 | | | | | | 2003 | 1.7 | 52 | | 1958 | 1.2 | 37 | | | | | | | |
| 7 F | 0022 | 3.6 | 110 | | 22 Sa | 0618 | 1.6 | 49 | | 7 M | 0104 | 3.3 | 101 | | 22 Tu | 0035 | 3.2 | 98 | | 7 W | 0106 | 2.5 | 76 | | 22 Th | 0123 | 2.4 | 73 | |
| | 0721 | 1.4 | 43 | | | 1249 | 3.3 | 101 | | | 0708 | 1.4 | 43 | | | 0634 | 1.3 | 40 | | | 0640 | 1.4 | 43 | | | | | | |
| | 1345 | 3.3 | 101 | | | 1816 | 2.2 | 67 | | | 1344 | 4.0 | 122 | | | 1313 | 4.2 | 128 | | | 1339 | 3.9 | 119 | | | | | | |
| | 1908 | 2.1 | 64 | | | | | 2003 | 1.7 | 52 | | 1946 | 1.3 | 40 | | 2032 | 1.4 | 43 | | 2042 | 0.8 | 24 | | | | | | | |
| 8 Sa | 0107 | 3.8 | 116 | | 23 Su | 0016 | 3.7 | 113 | | 8 Tu | 0137 | 3.3 | 101 | | 23 W | 0127 | 3.2 | 98 | | 8 Th | 0147 | 2.5 | 76 | | 23 F | 0215 | 2.4 | 73 | |
| | 0741 | 1.3 | 40 | | | 0651 | 1.4 | 43 | | | 0730 | 1.3 | 40 | | | 0712 | 1.1 | 34 | | | 0712 | 1.3 | 40 | | | | | | |
| | 1358 | 3.6 | 110 | | | 1313 | 3.7 | 113 | | | 1404 | 4.3 | 131 | | | 1350 | 4.6 | 140 | | | 1406 | 4.2 | 128 | | | | | | |
| | 1944 | 1.8 | 55 | | 1908 | 1.7 | 52 | | 2031 | 1.5 | 46 | | 2031 | 0.9 | 27 | | 2100 | 1.1 | 34 | | 2122 | 0.5 | 15 | | | | | | |
| 9 Su | 0141 | 3.9 | 119 | | 24 M | 0106 | 3.9 | 119 | | 9 W | 0206 | 3.3 | 101 | | 24 Th | 0213 | 3.2 | 98 | | 9 F | 0224 | 2.6 | 79 | | 24 Sa | 0259 | 2.5 | 76 | |
| | 0800 | 1.2 | 37 | | | 0721 | 1.2 | 37 | | | 0751 | 1.2 | 37 | | | 0748 | 1.0 | 30 | | | 0743 | 1.1 | 34 | | | | | | |
| | 1415 | 3.9 | 119 | | | 1341 | 4.2 | 128 | | | 1426 | 4.5 | 137 | | | 1427 | 4.8 | 146 | | | 1434 | 4.4 | 134 | | | | | | |
| | 2013 | 1.5 | 46 | | 1951 | 1.3 | 40 | | 2059 | 1.3 | 40 | | 2113 | 0.7 | 21 | | 2129 | 0.9 | 27 | | 2158 | 0.3 | 9 | | | | | | |
| 10 M | 0208 | 3.9 | 119 | | 25 Tu | 0148 | 4.0 | 122 | | 10 Th | 0233 | 3.3 | 101 | | 25 F | 0255 | 3.1 | 94 | | 10 Sa | 0258 | 2.6 | 79 | | 25 Su | 0338 | 2.6 | 79 | |
| | 0817 | 1.1 | 34 | | | 0751 | 1.0 | 30 | | | 0813 | 1.2 | 37 | | | 0824 | 0.9 | 27 | | | 0814 | 1.1 | 34 | | | | | | |
| | 1434 | 4.2 | 128 | | | 1411 | 4.6 | 140 | | | 1450 | 4.6 | 140 | | | 1504 | 5.0 | 152 | | | 1502 | 4.5 | 137 | | | | | | |
| | 2041 | 1.4 | 43 | | 2032 | 1.0 | 30 | | 2127 | 1.1 | 34 | | 2154 | 0.6 | 18 | | 2158 | 0.7 | 21 | | 2233 | 0.3 | 9 | | | | | | |
| 11 Tu | 0233 | 3.9 | 119 | | 26 W | 0227 | 4.0 | 122 | | 11 F | 0301 | 3.2 | 98 | | 26 Sa | 0335 | 3.0 | 91 | | 11 Su | 0332 | 2.6 | 79 | | 26 M | 0415 | 2.7 | 82 | |
| | 0835 | 1.1 | 34 | | | 0820 | 0.9 | 27 | | | 0835 | 1.1 | 34 | | | 0859 | 0.9 | 27 | | | 0846 | 1.0 | 30 | | | | | | |
| | 1454 | 4.4 | 134 | | | 1444 | 4.9 | 149 | | | 1514 | 4.7 | 143 | | | 1541 | 5.0 | 152 | | | 1533 | 4.6 | 140 | | | | | | |
| | 2108 | 1.2 | 37 | | 2112 | 0.8 | 24 | | 2156 | 1.1 | 34 | | 2235 | 0.6 | 18 | | 2230 | 0.6 | 18 | | 2307 | 0.3 | 9 | | | | | | |
| 12 W | 0257 | 3.8 | 116 | | 27 Th | 0304 | 3.8 | 116 | | 12 Sa | 0329 | 3.1 | 94 | | 27 Su | 0415 | 2.9 | 88 | | 12 M | 0406 | 2.6 | 79 | | 27 Tu | 0452 | 2.7 | 82 | |
| | 0852 | 1.1 | 34 | | | 0850 | 0.9 | 27 | | | 0859 | 1.1 | 34 | | | 0933 | 1.0 | 30 | | | 0918 | 1.0 | 30 | | | | | | |
| | 1515 | 4.6 | 140 | | | 1517 | 5.1 | 155 | | | 1541 | 4.8 | 146 | | | 1619 | 4.9 | 149 | | | 1604 | 4.6 | 140 | | | | | | |
| | 2134 | 1.2 | 37 | | 2152 | 0.7 | 21 | | 2228 | 1.0 | 30 | | 2317 | 0.7 | 21 | | 2302 | 0.6 | 18 | | 2339 | 0.4 | 12 | | | | | | |
| 13 Th | 0320 | 3.7 | 113 | | 28 F | 0341 | 3.6 | 110 | | 13 Su | 0359 | 3.0 | 91 | | 28 M | 0455 | 2.8 | 85 | | 13 Tu | 0441 | 2.6 | 79 | | 28 W | 0528 | 2.7 | 82 | |
| | 0910 | 1.0 | 30 | | | 0919 | 1.0 | 30 | | | 0923 | 1.2 | 37 | | | 1008 | 1.2 | 37 | | | 0952 | 1.1 | 34 | | | | | | |
| | 1536 | 4.7 | 143 | | | 1552 | 5.1 | 155 | | | 1609 | 4.7 | 143 | | | 1656 | 4.7 | 143 | | | 1637 | 4.5 | 137 | | | | | | |
| | 2201 | 1.2 | 37 | | 2233 | 0.8 | 24 | | 2302 | 1.1 | 34 | | 2359 | 0.9 | 27 | | 2336 | 0.7 | 21 | | 1719 | 4.2 | 128 | | | | | | |
| 14 F | 0342 | 3.6 | 110 | | 29 Sa | 0417 | 3.4 | 104 | | 14 M | 0431 | 2.8 | 85 | | 29 Tu | 0539 | 2.6 | 79 | | 14 W | 0519 | 2.6 | 79 | | 29 Th | 0009 | 0.6 | 18 | |
| | 0928 | 1.1 | 34 | | | 0948 | 1.1 | 34 | | | 0948 | 1.3 | 40 | | | 1043 | 1.4 | 43 | | | 1028 | 1.2 | 37 | | | | | | |
| | 1559 | 4.7 | 143 | | | 1627 | 5.0 | 152 | | | 1639 | 4.6 | 140 | | | 1733 | 4.4 | 134 | | | 1712 | 4.4 | 134 | | | | | | |
| | 2229 | 1.2 | 37 | | 2317 | 1.0 | 30 | | 2339 | 1.2 | 37 | | | | | | | | | 1748 | 3.9 | 119 | | | | | | | |
| 15 Sa | 0405 | 3.4 | 104 | | 30 Su | 0454 | 3.0 | 91 | | 15 Tu | 0507 | 2.7 | 82 | | 30 W | 0043 | 1.1 | 34 | | 15 Th | 0012 | 0.8 | 24 | | 30 F | 0038 | 0.8 | 24 | |
| | 0946 | 1.2 | 37 | | | 1016 | 1.3 | 40 | | | 1015 | 1.5 | 46 | | | 0628 | 2.5 | 76 | | | 0559 | 2.6 | 79 | | | | | | |
| | 1623 | 4.6 | 140 | | | 1704 | 4.8 | 146 | | | 1712 | 4.4 | 134 | | | 1119 | 1.7 | 52 | | | | | | | | | | | |

Wake Island, 2011

Times and Heights of High and Low Waters

| April | | | | May | | | | June | | | | | | | | | | | | | | | | | | | | | |
|-----------------|--------|------|-----|------|-----------------|------|------|------|--------|-----------------|------|------|--------|----|-----------------|------|------|-----|--|-----------------|------|------|-----|--|-----------------|------|------|-----|--|
| Time | Height | | | Time | Height | | | Time | Height | | | Time | Height | | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | | | | | | |
| 1 F | 0305 | 2.0 | 61 | | 16 Sa | 0226 | 2.2 | 67 | | 1 Su | 0253 | 2.2 | 67 | | 16 M | 0236 | 2.6 | 79 | | 1 W | 0324 | 2.5 | 76 | | 16 Th | 0349 | 2.8 | 85 | |
| | 0903 | 0.0 | 0 | | | 0836 | -0.2 | -6 | | | 0907 | -0.1 | -3 | | | 0905 | -0.4 | -12 | | | 0955 | -0.2 | -6 | | | 1028 | -0.4 | -12 | |
| | 1509 | 2.2 | 67 | | | 1448 | 2.3 | 70 | | | 1509 | 2.0 | 61 | | | 1513 | 2.1 | 64 | | | 1556 | 2.0 | 61 | | | 1633 | 2.0 | 61 | |
| | 2122 | -0.2 | -6 | | | 2057 | -0.4 | -12 | | | 2108 | 0.0 | 0 | | | 2105 | -0.2 | -6 | | | 2140 | 0.1 | 3 | | | 2212 | 0.0 | 0 | |
| 2 Sa | 0332 | 2.2 | 67 | | 17 Su | 0306 | 2.5 | 76 | | 2 M | 0323 | 2.4 | 73 | | 17 Tu | 0320 | 2.8 | 85 | | 2 Th | 0359 | 2.6 | 79 | | 17 F | 0431 | 2.9 | 88 | |
| | 0935 | -0.2 | -6 | | | 0921 | -0.5 | -15 | | | 0940 | -0.3 | -9 | | | 0951 | -0.5 | -15 | | | 1030 | -0.3 | -9 | | | 1108 | -0.4 | -12 | |
| | 1539 | 2.3 | 70 | | | 1532 | 2.4 | 73 | | | 1542 | 2.1 | 64 | | | 1558 | 2.2 | 67 | | | 1632 | 2.0 | 61 | | | 1713 | 2.1 | 64 | |
| | 2147 | -0.3 | -9 | | | 2135 | -0.5 | -15 | | | 2137 | -0.1 | -3 | | | 2145 | -0.2 | -6 | | | 2215 | 0.1 | 3 | | | 2253 | 0.0 | 0 | |
| 3 Su | 0357 | 2.3 | 70 | | 18 M | 0344 | 2.7 | 82 | | 3 Tu | 0351 | 2.5 | 76 | | 18 W | 0401 | 2.9 | 88 | | 3 F | 0433 | 2.6 | 79 | | 18 Sa | 0511 | 2.9 | 88 | |
| | 1005 | -0.4 | -12 | | | 1003 | -0.7 | -21 | | | 1012 | -0.4 | -12 | | | 1034 | -0.6 | -18 | | | 1106 | -0.4 | -12 | | | 1146 | -0.3 | -9 | |
| | 1608 | 2.3 | 70 | | | 1613 | 2.5 | 76 | | | 1614 | 2.1 | 64 | | | 1640 | 2.1 | 64 | | | 1708 | 2.0 | 61 | | | 1750 | 2.1 | 64 | |
| | 2212 | -0.4 | -12 | | | 2211 | -0.5 | -15 | | | 2206 | -0.1 | -3 | | | 2225 | -0.2 | -6 | | | 2249 | 0.1 | 3 | | | 2332 | 0.1 | 3 | |
| 4 M | 0422 | 2.4 | 73 | | 19 Tu | 0421 | 2.9 | 88 | | 4 W | 0419 | 2.5 | 76 | | 19 Th | 0441 | 2.9 | 88 | | 4 Sa | 0508 | 2.7 | 82 | | 19 Su | 0549 | 2.8 | 85 | |
| | 1033 | -0.5 | -15 | | | 1044 | -0.8 | -24 | | | 1043 | -0.4 | -12 | | | 1115 | -0.6 | -18 | | | 1143 | -0.4 | -12 | | | 1221 | -0.2 | -6 | |
| | 1636 | 2.3 | 70 | | | 1652 | 2.4 | 73 | | | 1645 | 2.1 | 64 | | | 1720 | 2.0 | 61 | | | 1745 | 2.0 | 61 | | | 1827 | 2.0 | 61 | |
| | 2236 | -0.4 | -12 | | | 2246 | -0.5 | -15 | | | 2234 | -0.1 | -3 | | | 2303 | -0.1 | -3 | | | 2325 | 0.1 | 3 | | | | | | |
| 5 Tu | 0446 | 2.5 | 76 | | 20 W | 0458 | 2.9 | 88 | | 5 Th | 0448 | 2.6 | 79 | | 20 F | 0521 | 2.8 | 85 | | 5 Su | 0544 | 2.7 | 82 | | 20 M | 0611 | 0.1 | 3 | |
| | 1101 | -0.5 | -15 | | | 1124 | -0.7 | -21 | | | 1115 | -0.4 | -12 | | | 1156 | -0.5 | -15 | | | 1220 | -0.3 | -9 | | | 0626 | 2.6 | 79 | |
| | 1704 | 2.3 | 70 | | | 1731 | 2.2 | 67 | | | 1717 | 2.0 | 61 | | | 1800 | 1.9 | 58 | | | 1823 | 2.0 | 61 | | | 1256 | -0.1 | -3 | |
| | 2300 | -0.3 | -9 | | | 2320 | -0.4 | -12 | | | 2302 | -0.1 | -3 | | | 2342 | 0.0 | 0 | | | | | | | | 1903 | 2.0 | 61 | |
| 6 W | 0511 | 2.5 | 76 | | 21 Th | 0535 | 2.8 | 85 | | 6 F | 0518 | 2.5 | 76 | | 21 Sa | 0600 | 2.7 | 82 | | 6 M | 0603 | 0.1 | 3 | | 21 Tu | 0650 | 0.3 | 9 | |
| | 1129 | -0.5 | -15 | | | 1204 | -0.6 | -18 | | | 1148 | -0.4 | -12 | | | 1236 | -0.3 | -9 | | | 0623 | 2.6 | 79 | | | 0702 | 2.4 | 73 | |
| | 1731 | 2.2 | 67 | | | 1808 | 2.0 | 61 | | | 1750 | 1.9 | 58 | | | 1840 | 1.8 | 55 | | | 1301 | -0.2 | -6 | | | 1330 | 0.1 | 3 | |
| | 2324 | -0.3 | -9 | | | 2355 | -0.2 | -6 | | | 2332 | 0.0 | 0 | | | | | | | | 1904 | 2.0 | 61 | | | 1941 | 2.0 | 61 | |
| 7 Th | 0536 | 2.5 | 76 | | 22 F | 0613 | 2.6 | 79 | | 7 Sa | 0550 | 2.5 | 76 | | 22 Su | 0621 | 0.1 | 3 | | 7 Tu | 0646 | 0.2 | 6 | | 22 W | 0739 | 2.2 | 67 | |
| | 1158 | -0.4 | -12 | | | 1245 | -0.4 | -12 | | | 1224 | -0.3 | -9 | | | 0640 | 2.5 | 76 | | | 0706 | 2.5 | 76 | | | 0739 | 2.2 | 67 | |
| | 1759 | 2.0 | 61 | | | 1847 | 1.7 | 52 | | | 1825 | 1.8 | 55 | | | 1317 | -0.1 | -3 | | | 1344 | -0.1 | -3 | | | 1405 | 0.2 | 6 | |
| | 2349 | -0.2 | -6 | | | | | | | | | | | | | 1922 | 1.7 | 52 | | | 1951 | 1.9 | 58 | | | 2022 | 1.9 | 58 | |
| 8 F | 0603 | 2.4 | 73 | | 23 Sa | 0630 | 0.0 | 0 | | 8 Su | 0605 | 0.1 | 3 | | 23 M | 0703 | 0.3 | 9 | | 8 W | 0755 | 2.3 | 70 | | 23 Th | 0820 | 2.0 | 61 | |
| | 1230 | -0.3 | -9 | | | 0653 | 2.4 | 73 | | | 0626 | 2.4 | 73 | | | 0722 | 2.3 | 70 | | | 0755 | 2.3 | 70 | | | 0820 | 2.0 | 61 | |
| | 1830 | 1.8 | 55 | | | 1329 | -0.1 | -3 | | | 1305 | -0.2 | -6 | | | 1401 | 0.1 | 3 | | | 1433 | 0.1 | 3 | | | 1443 | 0.4 | 12 | |
| | | | | | | 1930 | 1.5 | 46 | | | 1907 | 1.7 | 52 | | | 2010 | 1.6 | 49 | | | 2045 | 1.9 | 58 | | | 2109 | 1.9 | 58 | |
| 9 Sa | 0015 | 0.0 | 0 | | 24 Su | 0109 | 0.2 | 6 | | 9 M | 0044 | 0.2 | 6 | | 24 Tu | 0151 | 0.5 | 15 | | 9 Th | 0236 | 0.4 | 12 | | 24 F | 0313 | 0.7 | 21 | |
| | 0633 | 2.2 | 67 | | | 0737 | 2.1 | 64 | | | 0708 | 2.3 | 70 | | | 0809 | 2.0 | 61 | | | 0854 | 2.1 | 64 | | | 0910 | 1.8 | 55 | |
| | 1307 | -0.1 | -3 | | | 1421 | 0.2 | 6 | | | 1354 | 0.0 | 0 | | | 1450 | 0.3 | 9 | | | 1529 | 0.2 | 6 | | | 1529 | 0.5 | 15 | |
| | 1906 | 1.6 | 49 | | | 2024 | 1.3 | 40 | | | 1957 | 1.6 | 49 | | | 2109 | 1.5 | 46 | | | 2149 | 1.9 | 58 | | | 2207 | 1.8 | 55 | |
| 10 Su | 0047 | 0.1 | 3 | | 25 M | 0159 | 0.5 | 15 | | 10 Tu | 0133 | 0.4 | 12 | | 25 W | 0254 | 0.6 | 18 | | 10 F | 0353 | 0.5 | 15 | | 25 Sa | 0427 | 0.8 | 24 | |
| | 0711 | 2.1 | 64 | | | 0833 | 1.8 | 55 | | | 0802 | 2.1 | 64 | | | 0907 | 1.8 | 55 | | | 1007 | 1.9 | 58 | | | 1017 | 1.6 | 49 | |
| | 1354 | 0.1 | 3 | | | 1532 | 0.4 | 12 | | | 1455 | 0.2 | 6 | | | 1548 | 0.4 | 12 | | | 1634 | 0.3 | 9 | | | 1627 | 0.6 | 18 | |
| | 1953 | 1.4 | 43 | | | 2152 | 1.2 | 37 | | | 2104 | 1.5 | 46 | | | 2222 | 1.6 | 49 | | | 2301 | 2.0 | 61 | | | 2317 | 1.8 | 55 | |
| 11 M | 0128 | 0.3 | 9 | | 26 Tu | 0322 | 0.7 | 21 | | 11 W | 0242 | 0.5 | 15 | | 26 Th | 0417 | 0.7 | 21 | | 11 Sa | 0523 | 0.5 | 15 | | 26 Su | 0555 | 0.7 | 21 | |
| | 0803 | 1.9 | 58 | | | 0957 | 1.6 | 49 | | | 0914 | 1.9 | 58 | | | 1020 | 1.7 | 52 | | | 1133 | 1.8 | 55 | | | 1142 | 1.5 | 46 | |
| | 1505 | 0.3 | 9 | | | 1711 | 0.5 | 15 | | | 1610 | 0.2 | 6 | | | 1656 | 0.5 | 15 | | | 1744 | 0.4 | 12 | | | 1740 | 0.7 | 21 | |
| | 2108 | 1.2 | 37 | | | 2350 | 1.3 | 40 | | | 2229 | 1.6 | 49 | | | 2338 | 1.6 | 49 | | | | | | | | | | | |
| 12 Tu | 0235 | 0.6 | 18 | | 27 W | 0526 | 0.7 | 21 | | 12 Th | 0418 | 0.6 | 18 | | 27 F | 0548 | 0.7 | 21 | | 12 Su | 0612 | 2.2 | 67 | | 27 M | 0713 | 0.6 | 18 | |
| | 0927 | 1.7 | 52 | | | 1142 | 1.6 | 49 | | | 1046 | 1.8 | 55 | | | 1143 | 1.6 | 49 | | | 0648 | 0.3 | 9 | | | 0713 | 0.6 | 18 | |
| | 1651 | 0.3 | 9 | | | 1834 | 0.4 | 12 | | | 1730 | 0.2 | 6 | | | 1803 | 0.5 | 15 | | | 1256 | 1.8 | 55 | | | 1307 | 1.5 | 46 | |
| | 2309 | 1.2 | 37 | | | | | | | | 2351 | 1.7 | 52 | | | | | | | | 1850 | 0.3 | 9 | | | 1851 | 0.7 | 21 | |
| 13 W | 0440 | 0.6 | 18 | | 28 Th | 0103 | 1.5 | 46 | | 13 F | 0558 | 0.4 | 12 | | 28 Sa | 0041 | 1.8 | 55 | | 13 M | 0117 | 2.3 | 70 | | 28 Tu | 0130 | 2.1 | 64 | |
| | 1128 | 1.7 | 52 | | | 0656 | 0.6 | 18 | | | 1215 | 1.9 | 58 | | | 0700 | 0.5 | 15 | | | 0759 | 0.1 | 3 | | | 0813 | 0.4 | 12 | |
| | 1828 | 0.2 | 6 | | | 1300 | 1.7 | 52 | | | 1838 | 0.2 | 6 | | | 1255 | 1.6 | 49 | | | 1405 | 1.8 | 55 | | | 1411 | 1.6 | 49 | |
| | | | | | | 1927 | 0.3 | 9 | | | | | | | | 1900 | 0.4 | 12 | | | 1950 | 0.3 | 9 | | | 1951 | 0.6 | 18 | |
| 14 Th | 0045 | 1.5 | 46 | | 29 F | 0148 | 1.8 | 55 | | 14 Sa | 0057 | 2.0 | 61 | | 29 Su | 0130 | 2.0 | 61 | | 14 Tu | 0213 | 2.6 | 79 | | 29 W | 0220 | 2.3 | 70 | |
| | 0634 | 0.5 | 15 | | | 0751 | 0.3 | 9 | | | 0715 | 0. | | | | | | | | | | | | | | | | | |

Wake Island, 2011

Times and Heights of High and Low Waters

| July | | | | August | | | | September | | | | | | | | | | | | | | | | | | | | | |
|-----------------|--------|------|-----|--------|-----------------|------|------|-----------|--------|-----------------|------|------|--------|----|-----------------|------|------|----|----|-----------------|--------|------|----|--|-----------------|------|------|-----|--|
| Time | Height | | | Time | Height | | | Time | Height | | | Time | Height | | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | |
| 1 F | 0344 | 2.6 | 79 | | 16 Sa | 0422 | 2.9 | 88 | | 1 M | 0446 | 3.1 | 94 | | 16 Tu | 0509 | 2.9 | 88 | | 1 Th | 0541 | 3.0 | 91 | | 16 F | 0536 | 2.6 | 79 | |
| | 1019 | -0.2 | -6 | | | 1056 | -0.2 | -6 | | | 1112 | -0.4 | -12 | | | 1125 | -0.2 | -6 | | | 1149 | -0.3 | -9 | | | 1135 | 0.1 | 3 | |
| | 1622 | 2.1 | 64 | | | 1700 | 2.2 | 67 | | | 1714 | 2.6 | 79 | | | 1732 | 2.6 | 79 | | | 1756 | 3.0 | 91 | | | 1747 | 2.7 | 82 | |
| | 2202 | 0.2 | 6 | | | 2244 | 0.1 | 3 | | | 2307 | -0.1 | -3 | | | 2331 | 0.0 | 0 | | | | | | | | | | | |
| 2 Sa | 0422 | 2.8 | 85 | | 17 Su | 0458 | 2.9 | 88 | | 2 Tu | 0523 | 3.1 | 94 | | 17 W | 0537 | 2.8 | 85 | | 2 F | 0009 | -0.3 | -9 | | 17 Sa | 0002 | 0.0 | 0 | |
| | 1056 | -0.3 | -9 | | | 1127 | -0.2 | -6 | | | 1145 | -0.4 | -12 | | | 1149 | -0.1 | -3 | | | 0618 | 2.7 | 82 | | | 0603 | 2.4 | 73 | |
| | 1658 | 2.2 | 67 | | | 1732 | 2.3 | 70 | | | 1749 | 2.7 | 82 | | | 1758 | 2.6 | 79 | | | 1221 | -0.1 | -3 | | | 1158 | 0.2 | 6 | |
| | 2241 | 0.1 | 3 | | | 2320 | 0.1 | 3 | | | 2346 | -0.2 | -6 | | | | | | | | 1833 | 2.9 | 88 | | | 1811 | 2.6 | 79 | |
| 3 Su | 0500 | 2.9 | 88 | | 18 M | 0532 | 2.9 | 88 | | 3 W | 0600 | 3.0 | 91 | | 18 Th | 0001 | 0.1 | 3 | | 3 Sa | 0051 | -0.1 | -3 | | 18 Su | 0032 | 0.2 | 6 | |
| | 1132 | -0.4 | -12 | | | 1157 | -0.2 | -6 | | | 1219 | -0.3 | -9 | | | 0605 | 2.7 | 82 | | | 0656 | 2.4 | 73 | | | 0631 | 2.2 | 67 | |
| | 1735 | 2.3 | 70 | | | 1803 | 2.3 | 70 | | | 1825 | 2.7 | 82 | | | 1213 | 0.0 | 0 | | | 1255 | 0.1 | 3 | | | 1222 | 0.3 | 9 | |
| | 2319 | 0.0 | 0 | | | 2354 | 0.1 | 3 | | | | | | | 1823 | 2.6 | 79 | | | 1912 | 2.7 | 82 | | | 1838 | 2.4 | 73 | | |
| 4 M | 0537 | 2.9 | 88 | | 19 Tu | 0604 | 2.8 | 85 | | 4 Th | 0026 | -0.1 | -3 | | 19 F | 0030 | 0.2 | 6 | | 4 Su | 0138 | 0.2 | 6 | | 19 M | 0105 | 0.3 | 9 | |
| | 1208 | -0.4 | -12 | | | 1225 | -0.1 | -3 | | | 0638 | 2.8 | 85 | | | 0632 | 2.5 | 76 | | | 0738 | 2.0 | 61 | | | 0702 | 2.0 | 61 | |
| | 1811 | 2.3 | 70 | | | 1833 | 2.3 | 70 | | | 1253 | -0.1 | -3 | | | 1236 | 0.2 | 6 | | | 1331 | 0.4 | 12 | | | 1248 | 0.5 | 15 | |
| | 2358 | 0.0 | 0 | | | | | | | | 1902 | 2.7 | 82 | | | 1849 | 2.5 | 76 | | | 1958 | 2.5 | 76 | | | 1911 | 2.3 | 70 | |
| 5 Tu | 0616 | 2.9 | 88 | | 20 W | 0028 | 0.2 | 6 | | 5 F | 0109 | 0.0 | 0 | | 20 Sa | 0101 | 0.3 | 9 | | 5 M | 0236 | 0.5 | 15 | | 20 Tu | 0148 | 0.5 | 15 | |
| | 1245 | -0.3 | -9 | | | 0634 | 2.6 | 79 | | | 0718 | 2.5 | 76 | | | 0700 | 2.2 | 67 | | | 0831 | 1.7 | 52 | | | 0743 | 1.7 | 52 | |
| | 1849 | 2.3 | 70 | | | 1252 | 0.0 | 0 | | | 1329 | 0.1 | 3 | | | 1301 | 0.3 | 9 | | | 1416 | 0.7 | 21 | | | 1322 | 0.7 | 21 | |
| | | | | | | 1903 | 2.3 | 70 | | | 1943 | 2.6 | 79 | | | 1917 | 2.3 | 70 | | | 2101 | 2.2 | 67 | | | 1956 | 2.1 | 64 | |
| 6 W | 0040 | 0.1 | 3 | | 21 Th | 0101 | 0.3 | 9 | | 6 Sa | 0158 | 0.2 | 6 | | 21 Su | 0136 | 0.5 | 15 | | 6 Tu | 0409 | 0.7 | 21 | | 21 W | 0257 | 0.7 | 21 | |
| | 0656 | 2.7 | 82 | | | 0705 | 2.4 | 73 | | | 0802 | 2.2 | 67 | | | 0732 | 2.0 | 61 | | | 1012 | 1.4 | 43 | | | 0852 | 1.5 | 46 | |
| | 1323 | -0.1 | -3 | | | 1320 | 0.2 | 6 | | | 1407 | 0.3 | 9 | | | 1328 | 0.5 | 15 | | | 1536 | 0.9 | 27 | | | 1417 | 0.9 | 27 | |
| | 1930 | 2.3 | 70 | | | 1934 | 2.2 | 67 | | | 2031 | 2.4 | 73 | | | 1951 | 2.2 | 67 | | | 2244 | 2.0 | 61 | | | 2121 | 1.9 | 58 | |
| 7 Th | 0126 | 0.2 | 6 | | 22 F | 0137 | 0.4 | 12 | | 7 Su | 0258 | 0.5 | 15 | | 22 M | 0221 | 0.7 | 21 | | 7 W | 0629 | 0.7 | 21 | | 22 Th | 0505 | 0.8 | 24 | |
| | 0739 | 2.5 | 76 | | | 0738 | 2.2 | 67 | | | 0857 | 1.8 | 55 | | | 0813 | 1.7 | 52 | | | 1251 | 1.4 | 43 | | | 1120 | 1.4 | 43 | |
| | 1403 | 0.0 | 0 | | | 1348 | 0.3 | 9 | | | 1455 | 0.6 | 18 | | | 1402 | 0.7 | 21 | | | 1759 | 1.0 | 30 | | | 1634 | 1.1 | 34 | |
| | 2016 | 2.3 | 70 | | | 2008 | 2.1 | 64 | | | 2134 | 2.2 | 67 | | | 2039 | 2.0 | 61 | | | | | | | | 2339 | 1.9 | 58 | |
| 8 F | 0219 | 0.3 | 9 | | 23 Sa | 0219 | 0.6 | 18 | | 8 M | 0426 | 0.7 | 21 | | 23 Tu | 0334 | 0.8 | 24 | | 8 Th | 0040 | 2.1 | 64 | | 23 F | 0650 | 0.6 | 18 | |
| | 0829 | 2.2 | 67 | | | 0815 | 1.9 | 58 | | | 1024 | 1.5 | 46 | | | 0922 | 1.5 | 46 | | | 0751 | 0.5 | 15 | | | 1305 | 1.7 | 52 | |
| | 1448 | 0.2 | 6 | | | 1421 | 0.5 | 15 | | | 1607 | 0.8 | 24 | | | 1457 | 0.9 | 27 | | | 1402 | 1.7 | 52 | | | 1840 | 0.9 | 27 | |
| | 2109 | 2.2 | 67 | | | 2050 | 2.0 | 61 | | | 2304 | 2.1 | 64 | | | 2209 | 1.9 | 58 | | | 1930 | 0.8 | 24 | | | | | | |
| 9 Sa | 0325 | 0.5 | 15 | | 24 Su | 0315 | 0.7 | 21 | | 9 Tu | 0629 | 0.7 | 21 | | 24 W | 0548 | 0.8 | 24 | | 9 F | 0150 | 2.3 | 70 | | 24 Sa | 0107 | 2.2 | 67 | |
| | 0930 | 1.9 | 58 | | | 0904 | 1.7 | 52 | | | 1239 | 1.4 | 43 | | | 1150 | 1.4 | 43 | | | 0835 | 0.3 | 9 | | | 0746 | 0.3 | 9 | |
| | 1542 | 0.4 | 12 | | | 1504 | 0.7 | 21 | | | 1757 | 0.9 | 27 | | | 1706 | 1.0 | 30 | | | 1442 | 2.0 | 61 | | | 1355 | 2.0 | 61 | |
| | 2215 | 2.2 | 67 | | | 2149 | 1.9 | 58 | | | | | | | | | | | | | 2024 | 0.5 | 15 | | | 1944 | 0.6 | 18 | |
| 10 Su | 0451 | 0.5 | 15 | | 25 M | 0439 | 0.8 | 24 | | 10 W | 0045 | 2.2 | 67 | | 25 Th | 0018 | 2.0 | 61 | | 10 Sa | 0237 | 2.5 | 76 | | 25 Su | 0202 | 2.5 | 76 | |
| | 1054 | 1.6 | 49 | | | 1024 | 1.5 | 46 | | | 0759 | 0.5 | 15 | | | 0728 | 0.6 | 18 | | | 0907 | 0.2 | 6 | | | 0827 | 0.1 | 3 | |
| | 1652 | 0.6 | 18 | | | 1611 | 0.8 | 24 | | | 1408 | 1.6 | 49 | | | 1336 | 1.6 | 49 | | | 1514 | 2.2 | 67 | | | 1434 | 2.3 | 70 | |
| | 2334 | 2.2 | 67 | | | 2319 | 1.9 | 58 | | | 1930 | 0.7 | 21 | | | 1904 | 0.9 | 27 | | | 2104 | 0.3 | 9 | | | 2031 | 0.2 | 6 | |
| 11 M | 0631 | 0.5 | 15 | | 26 Tu | 0630 | 0.8 | 24 | | 11 Th | 0159 | 2.4 | 73 | | 26 F | 0137 | 2.2 | 67 | | 11 Su | 0314 | 2.7 | 82 | | 26 M | 0246 | 2.8 | 85 | |
| | 1236 | 1.6 | 49 | | | 1223 | 1.4 | 43 | | | 0852 | 0.2 | 6 | | | 0821 | 0.3 | 9 | | | 0935 | 0.0 | 0 | | | 0904 | -0.1 | -3 | |
| | 1815 | 0.6 | 18 | | | 1755 | 0.9 | 27 | | | 1458 | 1.8 | 55 | | | 1427 | 1.9 | 58 | | | 1542 | 2.5 | 76 | | | 1509 | 2.7 | 82 | |
| | | | | | | | | | | | 2031 | 0.5 | 15 | | | 2007 | 0.6 | 18 | | | 2138 | 0.1 | 3 | | | 2113 | -0.1 | -3 | |
| 12 Tu | 0054 | 2.3 | 70 | | 27 W | 0052 | 2.0 | 61 | | 12 F | 0251 | 2.6 | 79 | | 27 Sa | 0228 | 2.5 | 76 | | 12 M | 0346 | 2.8 | 85 | | 27 Tu | 0327 | 2.9 | 88 | |
| | 0755 | 0.3 | 9 | | | 0751 | 0.5 | 15 | | | 0931 | 0.1 | 3 | | | 0901 | 0.1 | 3 | | | 1001 | -0.1 | -3 | | | 0939 | -0.3 | -9 | |
| | 1401 | 1.6 | 49 | | | 1353 | 1.6 | 49 | | | 1536 | 2.1 | 64 | | | 1505 | 2.2 | 67 | | | 1608 | 2.6 | 79 | | | 1544 | 2.9 | 88 | |
| | 1931 | 0.5 | 15 | | | 1924 | 0.8 | 24 | | | 2117 | 0.3 | 9 | | | 2053 | 0.3 | 9 | | | 2209 | 0.0 | 0 | | | 2154 | -0.4 | -12 | |
| 13 W | 0201 | 2.5 | 76 | | 28 Th | 0158 | 2.2 | 67 | | 13 Sa | 0332 | 2.8 | 85 | | 28 Su | 0311 | 2.8 | 85 | | 13 Tu | 0415 | 2.8 | 85 | | 28 W | 0406 | 3.0 | 91 | |
| | 0855 | 0.1 | 3 | | | 0844 | 0.3 | 9 | | | 1004 | -0.1 | -3 | | | 0937 | -0.2 | -6 | | | 1026</ | | | | | | | | |

Wake Island, 2011

Times and Heights of High and Low Waters

| October | | | | November | | | | December | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|------------------------------|------|------|----------|-----------------|-----------------|--------|----------|------|-----------------|----------------|------|--------|-----|-----------------|-----------------|------|-----|----|-----------------|----------------|---------------|------|-----|-----------------|-----------------|-----------------|------|-----|---|
| Time | Height | | Time | Height | | Time | Height | | Time | Height | | Time | Height | | | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | | | | | | | |
| 1 Sa | 0559 | 2.5 | 76 | | 16 Su | 0542 | 2.2 | 67 | | 1 Tu | 0111 | 0.1 | 3 | | | | | | | | | | | | | | | | | |
| | 1153 | 0.0 | 0 | | | 1130 | 0.2 | 6 | | | 0713 | 1.8 | 55 | | 16 W | 0044 | 0.0 | 0 | | | | | | | | | | | | |
| | 1808 | 3.0 | 91 | | | 1745 | 2.6 | 79 | | | 1251 | 0.4 | 12 | | | 1221 | 0.4 | 12 | | 1 Th | 0141 | 0.1 | 3 | | | | | | | |
| 2 Su | 0035 | -0.2 | -6 | | 17 M | 0013 | 0.0 | 0 | | 2 W | 0204 | 0.3 | 9 | | | 17 Th | 0128 | 0.1 | 3 | | | 2 F | 0227 | 0.3 | 9 | | 17 Sa | 0158 | 0.0 | 0 |
| | 0638 | 2.2 | 67 | | | 0613 | 2.1 | 64 | | | 0809 | 1.6 | 49 | | 0731 | | 1.8 | 55 | | | 0845 | | 1.7 | 52 | | 0807 | | 1.9 | 58 | |
| | 1227 | 0.2 | 6 | | | 1156 | 0.3 | 9 | | | 1343 | 0.7 | 21 | | 1306 | | 0.5 | 15 | | 1431 | 0.7 | | 21 | | 1358 | 0.3 | | 9 | | |
| 3 M | 1848 | 2.8 | 85 | | 1814 | 2.5 | 76 | | 2015 | 2.1 | 64 | | 1932 | 2.2 | 67 | | 2043 | 1.9 | 58 | | 2014 | 2.1 | 64 | | | | | | | |
| | 4 Tu | 0122 | 0.1 | 3 | | 18 Tu | 0049 | 0.2 | 6 | | 3 Th | 0314 | 0.5 | 15 | | 18 F | 0223 | 0.3 | 9 | | 3 Sa | 0322 | 0.5 | 15 | | 18 Su | 0248 | 0.1 | 3 | |
| | | 0721 | 1.9 | 58 | | | 0648 | 1.9 | 58 | | | 0934 | 1.5 | 46 | | | 0831 | 1.7 | 52 | | | 0955 | 1.6 | 49 | | | 0905 | 1.9 | 58 | |
| 1304 | | 0.5 | 15 | | 1226 | | 0.5 | 15 | | 1505 | | 0.9 | 27 | | 1408 | | 0.7 | 21 | | 1551 | | 0.8 | 24 | | 1506 | | 0.4 | 12 | | |
| 4 Tu | 1934 | 2.5 | 76 | | 1850 | 2.3 | 70 | | 2136 | 1.9 | 58 | | 2036 | 2.1 | 64 | | 2153 | 1.7 | 52 | | 2119 | 1.9 | 58 | | | | | | | |
| | 5 W | 0220 | 0.5 | 15 | | 19 W | 0134 | 0.4 | 12 | | 4 F | 0445 | 0.7 | 21 | | 19 Sa | 0332 | 0.4 | 12 | | 4 Su | 0429 | 0.6 | 18 | | 19 M | 0348 | 0.3 | 9 | |
| | | 0818 | 1.6 | 49 | | | 0733 | 1.7 | 52 | | | 1124 | 1.6 | 49 | | | 0950 | 1.7 | 52 | | | 1114 | 1.7 | 52 | | | 1015 | 1.9 | 58 | |
| 1352 | | 0.7 | 21 | | 1306 | | 0.7 | 21 | | 1703 | | 0.9 | 27 | | 1537 | | 0.7 | 21 | | 1726 | | 0.8 | 24 | | 1726 | | 0.8 | 24 | | |
| 5 W | 2037 | 2.2 | 67 | | 1938 | 2.2 | 67 | | 2317 | 1.8 | 55 | | 2203 | 1.9 | 58 | | 2319 | 1.6 | 49 | | 2319 | 1.6 | 49 | | | | | | | |
| | 6 Th | 0350 | 0.7 | 21 | | 20 Th | 0240 | 0.6 | 18 | | 5 Sa | 0608 | 0.6 | 18 | | 20 Su | 0451 | 0.4 | 12 | | 5 M | 0540 | 0.6 | 18 | | 20 Tu | 0500 | 0.4 | 12 | |
| | | 1007 | 1.4 | 43 | | | 0844 | 1.5 | 46 | | | 1240 | 1.8 | 55 | | | 1115 | 1.8 | 55 | | | 1224 | 1.8 | 55 | | | 1133 | 2.0 | 61 | |
| 1523 | | 1.0 | 30 | | 1409 | | 0.9 | 27 | | 1835 | | 0.8 | 24 | | 1720 | | 0.6 | 18 | | 1847 | | 0.6 | 18 | | 1811 | | 0.4 | 12 | | |
| 6 Th | 2220 | 1.9 | 58 | | 2056 | 2.0 | 61 | | 0037 | 1.9 | 58 | | 2337 | 1.9 | 58 | | 0039 | 1.6 | 49 | | 0039 | 1.6 | 49 | | | | | | | |
| | 7 F | 0558 | 0.7 | 21 | | 21 F | 0419 | 0.6 | 18 | | 6 Su | 0704 | 0.5 | 15 | | 21 M | 0603 | 0.4 | 12 | | 6 Tu | 0643 | 0.5 | 15 | | 21 W | 0616 | 0.4 | 12 | |
| | | 1229 | 1.5 | 46 | | | 1038 | 1.5 | 46 | | | 1327 | 2.0 | 61 | | | 1225 | 2.1 | 64 | | | 1317 | 2.0 | 61 | | | 1246 | 2.2 | 67 | |
| 1748 | | 1.0 | 30 | | 1607 | | 1.0 | 30 | | 1933 | | 0.5 | 15 | | 1844 | | 0.4 | 12 | | 1945 | | 0.4 | 12 | | 1932 | | 0.1 | 3 | | |
| 7 F | 0015 0715 1333 1914 | 2.0 | 61 | | 22 Sa | 0555 | 0.5 | 15 | | 7 M | 0133 | 2.0 | 61 | | 22 Tu | 0055 | 2.0 | 61 | | 7 W | 0140 | 1.7 | 52 | | 22 Th | 0139 | 1.7 | 52 | | |
| | | 0.6 | 18 | | | 1215 | 1.7 | 52 | | | 0744 | 0.4 | 12 | | | 0703 | 0.2 | 6 | | | 0733 | 0.4 | 12 | | | 0723 | 0.3 | 9 | | |
| | | 1.8 | 55 | | | 1804 | 0.8 | 24 | | | 1403 | 2.2 | 67 | | | 1321 | 2.4 | 73 | | | 1400 | 2.2 | 67 | | | 1348 | 2.4 | 73 | | |
| 8 Sa | 0125 0758 1411 2004 | 2.1 | 64 | | 23 Su | 0026 | 2.1 | 64 | | 8 Tu | 0215 | 2.1 | 64 | | 23 W | 0156 | 2.1 | 64 | | 8 Th | 0228 | 1.8 | 55 | | 23 F | 0241 | 1.8 | 55 | | |
| | | 0.4 | 12 | | | 0659 | 0.4 | 12 | | | 0818 | 0.3 | 9 | | | 0753 | 0.1 | 3 | | | 0816 | 0.3 | 9 | | | 0820 | 0.1 | 3 | | |
| | | 2.1 | 64 | | | 1313 | 2.1 | 64 | | | 1435 | 2.4 | 73 | | | 1409 | 2.6 | 79 | | | 1438 | 2.3 | 70 | | | 1442 | 2.6 | 79 | | |
| 9 Su | 0211 0831 1442 2043 | 2.3 | 70 | | 24 M | 0130 | 2.3 | 70 | | 9 W | 0252 | 2.2 | 67 | | 24 Th | 0248 | 2.2 | 67 | | 9 F | 0308 | 1.9 | 58 | | 24 Sa | 0331 | 1.9 | 58 | | |
| | | 0.3 | 9 | | | 0747 | 0.1 | 3 | | | 0849 | 0.2 | 6 | | | 0839 | 0.0 | 0 | | | 0854 | 0.2 | 6 | | | 0910 | 0.0 | 0 | | |
| | | 0.3 | 9 | | | 1358 | 2.4 | 73 | | | 1505 | 2.6 | 79 | | | 1454 | 2.9 | 88 | | | 1514 | 2.5 | 76 | | | 1529 | 2.8 | 85 | | |
| 10 M | 0247 0859 1510 2116 | 2.4 | 73 | | 25 Tu | 0220 | 2.5 | 76 | | 10 Th | 0325 | 2.2 | 67 | | 25 F | 0334 | 2.2 | 67 | | 10 Sa | 0345 | 2.0 | 61 | | 25 Su | 0415 | 2.0 | 61 | | |
| | | 0.1 | 3 | | | 0828 | 0.0 | 0 | | | 0919 | 0.1 | 3 | | | 0921 | -0.1 | -3 | | | 0929 | 0.1 | 3 | | | 0955 | -0.1 | -3 | | |
| | | 2.5 | 76 | | | 1438 | 2.7 | 82 | | | 1534 | 2.7 | 82 | | | 1537 | 3.0 | 91 | | | 1548 | 2.6 | 79 | | | 1613 | 2.9 | 88 | | |
| 11 Tu | 0319 0925 1536 2146 | 2.5 | 76 | | 26 W | 0305 | 2.6 | 79 | | 11 F | 0357 | 2.3 | 70 | | 26 Sa | 0418 | 2.2 | 67 | | 11 Su | 0420 | 2.0 | 61 | | 26 M | 0455 | 2.0 | 61 | | |
| | | 0.0 | 0 | | | 0907 | -0.2 | -6 | | | 0948 | 0.1 | 3 | | | 1002 | -0.1 | -3 | | | 1002 | 0.1 | 3 | | | 1036 | -0.2 | -6 | | |
| | | 2.7 | 82 | | | 1516 | 3.0 | 91 | | | 1603 | 2.7 | 82 | | | 1619 | 3.1 | 94 | | | 1620 | 2.6 | 79 | | | 1654 | 2.9 | 88 | | |
| 12 W | 0349 0951 1602 2216 | 2.6 | 79 | | 27 Th | 0347 | 2.7 | 82 | | 12 Sa | 0429 | 2.2 | 67 | | 27 Su | 0459 | 2.2 | 67 | | 12 M | 0453 | 2.0 | 61 | | 27 Tu | 0532 | 2.1 | 64 | | |
| | | 0.0 | 0 | | | 0944 | -0.2 | -6 | | | 1016 | 0.1 | 3 | | | 1042 | -0.1 | -3 | | | 1035 | 0.0 | 0 | | | 1116 | -0.2 | -6 | | |
| | | 2.8 | 85 | | | 1555 | 3.1 | 94 | | | 1632 | 2.7 | 82 | | | 1700 | 3.0 | 91 | | | 1653 | 2.7 | 82 | | | 1732 | 2.8 | 85 | | |
| 13 Th | 0418 1016 1628 2244 | 2.6 | 79 | | 28 F | 0427 | 2.6 | 79 | | 13 Su | 0500 | 2.2 | 67 | | 28 M | 0540 | 2.1 | 64 | | 13 Tu | 0527 | 2.0 | 61 | | 28 W | 0003 | -0.5 | -15 | | |
| | | 0.0 | 0 | | | 1020 | -0.2 | -6 | | | 1045 | 0.1 | 3 | | | 1122 | 0.0 | 0 | | | 1109 | 0.0 | 0 | | | 0608 | 2.1 | 64 | | |
| | | 2.8 | 85 | | | 1633 | 3.2 | 98 | | | 1701 | 2.7 | 82 | | | 1741 | 2.9 | 88 | | | 1727 | 2.7 | 82 | | | 1154 | -0.1 | -3 | | |
| 14 F | 0446 1040 1653 2313 | 2.5 | 76 | | 29 Sa | 0507 | 2.5 | 76 | | 14 M | 0532 | 2.1 | 64 | | 29 Tu | 0017 | -0.3 | -9 | | 14 W | 0000 | -0.3 | -9 | | 29 Th | 0037 | -0.3 | -9 | | |
| | | 0.0 | 0 | | | 1056 | -0.1 | -3 | | | 1114 | 0.2 | 6 | | | 0620 | 2.0 | 61 | | | 0602 | 2.0 | 61 | | | 0643 | 2.0 | 61 | | |
| | | 2.8 | 85 | | | 1711 | 3.1 | 94 | | | 1732 | 2.6 | 79 | | | 1202 | 0.1 | 3 | | | 1143 | 0.1 | 3 | | | 1232 | 0.0 | 0 | | |
| 15 Sa | 0514 1105 1718 2342 | 2.4 | 73 | | 30 Su | 0547 | 2.3 | 70 | | 15 Tu | 0006 | -0.1 | -3 | | 30 W | 0058 | -0.1 | -3 | | 15 Th | 0036 | -0.3 | -9 | | 30 F | 0109 | -0.2 | -6 | | |
| | | 0.1 | 3 | | | 1132 | 0.0 | 0 | | | 0606 | 2.0 | 61 | | | 0703 | 1.8 | 55 | | | 0639 | 2.0 | 61 | | | 0719 | 2.0 | 61 | | |
| | | 2.7 | 82 | | | 1751 | 3.0 | 91 | | | 1145 | 0.3 | 9 | | | 1244 | 0.3 | 9 | | | 1221 | 0.1 | 3 | | | 1311 | 0.2 | 6 | | |
| 31 M | 0628 1210 1832 | 2.0 | 61 | | 31 M | 0025 | -0.2 | -6 | | 15 Tu | 1805 | 2.5 | 76 | | 30 W | 1904 | 2.4 | 73 | | 15 Th | 1840 | 2.5 | 76 | | 31 Sa | 0142 | 0.0 | 0 | | |
| | | 0.2 | 6 | | | 0628 | 2.0 | 61 | | | 1210 | 0.2 | 6 | | | 1840 | 2.5 | 76 | | | 1919 | 2.2 | 67 | | | 0756 | 1.9 | 58 | | |
| | | 2.7 | 82 | | | 1832 | 2.7 | 82 | | | 1832 | 2.7 | 82 | | | 1956 | 2.0 | 61 | | | 1956 | 2.0 | 61 | | | | | | | |

Time meridian 180° E. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight

Kwajalein Atoll, Marshall Islands, 2011

Times and Heights of High and Low Waters

| January | | | | February | | | | March | | | | | | | | | | | | | | | | | | | |
|-----------------|--------|------|------|-----------------|------|------|--------|-----------------|------|--------|------|-----------------|--------|------|------|-----------------|------|------|------|-----------------|------|------|------|-----------------|------|------|------|
| Time | Height | | Time | Height | | Time | Height | | Time | Height | | Time | Height | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | | | | |
| 1 Sa | 0200 | 2.7 | 82 | 16 Su | 0137 | 2.3 | 70 | 1 Tu | 0340 | 3.0 | 91 | 16 W | 0307 | 3.2 | 98 | 1 Tu | 0259 | 2.7 | 82 | 16 W | 0159 | 2.7 | 82 | | | | |
| | 0750 | 0.5 | 15 | | 0723 | 0.8 | 24 | | 0925 | 0.1 | 3 | | 0855 | 0.0 | 0 | | 0841 | 0.6 | 18 | | 0745 | 0.6 | 18 | | | | |
| | 1426 | 3.9 | 119 | | 1403 | 3.5 | 107 | | 1546 | 4.3 | 131 | | 1516 | 4.5 | 137 | | 1459 | 3.7 | 113 | | 1407 | 3.8 | 116 | 1407 | 3.8 | 116 | |
| | 2103 | 0.2 | 6 | | 2044 | 0.4 | 12 | | 2213 | -0.3 | -9 | | 2143 | -0.5 | -15 | | 2127 | 0.1 | 3 | | 2038 | 0.0 | 0 | 2038 | 0.0 | 0 | |
| 2 Su | 0256 | 2.9 | 88 | 17 M | 0237 | 2.7 | 82 | 2 W | 0410 | 3.4 | 104 | 17 Th | 0344 | 3.7 | 113 | 2 W | 0326 | 3.1 | 94 | 17 Th | 0243 | 3.4 | 104 | 17 Th | 0243 | 3.4 | 104 |
| | 0842 | 0.2 | 6 | | 0821 | 0.4 | 12 | | 0959 | -0.2 | -6 | | 0937 | -0.5 | -15 | | 0916 | 0.2 | 6 | | 0836 | 0.0 | 0 | | 0836 | 0.0 | 0 |
| | 1511 | 4.3 | 131 | | 1451 | 4.0 | 122 | | 1617 | 4.5 | 137 | | 1555 | 5.0 | 152 | | 1530 | 4.0 | 122 | | 1453 | 4.4 | 134 | | 1453 | 4.4 | 134 |
| | 2145 | -0.2 | -6 | | 2124 | -0.1 | -3 | | 2239 | -0.5 | -15 | | 2217 | -0.9 | -27 | | 2151 | -0.2 | -6 | | 2115 | -0.5 | -15 | | 2115 | -0.5 | -15 |
| 3 M | 0339 | 3.1 | 94 | 18 Tu | 0320 | 3.1 | 94 | 3 Th | 0437 | 3.7 | 113 | 18 F | 0419 | 4.2 | 128 | 3 Th | 0351 | 3.5 | 107 | 18 F | 0320 | 4.0 | 122 | 18 F | 0320 | 4.0 | 122 |
| | 0926 | 0.0 | 0 | | 0907 | 0.0 | 0 | | 1030 | -0.4 | -12 | | 1016 | -0.9 | -27 | | 0945 | -0.1 | -3 | | 0919 | -0.5 | -15 | | 0919 | -0.5 | -15 |
| | 1551 | 4.5 | 137 | | 1532 | 4.5 | 137 | | 1645 | 4.6 | 140 | | 1632 | 5.3 | 162 | | 1558 | 4.3 | 131 | | 1533 | 4.8 | 146 | | 1533 | 4.8 | 146 |
| | 2221 | -0.4 | -12 | | 2201 | -0.5 | -15 | | ● | 2304 | -0.6 | | -18 | ○ | 2251 | | -1.2 | -37 | 2214 | | -0.4 | -12 | 2150 | | -0.9 | -27 | 2150 | -0.9 | -27 |
| 4 Tu | 0416 | 3.3 | 101 | 19 W | 0359 | 3.5 | 107 | 4 F | 0504 | 3.9 | 119 | 19 Sa | 0455 | 4.6 | 140 | 4 F | 0415 | 3.9 | 119 | 19 Sa | 0356 | 4.5 | 137 | 19 Sa | 0356 | 4.5 | 137 |
| | 1004 | -0.2 | -6 | | 0949 | -0.4 | -12 | | 1058 | -0.5 | -15 | | 1133 | -1.1 | -34 | | 1013 | -0.4 | -12 | | 1000 | -0.9 | -27 | | 1000 | -0.9 | -27 |
| | 1626 | 4.6 | 140 | | 1610 | 4.9 | 149 | | 1712 | 4.7 | 143 | | 1709 | 5.3 | 162 | | 1623 | 4.5 | 137 | | 1611 | 5.0 | 152 | | 1611 | 5.0 | 152 |
| | ● | 2253 | -0.5 | | -15 | 2237 | -0.8 | | -24 | 2329 | -0.7 | | -21 | 2325 | -1.3 | | -40 | 2236 | -0.6 | | -18 | 2224 | -1.2 | | -37 | 2224 | -1.2 | -37 |
| 5 W | 0450 | 3.5 | 107 | 20 Th | 0436 | 3.8 | 116 | 5 Sa | 0530 | 4.0 | 122 | 20 Su | 0530 | 4.7 | 143 | 5 Sa | 0439 | 4.1 | 125 | 20 Su | 0432 | 4.9 | 149 | 20 Su | 0432 | 4.9 | 149 |
| | 1039 | -0.3 | -9 | | 1028 | -0.7 | -21 | | 1126 | -0.5 | -15 | | 1133 | -1.1 | -34 | | 1040 | -0.5 | -15 | | 1039 | -1.1 | -34 | | 1039 | -1.1 | -34 |
| | 1659 | 4.7 | 143 | | 1648 | 5.2 | 158 | | 1738 | 4.6 | 140 | | 1744 | 5.1 | 155 | | 1648 | 4.5 | 137 | | 1648 | 5.0 | 152 | | 1648 | 5.0 | 152 |
| | 2324 | -0.6 | -18 | | ○ | 2312 | -1.0 | | -30 | 2353 | -0.6 | | -18 | 2358 | -1.1 | | -34 | ● | 2259 | | -0.7 | -21 | ○ | | 2258 | -1.2 | -37 | ○ | 2258 | -1.2 | -37 |
| 6 Th | 0521 | 3.6 | 110 | 21 F | 0512 | 4.1 | 125 | 6 Su | 0555 | 4.0 | 122 | 21 M | 0606 | 4.7 | 143 | 6 Su | 0503 | 4.3 | 131 | 21 M | 0508 | 5.1 | 155 | 21 M | 0508 | 5.1 | 155 |
| | 1111 | -0.3 | -9 | | 1106 | -0.8 | -24 | | 1153 | -0.4 | -12 | | 1212 | -0.9 | -27 | | 1106 | -0.6 | -18 | | 1118 | -1.2 | -37 | | 1118 | -1.2 | -37 |
| | 1730 | 4.6 | 140 | | 1725 | 5.3 | 162 | | 1803 | 4.4 | 134 | | 1820 | 4.7 | 143 | | 1713 | 4.5 | 137 | | 1725 | 4.8 | 146 | | 1725 | 4.8 | 146 |
| | 2353 | -0.5 | -15 | | 2347 | -1.1 | -34 | | | | | | | | | | 2321 | -0.7 | -21 | | 2331 | -1.1 | -34 | | 2331 | -1.1 | -34 |
| 7 F | 0551 | 3.6 | 110 | 22 Sa | 0549 | 4.2 | 128 | 7 M | 0016 | -0.5 | -15 | 22 Tu | 0031 | -0.9 | -27 | 7 M | 0528 | 4.4 | 134 | 22 Tu | 0544 | 5.0 | 152 | 22 Tu | 0544 | 5.0 | 152 |
| | 1142 | -0.3 | -9 | | 1145 | -0.8 | -24 | | 0621 | 4.0 | 122 | | 0643 | 4.6 | 140 | | 1132 | -0.6 | -18 | | 1157 | -1.0 | -30 | | 1157 | -1.0 | -30 |
| | 1759 | 4.5 | 137 | | 1802 | 5.1 | 155 | | 1220 | -0.2 | -6 | | 1251 | -0.5 | -15 | | 1737 | 4.3 | 131 | | 1800 | 4.4 | 134 | | 1800 | 4.4 | 134 |
| | | | | | | | | | 1827 | 4.1 | 125 | | 1855 | 4.1 | 125 | | 2343 | -0.6 | -18 | | | | | | | | |
| 8 Sa | 0021 | -0.4 | -12 | 23 Su | 0023 | -1.0 | -30 | 8 Tu | 0039 | -0.3 | -9 | 23 W | 0103 | -0.4 | -12 | 8 Tu | 0552 | 4.3 | 131 | 23 W | 0003 | -0.8 | -24 | 23 W | 0003 | -0.8 | -24 |
| | 0621 | 3.5 | 107 | | 0627 | 4.2 | 128 | | 0647 | 3.8 | 116 | | 0720 | 4.2 | 128 | | 1158 | -0.4 | -12 | | 0619 | 4.8 | 146 | | 0619 | 4.8 | 146 |
| | 1213 | -0.1 | -3 | | 1225 | -0.6 | -18 | | 1248 | 0.0 | 0 | | 1333 | 0.0 | 0 | | 1800 | 4.0 | 122 | | 1237 | -0.6 | -18 | | 1237 | -0.6 | -18 |
| | 1828 | 4.3 | 131 | | 1839 | 4.8 | 146 | | 1851 | 3.8 | 116 | | 1931 | 3.5 | 107 | | | | 1836 | | 3.8 | 116 | 1836 | | 3.8 | 116 | |
| 9 Su | 0049 | -0.2 | -6 | 24 M | 0058 | -0.7 | -21 | 9 W | 0102 | -0.1 | -3 | 24 Th | 0137 | 0.1 | 3 | 9 W | 0005 | -0.4 | -12 | 24 Th | 0035 | -0.4 | -12 | 24 Th | 0035 | -0.4 | -12 |
| | 0650 | 3.5 | 107 | | 0706 | 4.1 | 125 | | 0714 | 3.6 | 110 | | 0802 | 3.7 | 113 | | 0616 | 4.2 | 128 | | 0656 | 4.4 | 134 | | 0656 | 4.4 | 134 |
| | 1243 | 0.1 | 3 | | 1307 | -0.2 | -6 | | 1318 | 0.4 | 12 | | 1422 | 0.6 | 18 | | 1225 | -0.2 | -6 | | 1318 | 0.0 | 0 | | 1318 | 0.0 | 0 |
| | 1855 | 4.0 | 122 | | 1917 | 4.3 | 131 | | 1916 | 3.3 | 101 | | 2010 | 2.8 | 85 | | 1824 | 3.7 | 113 | | 1912 | 3.2 | 98 | | 1912 | 3.2 | 98 |
| 10 M | 0116 | 0.0 | 0 | 25 Tu | 0135 | -0.4 | -12 | 10 Th | 0127 | 0.2 | 6 | 25 F | 0213 | 0.6 | 18 | 10 Th | 0027 | -0.2 | -6 | 25 F | 0108 | 0.1 | 3 | 25 F | 0108 | 0.1 | 3 |
| | 0722 | 3.3 | 101 | | 0748 | 3.9 | 119 | | 0746 | 3.4 | 104 | | 0857 | 3.2 | 98 | | 0642 | 4.0 | 122 | | 0736 | 3.8 | 116 | | 0736 | 3.8 | 116 |
| | 1315 | 0.4 | 12 | | 1352 | 0.2 | 6 | | 1353 | 0.7 | 21 | | 1539 | 1.2 | 37 | | 1253 | 0.1 | 3 | | 1405 | 0.5 | 15 | | 1405 | 0.5 | 15 |
| | 1924 | 3.6 | 110 | | 1957 | 3.7 | 113 | | 1945 | 2.9 | 88 | | ○ | 2110 | 2.1 | | 64 | 1849 | 3.3 | | 101 | 1952 | 2.6 | | 79 | 1952 | 2.6 | 79 |
| 11 Tu | 0145 | 0.2 | 6 | 26 W | 0214 | 0.1 | 3 | 11 F | 0156 | 0.5 | 15 | 26 Sa | 0307 | 1.1 | 34 | 11 F | 0051 | 0.1 | 3 | 26 Sa | 0142 | 0.7 | 21 | 26 Sa | 0142 | 0.7 | 21 |
| | 0756 | 3.1 | 94 | | 0838 | 3.5 | 107 | | 0827 | 3.1 | 94 | | 1041 | 2.8 | 85 | | 0711 | 3.7 | 113 | | 0825 | 3.2 | 98 | | 0825 | 3.2 | 98 |
| | 1351 | 0.8 | 24 | | 1449 | 0.7 | 21 | | 1444 | 1.1 | 34 | | 1842 | 1.3 | 40 | | 1327 | 0.4 | 12 | | 1516 | 1.1 | 34 | | 1516 | 1.1 | 34 |
| | 1955 | 3.2 | 98 | | 2044 | 3.0 | 91 | | ○ | 2025 | 2.4 | | 73 | | | | 1918 | 2.9 | 88 | | 2054 | 2.0 | 61 | | 2054 | 2.0 | 61 |
| 12 W | 0217 | 0.5 | 15 | 27 Th | 0301 | 0.5 | 15 | 12 Sa | 0238 | 0.9 | 27 | 27 Su | 0038 | 1.8 | 55 | 12 Sa | 0119 | 0.4 | 12 | 27 Su | 0233 | 1.2 | 37 | 27 Su | 0233 | 1.2 | 37 |
| | 0839 | 2.9 | 88 | | 0944 | 3.2 | 98 | | 0941 | 2.8 | 85 | | 0554 | 1.4 | 43 | | 0749 | 3.3 | 101 | | 0957 | 2.8 | 85 | | 0957 | 2.8 | 85 |
| | 1439 | 1.1 | 34 | | 1616 | 1.2 | 37 | | 1640 | 1.4 | 43 | | 1310 | 2.9 | 88 | | 1414 | 0.9 | 27 | | 1756 | 1.3 | 40 | | 1756 | 1.3 | 40 |
| | ○ | 2034 | 2.7 | | 82 | ○ | 2157 | | 2.3 | 70 | 2208 | | 1.9 | 58 | 2021 | | 0.9 | 27 | 1958 | | 2.4 | 73 | ○ | | ○ | ○ | |
| 13 Th | 0259 | 0.8 | 24 | 28 F | 0412 | 1.0 | 30 | 13 Su | 0420 | 1.2 | 37 | 28 M | 0222 | 2.3 | 70 | 13 Su | 0158 | 0.8 | 24 | 28 M | 0017 | 1.9 | 58 | 28 M | 0017 | 1.9 | 58 |
| | 0941 | 2.8 | 85 | | 1129 | 3.0 | 91 | | 1203 | 2.8 | 85 | | 0750 | 1.1 | 34 | | 0851 | 2.9 | 88 | | 0526 | 1.5 | 46 | | 0526 | 1.5 | 46 |
| | 1558 | 1.4 | 43 | | 1844 | 1.2 | 37 | | 1926 | 1.1 | 34 | | 1419 | 3.3 | 101 | | 1549 | 1.2 | 37 | | 1233 | 2.7 | 82 | | 1233 | 2.7 | 82 |
| | 2139 | 2.3 | 70 | | | | | | | | | | 2059 | 0.4 | 12 | | ○ | 2131 | 2.0 | | 61 | 1943 | 0.9 | | 27 | 1943 | 0.9 | 27 |
| 14 F | 0407 | 1.0 | 30 | 29 Sa | 0026 | 2.1 | 64 | 14 M | 0117 | 2.1 | 64 | 29 Su | 0222 | | | | | | | | | | | | | | |

Kwajalein Atoll, Marshall Islands, 2011

Times and Heights of High and Low Waters

| April | | | | | May | | | | | June | | | | | | | | | | | | | | | | | | | |
|-----------------|------|--------|-----|----|-----------------|------|--------|-----|----|-----------------|------|--------|-----|----|-----------------|------|--------|-----|----|-----------------|------|------|-----|------|-----------------|------|------|-----|--|
| Time | | Height | | | Time | | Height | | | Time | | Height | | | Time | | Height | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | |
| 1 F | 0322 | 3.6 | 110 | | 16 Sa | 0252 | 4.2 | 128 | | 1 Su | 0312 | 4.0 | 122 | | 16 M | 0307 | 4.6 | 140 | | 1 W | 0345 | 4.3 | 131 | | 16 Th | 0418 | 4.8 | 146 | |
| | 0922 | 0.0 | 0 | | | 0859 | -0.4 | -12 | | | 0925 | -0.1 | -3 | | | 0928 | -0.5 | -15 | | | 1010 | -0.3 | -9 | | | 1048 | -0.6 | -18 | |
| | 1529 | 4.0 | 122 | | | 1507 | 4.4 | 134 | | | 1524 | 3.6 | 110 | | | 1529 | 3.9 | 119 | | | 1607 | 3.3 | 101 | | | 1645 | 3.5 | 107 | |
| | 2139 | -0.3 | -9 | | | 2118 | -0.7 | -21 | | | 2125 | -0.2 | -6 | | | 2128 | -0.6 | -18 | | | 2157 | -0.2 | -6 | | | 2234 | -0.3 | -9 | |
| 2 Sa | 0346 | 4.0 | 122 | | 17 Su | 0331 | 4.7 | 143 | | 2 M | 0340 | 4.2 | 128 | | 17 Tu | 0348 | 4.9 | 149 | | 2 Th | 0419 | 4.5 | 137 | | 17 F | 0457 | 4.8 | 146 | |
| | 0950 | -0.3 | -9 | | | 0943 | -0.8 | -24 | | | 0955 | -0.3 | -9 | | | 1013 | -0.8 | -24 | | | 1045 | -0.4 | -12 | | | 1127 | -0.6 | -18 | |
| | 1555 | 4.1 | 125 | | | 1548 | 4.5 | 137 | | | 1554 | 3.7 | 113 | | | 1612 | 3.9 | 119 | | | 1641 | 3.4 | 104 | | | 1724 | 3.4 | 104 | |
| | 2202 | -0.5 | -15 | | | 2154 | -0.9 | -27 | | | 2152 | -0.3 | -9 | | | 2207 | -0.6 | -18 | | | 2231 | -0.2 | -6 | | | 2312 | -0.3 | -9 | |
| 3 Su | 0410 | 4.3 | 131 | | 18 M | 0409 | 5.0 | 152 | | 3 Tu | 0408 | 4.4 | 134 | | 18 W | 0428 | 5.0 | 152 | | 3 F | 0453 | 4.5 | 137 | | 18 Sa | 0535 | 4.6 | 140 | |
| | 1018 | -0.5 | -15 | | | 1024 | -1.0 | -30 | | | 1025 | -0.4 | -12 | | | 1055 | -0.8 | -24 | | | 1120 | -0.5 | -15 | | | 1204 | -0.5 | -15 | |
| | 1621 | 4.2 | 128 | | | 1628 | 4.5 | 137 | | | 1624 | 3.7 | 113 | | | 1653 | 3.8 | 116 | | | 1717 | 3.4 | 104 | | | 1801 | 3.4 | 104 | |
| | 2225 | -0.6 | -18 | | | 2230 | -1.0 | -30 | | | 2220 | -0.4 | -12 | | | 2245 | -0.5 | -15 | | | 2306 | -0.2 | -6 | | | 2350 | -0.1 | -3 | |
| 4 M | 0435 | 4.4 | 134 | | 19 Tu | 0446 | 5.2 | 158 | | 4 W | 0436 | 4.5 | 137 | | 19 Th | 0508 | 4.9 | 149 | | 4 Sa | 0528 | 4.6 | 140 | | 19 Su | 0611 | 4.4 | 134 | |
| | 1045 | -0.6 | -18 | | | 1105 | -1.0 | -30 | | | 1056 | -0.5 | -15 | | | 1136 | -0.7 | -21 | | | 1156 | -0.5 | -15 | | | 1239 | -0.3 | -9 | |
| | 1647 | 4.1 | 125 | | | 1706 | 4.3 | 131 | | | 1653 | 3.6 | 110 | | | 1733 | 3.6 | 110 | | | 1753 | 3.4 | 104 | | | 1838 | 3.3 | 101 | |
| | 2249 | -0.6 | -18 | | | 2305 | -0.8 | -24 | | | 2247 | -0.4 | -12 | | | 2323 | -0.4 | -12 | | | 2342 | -0.1 | -3 | | | | | | |
| 5 Tu | 0500 | 4.5 | 137 | | 20 W | 0523 | 5.1 | 155 | | 5 Th | 0505 | 4.5 | 137 | | 20 F | 0546 | 4.7 | 143 | | 5 Su | 0605 | 4.5 | 137 | | 20 M | 0026 | 0.1 | 3 | |
| | 1112 | -0.6 | -18 | | | 1145 | -0.9 | -27 | | | 1127 | -0.5 | -15 | | | 1216 | -0.5 | -15 | | | 1234 | -0.4 | -12 | | | 0646 | 4.1 | 125 | |
| | 1712 | 4.0 | 122 | | | 1744 | 3.9 | 119 | | | 1724 | 3.5 | 107 | | | 1813 | 3.3 | 101 | | | 1833 | 3.3 | 101 | | | 1314 | -0.1 | -3 | |
| | 2312 | -0.5 | -15 | | | 2340 | -0.6 | -18 | | | 2316 | -0.3 | -9 | | | | | | | | | | | 1915 | | 3.1 | 94 | | |
| 6 W | 0525 | 4.5 | 137 | | 21 Th | 0600 | 4.8 | 146 | | 6 F | 0536 | 4.4 | 134 | | 21 Sa | 0001 | -0.1 | -3 | | 6 M | 0021 | 0.0 | 0 | | 21 Tu | 0103 | 0.4 | 12 | |
| | 1139 | -0.5 | -15 | | | 1225 | -0.5 | -15 | | | 1200 | -0.3 | -9 | | | 0625 | 4.4 | 134 | | | 0645 | 4.3 | 131 | | | 0721 | 3.8 | 116 | |
| | 1738 | 3.8 | 116 | | | 1822 | 3.5 | 107 | | | 1756 | 3.3 | 101 | | | 1257 | -0.2 | -6 | | | 1317 | -0.2 | -6 | | | 1350 | 0.2 | 6 | |
| | 2336 | -0.4 | -12 | | | | | | | | 2347 | -0.1 | -3 | | | 1853 | 3.0 | 91 | | | 1917 | 3.2 | 98 | | | 1954 | 3.0 | 91 | |
| 7 Th | 0551 | 4.3 | 131 | | 22 F | 0014 | -0.2 | -6 | | 7 Sa | 0609 | 4.3 | 131 | | 22 Su | 0039 | 0.2 | 6 | | 7 Tu | 0106 | 0.2 | 6 | | 22 W | 0144 | 0.7 | 21 | |
| | 1208 | -0.3 | -9 | | | 0638 | 4.4 | 134 | | | 1237 | -0.1 | -3 | | | 0705 | 4.0 | 122 | | | 0729 | 4.1 | 125 | | | 0758 | 3.4 | 104 | |
| | 1805 | 3.5 | 107 | | | 1307 | -0.1 | -3 | | | 1832 | 3.1 | 94 | | | 1340 | 0.2 | 6 | | | 1404 | 0.0 | 0 | | | 1428 | 0.5 | 15 | |
| | | | | | | 1901 | 3.0 | 91 | | | | | | | | 1937 | 2.8 | 85 | | | 2010 | 3.1 | 94 | | | 2040 | 2.9 | 88 | |
| 8 F | 0001 | -0.2 | -6 | | 23 Sa | 0050 | 0.2 | 6 | | 8 Su | 0021 | 0.1 | 3 | | 23 M | 0121 | 0.6 | 18 | | 8 W | 0159 | 0.5 | 15 | | 23 Th | 0231 | 1.0 | 30 | |
| | 0620 | 4.1 | 125 | | | 0719 | 3.9 | 119 | | | 0647 | 4.0 | 122 | | | 0748 | 3.5 | 107 | | | 0822 | 3.8 | 116 | | | 0840 | 3.1 | 94 | |
| | 1240 | 0.0 | 0 | | | 1355 | 0.4 | 12 | | | 1319 | 0.1 | 3 | | | 1428 | 0.5 | 15 | | | 1459 | 0.2 | 6 | | | 1512 | 0.7 | 21 | |
| | 1835 | 3.2 | 98 | | | 1946 | 2.6 | 79 | | | 1915 | 2.9 | 88 | | | 2030 | 2.5 | 76 | | | 2114 | 3.0 | 91 | | | 2136 | 2.8 | 85 | |
| 9 Sa | 0029 | 0.1 | 3 | | 24 Su | 0129 | 0.7 | 21 | | 9 M | 0103 | 0.4 | 12 | | 24 Tu | 0211 | 1.0 | 30 | | 9 Th | 0307 | 0.8 | 24 | | 24 F | 0335 | 1.2 | 37 | |
| | 0652 | 3.9 | 119 | | | 0807 | 3.3 | 101 | | | 0733 | 3.8 | 116 | | | 0840 | 3.1 | 94 | | | 0926 | 3.4 | 104 | | | 0935 | 2.7 | 82 | |
| | 1318 | 0.3 | 9 | | | 1457 | 0.8 | 24 | | | 1413 | 0.4 | 12 | | | 1526 | 0.8 | 24 | | | 1604 | 0.4 | 12 | | | 1607 | 0.8 | 24 | |
| | 1910 | 2.8 | 85 | | | 2051 | 2.2 | 67 | | | 2013 | 2.6 | 79 | | | 2140 | 2.4 | 73 | | | 2231 | 3.1 | 94 | | | 2249 | 2.8 | 85 | |
| 10 Su | 0102 | 0.4 | 12 | | 25 M | 0226 | 1.2 | 37 | | 10 Tu | 0158 | 0.8 | 24 | | 25 W | 0323 | 1.3 | 40 | | 10 F | 0435 | 0.9 | 27 | | 25 Sa | 0505 | 1.3 | 40 | |
| | 0734 | 3.5 | 107 | | | 0919 | 2.9 | 88 | | | 0834 | 3.5 | 107 | | | 0947 | 2.8 | 85 | | | 1045 | 3.1 | 94 | | | 1054 | 2.4 | 73 | |
| | 1410 | 0.7 | 21 | | | 1635 | 1.1 | 34 | | | 1524 | 0.6 | 18 | | | 1637 | 0.9 | 27 | | | 1716 | 0.5 | 15 | | | 1717 | 0.9 | 27 | |
| | 2001 | 2.4 | 73 | | | 2255 | 2.1 | 64 | | | 2135 | 2.5 | 76 | | | 2308 | 2.5 | 76 | | | 2352 | 3.3 | 101 | | | | | | |
| 11 M | 0150 | 0.8 | 24 | | 26 Tu | 0425 | 1.5 | 46 | | 11 W | 0322 | 1.0 | 30 | | 26 Th | 0503 | 1.4 | 43 | | 11 Sa | 0610 | 0.8 | 24 | | 26 Su | 0008 | 2.9 | 88 | |
| | 0838 | 3.2 | 98 | | | 1114 | 2.7 | 82 | | | 0958 | 3.3 | 101 | | | 1112 | 2.7 | 82 | | | 1210 | 3.0 | 91 | | | 0641 | 1.2 | 37 | |
| | 1538 | 1.0 | 30 | | | 1822 | 1.0 | 30 | | | 1652 | 0.6 | 18 | | | 1750 | 0.9 | 27 | | | 1827 | 0.4 | 12 | | | 1225 | 2.4 | 73 | |
| | 2139 | 2.2 | 67 | | | | | | | | 2316 | 2.7 | 82 | | | | | | | | | | | 1829 | | 0.9 | 27 | | |
| 12 Tu | 0324 | 1.2 | 37 | | 27 W | 0048 | 2.4 | 73 | | 12 Th | 0510 | 1.0 | 30 | | 27 F | 0025 | 2.7 | 82 | | 12 Su | 0102 | 3.7 | 113 | | 27 M | 0114 | 3.2 | 98 | |
| | 1029 | 3.0 | 91 | | | 0632 | 1.3 | 40 | | | 1132 | 3.2 | 98 | | | 0633 | 1.2 | 37 | | | 0729 | 0.5 | 15 | | | 0751 | 0.8 | 24 | |
| | 1744 | 0.9 | 27 | | | 1247 | 2.8 | 85 | | | 1811 | 0.4 | 12 | | | 1230 | 2.7 | 82 | | | 1325 | 3.1 | 94 | | | 1338 | 2.5 | 76 | |
| | | | | | | 1921 | 0.8 | 24 | | | | | | | | 1848 | 0.7 | 21 | | | 1928 | 0.2 | 6 | | | 1930 | 0.7 | 21 | |
| 13 W | 0002 | 2.4 | 73 | | 28 Th | 0140 | 2.8 | 85 | | 13 F | 0036 | 3.2 | 98 | | 28 Sa | 0119 | 3.1 | 94 | | 13 M | 0200 | 4.1 | 125 | | 28 Tu | 0206 | 3.5 | 107 | |
| | 0547 | 1.1 | 34 | | | 0737 | 1.0 | 30 | | | 0641 | 0.7 | 21 | | | 0735 | 0.9 | 27 | | | 0830 | 0.1 | 3 | | | 0841 | 0.5 | 15 | |
| | 1221 | 3.2 | 98 | | | 1341 | 3.0 | 91 | | | 1250 | 3.4 | 104 | | | 1328 | 2.8 | 85 | | | 1426 | 3.2 | 98 | | | 1432 | 2.7 | 82 | |
| | 1906 | 0.5 | 15 | | | 1959 | 0.5 | 15 | | | 1912 | 0.2 | 6 | | | 1934 | 0.5 | 15 | | | 2022 | 0.0 | 0 | | | 2020 | 0.4 | 12 | |
| 14 Th | 0121 | 2.9 | 88 | | 29 F | 0214 | 3.2 | 98 | | 14 Sa | 0135 | 3.7 | 113 | | 29 Su | 0201 | 3.4 | 104 | | | | | | | | | | | |

Kwajalein Atoll, Marshall Islands, 2011

Times and Heights of High and Low Waters

| July | | | | August | | | | September | | | | | | | | | | | | | | | | | | | | | |
|-----------------|--------|------|------|--------|-----------------|------|--------|-----------|------|-----------------|------|------|--------|----|-----------------|------|------|-----|--|-----------------|------|------|------|-----|-----------------|------|------|------|-----|
| Time | Height | | Time | Height | | Time | Height | | Time | Height | | Time | Height | | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | | | | | | |
| 1 F | 0406 | 4.5 | 137 | | 16 Sa | 0446 | 4.7 | 143 | | 1 M | 0504 | 5.1 | 155 | | 16 Tu | 0523 | 4.5 | 137 | | 1 Th | 0555 | 4.7 | 143 | | 16 F | 0543 | 3.9 | 119 | |
| | 1034 | -0.5 | -15 | | | 1112 | -0.6 | -18 | | | 1126 | -1.0 | -30 | | | 1137 | -0.6 | -18 | | | 1205 | -0.9 | -27 | | | 1146 | -0.4 | -12 | |
| | 1632 | 3.4 | 104 | | | 1710 | 3.6 | 110 | | | 1728 | 4.2 | 128 | | | 1741 | 4.1 | 125 | | | 1817 | 4.7 | 143 | | | 1759 | 4.2 | 128 | |
| | 2221 | -0.3 | -9 | | | 2301 | -0.3 | -9 | | | 2325 | -0.7 | -21 | | | 2341 | -0.4 | -12 | | | | | | | | | | | |
| 2 Sa | 0443 | 4.7 | 143 | | 17 Su | 0519 | 4.6 | 140 | | 2 Tu | 0540 | 5.0 | 152 | | 17 W | 0549 | 4.3 | 131 | | 2 F | 0028 | -0.6 | -18 | | 17 Sa | 0010 | -0.2 | -6 | |
| | 1110 | -0.6 | -18 | | | 1142 | -0.6 | -18 | | | 1200 | -0.9 | -27 | | | 1201 | -0.5 | -15 | | | | 0632 | 4.2 | 128 | | | 0608 | 3.6 | 110 |
| | 1708 | 3.6 | 110 | | | 1742 | 3.7 | 113 | | | 1805 | 4.3 | 131 | | | 1807 | 4.0 | 122 | | | | 1238 | -0.5 | -15 | | | 1208 | -0.1 | -3 |
| | 2259 | -0.4 | -12 | | | 2334 | -0.3 | -9 | | | | | | | | | | | | | | 1856 | 4.4 | 134 | | | 1824 | 3.9 | 119 |
| 3 Su | 0519 | 4.8 | 146 | | 18 M | 0550 | 4.5 | 137 | | 3 W | 0004 | -0.6 | -18 | | 18 Th | 0009 | -0.2 | -6 | | 3 Sa | 0111 | -0.1 | -3 | | 18 Su | 0039 | 0.1 | 3 | |
| | 1146 | -0.7 | -21 | | | 1211 | -0.5 | -15 | | | 0617 | 4.8 | 146 | | | 0614 | 4.0 | 122 | | | | 0710 | 3.5 | 107 | | | 0633 | 3.2 | 98 |
| | 1746 | 3.7 | 113 | | | 1812 | 3.7 | 113 | | | 1235 | -0.8 | -24 | | | 1224 | -0.3 | -9 | | | | 1313 | -0.1 | -3 | | | 1231 | 0.2 | 6 |
| | 2337 | -0.4 | -12 | | | | | | | | 1843 | 4.2 | 128 | | | 1833 | 3.9 | 119 | | | | 1938 | 3.9 | 119 | | | 1853 | 3.6 | 110 |
| 4 M | 0557 | 4.8 | 146 | | 19 Tu | 0006 | -0.2 | -6 | | 4 Th | 0045 | -0.4 | -12 | | 19 F | 0038 | 0.0 | 0 | | 4 Su | 0202 | 0.4 | 12 | | 19 M | 0112 | 0.5 | 15 | |
| | 1223 | -0.7 | -21 | | | 0620 | 4.3 | 131 | | | 0655 | 4.4 | 134 | | | 0639 | 3.7 | 113 | | | | 0753 | 2.9 | 88 | | | 0701 | 2.8 | 85 |
| | 1824 | 3.7 | 113 | | | 1239 | -0.3 | -9 | | | 1310 | -0.5 | -15 | | | 1247 | 0.0 | 0 | | | | 1352 | 0.5 | 15 | | | 1257 | 0.5 | 15 |
| | | | | | | 1843 | 3.6 | 110 | | | 1924 | 4.0 | 122 | | | 1901 | 3.7 | 113 | | | | 2032 | 3.4 | 104 | | | 1928 | 3.3 | 101 |
| 5 Tu | 0017 | -0.3 | -9 | | 20 W | 0038 | 0.1 | 3 | | 5 F | 0130 | 0.0 | 0 | | 20 Sa | 0108 | 0.3 | 9 | | 5 M | 0315 | 0.9 | 27 | | 20 Tu | 0157 | 0.9 | 27 | |
| | 0635 | 4.6 | 140 | | | 0649 | 4.0 | 122 | | | 0735 | 3.8 | 116 | | | 0705 | 3.3 | 101 | | | | 0857 | 2.2 | 67 | | | 0740 | 2.3 | 70 |
| | 1301 | -0.5 | -15 | | | 1307 | -0.1 | -3 | | | 1349 | -0.1 | -3 | | | 1312 | 0.3 | 9 | | | | 1449 | 1.0 | 30 | | | 1333 | 0.9 | 27 |
| | 1905 | 3.7 | 113 | | | 1913 | 3.5 | 107 | | | 2010 | 3.8 | 116 | | | 1931 | 3.4 | 104 | | | | 2203 | 3.0 | 91 | | | 2026 | 2.9 | 88 |
| 6 W | 0059 | -0.1 | -3 | | 21 Th | 0110 | 0.3 | 9 | | 6 Sa | 0222 | 0.5 | 15 | | 21 Su | 0143 | 0.7 | 21 | | 6 Tu | 0540 | 1.2 | 37 | | 21 W | 0328 | 1.2 | 37 | |
| | 0716 | 4.3 | 131 | | | 0717 | 3.6 | 110 | | | 0820 | 3.2 | 98 | | | 0733 | 2.8 | 85 | | | | 1142 | 1.9 | 58 | | | 0911 | 1.9 | 58 |
| | 1341 | -0.3 | -9 | | | 1335 | 0.2 | 6 | | | 1432 | 0.4 | 12 | | | 1339 | 0.6 | 18 | | | | 1708 | 1.3 | 40 | | | 1456 | 1.3 | 40 |
| | 1950 | 3.6 | 110 | | | 1947 | 3.3 | 101 | | | 2108 | 3.4 | 104 | | | 2011 | 3.1 | 94 | | | | | | | | | 2236 | 2.7 | 82 |
| 7 Th | 0147 | 0.2 | 6 | | 22 F | 0146 | 0.6 | 18 | | 7 Su | 0335 | 0.9 | 27 | | 22 M | 0232 | 1.1 | 34 | | 7 W | 0023 | 3.0 | 91 | | 22 Th | 0617 | 1.1 | 34 | |
| | 0800 | 3.9 | 119 | | | 0748 | 3.2 | 98 | | | 0924 | 2.5 | 76 | | | 0813 | 2.3 | 70 | | | | 0738 | 0.8 | 24 | | | 1231 | 2.1 | 64 |
| | 1425 | 0.0 | 0 | | | 1405 | 0.4 | 12 | | | 1533 | 0.8 | 24 | | | 1418 | 0.9 | 27 | | | | 1345 | 2.3 | 70 | | | 1759 | 1.3 | 40 |
| | 2043 | 3.4 | 104 | | | 2026 | 3.1 | 94 | | | 2234 | 3.2 | 98 | | | 2117 | 2.8 | 85 | | | | 1916 | 1.1 | 34 | | | | | |
| 8 F | 0246 | 0.6 | 18 | | 23 Sa | 0230 | 1.0 | 30 | | 8 M | 0536 | 1.1 | 34 | | 23 Tu | 0416 | 1.4 | 43 | | 8 Th | 0145 | 3.3 | 101 | | 23 F | 0040 | 3.0 | 91 | |
| | 0852 | 3.4 | 104 | | | 0824 | 2.8 | 85 | | | 1123 | 2.1 | 64 | | | 0947 | 1.9 | 58 | | | | 0828 | 0.4 | 12 | | | 0730 | 0.6 | 18 |
| | 1517 | 0.3 | 9 | | | 1442 | 0.7 | 21 | | | 1717 | 1.0 | 30 | | | 1550 | 1.3 | 40 | | | | 1431 | 2.8 | 85 | | | 1338 | 2.7 | 82 |
| | 2148 | 3.3 | 101 | | | 2118 | 2.9 | 88 | | | | | | | 2331 | 2.7 | 82 | | | | 2014 | 0.6 | 18 | | | 1922 | 0.8 | 24 | |
| 9 Sa | 0403 | 0.9 | 27 | | 24 Su | 0336 | 1.2 | 37 | | 9 Tu | 0026 | 3.2 | 98 | | 24 W | 0701 | 1.2 | 37 | | 9 F | 0232 | 3.7 | 113 | | 24 Sa | 0141 | 3.6 | 110 | |
| | 1002 | 2.9 | 88 | | | 0918 | 2.4 | 73 | | | 0734 | 0.8 | 24 | | | 1257 | 2.0 | 61 | | | | 0900 | 0.1 | 3 | | | 0812 | 0.1 | 3 |
| | 1623 | 0.6 | 18 | | | 1537 | 1.0 | 30 | | | 1330 | 2.3 | 70 | | | 1829 | 1.2 | 37 | | | | 1503 | 3.2 | 98 | | | 1419 | 3.3 | 101 |
| | 2311 | 3.3 | 101 | | | 2241 | 2.8 | 85 | | | 1907 | 0.9 | 27 | | | | | | | | | 2054 | 0.2 | 6 | | | 2012 | 0.2 | 6 |
| 10 Su | 0546 | 1.0 | 30 | | 25 M | 0532 | 1.3 | 40 | | 10 W | 0149 | 3.5 | 107 | | 25 Th | 0116 | 3.1 | 94 | | 10 Sa | 0307 | 4.0 | 122 | | 25 Su | 0226 | 4.2 | 128 | |
| | 1137 | 2.6 | 79 | | | 1107 | 2.1 | 64 | | | 0837 | 0.4 | 12 | | | 0805 | 0.7 | 21 | | | | 0927 | -0.2 | -6 | | | 0847 | -0.4 | -12 |
| | 1746 | 0.7 | 21 | | | 1714 | 1.1 | 34 | | | 1435 | 2.6 | 79 | | | 1405 | 2.5 | 76 | | | | 1530 | 3.6 | 110 | | | 1455 | 3.9 | 119 |
| | | | | | | | | | | | 2015 | 0.6 | 18 | | | 1945 | 0.7 | 21 | | | | 2126 | -0.1 | -3 | | | 2055 | -0.4 | -12 |
| 11 M | 0038 | 3.5 | 107 | | 26 Tu | 0025 | 2.9 | 88 | | 11 Th | 0243 | 3.9 | 119 | | 26 F | 0211 | 3.6 | 110 | | 11 Su | 0337 | 4.3 | 131 | | 26 M | 0306 | 4.6 | 140 | |
| | 0723 | 0.7 | 21 | | | 0725 | 1.1 | 34 | | | 0918 | 0.0 | 0 | | | 0845 | 0.1 | 3 | | | | 0952 | -0.4 | -12 | | | 0922 | -0.8 | -24 |
| | 1315 | 2.5 | 76 | | | 1311 | 2.2 | 67 | | | 1517 | 3.0 | 91 | | | 1445 | 3.1 | 94 | | | | 1556 | 3.9 | 119 | | | 1530 | 4.5 | 137 |
| | 1907 | 0.6 | 18 | | | 1855 | 1.0 | 30 | | | 2102 | 0.2 | 6 | | | 2034 | 0.2 | 6 | | | | 2155 | -0.4 | -12 | | | 2134 | -0.8 | -24 |
| 12 Tu | 0149 | 3.8 | 116 | | 27 W | 0140 | 3.2 | 98 | | 12 F | 0323 | 4.2 | 128 | | 27 Sa | 0253 | 4.2 | 128 | | 12 M | 0404 | 4.4 | 134 | | 27 Tu | 0344 | 4.9 | 149 | |
| | 0832 | 0.3 | 9 | | | 0825 | 0.6 | 18 | | | 0951 | -0.3 | -9 | | | 0919 | -0.4 | -12 | | | | 1015 | -0.6 | -18 | | | 0956 | -1.1 | -34 |
| | 1426 | 2.7 | 82 | | | 1419 | 2.5 | 76 | | | 1550 | 3.4 | 104 | | | 1521 | 3.6 | 110 | | | | 1620 | 4.2 | 128 | | | 1605 | 4.9 | 149 |
| | 2012 | 0.4 | 12 | | | 2001 | 0.6 | 18 | | | 2140 | -0.1 | -3 | | | 2115 | -0.3 | -9 | | | | 2223 | -0.5 | -15 | | | 2214 | -1.1 | -34 |
| 13 W | 0244 | 4.1 | 125 | | 28 Th | 0232 | 3.7 | 113 | | 13 Sa | 0358 | 4.4 | 134 | | 28 Su | 0331 | 4.7 | 143 | | 13 Tu | 0429 | 4.4 | 134 | | 28 W | 0421 | 4.9 | 149 | |
| | 0922 | 0.0 | 0 | | | 0907 | 0.2 | 6 | | | 1020 | -0.5 | -15 | | | | | | | | | | | | | | | | |

Kwajalein Atoll, Marshall Islands, 2011

Times and Heights of High and Low Waters

| October | | | | November | | | | December | | | | | | | | | | | | | | | | | | | | | |
|-----------------|------|------|--------|----------|-----------------|------|-------|----------|----|-----------------|------|------|--------|----|-----------------|------|------|-----|--|-----------------|------|------|-----|--|-----------------|------|------|-----|--|
| | Time | | Height | | | Time | | Height | | | Time | | Height | | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | | | | | | |
| 1 Sa | 0013 | -0.7 | -21 | | 16 Su | 0547 | 3.4 | 104 | | 1 Tu | 0136 | 0.2 | 6 | | 16 W | 0055 | 0.1 | 3 | | 1 Th | 0206 | 0.4 | 12 | | 16 F | 0130 | -0.1 | -3 | |
| | 0613 | 3.9 | 119 | | | 1140 | -0.1 | -3 | | | 0729 | 2.6 | 79 | | | 0650 | 2.9 | 88 | | | 0807 | 2.7 | 82 | | | 0733 | 3.2 | 98 | |
| | 1210 | -0.5 | -15 | | | 1800 | 4.1 | 125 | | | 1311 | 0.6 | 18 | | | 1236 | 0.4 | 12 | | | 1349 | 0.9 | 27 | | | 1322 | 0.4 | 12 | |
| | 1832 | 4.5 | 137 | | | | | | | | 1948 | 3.5 | 107 | | | 1905 | 3.8 | 116 | | | 2015 | 3.3 | 101 | | | 1943 | 3.9 | 119 | |
| 2 Su | 0057 | -0.2 | -6 | | 17 M | 0022 | 0.0 | 0 | | 2 W | 0238 | 0.7 | 21 | | 17 Th | 0143 | 0.4 | 12 | | 2 F | 0300 | 0.7 | 21 | | 17 Sa | 0217 | 0.2 | 6 | |
| | 0652 | 3.3 | 101 | | | 0615 | 3.1 | 94 | | | 0835 | 2.3 | 70 | | | 0740 | 2.7 | 82 | | | 0912 | 2.5 | 76 | | | 0828 | 3.1 | 94 | |
| | 1245 | 0.0 | 0 | | | 1207 | 0.2 | 6 | | | 1408 | 1.1 | 34 | | | 1324 | 0.7 | 21 | | | 1453 | 1.2 | 37 | | | 1419 | 0.7 | 21 | |
| | 1914 | 4.0 | 122 | | | 1831 | 3.8 | 116 | | | 2057 | 3.0 | 91 | | | 1957 | 3.5 | 107 | | | 2116 | 2.9 | 88 | | | 2037 | 3.5 | 107 | |
| 3 M | 0147 | 0.4 | 12 | | 18 Tu | 0058 | 0.3 | 9 | | 3 Th | 0412 | 1.0 | 30 | | 18 F | 0245 | 0.6 | 18 | | 3 Sa | 0408 | 0.9 | 27 | | 18 Su | 0314 | 0.4 | 12 | |
| | 0736 | 2.6 | 79 | | | 0649 | 2.7 | 82 | | | 1034 | 2.1 | 64 | | | 0853 | 2.5 | 76 | | | 1041 | 2.5 | 76 | | | 0938 | 3.0 | 91 | |
| | 1324 | 0.6 | 18 | | | 1237 | 0.5 | 15 | | | 1600 | 1.4 | 43 | | | 1435 | 1.0 | 30 | | | 1632 | 1.4 | 43 | | | 1538 | 1.0 | 30 | |
| | 2006 | 3.4 | 104 | | | 1909 | 3.5 | 107 | | | 2246 | 2.8 | 85 | | | 2111 | 3.2 | 98 | | | 2240 | 2.6 | 79 | | | 2148 | 3.1 | 94 | |
| 4 Tu | 0300 | 0.9 | 27 | | 19 W | 0146 | 0.7 | 21 | | 4 F | 0557 | 0.9 | 27 | | 19 Sa | 0408 | 0.7 | 21 | | 4 Su | 0526 | 0.9 | 27 | | 19 M | 0425 | 0.5 | 15 | |
| | 0846 | 2.1 | 64 | | | 0736 | 2.4 | 73 | | | 1229 | 2.4 | 73 | | | 1033 | 2.6 | 79 | | | 1210 | 2.7 | 82 | | | 1104 | 3.1 | 94 | |
| | 1421 | 1.2 | 37 | | | 1320 | 0.9 | 27 | | | 1812 | 1.3 | 40 | | | 1622 | 1.2 | 37 | | | 1819 | 1.3 | 40 | | | 1721 | 1.0 | 30 | |
| | 2134 | 2.9 | 88 | | | 2007 | 3.1 | 94 | | | | | | | | 2246 | 3.1 | 94 | | | | | | | | 2321 | 2.9 | 88 | |
| 5 W | 0518 | 1.1 | 34 | | 20 Th | 0307 | 1.0 | 30 | | 5 Sa | 0024 | 2.8 | 85 | | 20 Su | 0533 | 0.6 | 18 | | 5 M | 0011 | 2.6 | 79 | | 20 Tu | 0545 | 0.5 | 15 | |
| | 1143 | 2.0 | 61 | | | 0907 | 2.1 | 64 | | | 0701 | 0.7 | 21 | | | 1203 | 3.0 | 91 | | | 0632 | 0.8 | 24 | | | 1228 | 3.4 | 104 | |
| | 1657 | 1.5 | 46 | | | 1444 | 1.3 | 40 | | | 1325 | 2.8 | 85 | | | 1806 | 0.9 | 27 | | | 1310 | 3.0 | 91 | | | 1858 | 0.7 | 21 | |
| | 2357 | 2.8 | 85 | | | 2149 | 2.9 | 88 | | | 1922 | 1.0 | 30 | | | | | | | | 1930 | 1.0 | 30 | | | | | | |
| 6 Th | 0709 | 0.8 | 24 | | 21 F | 0511 | 1.0 | 30 | | 6 Su | 0123 | 3.0 | 91 | | 21 M | 0014 | 3.2 | 98 | | 6 Tu | 0118 | 2.7 | 82 | | 21 W | 0052 | 2.9 | 88 | |
| | 1327 | 2.4 | 73 | | | 1136 | 2.3 | 70 | | | 0741 | 0.5 | 15 | | | 0640 | 0.3 | 9 | | | 0723 | 0.6 | 18 | | | 0658 | 0.4 | 12 | |
| | 1902 | 1.2 | 37 | | | 1714 | 1.3 | 40 | | | 1401 | 3.3 | 101 | | | 1308 | 3.5 | 107 | | | 1354 | 3.4 | 104 | | | 1336 | 3.9 | 119 | |
| | | | | | | 2347 | 3.1 | 94 | | | 2006 | 0.6 | 18 | | | 1920 | 0.5 | 15 | | | 2017 | 0.7 | 21 | | | 2009 | 0.3 | 9 | |
| 7 F | 0120 | 3.1 | 94 | | 22 Sa | 0637 | 0.6 | 18 | | 7 M | 0204 | 3.2 | 98 | | 22 Tu | 0122 | 3.4 | 104 | | 7 W | 0207 | 2.8 | 85 | | 22 Th | 0203 | 3.0 | 91 | |
| | 0756 | 0.5 | 15 | | | 1257 | 2.8 | 85 | | | 0813 | 0.2 | 6 | | | 0734 | 0.0 | 0 | | | 0803 | 0.4 | 12 | | | 0759 | 0.1 | 3 | |
| | 1408 | 2.9 | 88 | | | 1848 | 0.9 | 27 | | | 1430 | 3.7 | 113 | | | 1358 | 4.1 | 125 | | | 1431 | 3.7 | 113 | | | 1430 | 4.3 | 131 | |
| | 1957 | 0.7 | 21 | | | | | | | | 2041 | 0.3 | 9 | | | 2017 | 0.0 | 0 | | | 2055 | 0.3 | 9 | | | 2103 | -0.2 | -6 | |
| 8 Sa | 0206 | 3.4 | 104 | | 23 Su | 0102 | 3.5 | 107 | | 8 Tu | 0238 | 3.4 | 104 | | 23 W | 0216 | 3.7 | 113 | | 8 Th | 0247 | 3.0 | 91 | | 23 F | 0259 | 3.3 | 101 | |
| | 0828 | 0.2 | 6 | | | 0730 | 0.1 | 3 | | | 0841 | 0.0 | 0 | | | 0820 | -0.3 | -9 | | | 0840 | 0.2 | 6 | | | 0850 | -0.2 | -6 | |
| | 1437 | 3.3 | 101 | | | 1345 | 3.5 | 107 | | | 1458 | 4.0 | 122 | | | 1443 | 4.6 | 140 | | | 1504 | 4.0 | 122 | | | 1518 | 4.7 | 143 | |
| | 2034 | 0.4 | 12 | | | 1947 | 0.3 | 9 | | | 2112 | 0.0 | 0 | | | 2106 | -0.5 | -15 | | | 2130 | 0.0 | 0 | | | 2150 | -0.5 | -15 | |
| 9 Su | 0240 | 3.7 | 113 | | 24 M | 0154 | 3.9 | 119 | | 9 W | 0309 | 3.5 | 107 | | 24 Th | 0305 | 3.8 | 116 | | 9 F | 0323 | 3.2 | 98 | | 24 Sa | 0346 | 3.4 | 104 | |
| | 0854 | -0.1 | -3 | | | 0811 | -0.3 | -9 | | | 0908 | -0.2 | -6 | | | 0903 | -0.6 | -18 | | | 0914 | 0.0 | 0 | | | 0936 | -0.4 | -12 | |
| | 1503 | 3.7 | 113 | | | 1426 | 4.1 | 125 | | | 1525 | 4.3 | 131 | | | 1526 | 5.0 | 152 | | | 1536 | 4.3 | 131 | | | 1601 | 4.9 | 149 | |
| | 2105 | 0.0 | 0 | | | 2034 | -0.3 | -9 | | | 2142 | -0.3 | -9 | | | 2151 | -0.8 | -24 | | | 2202 | -0.3 | -9 | | | 2232 | -0.7 | -21 | |
| 10 M | 0309 | 3.9 | 119 | | 25 Tu | 0239 | 4.2 | 128 | | 10 Th | 0339 | 3.6 | 110 | | 25 F | 0349 | 3.9 | 119 | | 10 Sa | 0357 | 3.3 | 101 | | 25 Su | 0429 | 3.6 | 110 | |
| | 0918 | -0.3 | -9 | | | 0850 | -0.7 | -21 | | | 0935 | -0.3 | -9 | | | 0944 | -0.7 | -21 | | | 0947 | -0.2 | -6 | | | 1018 | -0.5 | -15 | |
| | 1527 | 4.1 | 125 | | | 1505 | 4.7 | 143 | | | 1553 | 4.5 | 137 | | | 1607 | 5.2 | 158 | | | 1608 | 4.4 | 134 | | | 1641 | 5.0 | 152 | |
| | 2133 | -0.3 | -9 | | | 2117 | -0.7 | -21 | | | 2212 | -0.4 | -12 | | | 2234 | -0.9 | -27 | | | 2234 | -0.4 | -12 | | | 2310 | -0.8 | -24 | |
| 11 Tu | 0336 | 4.0 | 122 | | 26 W | 0321 | 4.4 | 134 | | 11 F | 0408 | 3.6 | 110 | | 26 Sa | 0431 | 3.8 | 116 | | 11 Su | 0430 | 3.4 | 104 | | 26 M | 0508 | 3.6 | 110 | |
| | 0941 | -0.5 | -15 | | | 0927 | -0.9 | -27 | | | 1003 | -0.4 | -12 | | | 1024 | -0.7 | -21 | | | 1019 | -0.3 | -9 | | | 1057 | -0.5 | -15 | |
| | 1552 | 4.3 | 131 | | | 1543 | 5.1 | 155 | | | 1621 | 4.5 | 137 | | | 1647 | 5.2 | 158 | | | 1640 | 4.6 | 140 | | | 1719 | 5.0 | 152 | |
| | 2201 | -0.5 | -15 | | | 2159 | -1.0 | -30 | | | 2241 | -0.5 | -15 | | | 2315 | -0.9 | -27 | | | 2306 | -0.5 | -15 | | | 2347 | -0.7 | -21 | |
| 12 W | 0402 | 4.1 | 125 | | 27 Th | 0401 | 4.4 | 134 | | 12 Sa | 0437 | 3.6 | 110 | | 27 Su | 0512 | 3.7 | 113 | | 12 M | 0502 | 3.4 | 104 | | 27 Tu | 0545 | 3.6 | 110 | |
| | 1005 | -0.6 | -18 | | | 1003 | -1.0 | -30 | | | 1030 | -0.4 | -12 | | | 1103 | -0.6 | -18 | | | 1051 | -0.3 | -9 | | | 1134 | -0.4 | -12 | |
| | 1616 | 4.5 | 137 | | | 1620 | 5.3 | 162 | | | 1649 | 4.5 | 137 | | | 1727 | 5.0 | 152 | | | 1713 | 4.6 | 140 | | | 1755 | 4.8 | 146 | |
| | 2228 | -0.6 | -18 | | | 2240 | -1.1 | -34 | | | 2312 | -0.5 | -15 | | | 2357 | -0.7 | -21 | | | 2339 | -0.5 | -15 | | | | | | |
| 13 Th | 0428 | 4.0 | 122 | | 28 F | 0441 | 4.3 | 131 | | 13 Su | 0507 | 3.5 | 107 | | 28 M | 0553 | 3.5 | 107 | | 13 Tu | 0536 | 3.4 | 104 | | 28 W | 0022 | -0.6 | -18 | |
| | 1028 | -0.6 | -18 | | | 1039 | -0.9 | -27 | | | 1058 | -0.3 | -9 | | | 1142 | -0.3 | -9 | | | 1124 | -0.2 | -6 | | | 0620 | 3.5 | 107 | |
| | 1642 | 4.6 | 140 | | | 1658 | 5.2 | 158 | | | 1719 | 4.4 | 134 | | | 1806 | 4.7 | 143 | | | 1746 | 4.6 | 140 | | | 1210 | -0.2 | -6 | |
| | 2255 | -0.6 | -18 | | | 2321 | -1.0 | -30 | | | 2343 | -0.3 | -9 | | | | | | | | | | | | | 1830 | 4.4 | 134 | |
| 14 F | 0454 | 3.9 | 119 | | 29 Sa | 0520 | 4.0 | 122 | | 14 M | 0538 | 3.3 | 101 | | 29 Tu | 0038 | -0.4 | -12 | | 14 W | 0013 | -0.4 | -12 | | 29 Th | 0056 | -0.3 | -9 | |
| | 1052 | -0.5 | -15 | | | 1115 | -0.7 | -21 | | | 1127 | -0.1 | -3 | | | 0634 | 3.2 | 98 | | | 0611 | 3.4 | 104 | | | 0656 | 3.4 | 104 | |
| | 1707 | 4.5 | 137 | | | 1737 | 5.0 | 152 | | | 1750 | 4.3 | 131 | | | 1221 | 0.0 | 0 | | | 1159 | -0.1 | -3 | | | 1246 | 0.1 | 3 | |
| | 2323 | -0.5 | -15 | | | | | | | | | | | | | 1846 | 4.2 | 128 | | | 1821 | 4.4 | 134 | | | 1903 | 4.1 | 125 | |
| 15 Sa | 0520 | 3.7 | 113 | | 30 Su | 0003 | -0.7 | -21 | | 15 Tu | 0017 | -0.2 | -6 | | 30 W | 0120 | 0.0 | 0 | | 15 Th | 0050 | -0.3 | -9 | | 30 F | 0128 | 0.0 | 0 | |
| | 1116 | -0.3 | -9 | | | 0600 | 3.6</ | | | | | | | | | | | | | | | | | | | | | | |

Sand Island, Midway Islands, 2011

Times and Heights of High and Low Waters

| January | | | | February | | | | March | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|--------|------|----|----------|-----------------|------|------|-------|--------|-----------------|------|------|--------|----|-----------------|------|------|----|----|-----------------|------|------|-----|----|-----------------|------|------|------|----|--|
| Time | Height | | | Time | Height | | | Time | Height | | | Time | Height | | | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | | |
| 1 Sa | 0243 | 1.4 | 43 | | 16 Su | 0219 | 1.4 | 43 | | 1 Tu | 0408 | 1.4 | 43 | | 16 W | 0320 | 1.4 | 43 | | 1 Tu | 0246 | 1.2 | 37 | | 16 W | 0138 | 1.1 | 34 | | |
| | 0847 | 0.7 | 21 | | | 0851 | 0.8 | 24 | | | 1023 | 0.6 | 18 | | | 0939 | 0.7 | 21 | | | | 0854 | 0.6 | 18 | | | 0752 | 0.5 | 15 | |
| | 1254 | 1.0 | 30 | | | 1205 | 0.9 | 27 | | | 1458 | 0.9 | 27 | | | 1425 | 1.0 | 30 | | | | 1351 | 0.9 | 27 | | | 1311 | 0.9 | 27 | |
| | 1956 | -0.1 | -3 | | | 1927 | 0.0 | 0 | | | 2133 | 0.1 | 3 | | | 2101 | 0.1 | 3 | | | | 2028 | 0.2 | 6 | | | 1943 | 0.1 | 3 | |
| 2 Su | 0337 | 1.5 | 46 | | 17 M | 0312 | 1.4 | 43 | | 2 W | 0451 | 1.4 | 43 | | 17 Th | 0404 | 1.4 | 43 | | 2 W | 0335 | 1.2 | 37 | | 17 Th | 0228 | 1.1 | 34 | | |
| | 0951 | 0.7 | 21 | | | 0951 | 0.8 | 24 | | | 1107 | 0.6 | 18 | | | 1020 | 0.5 | 15 | | | | 0944 | 0.5 | 15 | | | 0842 | 0.4 | 12 | |
| | 1359 | 0.9 | 27 | | | 1313 | 0.9 | 27 | | | 1601 | 1.0 | 30 | | | 1542 | 1.1 | 34 | | | | 1502 | 0.9 | 27 | | | 1434 | 1.0 | 30 | |
| | 2050 | 0.0 | 0 | | | 2021 | 0.0 | 0 | | ● | 2224 | 0.2 | 6 | | ○ | 2203 | 0.1 | 3 | | | | 2128 | 0.2 | 6 | | | 2053 | 0.1 | 3 | |
| 3 M | 0427 | 1.5 | 46 | | 18 Tu | 0400 | 1.5 | 46 | | 3 Th | 0529 | 1.4 | 43 | | 18 F | 0443 | 1.3 | 40 | | 3 Th | 0418 | 1.2 | 37 | | 18 F | 0314 | 1.1 | 34 | | |
| | 1046 | 0.6 | 18 | | | 1036 | 0.7 | 21 | | | 1144 | 0.5 | 15 | | | 1059 | 0.4 | 12 | | | | 1025 | 0.4 | 12 | | | 0928 | 0.2 | 6 | |
| | 1503 | 0.9 | 27 | | | 1426 | 0.9 | 27 | | | 1658 | 1.0 | 30 | | | 1650 | 1.2 | 37 | | | | 1602 | 1.0 | 30 | | | 1546 | 1.1 | 34 | |
| ● | 2142 | 0.0 | 0 | | | 2116 | 0.0 | 0 | | | 2311 | 0.2 | 6 | | | 2301 | 0.2 | 6 | | | | 2221 | 0.3 | 9 | | | 2158 | 0.1 | 3 | |
| 4 Tu | 0512 | 1.5 | 46 | | 19 W | 0442 | 1.5 | 46 | | 4 F | 0602 | 1.3 | 40 | | 19 Sa | 0521 | 1.3 | 40 | | 4 F | 0453 | 1.1 | 34 | | 19 Sa | 0357 | 1.1 | 34 | | |
| | 1134 | 0.6 | 18 | | | 1112 | 0.7 | 21 | | | 1216 | 0.4 | 12 | | | 1138 | 0.2 | 6 | | | | 1059 | 0.3 | 9 | | | 1012 | 0.0 | 0 | |
| | 1603 | 0.9 | 27 | | | 1539 | 0.9 | 27 | | | 1749 | 1.1 | 34 | | | 1753 | 1.3 | 40 | | | | 1654 | 1.0 | 30 | | | 1649 | 1.2 | 37 | |
| | 2231 | 0.0 | 0 | | ○ | 2210 | 0.0 | 0 | | | 2356 | 0.3 | 9 | | | 2357 | 0.2 | 6 | | ● | | 2309 | 0.3 | 9 | | ○ | 2259 | 0.2 | 6 | |
| 5 W | 0553 | 1.5 | 46 | | 20 Th | 0522 | 1.5 | 46 | | 5 Sa | 0631 | 1.3 | 40 | | 20 Su | 0557 | 1.3 | 40 | | 5 Sa | 0525 | 1.1 | 34 | | 20 Su | 0438 | 1.0 | 30 | | |
| | 1215 | 0.5 | 15 | | | 1147 | 0.6 | 18 | | | 1246 | 0.4 | 12 | | | 1219 | 0.1 | 3 | | | | 1129 | 0.3 | 9 | | | 1057 | -0.1 | -3 | |
| | 1700 | 0.9 | 27 | | | 1647 | 1.0 | 30 | | | 1837 | 1.1 | 34 | | | 1851 | 1.4 | 43 | | | | 1740 | 1.1 | 34 | | | 1746 | 1.3 | 40 | |
| | 2317 | 0.1 | 3 | | | 2305 | 0.0 | 0 | | | | | | | | | | | | | | 2353 | 0.3 | 9 | | | 2354 | 0.2 | 6 | |
| 6 Th | 0630 | 1.4 | 43 | | 21 F | 0558 | 1.5 | 46 | | 6 Su | 0038 | 0.4 | 12 | | 21 M | 0052 | 0.3 | 9 | | 6 Su | 0553 | 1.0 | 30 | | 21 M | 0520 | 1.0 | 30 | | |
| | 1252 | 0.5 | 15 | | | 1221 | 0.4 | 12 | | | 0658 | 1.2 | 37 | | | 0635 | 1.3 | 40 | | | | 1159 | 0.2 | 6 | | | 1142 | -0.2 | -6 | |
| | 1755 | 0.9 | 27 | | | 1753 | 1.1 | 34 | | | 1315 | 0.3 | 9 | | | 1302 | 0.0 | 0 | | | | 1822 | 1.2 | 37 | | | 1839 | 1.4 | 43 | |
| | | | | | | 2359 | 0.1 | 3 | | | 1923 | 1.2 | 37 | | | 1948 | 1.4 | 43 | | | | | | | | | | | | |
| 7 F | 0002 | 0.2 | 6 | | 22 Sa | 0633 | 1.5 | 46 | | 7 M | 0120 | 0.4 | 12 | | 22 Tu | 0145 | 0.4 | 12 | | 7 M | 0034 | 0.4 | 12 | | 22 Tu | 0046 | 0.3 | 9 | | |
| | 0703 | 1.4 | 43 | | | 1258 | 0.3 | 9 | | | 0723 | 1.2 | 37 | | | 0713 | 1.2 | 37 | | | | 0619 | 1.0 | 30 | | | 0602 | 1.0 | 30 | |
| | 1326 | 0.4 | 12 | | | 1856 | 1.2 | 37 | | | 1345 | 0.2 | 6 | | | 1346 | -0.1 | -3 | | | | 1229 | 0.1 | 3 | | | 1228 | -0.3 | -9 | |
| | 1847 | 1.0 | 30 | | | | | | | | 2008 | 1.2 | 37 | | | 2044 | 1.4 | 43 | | | | 1902 | 1.2 | 37 | | | 1931 | 1.4 | 43 | |
| 8 Sa | 0046 | 0.3 | 9 | | 23 Su | 0053 | 0.2 | 6 | | 8 Tu | 0203 | 0.5 | 15 | | 23 W | 0237 | 0.5 | 15 | | 8 Tu | 0113 | 0.4 | 12 | | 23 W | 0137 | 0.3 | 9 | | |
| | 0734 | 1.3 | 40 | | | 0708 | 1.4 | 43 | | | 0748 | 1.1 | 34 | | | 0754 | 1.2 | 37 | | | | 0644 | 1.0 | 30 | | | 0646 | 1.0 | 30 | |
| | 1358 | 0.3 | 9 | | | 1337 | 0.2 | 6 | | | 1417 | 0.2 | 6 | | | 1434 | -0.1 | -3 | | | | 1300 | 0.1 | 3 | | | 1316 | -0.3 | -9 | |
| | 1940 | 1.0 | 30 | | | 1959 | 1.3 | 40 | | | 2055 | 1.2 | 37 | | | 2140 | 1.4 | 43 | | | | 1942 | 1.2 | 37 | | | 2022 | 1.4 | 43 | |
| 9 Su | 0131 | 0.4 | 12 | | 24 M | 0148 | 0.4 | 12 | | 9 W | 0246 | 0.6 | 18 | | 24 Th | 0332 | 0.5 | 15 | | 9 W | 0151 | 0.4 | 12 | | 24 Th | 0226 | 0.3 | 9 | | |
| | 0802 | 1.3 | 40 | | | 0743 | 1.3 | 40 | | | 0814 | 1.1 | 34 | | | 0838 | 1.1 | 34 | | | | 0710 | 0.9 | 27 | | | 0732 | 1.0 | 30 | |
| | 1431 | 0.3 | 9 | | | 1419 | 0.0 | 0 | | | 1452 | 0.1 | 3 | | | 1524 | -0.1 | -3 | | | | 1332 | 0.0 | 0 | | | 1404 | -0.2 | -6 | |
| | 2033 | 1.1 | 34 | | | 2101 | 1.3 | 40 | | | 2143 | 1.3 | 40 | | ○ | 2239 | 1.4 | 43 | | | | 2023 | 1.3 | 40 | | | 2113 | 1.3 | 40 | |
| 10 M | 0217 | 0.5 | 15 | | 25 Tu | 0245 | 0.5 | 15 | | 10 Th | 0333 | 0.7 | 21 | | 25 F | 0430 | 0.6 | 18 | | 10 Th | 0231 | 0.5 | 15 | | 25 F | 0318 | 0.4 | 12 | | |
| | 0829 | 1.2 | 37 | | | 0820 | 1.3 | 40 | | | 0841 | 1.0 | 30 | | | 0926 | 1.1 | 34 | | | | 0737 | 0.9 | 27 | | | 0821 | 0.9 | 27 | |
| | 1504 | 0.2 | 6 | | | 1504 | 0.0 | 0 | | | 1530 | 0.1 | 3 | | | 1617 | 0.0 | 0 | | | | 1408 | 0.0 | 0 | | | 1455 | -0.2 | -6 | |
| | 2127 | 1.1 | 34 | | | 2203 | 1.4 | 43 | | ○ | 2235 | 1.3 | 40 | | | 2340 | 1.3 | 40 | | | | 2107 | 1.2 | 37 | | | 2207 | 1.2 | 37 | |
| 11 Tu | 0307 | 0.6 | 18 | | 26 W | 0344 | 0.6 | 18 | | 11 F | 0425 | 0.7 | 21 | | 26 Sa | 0533 | 0.6 | 18 | | 11 F | 0312 | 0.5 | 15 | | 26 Sa | 0412 | 0.4 | 12 | | |
| | 0856 | 1.1 | 34 | | | 0900 | 1.2 | 37 | | | 0911 | 1.0 | 30 | | | 1020 | 1.0 | 30 | | | | 0806 | 0.9 | 27 | | | 0914 | 0.9 | 27 | |
| | 1539 | 0.2 | 6 | | | 1552 | -0.1 | -3 | | | 1613 | 0.1 | 3 | | | 1715 | 0.0 | 0 | | | | 1447 | 0.0 | 0 | | | 1550 | -0.1 | -3 | |
| | 2223 | 1.2 | 37 | | ● | 2307 | 1.4 | 43 | | | 2332 | 1.3 | 40 | | | | | | | | | 2155 | 1.2 | 37 | | ○ | 2304 | 1.1 | 34 | |
| 12 W | 0401 | 0.7 | 21 | | 27 Th | 0447 | 0.7 | 21 | | 12 Sa | 0526 | 0.8 | 24 | | 27 Su | 0045 | 1.3 | 40 | | 12 Sa | 0359 | 0.6 | 18 | | 27 Su | 0511 | 0.4 | 12 | | |
| | 0924 | 1.1 | 34 | | | 0944 | 1.2 | 37 | | | 0946 | 1.0 | 30 | | | 0643 | 0.6 | 18 | | | | 0839 | 0.9 | 27 | | | 1014 | 0.8 | 24 | |
| | 1618 | 0.1 | 3 | | | 1644 | -0.1 | -3 | | | 1701 | 0.0 | 0 | | | 1123 | 0.9 | 27 | | | | 1532 | 0.0 | 0 | | | 1649 | 0.0 | 0 | |
| ○ | 2321 | 1.2 | 37 | | | | | | | | | | | | 1818 | 0.1 | 3 | | | ○ | 2248 | 1.2 | 37 | | | | | | | |
| 13 Th | 0503 | 0.7 | 21 | | 28 F | 0012 | 1.4 | 43 | | 13 Su | 0033 | 1.3 | 40 | | 28 M | 0148 | 1.2 | 37 | | 13 Su | 0452 | 0 | | | | | | | | |

Sand Island, Midway Islands, 2011

Times and Heights of High and Low Waters

| July | | | | August | | | | September | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|--------|------|------|--------|-----------------|------|--------|-----------|------|-----------------|------|------|--------|----|-----------------|------|-----|----|--|-----------------|------|------|-----|----|-----------------|------|------|-----|----|--|------|-----|----|--|
| Time | Height | | Time | Height | | Time | Height | | Time | Height | | Time | Height | | | | | | | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | | | | | | | | | | | |
| 1 F | 0331 | 0.6 | 18 | | 16 Sa | 0441 | 0.8 | 24 | | 1 M | 0531 | 1.0 | 30 | | 16 Tu | 0024 | 0.3 | 9 | | 1 Th | 0030 | 0.0 | 0 | | 16 F | 0039 | 0.2 | 6 | | | | | | |
| | 1006 | -0.2 | -6 | | | 1101 | 0.0 | 0 | | | 1137 | 0.1 | 3 | | | 0622 | 1.1 | 34 | | | | 0720 | 1.5 | 46 | | | 0725 | 1.4 | 43 | | | | | |
| | 1733 | 1.3 | 40 | | | 1810 | 1.3 | 40 | | | 1810 | 1.4 | 43 | | | 1228 | 0.4 | 12 | | | | 1321 | 0.4 | 12 | | | 1340 | 0.5 | 15 | | | | | |
| | | | | | | | | | | | | | | | | 1841 | 1.2 | 37 | | | | 1844 | 1.2 | 37 | | | 1854 | 1.0 | 30 | | | | | |
| 2 Sa | 0014 | 0.4 | 12 | | 17 Su | 0030 | 0.4 | 12 | | 2 Tu | 0033 | 0.3 | 9 | | 17 W | 0054 | 0.3 | 9 | | 2 F | 0115 | -0.1 | -3 | | 17 Sa | 0112 | 0.1 | 3 | | | 0815 | 1.5 | 46 | |
| | 0430 | 0.7 | 21 | | | 0539 | 0.9 | 27 | | | 0632 | 1.1 | 34 | | | 0708 | 1.2 | 37 | | | | 0815 | 1.5 | 46 | | | 0805 | 1.4 | 43 | | | | | |
| | 1054 | -0.2 | -6 | | | 1149 | 0.1 | 3 | | | 1231 | 0.2 | 6 | | | 1311 | 0.4 | 12 | | | | 1413 | 0.5 | 15 | | | 1419 | 0.6 | 18 | | | | | |
| | 1809 | 1.3 | 40 | | | 1846 | 1.3 | 40 | | | 1843 | 1.3 | 40 | | | 1908 | 1.2 | 37 | | | | 1925 | 1.2 | 37 | | | 1922 | 1.0 | 30 | | | | | |
| 3 Su | 0045 | 0.4 | 12 | | 18 M | 0106 | 0.3 | 9 | | 3 W | 0109 | 0.1 | 3 | | 18 Th | 0125 | 0.2 | 6 | | 3 Sa | 0202 | -0.1 | -3 | | 18 Su | 0148 | 0.1 | 3 | | | 0910 | 1.5 | 46 | |
| | 0530 | 0.7 | 21 | | | 0634 | 0.9 | 27 | | | 0732 | 1.2 | 37 | | | 0753 | 1.2 | 37 | | | | 0910 | 1.5 | 46 | | | 0848 | 1.4 | 43 | | | | | |
| | 1142 | -0.1 | -3 | | | 1235 | 0.2 | 6 | | | 1325 | 0.3 | 9 | | | 1354 | 0.5 | 15 | | | | 1506 | 0.6 | 18 | | | 1459 | 0.6 | 18 | | | | | |
| | 1844 | 1.3 | 40 | | | 1918 | 1.2 | 37 | | | 1917 | 1.3 | 40 | | | 1935 | 1.1 | 34 | | | | 2010 | 1.2 | 37 | | | 1953 | 1.0 | 30 | | | | | |
| 4 M | 0117 | 0.3 | 9 | | 19 Tu | 0140 | 0.2 | 6 | | 4 Th | 0149 | 0.0 | 0 | | 19 F | 0158 | 0.2 | 6 | | 4 Su | 0252 | -0.1 | -3 | | 19 M | 0228 | 0.1 | 3 | | | 1008 | 1.4 | 43 | |
| | 0632 | 0.8 | 24 | | | 0727 | 1.0 | 30 | | | 0832 | 1.3 | 40 | | | 0838 | 1.3 | 40 | | | | 1008 | 1.4 | 43 | | | 0934 | 1.3 | 40 | | | | | |
| | 1233 | 0.0 | 0 | | | 1322 | 0.3 | 9 | | | 1420 | 0.4 | 12 | | | 1436 | 0.6 | 18 | | | | 1602 | 0.6 | 18 | | | 1545 | 0.7 | 21 | | | | | |
| | 1917 | 1.3 | 40 | | | 1948 | 1.2 | 37 | | | 1953 | 1.2 | 37 | | | 2002 | 1.1 | 34 | | | ☉ | 2059 | 1.1 | 34 | | | 2028 | 0.9 | 27 | | | | | |
| 5 Tu | 0149 | 0.2 | 6 | | 20 W | 0213 | 0.2 | 6 | | 5 F | 0233 | -0.1 | -3 | | 20 Sa | 0234 | 0.1 | 3 | | 5 M | 0347 | 0.0 | 0 | | 20 Tu | 0312 | 0.1 | 3 | | | 1109 | 1.4 | 43 | |
| | 0735 | 0.9 | 27 | | | 0819 | 1.0 | 30 | | | 0932 | 1.3 | 40 | | | 0925 | 1.3 | 40 | | | | 1109 | 1.4 | 43 | | | 1025 | 1.3 | 40 | | | | | |
| | 1326 | 0.1 | 3 | | | 1409 | 0.4 | 12 | | | 1516 | 0.5 | 15 | | | 1521 | 0.7 | 21 | | | | 1703 | 0.7 | 21 | | | 1637 | 0.7 | 21 | | | | | |
| | 1951 | 1.2 | 37 | | | 2017 | 1.1 | 34 | | | 2032 | 1.2 | 37 | | | 2030 | 1.0 | 30 | | | | 2154 | 1.1 | 34 | | ☉ | 2111 | 0.9 | 27 | | | | | |
| 6 W | 0225 | 0.0 | 0 | | 21 Th | 0247 | 0.1 | 3 | | 6 Sa | 0320 | -0.1 | -3 | | 21 Su | 0313 | 0.1 | 3 | | 6 Tu | 0446 | 0.1 | 3 | | 21 W | 0402 | 0.1 | 3 | | | 1211 | 1.3 | 40 | |
| | 0840 | 1.0 | 30 | | | 0912 | 1.1 | 34 | | | 1034 | 1.4 | 43 | | | 1016 | 1.3 | 40 | | | | 1211 | 1.3 | 40 | | | 1119 | 1.3 | 40 | | | | | |
| | 1422 | 0.2 | 6 | | | 1458 | 0.5 | 15 | | ☉ | 1617 | 0.6 | 18 | | ☉ | 1611 | 0.7 | 21 | | | | 1810 | 0.7 | 21 | | | 1735 | 0.7 | 21 | | | | | |
| | 2025 | 1.2 | 37 | | | 2045 | 1.0 | 30 | | | 2115 | 1.1 | 34 | | ☉ | 2101 | 1.0 | 30 | | | | 2259 | 1.0 | 30 | | | 2211 | 0.9 | 27 | | | | | |
| 7 Th | 0305 | -0.1 | -3 | | 22 F | 0322 | 0.1 | 3 | | 7 Su | 0412 | -0.1 | -3 | | 22 M | 0356 | 0.1 | 3 | | 7 W | 0550 | 0.1 | 3 | | 22 Th | 0501 | 0.2 | 6 | | | 1314 | 1.3 | 40 | |
| | 0946 | 1.0 | 30 | | | 1006 | 1.1 | 34 | | | 1138 | 1.4 | 43 | | | 1111 | 1.3 | 40 | | | | 1314 | 1.3 | 40 | | | 1215 | 1.3 | 40 | | | | | |
| | 1523 | 0.4 | 12 | | ☉ | 1550 | 0.6 | 18 | | | 1721 | 0.7 | 21 | | | 1709 | 0.8 | 24 | | | | 1919 | 0.7 | 21 | | | 1834 | 0.7 | 21 | | | | | |
| | 2100 | 1.1 | 34 | | ☉ | 2113 | 1.0 | 30 | | | 2204 | 1.1 | 34 | | | 2138 | 1.0 | 30 | | | | | | | | | 2329 | 0.9 | 27 | | | | | |
| 8 F | 0349 | -0.2 | -6 | | 23 Sa | 0401 | 0.0 | 0 | | 8 M | 0508 | -0.1 | -3 | | 23 Tu | 0444 | 0.1 | 3 | | 8 Th | 0014 | 1.0 | 30 | | 23 F | 0608 | 0.2 | 6 | | | 0658 | 0.2 | 6 | |
| | 1053 | 1.1 | 34 | | | 1102 | 1.1 | 34 | | | 1243 | 1.4 | 43 | | | 1210 | 1.3 | 40 | | | | 0658 | 0.2 | 6 | | | 1309 | 1.2 | 37 | | | | | |
| | 1628 | 0.5 | 15 | | | 1648 | 0.6 | 18 | | | 1832 | 0.7 | 21 | | | 1816 | 0.8 | 24 | | | | 1413 | 1.3 | 40 | | | 1928 | 0.6 | 18 | | | | | |
| | 2140 | 1.0 | 30 | | | 2144 | 0.9 | 27 | | | 2301 | 1.0 | 30 | | | 2225 | 0.9 | 27 | | | | 2021 | 0.6 | 18 | | | | | | | | | | |
| 9 Sa | 0437 | -0.2 | -6 | | 24 Su | 0443 | 0.0 | 0 | | 9 Tu | 0607 | 0.0 | 0 | | 24 W | 0537 | 0.1 | 3 | | 9 F | 0133 | 1.0 | 30 | | 24 Sa | 0056 | 1.0 | 30 | | | 0805 | 0.3 | 9 | |
| | 1201 | 1.2 | 37 | | | 1200 | 1.2 | 37 | | | 1347 | 1.4 | 43 | | | 1310 | 1.3 | 40 | | | | 0805 | 0.3 | 9 | | | 0719 | 0.3 | 9 | | | | | |
| | 1739 | 0.6 | 18 | | | 1754 | 0.7 | 21 | | | 1944 | 0.7 | 21 | | | 1927 | 0.8 | 24 | | | | 1505 | 1.3 | 40 | | | 1358 | 1.2 | 37 | | | | | |
| | 2224 | 1.0 | 30 | | | 2218 | 0.9 | 27 | | | | | | | 2328 | 0.9 | 27 | | | | 2113 | 0.5 | 15 | | | 2015 | 0.5 | 15 | | | | | | |
| 10 Su | 0530 | -0.3 | -9 | | 25 M | 0528 | 0.0 | 0 | | 10 W | 0008 | 1.0 | 30 | | 25 Th | 0636 | 0.1 | 3 | | 10 Sa | 0245 | 1.0 | 30 | | 25 Su | 0215 | 1.1 | 34 | | | 0908 | 0.3 | 9 | |
| | 1307 | 1.3 | 40 | | | 1300 | 1.2 | 37 | | | 0710 | 0.0 | 0 | | | 1405 | 1.3 | 40 | | | | 0245 | 1.0 | 30 | | | 0829 | 0.3 | 9 | | | | | |
| | 1853 | 0.6 | 18 | | | 1908 | 0.7 | 21 | | | 1446 | 1.4 | 43 | | | 2027 | 0.7 | 21 | | | | 1550 | 1.2 | 37 | | | 1444 | 1.2 | 37 | | | | | |
| | 2316 | 0.9 | 27 | | | 2300 | 0.9 | 27 | | | 2051 | 0.7 | 21 | | | | | | | | | 2156 | 0.5 | 15 | | | 2059 | 0.3 | 9 | | | | | |
| 11 M | 0626 | -0.3 | -9 | | 26 Tu | 0618 | 0.0 | 0 | | 11 Th | 0121 | 1.0 | 30 | | 26 F | 0048 | 0.9 | 27 | | 11 Su | 0346 | 1.1 | 34 | | 26 M | 0324 | 1.2 | 37 | | | 1005 | 0.3 | 9 | |
| | 1409 | 1.3 | 40 | | | 1358 | 1.3 | 40 | | | 0812 | 0.1 | 3 | | | 0738 | 0.1 | 3 | | | | 1005 | 0.3 | 9 | | | 0935 | 0.3 | 9 | | | | | |
| | 2006 | 0.6 | 18 | | | 2023 | 0.7 | 21 | | | 1538 | 1.4 | 43 | | | 1455 | 1.3 | 40 | | | | 1629 | 1.2 | 37 | | | 1526 | 1.1 | 34 | | | | | |
| | | | | | | 2352 | 0.8 | 24 | | | 2148 | 0.6 | 18 | | | 2115 | 0.7 | 21 | | ☉ | | 2233 | 0.4 | 12 | | | 2142 | 0.2 | 6 | | | | | |
| 12 Tu | 0016 | 0.9 | 27 | | 27 W | 0710 | 0.0 | 0 | | 12 F | 0234 | 1.0 | 30 | | 27 Sa | 0209 | 1.0 | 30 | | 12 M | 0438 | 1.2 | 37 | | 27 Tu | 0425 | 1.4 | 43 | | | 1055 | 0.4 | 12 | |
| | 0723 | -0.2 | -6 | | | 1452 | 1.3 | 40 | | | 0911 | 0.1 | 3 | | | 0840 | 0.2 | 6 | | | | 1055 | 0.4 | 12 | | | 1036 | 0.4 | 12 | | | | | |
| | 1507 | 1.3 | 40 | | | 2127 | 0.7 | 21 | | | 1624 | 1.4 | 43 | | | 1538 | 1.3 | 40 | | | | 1702 | 1.1 | 34 | | | 1607 | 1.1 | 34 | | | | | |
| | 2114 | 0.6 | 18 | | | </ | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Sand Island, Midway Islands, 2011

Times and Heights of High and Low Waters

| October | | | | November | | | | December | | | | | | | | | | | | | | | | | | | | | |
|-----------------|--------|------|----|----------|-----------------|------|------|----------|--------|-----------------|------|------|--------|----|-----------------|------|------|----|----|-----------------|------|-----|----|--|-----------------|------|------|----|--|
| Time | Height | | | Time | Height | | | Time | Height | | | Time | Height | | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | |
| 1 Sa | 0044 | -0.2 | -6 | | 16 Su | 0032 | 0.0 | 0 | | 1 Tu | 0201 | 0.0 | 0 | | 16 W | 0122 | 0.0 | 0 | | 1 Th | 0232 | 0.2 | 6 | | 16 F | 0159 | 0.2 | 6 | |
| | 0755 | 1.6 | 49 | | | 0738 | 1.4 | 43 | | | 0910 | 1.4 | 43 | | | 0829 | 1.3 | 40 | | | 0920 | 1.3 | 40 | | | 0832 | 1.3 | 40 | |
| | 1402 | 0.5 | 15 | | | 1406 | 0.5 | 15 | | | 1530 | 0.4 | 12 | | | 1507 | 0.4 | 12 | | | 1552 | 0.2 | 6 | | | 1511 | 0.2 | 6 | |
| | 1902 | 1.1 | 34 | | | 1848 | 0.8 | 24 | | | 2042 | 0.9 | 27 | | | 2004 | 0.8 | 24 | | | 2142 | 0.9 | 27 | | | 2118 | 1.0 | 30 | |
| 2 Su | 0134 | -0.1 | -3 | | 17 M | 0109 | 0.0 | 0 | | 2 W | 0256 | 0.1 | 3 | | 17 Th | 0210 | 0.1 | 3 | | 2 F | 0329 | 0.3 | 9 | | 17 Sa | 0257 | 0.4 | 12 | |
| | 0846 | 1.5 | 46 | | | 0818 | 1.4 | 43 | | | 0958 | 1.3 | 40 | | | 0908 | 1.3 | 40 | | | 1000 | 1.2 | 37 | | | 0906 | 1.2 | 37 | |
| | 1453 | 0.5 | 15 | | | 1445 | 0.5 | 15 | | | 1623 | 0.3 | 9 | | | 1545 | 0.4 | 12 | | | 1637 | 0.2 | 6 | | | 1550 | 0.1 | 3 | |
| | 1953 | 1.1 | 34 | | | 1923 | 0.8 | 24 | | | 2150 | 0.9 | 27 | | | 2111 | 0.8 | 24 | | | 2252 | 1.0 | 30 | | | 2229 | 1.1 | 34 | |
| 3 M | 0226 | -0.1 | -3 | | 18 Tu | 0149 | 0.1 | 3 | | 3 Th | 0356 | 0.2 | 6 | | 18 F | 0307 | 0.2 | 6 | | 3 Sa | 0435 | 0.5 | 15 | | 18 Su | 0402 | 0.5 | 15 | |
| | 0939 | 1.4 | 43 | | | 0900 | 1.3 | 40 | | | 1048 | 1.2 | 37 | | | 0946 | 1.2 | 37 | | | 1040 | 1.1 | 34 | | | 0942 | 1.2 | 37 | |
| | 1547 | 0.5 | 15 | | | 1527 | 0.6 | 18 | | | 1716 | 0.3 | 9 | | | 1625 | 0.3 | 9 | | | 1720 | 0.1 | 3 | | | 1633 | 0.0 | 0 | |
| | 2048 | 1.0 | 30 | | | 2007 | 0.8 | 24 | | | 2306 | 0.9 | 27 | | | 2228 | 0.9 | 27 | | | 2341 | 1.2 | 37 | | | 2341 | 1.2 | 37 | |
| 4 Tu | 0322 | 0.0 | 0 | | 19 W | 0235 | 0.1 | 3 | | 4 F | 0505 | 0.3 | 9 | | 19 Sa | 0413 | 0.3 | 9 | | 4 Su | 0003 | 1.0 | 30 | | 19 M | 0516 | 0.6 | 18 | |
| | 1035 | 1.3 | 40 | | | 0944 | 1.3 | 40 | | | 1137 | 1.1 | 34 | | | 1027 | 1.1 | 34 | | | 0551 | 0.6 | 18 | | | 1022 | 1.1 | 34 | |
| | 1645 | 0.5 | 15 | | | 1612 | 0.5 | 15 | | | 1807 | 0.3 | 9 | | | 1708 | 0.2 | 6 | | | 1120 | 1.0 | 30 | | | 1721 | -0.1 | -3 | |
| | 2152 | 1.0 | 30 | | | 2104 | 0.8 | 24 | | | | | | | | 2347 | 1.0 | 30 | | | 1803 | 0.1 | 3 | | | | | | |
| 5 W | 0422 | 0.1 | 3 | | 20 Th | 0328 | 0.2 | 6 | | 5 Sa | 0023 | 1.0 | 30 | | 20 Su | 0529 | 0.4 | 12 | | 5 M | 0108 | 1.1 | 34 | | 20 Tu | 0050 | 1.3 | 40 | |
| | 1133 | 1.3 | 40 | | | 1031 | 1.2 | 37 | | | 0622 | 0.4 | 12 | | | 1109 | 1.0 | 30 | | | 0712 | 0.6 | 18 | | | 0634 | 0.7 | 21 | |
| | 1747 | 0.5 | 15 | | | 1700 | 0.5 | 15 | | | 1227 | 1.0 | 30 | | | 1755 | 0.0 | 0 | | | 1202 | 0.9 | 27 | | | 1108 | 1.0 | 30 | |
| | 2305 | 1.0 | 30 | | | 2217 | 0.9 | 27 | | | 1855 | 0.2 | 6 | | | | | | | | 1847 | 0.1 | 3 | | | 1814 | -0.2 | -6 | |
| 6 Th | 0530 | 0.3 | 9 | | 21 F | 0432 | 0.2 | 6 | | 6 Su | 0134 | 1.0 | 30 | | 21 M | 0102 | 1.1 | 34 | | 6 Tu | 0207 | 1.2 | 37 | | 21 W | 0155 | 1.4 | 43 | |
| | 1231 | 1.2 | 37 | | | 1119 | 1.2 | 37 | | | 0742 | 0.5 | 15 | | | 0651 | 0.5 | 15 | | | 0829 | 0.6 | 18 | | | 0751 | 0.7 | 21 | |
| | 1847 | 0.5 | 15 | | | 1749 | 0.4 | 12 | | | 1314 | 0.9 | 27 | | | 1156 | 1.0 | 30 | | | 1246 | 0.8 | 24 | | | 1202 | 1.0 | 30 | |
| | | | | | | 2341 | 0.9 | 27 | | | 1938 | 0.1 | 3 | | | 1845 | -0.1 | -3 | | | 1930 | 0.0 | 0 | | | 1909 | -0.2 | -6 | |
| 7 F | 0025 | 1.0 | 30 | | 22 Sa | 0545 | 0.3 | 9 | | 7 M | 0235 | 1.1 | 34 | | 22 Tu | 0210 | 1.3 | 40 | | 7 W | 0259 | 1.3 | 40 | | 22 Th | 0255 | 1.5 | 46 | |
| | 0644 | 0.3 | 9 | | | 1207 | 1.1 | 34 | | | 0855 | 0.5 | 15 | | | 0809 | 0.6 | 18 | | | 0936 | 0.6 | 18 | | | 0901 | 0.7 | 21 | |
| | 1326 | 1.1 | 34 | | | 1837 | 0.3 | 9 | | | 1359 | 0.9 | 27 | | | 1247 | 0.9 | 27 | | | 1333 | 0.8 | 24 | | | 1304 | 1.0 | 30 | |
| | 1942 | 0.4 | 12 | | | | | | | | 2019 | 0.1 | 3 | | | 1936 | -0.2 | -6 | | | 2013 | 0.0 | 0 | | | 2007 | -0.2 | -6 | |
| 8 Sa | 0141 | 1.0 | 30 | | 23 Su | 0104 | 1.0 | 30 | | 8 Tu | 0325 | 1.2 | 37 | | 23 W | 0309 | 1.4 | 43 | | 8 Th | 0345 | 1.3 | 40 | | 23 F | 0350 | 1.5 | 46 | |
| | 0758 | 0.4 | 12 | | | 0704 | 0.4 | 12 | | | 0956 | 0.5 | 15 | | | 0918 | 0.6 | 18 | | | 1031 | 0.6 | 18 | | | 1002 | 0.7 | 21 | |
| | 1417 | 1.1 | 34 | | | 1256 | 1.0 | 30 | | | 1441 | 0.8 | 24 | | | 1342 | 0.9 | 27 | | | 1420 | 0.8 | 24 | | | 1411 | 0.9 | 27 | |
| | 2029 | 0.3 | 9 | | | 1925 | 0.2 | 6 | | | 2057 | 0.0 | 0 | | | 2029 | -0.3 | -9 | | | 2055 | 0.0 | 0 | | | 2104 | -0.2 | -6 | |
| 9 Su | 0247 | 1.1 | 34 | | 24 M | 0216 | 1.2 | 37 | | 9 W | 0409 | 1.3 | 40 | | 24 Th | 0404 | 1.5 | 46 | | 9 F | 0427 | 1.4 | 43 | | 24 Sa | 0440 | 1.6 | 49 | |
| | 0905 | 0.4 | 12 | | | 0821 | 0.4 | 12 | | | 1047 | 0.5 | 15 | | | 1018 | 0.5 | 15 | | | 1116 | 0.6 | 18 | | | 1056 | 0.6 | 18 | |
| | 1501 | 1.0 | 30 | | | 1344 | 1.0 | 30 | | | 1520 | 0.8 | 24 | | | 1439 | 0.9 | 27 | | | 1506 | 0.7 | 21 | | | 1517 | 0.9 | 27 | |
| | 2109 | 0.3 | 9 | | | 2013 | 0.0 | 0 | | | 2134 | 0.0 | 0 | | | 2123 | -0.3 | -9 | | | 2137 | 0.0 | 0 | | | 2159 | -0.2 | -6 | |
| 10 M | 0342 | 1.2 | 37 | | 25 Tu | 0319 | 1.3 | 40 | | 10 Th | 0449 | 1.3 | 40 | | 25 F | 0455 | 1.6 | 49 | | 10 Sa | 0506 | 1.4 | 43 | | 25 Su | 0527 | 1.6 | 49 | |
| | 1004 | 0.4 | 12 | | | 0929 | 0.4 | 12 | | | 1131 | 0.5 | 15 | | | 1111 | 0.5 | 15 | | | 1156 | 0.6 | 18 | | | 1145 | 0.5 | 15 | |
| | 1540 | 1.0 | 30 | | | 1432 | 1.0 | 30 | | | 1557 | 0.8 | 24 | | | 1537 | 0.9 | 27 | | | 1552 | 0.7 | 21 | | | 1622 | 0.9 | 27 | |
| | 2145 | 0.2 | 6 | | | 2101 | -0.1 | -3 | | | 2211 | 0.0 | 0 | | | 2215 | -0.3 | -9 | | | 2217 | 0.0 | 0 | | | 2252 | -0.1 | -3 | |
| 11 Tu | 0428 | 1.3 | 40 | | 26 W | 0416 | 1.5 | 46 | | 11 F | 0527 | 1.4 | 43 | | 26 Sa | 0543 | 1.6 | 49 | | 11 Su | 0543 | 1.4 | 43 | | 26 M | 0611 | 1.5 | 46 | |
| | 1054 | 0.4 | 12 | | | 1029 | 0.4 | 12 | | | 1209 | 0.5 | 15 | | | 1200 | 0.5 | 15 | | | 1231 | 0.5 | 15 | | | 1230 | 0.5 | 15 | |
| | 1615 | 0.9 | 27 | | | 1520 | 1.0 | 30 | | | 1633 | 0.8 | 24 | | | 1635 | 0.9 | 27 | | | 1637 | 0.8 | 24 | | | 1724 | 1.0 | 30 | |
| | 2218 | 0.1 | 3 | | | 2150 | -0.2 | -6 | | | 2247 | 0.0 | 0 | | | 2307 | -0.3 | -9 | | | 2257 | 0.0 | 0 | | | 2343 | 0.0 | 0 | |
| 12 W | 0509 | 1.3 | 40 | | 27 Th | 0508 | 1.6 | 49 | | 12 Sa | 0603 | 1.4 | 43 | | 27 Su | 0629 | 1.6 | 49 | | 12 M | 0619 | 1.5 | 46 | | 27 Tu | 0651 | 1.5 | 46 | |
| | 1138 | 0.4 | 12 | | | 1123 | 0.4 | 12 | | | 1245 | 0.5 | 15 | | | 1247 | 0.4 | 12 | | | 1304 | 0.5 | 15 | | | 1314 | 0.4 | 12 | |
| | 1647 | 0.9 | 27 | | | 1609 | 1.0 | 30 | | | 1708 | 0.7 | 21 | | | 1733 | 0.9 | 27 | | | 1724 | 0.8 | 24 | | | 1825 | 1.0 | 30 | |
| | 2251 | 0.1 | 3 | | | 2239 | -0.3 | -9 | | | 2323 | 0.0 | 0 | | | 2358 | -0.2 | -6 | | | 2338 | 0.0 | 0 | | | | | | |
| 13 Th | 0547 | 1.4 | 43 | | 28 F | 0558 | 1.6 | 49 | | 13 Su | 0639 | 1.4 | 43 | | 28 M | 0713 | 1.5 | 46 | | 13 Tu | 0653 | 1.4 | 43 | | 28 W | 0032 | 0.1 | 3 | |
| | 1218 | 0.5 | 15 | | | 1213 | 0.4 | 12 | | | 1320 | 0.5 | 15 | | | 1334 | 0.4 | 12 | | | 1335 | 0.5 | 15 | | | 0730 | 1.4 | 43 | |
| | 1717 | 0.9 | 27 | | | 1659 | 1.0 | 30 | | | 1744 | 0.7 | 21 | | | 1832 | 0.9 | 27 | | | 1814 | 0.8 | 24 | | | 1355 | 0.3 | 9 | |
| | 2324 | 0.1 | 3 | | | 2328 | -0.3 | -9 | | | | | | | | | | | | | 1924 | 1.0 | 30 | | | 1924 | 1.0 | 30 | |
| 14 F | 0623 | 1.4 | 43 | | 29 Sa | 0646 | 1.6 | 49 | | 14 M | 0000 | 0.0 | 0 | | 29 Tu | 0048 | -0.1 | -3 | | 14 W | 0021 | 0.0 | 0 | | 29 Th | 0122 | 0.2 | 6 | |

Nawiliwili, Kauai Island, Hawaii, 2011

Times and Heights of High and Low Waters

| April | | | | May | | | | June | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|--------|------|----|------|-----------------|------|------|------|--------|-----------------|------|------|--------|----|-----------------|------|------|-----|----|-----------------|------|------|-----|--|-----------------|------|------|----|--|-----------------|------|-----|----|--|
| Time | Height | | | Time | Height | | | Time | Height | | | Time | Height | | | | | | | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | | | | | | |
| 1 F | 0230 | 1.3 | 40 | | 16 Sa | 0206 | 1.3 | 40 | | 1 Su | 0208 | 0.9 | 27 | | 16 M | 0210 | 0.8 | 24 | | 1 W | 0235 | 0.6 | 18 | | 16 Th | 0328 | 0.6 | 18 | | | | | | |
| | 0836 | 0.0 | 0 | | | 0814 | -0.3 | -9 | | | 0803 | -0.2 | -6 | | | 0806 | -0.4 | -12 | | | 0827 | -0.3 | -9 | | | 0905 | -0.3 | -9 | | | | | | |
| | 1505 | 1.4 | 43 | | | 1505 | 1.8 | 55 | | | 1520 | 1.8 | 55 | | | 1539 | 2.2 | 67 | | | 1611 | 2.1 | 64 | | | 1648 | 2.3 | 70 | | | | | | |
| | 2100 | 0.2 | 6 | | | 2117 | 0.1 | 3 | | | 2152 | 0.3 | 9 | | | 2234 | 0.3 | 9 | | | 2320 | 0.4 | 12 | | | | | | | | | | | |
| 2 Sa | 0255 | 1.2 | 37 | | 17 Su | 0244 | 1.1 | 34 | | 2 M | 0236 | 0.8 | 24 | | 17 Tu | 0254 | 0.7 | 21 | | 2 Th | 0313 | 0.6 | 18 | | 17 F | 0001 | 0.3 | 9 | | 17 Sa | 0417 | 0.6 | 18 | |
| | 0855 | -0.1 | -3 | | | 0845 | -0.4 | -12 | | | 0828 | -0.2 | -6 | | | 0844 | -0.4 | -12 | | | 0904 | -0.3 | -9 | | | 0947 | -0.2 | -6 | | | | | | |
| | 1536 | 1.5 | 46 | | | 1549 | 2.0 | 61 | | | 1552 | 1.8 | 55 | | | 1622 | 2.2 | 67 | | | 1648 | 2.1 | 64 | | | 1726 | 2.1 | 64 | | | | | | |
| | 2140 | 0.2 | 6 | | | 2214 | 0.2 | 6 | | | 2233 | 0.3 | 9 | | | 2327 | 0.3 | 9 | | | | | | | | | | | | | | | | |
| 3 Su | 0318 | 1.1 | 34 | | 18 M | 0321 | 0.9 | 27 | | 3 Tu | 0303 | 0.7 | 21 | | 18 W | 0338 | 0.6 | 18 | | 3 F | 0000 | 0.3 | 9 | | 18 Sa | 0038 | 0.3 | 9 | | | | | | |
| | 0916 | -0.1 | -3 | | | 0918 | -0.4 | -12 | | | 0857 | -0.2 | -6 | | | 0923 | -0.4 | -12 | | | 0356 | 0.6 | 18 | | | 0509 | 0.6 | 18 | | | | | | |
| | 1608 | 1.6 | 49 | | | 1634 | 2.0 | 61 | | | 1626 | 1.9 | 58 | | | 1706 | 2.2 | 67 | | | 0943 | -0.2 | -6 | | | 1029 | 0.0 | 0 | | | | | | |
| | 2221 | 0.2 | 6 | | | 2313 | 0.2 | 6 | | | 2316 | 0.3 | 9 | | | | | | | | 1726 | 2.1 | 64 | | | 1804 | 2.0 | 61 | | | | | | |
| 4 M | 0340 | 1.0 | 30 | | 19 Tu | 0359 | 0.8 | 24 | | 4 W | 0332 | 0.7 | 21 | | 19 Th | 0019 | 0.3 | 9 | | 4 Sa | 0043 | 0.3 | 9 | | 19 Su | 0115 | 0.3 | 9 | | | | | | |
| | 0939 | -0.2 | -6 | | | 0953 | -0.4 | -12 | | | 0927 | -0.2 | -6 | | | 0426 | 0.6 | 18 | | | 0445 | 0.6 | 18 | | | 0608 | 0.7 | 21 | | | | | | |
| | 1642 | 1.6 | 49 | | | 1721 | 2.1 | 64 | | | 1702 | 1.9 | 58 | | | 1004 | -0.3 | -9 | | | 1023 | -0.1 | -3 | | | 1112 | 0.1 | 3 | | | | | | |
| | 2304 | 0.3 | 9 | | | | | | | | | | | | | 1750 | 2.1 | 64 | | | 1806 | 2.1 | 64 | | | 1840 | 1.8 | 55 | | | | | | |
| 5 Tu | 0402 | 0.9 | 27 | | 20 W | 0014 | 0.3 | 9 | | 5 Th | 0003 | 0.3 | 9 | | 20 F | 0112 | 0.3 | 9 | | 5 Su | 0128 | 0.3 | 9 | | 20 M | 0152 | 0.3 | 9 | | | | | | |
| | 1005 | -0.2 | -6 | | | 0438 | 0.7 | 21 | | | 0402 | 0.6 | 18 | | | 0519 | 0.5 | 15 | | | 0547 | 0.6 | 18 | | | 0719 | 0.7 | 21 | | | | | | |
| | 1718 | 1.7 | 52 | | | 1031 | -0.3 | -9 | | | 1000 | -0.2 | -6 | | | 1046 | -0.1 | -3 | | | 1108 | 0.0 | 0 | | | 1159 | 0.3 | 9 | | | | | | |
| | 2351 | 0.4 | 12 | | | 1811 | 2.0 | 61 | | | 1742 | 1.9 | 58 | | | 1836 | 2.0 | 61 | | | 1848 | 1.9 | 58 | | | 1914 | 1.6 | 49 | | | | | | |
| 6 W | 0423 | 0.8 | 24 | | 21 Th | 0121 | 0.3 | 9 | | 6 F | 0056 | 0.4 | 12 | | 21 Sa | 0207 | 0.3 | 9 | | 6 M | 0213 | 0.2 | 6 | | 21 Tu | 0228 | 0.2 | 6 | | | | | | |
| | 1033 | -0.1 | -3 | | | 0522 | 0.6 | 18 | | | 0437 | 0.5 | 15 | | | 0625 | 0.5 | 15 | | | 0710 | 0.6 | 18 | | | 0842 | 0.8 | 24 | | | | | | |
| | 1759 | 1.7 | 52 | | | 1112 | -0.2 | -6 | | | 1037 | -0.1 | -3 | | | 1132 | 0.0 | 0 | | | 1201 | 0.2 | 6 | | | 1256 | 0.6 | 18 | | | | | | |
| | | | | | | 1905 | 1.9 | 58 | | | 1827 | 1.9 | 58 | | | 1923 | 1.8 | 55 | | | 1931 | 1.8 | 55 | | | 1946 | 1.4 | 43 | | | | | | |
| 7 Th | 0047 | 0.4 | 12 | | 22 F | 0241 | 0.3 | 9 | | 7 Sa | 0157 | 0.4 | 12 | | 22 Su | 0300 | 0.3 | 9 | | 7 Tu | 0256 | 0.1 | 3 | | 22 W | 0302 | 0.2 | 6 | | | | | | |
| | 0444 | 0.7 | 21 | | | 0621 | 0.5 | 15 | | | 0524 | 0.5 | 15 | | | 0753 | 0.5 | 15 | | | 0849 | 0.7 | 21 | | | 1009 | 1.0 | 30 | | | | | | |
| | 1104 | -0.1 | -3 | | | 1158 | 0.0 | 0 | | | 1119 | 0.0 | 0 | | | 1223 | 0.2 | 6 | | | 1310 | 0.4 | 12 | | | 1417 | 0.8 | 24 | | | | | | |
| | 1847 | 1.6 | 49 | | | 2005 | 1.7 | 52 | | | 1917 | 1.8 | 55 | | | 2011 | 1.6 | 49 | | | 2016 | 1.6 | 49 | | | 2017 | 1.2 | 37 | | | | | | |
| 8 F | 0159 | 0.5 | 15 | | 23 Sa | 0409 | 0.3 | 9 | | 8 Su | 0302 | 0.3 | 9 | | 23 M | 0348 | 0.2 | 6 | | 8 W | 0337 | 0.0 | 0 | | 23 Th | 0337 | 0.1 | 3 | | | | | | |
| | 0504 | 0.6 | 18 | | | 0803 | 0.4 | 12 | | | 0644 | 0.4 | 12 | | | 0933 | 0.6 | 18 | | | 1022 | 0.9 | 27 | | | 1121 | 1.2 | 37 | | | | | | |
| | 1142 | 0.0 | 0 | | | 1255 | 0.1 | 3 | | | 1210 | 0.1 | 3 | | | 1330 | 0.4 | 12 | | | 1444 | 0.6 | 18 | | | 1620 | 0.9 | 27 | | | | | | |
| | 1946 | 1.6 | 49 | | | 2110 | 1.6 | 49 | | | 2011 | 1.7 | 52 | | | 2100 | 1.4 | 43 | | | 2104 | 1.4 | 43 | | | 2046 | 1.0 | 30 | | | | | | |
| 9 Sa | 1232 | 0.0 | 0 | | 24 Su | 0513 | 0.3 | 9 | | 9 M | 0359 | 0.3 | 9 | | 24 Tu | 0427 | 0.2 | 6 | | 9 Th | 0416 | -0.1 | -3 | | 24 F | 0412 | 0.1 | 3 | | | | | | |
| | 2056 | 1.6 | 49 | | | 1004 | 0.5 | 15 | | | 0850 | 0.5 | 15 | | | 1100 | 0.8 | 24 | | | 1135 | 1.2 | 37 | | | 1215 | 1.4 | 43 | | | | | | |
| | | | | | | 1413 | 0.3 | 9 | | | 1320 | 0.2 | 6 | | | 1502 | 0.6 | 18 | | | 1641 | 0.7 | 21 | | | 1903 | 0.8 | 24 | | | | | | |
| | | | | | | 2213 | 1.5 | 46 | | | 2109 | 1.6 | 49 | | | 2149 | 1.3 | 40 | | | 2156 | 1.2 | 37 | | | 2121 | 0.9 | 27 | | | | | | |
| 10 Su | 0537 | 0.3 | 9 | | 25 M | 0552 | 0.2 | 6 | | 10 Tu | 0442 | 0.2 | 6 | | 25 W | 0459 | 0.1 | 3 | | 10 F | 0455 | -0.2 | -6 | | 25 Sa | 0448 | 0.0 | 0 | | | | | | |
| | 0737 | 0.4 | 12 | | | 1130 | 0.7 | 21 | | | 1037 | 0.7 | 21 | | | 1201 | 1.0 | 30 | | | 1231 | 1.6 | 49 | | | 1258 | 1.6 | 49 | | | | | | |
| | 1343 | 0.1 | 3 | | | 1551 | 0.4 | 12 | | | 1453 | 0.4 | 12 | | | 1651 | 0.7 | 21 | | | 1836 | 0.7 | 21 | | | | | | | | | | | |
| | 2207 | 1.6 | 49 | | | 2309 | 1.4 | 43 | | | 2206 | 1.5 | 46 | | | 2236 | 1.1 | 34 | | | 2254 | 1.0 | 30 | | | | | | | | | | | |
| 11 M | 0602 | 0.3 | 9 | | 26 Tu | 0619 | 0.2 | 6 | | 11 W | 0518 | 0.1 | 3 | | 26 Th | 0526 | 0.1 | 3 | | 11 Sa | 0535 | -0.2 | -6 | | 26 Su | 0527 | 0.0 | 0 | | | | | | |
| | 1036 | 0.5 | 15 | | | 1227 | 0.9 | 27 | | | 1148 | 0.9 | 27 | | | 1247 | 1.3 | 40 | | | 1320 | 1.9 | 58 | | | 1336 | 1.8 | 55 | | | | | | |
| | 1516 | 0.2 | 6 | | | 1723 | 0.5 | 15 | | | 1636 | 0.5 | 15 | | | 1832 | 0.7 | 21 | | | 2006 | 0.6 | 18 | | | 2120 | 0.6 | 18 | | | | | | |
| | 2309 | 1.6 | 49 | | | 2356 | 1.3 | 40 | | | 2301 | 1.4 | 43 | | | 2321 | 1.0 | 30 | | | 2354 | 0.8 | 24 | | | 2343 | 0.7 | 21 | | | | | | |
| 12 Tu | 0626 | 0.2 | 6 | | 27 W | 0640 | 0.1 | 3 | | 12 Th | 0550 | -0.1 | -3 | | 27 F | 0552 | 0.0 | 0 | | 12 Su | 0615 | -0.3 | -9 | | 27 M | 0607 | -0.1 | -3 | | | | | | |
| | 1154 | 0.7 | 21 | | | 1309 | 1.1 | 34 | | | 1242 | 1.2 | 37 | | | 1324 | 1.5 | 46 | | | 1404 | 2.1 | 64 | | | 1411 | 2.0 | 61 | | | | | | |
| | 1648 | 0.2 | 6 | | | 1836 | 0.4 | 12 | | | 1809 | 0.5 | 15 | | | 1948 | 0.6 | 18 | | | 2111 | 0.5 | 15 | | | 2142 | 0.5 | 15 | | | | | | |
| | | | | | | | | | | | 2351 | 1.2 | 37 | | | | | | | | | | | | | | | | | | | | | |
| 13 W | 0000 | 1.6 | 49 | | 28 Th | 0036 | 1.2 | 37 | | 13 F | 0622 | -0.2 | -6 | | 28 Sa | 0003 | 0.8 | 24 | | 13 M | 0053 | 0.7 | 21 | | 28 Tu | 0043 | 0.6 | 18 | | | | | | |
| | 0650 | 0.1 | 3 | | | 0659 | 0.0 | 0 | | | 1329 | 1.6 | 49 | | | 0619 | -0.1 | -3 | | | 0657 | -0.4 | -12 | | | 0648 | -0.2 | -6 | | | | | | |
| | 1249 | 0.9 | 27 | | | 1345 | 1.3 | 40 | | | 1929 | 0.4 | 12 | | | 1358 | 1.7 | 52 | | | 1447 | 2.2 | 67 | | | 1445 | 2.1 | 64 | | | | | | |
| | 1807 | 0.2 | 6 | | | 1935 | 0.4 | 12 | | | | | | | | 2044 | 0.6 | 18 | | | 2201 | 0.4 | 12 | | | 2205 | 0.5 | 15 | | | | | | |
| 14 Th | 0046 | 1.5 | 46 | | 29 F | 0110 | 1.1 | 34 | | 14 Sa | 0039 | 1.1 | 34 | | 29 Su | 0042 | 0.8 | 24 | | 14 Tu | 0148 | 0.6 | 18 | | 29 W | 0134 | 0.6 | 18 | | | | | | |
| | 0716 | -0.1 | -3 | | | 0718 | 0.0 | 0 | | | 0655 | -0.3 | -9 | | | | | | | | | | | | | | | | | | | | | |

Nawiliwili, Kauai Island, Hawaii, 2011

Times and Heights of High and Low Waters

| July | | | | August | | | | September | | | | | | | | | | | | | | | | | | | | | |
|-----------------|--------|------|------|--------|-----------------|------|--------|-----------|------|-----------------|------|------|--------|----|-----------------|------|-----|----|--|-----------------|------|-----|----|--|-----------------|------|------|-----|----|
| Time | Height | | Time | Height | | Time | Height | | Time | Height | | Time | Height | | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | | | | | | |
| 1 F | 0306 | 0.7 | 21 | | 16 Sa | 0407 | 0.8 | 24 | | 1 M | 0444 | 1.1 | 34 | | 16 Tu | 0513 | 1.3 | 40 | | 1 Th | 0625 | 1.8 | 55 | | 16 F | 0608 | 1.7 | 52 | |
| | 0852 | -0.2 | -6 | | | 0935 | 0.0 | 0 | | | 1018 | 0.1 | 3 | | | 1049 | 0.4 | 12 | | | 1227 | 0.6 | 18 | | | 1230 | 0.8 | 24 | |
| | 1629 | 2.3 | 70 | | | 1657 | 2.1 | 64 | | | 1709 | 2.0 | 61 | | | 1708 | 1.6 | 49 | | | 1737 | 1.3 | 40 | | | 1655 | 1.1 | 34 | |
| | 2332 | 0.3 | 9 | | | 2347 | 0.3 | 9 | | | 2348 | 0.1 | 3 | | | 2334 | 0.3 | 9 | | | | | | | | 2325 | 0.3 | 9 | |
| 2 Sa | 0355 | 0.7 | 21 | | 17 Su | 0452 | 0.9 | 27 | | 2 Tu | 0541 | 1.2 | 37 | | 17 W | 0558 | 1.4 | 43 | | 2 F | 0005 | 0.0 | 0 | | 17 Sa | 0659 | 1.7 | 52 | |
| | 0934 | -0.2 | -6 | | | 1015 | 0.1 | 3 | | | 1110 | 0.3 | 9 | | | 1134 | 0.6 | 18 | | | 0732 | 1.8 | 55 | | | 1343 | 0.8 | 24 | |
| | 1705 | 2.2 | 67 | | | 1726 | 1.9 | 58 | | | 1741 | 1.8 | 55 | | | 1727 | 1.4 | 43 | | | 1355 | 0.8 | 24 | | | 1701 | 0.9 | 27 | |
| | | | | | | | | | | | | | | | | 2359 | 0.3 | 9 | | | 1806 | 1.0 | 30 | | | 2359 | 0.3 | 9 | |
| 3 Su | 0006 | 0.3 | 9 | | 18 M | 0014 | 0.3 | 9 | | 3 W | 0022 | 0.1 | 3 | | 18 Th | 0649 | 1.4 | 43 | | 3 Sa | 0048 | 0.1 | 3 | | 18 Su | 0806 | 1.7 | 52 | |
| | 0449 | 0.8 | 24 | | | 0542 | 1.0 | 30 | | | 0647 | 1.3 | 40 | | | 1228 | 0.7 | 21 | | | 0850 | 1.8 | 55 | | | | | | |
| | 1018 | -0.1 | -3 | | | 1057 | 0.3 | 9 | | | 1211 | 0.5 | 15 | | | 1741 | 1.2 | 37 | | | 1625 | 0.8 | 24 | | | | | | |
| | 1740 | 2.1 | 64 | | | 1754 | 1.8 | 55 | | | 1813 | 1.5 | 46 | | | | | | | | 1830 | 0.9 | 27 | | | | | | |
| 4 M | 0041 | 0.2 | 6 | | 19 Tu | 0042 | 0.3 | 9 | | 4 Th | 0059 | 0.0 | 0 | | 19 F | 0028 | 0.3 | 9 | | 4 Su | 0143 | 0.2 | 6 | | 19 M | 0045 | 0.4 | 12 | |
| | 0551 | 0.8 | 24 | | | 0637 | 1.0 | 30 | | | 0801 | 1.5 | 46 | | | 0752 | 1.4 | 43 | | | 1012 | 1.9 | 58 | | | 0926 | 1.7 | 52 | |
| | 1106 | 0.1 | 3 | | | 1142 | 0.5 | 15 | | | 1329 | 0.8 | 24 | | | 1340 | 0.9 | 27 | | | | | | | | | | | |
| | 1816 | 2.0 | 61 | | | 1819 | 1.6 | 49 | | | 1843 | 1.3 | 40 | | | 1746 | 1.1 | 34 | | | | | | | | | | | |
| 5 Tu | 0118 | 0.1 | 3 | | 20 W | 0111 | 0.2 | 6 | | 5 F | 0140 | 0.0 | 0 | | 20 Sa | 0103 | 0.3 | 9 | | 5 M | 0256 | 0.2 | 6 | | 20 Tu | 0154 | 0.4 | 12 | |
| | 0704 | 0.9 | 27 | | | 0743 | 1.1 | 34 | | | 0924 | 1.6 | 49 | | | 0910 | 1.5 | 46 | | | 1125 | 1.9 | 58 | | | 1041 | 1.7 | 52 | |
| | 1202 | 0.4 | 12 | | | 1236 | 0.7 | 21 | | | 1527 | 0.9 | 27 | | | | | | | | 1935 | 0.6 | 18 | | | 1928 | 0.6 | 18 | |
| | 1851 | 1.7 | 52 | | | 1839 | 1.4 | 43 | | | 1909 | 1.0 | 30 | | | | | | | | 2303 | 0.7 | 21 | | | 2212 | 0.7 | 21 | |
| 6 W | 0157 | 0.1 | 3 | | 21 Th | 0142 | 0.2 | 6 | | 6 Sa | 0229 | 0.0 | 0 | | 21 Su | 0148 | 0.3 | 9 | | 6 Tu | 0419 | 0.3 | 9 | | 21 W | 0323 | 0.4 | 12 | |
| | 0829 | 1.1 | 34 | | | 0901 | 1.2 | 37 | | | 1046 | 1.8 | 55 | | | 1032 | 1.6 | 49 | | | 1223 | 2.0 | 61 | | | 1139 | 1.8 | 55 | |
| | 1314 | 0.6 | 18 | | | 1350 | 0.9 | 27 | | | | | | | | | | | | | 1957 | 0.5 | 15 | | | 1913 | 0.6 | 18 | |
| | 1927 | 1.5 | 46 | | | 1851 | 1.2 | 37 | | | | | | | | | | | | | | | | | | | 2342 | 0.8 | 24 |
| 7 Th | 0237 | 0.0 | 0 | | 22 F | 0217 | 0.2 | 6 | | 7 Su | 0328 | 0.0 | 0 | | 22 M | 0250 | 0.3 | 9 | | 7 W | 0019 | 0.8 | 24 | | 22 Th | 0445 | 0.4 | 12 | |
| | 0957 | 1.3 | 40 | | | 1022 | 1.3 | 40 | | | 1154 | 1.9 | 58 | | | 1139 | 1.7 | 52 | | | 0534 | 0.3 | 9 | | | 1225 | 1.9 | 58 | |
| | 1454 | 0.8 | 24 | | | 1559 | 0.9 | 27 | | | | | | | | | | | | | 1310 | 2.0 | 61 | | | 1925 | 0.5 | 15 | |
| | 2004 | 1.2 | 37 | | | 1837 | 1.0 | 30 | | | | | | | | | | | | | 2017 | 0.5 | 15 | | | | | | |
| 8 F | 0321 | -0.1 | -3 | | 23 Sa | 0259 | 0.2 | 6 | | 8 M | 0434 | 0.0 | 0 | | 23 Tu | 0403 | 0.3 | 9 | | 8 Th | 0111 | 1.0 | 30 | | 23 F | 0036 | 1.0 | 30 | |
| | 1113 | 1.5 | 46 | | | 1131 | 1.5 | 46 | | | 1250 | 2.1 | 64 | | | 1230 | 1.9 | 58 | | | 0633 | 0.3 | 9 | | | 0554 | 0.3 | 9 | |
| | 1719 | 0.9 | 27 | | | | | | | | 2043 | 0.6 | 18 | | | 2028 | 0.6 | 18 | | | 1348 | 2.0 | 61 | | | 1305 | 2.0 | 61 | |
| | 2048 | 1.0 | 30 | | | | | | | | 2357 | 0.7 | 21 | | | 2332 | 0.7 | 21 | | | 2035 | 0.4 | 12 | | | 1944 | 0.4 | 12 | |
| 9 Sa | 0408 | -0.1 | -3 | | 24 Su | 0348 | 0.2 | 6 | | 9 Tu | 0538 | 0.0 | 0 | | 24 W | 0511 | 0.2 | 6 | | 9 F | 0152 | 1.1 | 34 | | 24 Sa | 0122 | 1.2 | 37 | |
| | 1216 | 1.8 | 55 | | | 1224 | 1.7 | 52 | | | 1337 | 2.1 | 64 | | | 1311 | 2.0 | 61 | | | 0722 | 0.2 | 6 | | | 0653 | 0.3 | 9 | |
| | 1946 | 0.7 | 21 | | | | | | | | 2105 | 0.5 | 15 | | | 2027 | 0.6 | 18 | | | 1421 | 1.9 | 58 | | | 1341 | 1.9 | 58 | |
| | 2201 | 0.8 | 24 | | | | | | | | | | | | | | | | | | 2052 | 0.4 | 12 | | | 2007 | 0.3 | 9 | |
| 10 Su | 0458 | -0.2 | -6 | | 25 M | 0443 | 0.1 | 3 | | 10 W | 0103 | 0.8 | 24 | | 25 Th | 0036 | 0.8 | 24 | | 10 Sa | 0229 | 1.3 | 40 | | 25 Su | 0206 | 1.5 | 46 | |
| | 1308 | 2.0 | 61 | | | 1307 | 1.9 | 58 | | | 0635 | 0.0 | 0 | | | 0610 | 0.1 | 3 | | | 0805 | 0.3 | 9 | | | 0749 | 0.2 | 6 | |
| | 2052 | 0.6 | 18 | | | | | | | | 1417 | 2.2 | 67 | | | 1348 | 2.1 | 64 | | | 1449 | 1.9 | 58 | | | 1417 | 1.9 | 58 | |
| | 2334 | 0.7 | 21 | | | | | | | | 2125 | 0.5 | 15 | | | 2041 | 0.5 | 15 | | | 2109 | 0.3 | 9 | | | 2033 | 0.1 | 3 | |
| 11 M | 0549 | -0.2 | -6 | | 26 Tu | 0537 | 0.0 | 0 | | 11 Th | 0152 | 0.9 | 27 | | 26 F | 0125 | 1.0 | 30 | | 11 Su | 0304 | 1.4 | 43 | | 26 M | 0249 | 1.7 | 52 | |
| | 1354 | 2.2 | 67 | | | 1346 | 2.0 | 61 | | | 0724 | 0.0 | 0 | | | 0702 | 0.0 | 0 | | | 0846 | 0.3 | 9 | | | 0843 | 0.2 | 6 | |
| | 2129 | 0.5 | 15 | | | 2120 | 0.6 | 18 | | | 1453 | 2.2 | 67 | | | 1422 | 2.2 | 67 | | | 1515 | 1.7 | 52 | | | 1451 | 1.7 | 52 | |
| | | | | | | | | | | | 2145 | 0.4 | 12 | | | 2102 | 0.4 | 12 | | | 2127 | 0.3 | 9 | | | 2101 | 0.0 | 0 | |
| 12 Tu | 0048 | 0.7 | 21 | | 27 W | 0033 | 0.7 | 21 | | 12 F | 0235 | 1.0 | 30 | | 27 Sa | 0211 | 1.1 | 34 | | 12 M | 0338 | 1.5 | 46 | | 27 Tu | 0334 | 1.9 | 58 | |
| | 0640 | -0.2 | -6 | | | 0627 | -0.1 | -3 | | | 0808 | 0.0 | 0 | | | 0751 | 0.0 | 0 | | | 0925 | 0.4 | 12 | | | 0938 | 0.3 | 9 | |
| | 1436 | 2.3 | 70 | | | 1421 | 2.1 | 64 | | | 1525 | 2.1 | 64 | | | 1456 | 2.2 | 67 | | | 1539 | 1.6 | 49 | | | 1525 | 1.6 | 49 | |
| | 2159 | 0.4 | 12 | | | 2133 | 0.5 | 15 | | | 2205 | 0.4 | 12 | | | 2126 | 0.3 | 9 | | | 2147 | 0.2 | 6 | | | 2132 | -0.1 | -3 | |
| 13 W | 0147 | 0.7 | 21 | | 28 Th | 0127 | 0.8 | 24 | | 13 Sa | 0314 | 1.1 | 34 | | 28 Su | 0257 | 1.3 | 40 | | 13 Tu | 0412 | 1.6 | 49 | | 28 W | 0421 | 2.1 | 64 | |
| | 0728 | -0.2 | -6 | | | 0714 | -0.1 | -3 | | | 0848 | 0.1 | 3 | | | 0840 | 0.0 | 0 | | | 1006 | 0.4 | 12 | | | 1035 | 0.4 | 12 | |
| | 1514 | 2.3 | 70 | | | 1455 | 2.2 | 67 | | | 1554 | 2.0 | 61 | | | 1529 | 2.1 | 64 | | | 1602 | 1.5 | 46 | | | 1559 | 1.4 | 43 | |
| | 2227 | 0.4 | 12 | | | 2153 | 0.4 | 12 | | | 2226 | 0.3 | 9 | | | 2153 | 0.2 | 6 | | | | | | | | | | | |

Nawiliwili, Kauai Island, Hawaii, 2011

Times and Heights of High and Low Waters

| October | | | | November | | | | December | | | | | | | | | | | | | | | | | | | | | |
|-----------------|--------|-----|----|----------|-----------------|------|------|----------|--------|-----------------|------|------|--------|----|-----------------|------|------|----|----|-----------------|------|------|----|--|-----------------|------|------|-----|--|
| Time | Height | | | Time | Height | | | Time | Height | | | Time | Height | | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | |
| 1 Sa | 0705 | 2.1 | 64 | | 16 Su | 0626 | 1.9 | 58 | | 1 Tu | 0029 | 0.3 | 9 | | 16 W | 0738 | 1.9 | 58 | | 1 Th | 0104 | 0.6 | 18 | | 16 F | 0030 | 0.5 | 15 | |
| | 1419 | 0.7 | 21 | | | 1348 | 0.7 | 21 | | | 0840 | 1.9 | 58 | | | 1529 | 0.5 | 15 | | | 0832 | 1.6 | 49 | | | 0735 | 1.7 | 52 | |
| | 1749 | 0.8 | 24 | | | 1643 | 0.8 | 24 | | | 1642 | 0.5 | 15 | | | 2014 | 0.7 | 21 | | | 1601 | 0.3 | 9 | | | 1500 | 0.2 | 6 | |
| | | | | | | 2315 | 0.3 | 9 | | | 2138 | 0.8 | 24 | | | | | | | | 2239 | 1.0 | 30 | | | 2143 | 1.0 | 30 | |
| 2 Su | 0005 | 0.1 | 3 | | 17 M | 0721 | 1.9 | 58 | | 2 W | 0144 | 0.5 | 15 | | 17 Th | 0039 | 0.5 | 15 | | 2 F | 0234 | 0.8 | 24 | | 17 Sa | 0155 | 0.7 | 21 | |
| | 0815 | 2.0 | 61 | | | | | | | | 0943 | 1.8 | 55 | | | 0831 | 1.8 | 55 | | | 0921 | 1.4 | 43 | | | 0818 | 1.5 | 46 | |
| | 1632 | 0.6 | 18 | | | | | | | | 1724 | 0.4 | 12 | | | 1612 | 0.4 | 12 | | | 1637 | 0.3 | 9 | | | 1541 | 0.1 | 3 | |
| | 1906 | 0.7 | 21 | | | | | | | | 2311 | 0.9 | 27 | | | 2214 | 0.8 | 24 | | | 2348 | 1.2 | 37 | | | 2306 | 1.3 | 40 | |
| 3 M | 0103 | 0.3 | 9 | | 18 Tu | 0000 | 0.4 | 12 | | 3 Th | 0324 | 0.7 | 21 | | 18 F | 0209 | 0.6 | 18 | | 3 Sa | 0435 | 0.9 | 27 | | 18 Su | 0355 | 0.9 | 27 | |
| | 0930 | 1.9 | 58 | | | 0826 | 1.8 | 55 | | | 1041 | 1.6 | 49 | | | 0926 | 1.7 | 52 | | | 1010 | 1.2 | 37 | | | 0908 | 1.3 | 40 | |
| | 1758 | 0.6 | 18 | | | 1716 | 0.6 | 18 | | | 1754 | 0.4 | 12 | | | 1648 | 0.3 | 9 | | | 1707 | 0.2 | 6 | | | 1622 | 0.0 | 0 | |
| | 2138 | 0.7 | 21 | | | 1928 | 0.7 | 21 | | | | | | | 2329 | 1.1 | 34 | | | | | | | | | | | | |
| 4 Tu | 0223 | 0.4 | 12 | | 19 W | 0108 | 0.5 | 15 | | 4 F | 0012 | 1.1 | 34 | | 19 Sa | 0358 | 0.8 | 24 | | 4 Su | 0036 | 1.4 | 43 | | 19 M | 0007 | 1.6 | 49 | |
| | 1042 | 1.9 | 58 | | | 0934 | 1.8 | 55 | | | 0504 | 0.7 | 21 | | | 1022 | 1.5 | 46 | | | 0632 | 0.9 | 27 | | | 0607 | 0.9 | 27 | |
| | 1834 | 0.5 | 15 | | | 1738 | 0.6 | 18 | | | 1130 | 1.5 | 46 | | | 1721 | 0.1 | 3 | | | 1100 | 1.1 | 34 | | | 1009 | 1.0 | 30 | |
| | 2320 | 0.8 | 24 | | | 2228 | 0.7 | 21 | | | 1818 | 0.3 | 9 | | | | | | | | 1736 | 0.1 | 3 | | | 1705 | -0.1 | -3 | |
| 5 W | 0400 | 0.5 | 15 | | 20 Th | 0242 | 0.5 | 15 | | 5 Sa | 0057 | 1.4 | 43 | | 20 Su | 0022 | 1.4 | 43 | | 5 M | 0115 | 1.7 | 52 | | 20 Tu | 0057 | 1.9 | 58 | |
| | 1141 | 1.8 | 55 | | | 1036 | 1.8 | 55 | | | 0625 | 0.7 | 21 | | | 0541 | 0.8 | 24 | | | 0755 | 0.8 | 24 | | | 0749 | 0.7 | 21 | |
| | 1900 | 0.5 | 15 | | | 1759 | 0.5 | 15 | | | 1212 | 1.4 | 43 | | | 1115 | 1.4 | 43 | | | 1147 | 1.0 | 30 | | | 1118 | 0.9 | 27 | |
| | | | | | | 2341 | 0.9 | 27 | | | 1839 | 0.2 | 6 | | | 1754 | 0.0 | 0 | | | 1805 | 0.1 | 3 | | | 1749 | -0.2 | -6 | |
| 6 Th | 0023 | 1.0 | 30 | | 21 F | 0418 | 0.6 | 18 | | 6 Su | 0133 | 1.6 | 49 | | 21 M | 0108 | 1.7 | 52 | | 6 Tu | 0149 | 1.8 | 55 | | 21 W | 0143 | 2.1 | 64 | |
| | 0524 | 0.5 | 15 | | | 1128 | 1.8 | 55 | | | 0728 | 0.7 | 21 | | | 0706 | 0.7 | 21 | | | 0849 | 0.7 | 21 | | | 0854 | 0.6 | 18 | |
| | 1228 | 1.8 | 55 | | | 1822 | 0.3 | 9 | | | 1248 | 1.3 | 40 | | | 1206 | 1.2 | 37 | | | 1232 | 0.9 | 27 | | | 1226 | 0.8 | 24 | |
| | 1921 | 0.4 | 12 | | | | | | | | 1859 | 0.2 | 6 | | | 1828 | -0.1 | -3 | | | 1835 | 0.0 | 0 | | | 1834 | -0.3 | -9 | |
| 7 F | 0108 | 1.2 | 37 | | 22 Sa | 0032 | 1.2 | 37 | | 7 M | 0206 | 1.8 | 55 | | 22 Tu | 0151 | 2.0 | 61 | | 7 W | 0221 | 2.0 | 61 | | 22 Th | 0226 | 2.3 | 70 | |
| | 0629 | 0.5 | 15 | | | 0541 | 0.6 | 18 | | | 0819 | 0.7 | 21 | | | 0817 | 0.6 | 18 | | | 0929 | 0.6 | 18 | | | 0941 | 0.5 | 15 | |
| | 1307 | 1.7 | 52 | | | 1213 | 1.7 | 52 | | | 1320 | 1.2 | 37 | | | 1254 | 1.1 | 34 | | | 1312 | 0.8 | 24 | | | 1325 | 0.7 | 21 | |
| | 1938 | 0.3 | 9 | | | 1848 | 0.2 | 6 | | | 1920 | 0.1 | 3 | | | 1903 | -0.2 | -6 | | | 1906 | 0.0 | 0 | | | 1919 | -0.3 | -9 | |
| 8 Sa | 0146 | 1.4 | 43 | | 23 Su | 0116 | 1.5 | 46 | | 8 Tu | 0237 | 1.9 | 58 | | 23 W | 0234 | 2.3 | 70 | | 8 Th | 0253 | 2.1 | 64 | | 23 F | 0308 | 2.4 | 73 | |
| | 0721 | 0.5 | 15 | | | 0652 | 0.5 | 15 | | | 0904 | 0.6 | 18 | | | 0918 | 0.5 | 15 | | | 1002 | 0.6 | 18 | | | 1021 | 0.4 | 12 | |
| | 1339 | 1.6 | 49 | | | 1255 | 1.6 | 49 | | | 1350 | 1.1 | 34 | | | 1341 | 1.0 | 30 | | | 1349 | 0.8 | 24 | | | 1419 | 0.7 | 21 | |
| | 1955 | 0.3 | 9 | | | 1915 | 0.1 | 3 | | | 1944 | 0.0 | 0 | | | 1941 | -0.3 | -9 | | | 1940 | -0.1 | -3 | | | 2004 | -0.4 | -12 | |
| 9 Su | 0219 | 1.6 | 49 | | 24 M | 0159 | 1.8 | 55 | | 9 W | 0307 | 2.0 | 61 | | 24 Th | 0316 | 2.4 | 73 | | 9 F | 0325 | 2.2 | 67 | | 24 Sa | 0349 | 2.5 | 76 | |
| | 0807 | 0.5 | 15 | | | 0755 | 0.5 | 15 | | | 0946 | 0.6 | 18 | | | 1012 | 0.5 | 15 | | | 1033 | 0.5 | 15 | | | 1059 | 0.4 | 12 | |
| | 1407 | 1.5 | 46 | | | 1334 | 1.5 | 46 | | | 1418 | 1.0 | 30 | | | 1427 | 0.9 | 27 | | | 1425 | 0.7 | 21 | | | 1508 | 0.7 | 21 | |
| | 2013 | 0.2 | 6 | | | 1944 | -0.1 | -3 | | | 2010 | 0.0 | 0 | | | 2020 | -0.3 | -9 | | | 2014 | -0.1 | -3 | | | 2049 | -0.3 | -9 | |
| 10 M | 0251 | 1.7 | 52 | | 25 Tu | 0241 | 2.1 | 64 | | 10 Th | 0338 | 2.1 | 64 | | 25 F | 0359 | 2.5 | 76 | | 10 Sa | 0358 | 2.2 | 67 | | 25 Su | 0428 | 2.4 | 73 | |
| | 0850 | 0.5 | 15 | | | 0855 | 0.4 | 12 | | | 1025 | 0.6 | 18 | | | 1104 | 0.4 | 12 | | | 1105 | 0.5 | 15 | | | 1134 | 0.3 | 9 | |
| | 1433 | 1.4 | 43 | | | 1413 | 1.3 | 40 | | | 1446 | 0.9 | 27 | | | 1512 | 0.8 | 24 | | | 1501 | 0.7 | 21 | | | 1557 | 0.7 | 21 | |
| | 2032 | 0.2 | 6 | | | 2016 | -0.2 | -6 | | | 2038 | 0.0 | 0 | | | 2101 | -0.3 | -9 | | | 2050 | -0.1 | -3 | | | 2132 | -0.2 | -6 | |
| 11 Tu | 0322 | 1.8 | 55 | | 26 W | 0325 | 2.3 | 70 | | 11 F | 0411 | 2.2 | 67 | | 26 Sa | 0443 | 2.5 | 76 | | 11 Su | 0431 | 2.2 | 67 | | 26 M | 0506 | 2.3 | 70 | |
| | 0931 | 0.5 | 15 | | | 0953 | 0.4 | 12 | | | 1106 | 0.6 | 18 | | | 1154 | 0.4 | 12 | | | 1139 | 0.5 | 15 | | | 1210 | 0.3 | 9 | |
| | 1457 | 1.3 | 40 | | | 1451 | 1.2 | 37 | | | 1514 | 0.9 | 27 | | | 1600 | 0.8 | 24 | | | 1540 | 0.7 | 21 | | | 1647 | 0.8 | 24 | |
| | 2053 | 0.1 | 3 | | | 2050 | -0.2 | -6 | | | 2108 | 0.0 | 0 | | | 2143 | -0.2 | -6 | | | 2126 | -0.1 | -3 | | | 2214 | -0.1 | -3 | |
| 12 W | 0353 | 1.9 | 58 | | 27 Th | 0410 | 2.4 | 73 | | 12 Sa | 0445 | 2.2 | 67 | | 27 Su | 0528 | 2.4 | 73 | | 12 M | 0506 | 2.2 | 67 | | 27 Tu | 0543 | 2.1 | 64 | |
| | 1013 | 0.5 | 15 | | | 1051 | 0.5 | 15 | | | 1149 | 0.6 | 18 | | | 1245 | 0.4 | 12 | | | 1216 | 0.4 | 12 | | | 1245 | 0.3 | 9 | |
| | 1520 | 1.2 | 37 | | | 1530 | 1.0 | 30 | | | 1544 | 0.8 | 24 | | | 1653 | 0.7 | 21 | | | 1624 | 0.7 | 21 | | | 1743 | 0.8 | 24 | |
| | 2116 | 0.1 | 3 | | | 2126 | -0.2 | -6 | | | 2140 | 0.0 | 0 | | | 2226 | -0.1 | -3 | | | 2204 | 0.0 | 0 | | | 2257 | 0.1 | 3 | |
| 13 Th | 0426 | 2.0 | 61 | | 28 F | 0456 | 2.4 | 73 | | 13 Su | 0523 | 2.1 | 64 | | 28 M | 0613 | 2.2 | 67 | | 13 Tu | 0541 | 2.2 | 67 | | 28 W | 0618 | 1.9 | 58 | |
| | 1056 | 0.6 | 18 | | | 1152 | 0.5 | 15 | | | 1238 | 0.6 | 18 | | | | | | | | | | | | | | | | |

Honolulu, Oahu Island, Hawaii, 2011

Times and Heights of High and Low Waters

| January | | | | February | | | | March | | | | | | | | | | | | | | | |
|-----------------|------|--------|----|-----------------|------|--------|-----|-----------------|------|--------|----|-----------------|--------|--------|----|-----------------|------|------|----|-----------------|------|------|-----|
| Time | | Height | | Time | | Height | | Time | | Height | | Time | | Height | | | | | | | | | |
| | h m | ft | cm | | h m | ft | cm | | h m | ft | cm | | h m | ft | cm | | | | | | | | |
| 1 Sa | 0222 | 2.4 | 73 | 16 Su | 0204 | 2.2 | 67 | 1 Tu | 0322 | 2.2 | 67 | 16 W | 0222 | 1.9 | 58 | 16 W | 0140 | 2.0 | 61 | | | | |
| | 0944 | 0.3 | 9 | | 0926 | 0.3 | 9 | | 1023 | 0.1 | 3 | | 0947 | -0.1 | -3 | | 0829 | -0.1 | -3 | | | | |
| | 1352 | 0.6 | 18 | | 1326 | 0.6 | 18 | | 1521 | 0.8 | 24 | | 1458 | 0.9 | 27 | | 1435 | 0.9 | 27 | 1402 | 1.0 | 30 | |
| | 1926 | -0.3 | -9 | | 1905 | -0.3 | -9 | | 2047 | -0.2 | -6 | | 2034 | -0.3 | -9 | | 2004 | -0.1 | -3 | 1939 | -0.2 | -6 | |
| 2 Su | 0302 | 2.4 | 73 | 17 M | 0242 | 2.3 | 70 | 2 W | 0354 | 2.1 | 64 | 17 Th | 0332 | 2.3 | 70 | 2 W | 0254 | 1.8 | 55 | 17 Th | 0221 | 2.0 | 61 |
| | 1021 | 0.2 | 6 | | 0957 | 0.2 | 6 | | 1048 | 0.0 | 0 | | 1016 | -0.2 | -6 | | 0937 | 0.0 | 0 | | 0857 | -0.2 | -6 |
| | 1443 | 0.6 | 18 | | 1417 | 0.6 | 18 | | 1557 | 0.9 | 27 | | 1544 | 1.1 | 34 | | 1508 | 1.0 | 30 | | 1447 | 1.3 | 40 |
| | 2009 | -0.2 | -6 | | 1951 | -0.3 | -9 | | 2126 | -0.1 | -3 | | 2125 | -0.3 | -9 | | 2045 | -0.1 | -3 | | 2035 | -0.2 | -6 |
| 3 M | 0340 | 2.4 | 73 | 18 Tu | 0320 | 2.4 | 73 | 3 Th | 0423 | 2.0 | 61 | 18 F | 0409 | 2.2 | 67 | 3 Th | 0323 | 1.8 | 55 | 18 F | 0300 | 1.9 | 58 |
| | 1056 | 0.1 | 3 | | 1028 | 0.1 | 3 | | 1111 | 0.0 | 0 | | 1046 | -0.2 | -6 | | 0957 | 0.0 | 0 | | 0926 | -0.3 | -9 |
| | 1528 | 0.7 | 21 | | 1505 | 0.7 | 21 | | 1634 | 1.0 | 30 | | 1632 | 1.3 | 40 | | 1540 | 1.2 | 37 | | 1532 | 1.5 | 46 |
| | 2050 | -0.2 | -6 | | 2037 | -0.4 | -12 | | 2204 | 0.0 | 0 | | 2217 | -0.2 | -6 | | 2124 | 0.0 | 0 | | 2130 | -0.2 | -6 |
| 4 Tu | 0416 | 2.4 | 73 | 19 W | 0358 | 2.5 | 76 | 4 F | 0451 | 1.9 | 58 | 19 Sa | 0446 | 2.0 | 61 | 4 F | 0350 | 1.7 | 52 | 19 Sa | 0339 | 1.7 | 52 |
| | 1128 | 0.1 | 3 | | 1100 | 0.0 | 0 | | 1135 | 0.0 | 0 | | 1118 | -0.3 | -9 | | 1017 | -0.1 | -3 | | 0956 | -0.4 | -12 |
| | 1611 | 0.7 | 21 | | 1554 | 0.8 | 24 | | 1712 | 1.1 | 34 | | 1722 | 1.5 | 46 | | 1613 | 1.3 | 40 | | 1617 | 1.8 | 55 |
| | 2130 | -0.2 | -6 | | 2124 | -0.3 | -9 | | 2243 | 0.1 | 3 | | 2313 | 0.0 | 0 | | 2202 | 0.0 | 0 | | 2226 | -0.1 | -3 |
| 5 W | 0450 | 2.3 | 70 | 20 Th | 0435 | 2.4 | 73 | 5 Sa | 0518 | 1.8 | 55 | 20 Su | 0523 | 1.7 | 52 | 5 Sa | 0416 | 1.6 | 49 | 20 Su | 0418 | 1.5 | 46 |
| | 1159 | 0.1 | 3 | | 1134 | -0.1 | -3 | | 1159 | 0.0 | 0 | | 1150 | -0.3 | -9 | | 1037 | -0.1 | -3 | | 1027 | -0.4 | -12 |
| | 1654 | 0.8 | 24 | | 1644 | 0.9 | 27 | | 1753 | 1.1 | 34 | | 1815 | 1.6 | 49 | | 1646 | 1.4 | 43 | | 1704 | 1.9 | 58 |
| | 2209 | 0.0 | 0 | | 2212 | -0.2 | -6 | | 2324 | 0.2 | 6 | | 2324 | 0.2 | 6 | | 2242 | 0.1 | 3 | | 2325 | 0.0 | 0 |
| 6 Th | 0522 | 2.2 | 67 | 21 F | 0513 | 2.3 | 70 | 6 Su | 0544 | 1.6 | 49 | 21 M | 0015 | 0.2 | 6 | 6 Su | 0442 | 1.4 | 43 | 21 M | 0457 | 1.2 | 37 |
| | 1230 | 0.1 | 3 | | 1208 | -0.1 | -3 | | 1224 | 0.0 | 0 | | 0601 | 1.4 | 43 | | 1059 | -0.1 | -3 | | 1100 | -0.4 | -12 |
| | 1739 | 0.8 | 24 | | 1738 | 1.0 | 30 | | 1837 | 1.2 | 37 | | 1225 | -0.3 | -9 | | 1721 | 1.5 | 46 | | 1753 | 2.0 | 61 |
| | 2248 | 0.1 | 3 | | 2304 | -0.1 | -3 | | 0011 | 0.4 | 12 | | 0011 | 0.4 | 12 | | 0508 | 1.3 | 40 | | 0029 | 0.1 | 3 |
| 7 F | 0554 | 2.0 | 61 | 22 Sa | 0551 | 2.1 | 64 | 7 M | 0610 | 1.4 | 43 | 22 Tu | 0640 | 1.1 | 34 | 7 M | 1122 | -0.1 | -3 | 22 Tu | 0538 | 1.0 | 30 |
| | 1301 | 0.1 | 3 | | 1243 | -0.2 | -6 | | 1250 | 0.0 | 0 | | 1303 | -0.2 | -6 | | 1800 | 1.5 | 46 | | 1135 | -0.3 | -9 |
| | 1828 | 0.9 | 27 | | 1837 | 1.2 | 37 | | 1927 | 1.3 | 40 | | 2020 | 1.7 | 52 | | 1800 | 1.5 | 46 | | 1847 | 2.0 | 61 |
| | 2330 | 0.3 | 9 | | 0002 | 0.2 | 6 | | 0108 | 0.6 | 18 | | 0303 | 0.5 | 15 | | 0012 | 0.3 | 9 | | 0142 | 0.2 | 6 |
| 8 Sa | 0625 | 1.8 | 55 | 23 Su | 0629 | 1.8 | 55 | 8 Tu | 0636 | 1.2 | 37 | 23 W | 0724 | 0.8 | 24 | 8 Tu | 0535 | 1.1 | 34 | 23 W | 0623 | 0.7 | 21 |
| | 1332 | 0.1 | 3 | | 1319 | -0.2 | -6 | | 1319 | 0.0 | 0 | | 1347 | -0.1 | -3 | | 1146 | -0.1 | -3 | | 1214 | -0.2 | -6 |
| | 1924 | 1.0 | 30 | | 1943 | 1.3 | 40 | | 2027 | 1.3 | 40 | | 2135 | 1.7 | 52 | | 1843 | 1.5 | 46 | | 1946 | 1.9 | 58 |
| | 0018 | 0.5 | 15 | | 0112 | 0.4 | 12 | | 0228 | 0.7 | 21 | | 0510 | 0.5 | 15 | | 0108 | 0.4 | 12 | | 0311 | 0.3 | 9 |
| 9 Su | 0655 | 1.6 | 49 | 24 M | 0707 | 1.5 | 46 | 9 W | 0701 | 1.0 | 30 | 24 Th | 0830 | 0.6 | 18 | 9 W | 0602 | 0.9 | 27 | 24 Th | 0720 | 0.5 | 15 |
| | 1404 | 0.1 | 3 | | 1358 | -0.2 | -6 | | 1354 | 0.0 | 0 | | 1444 | 0.0 | 0 | | 1214 | 0.0 | 0 | | 1300 | -0.1 | -3 |
| | 2029 | 1.1 | 34 | | 2057 | 1.5 | 46 | | 2138 | 1.4 | 43 | | 2253 | 1.8 | 55 | | 1934 | 1.5 | 46 | | 2055 | 1.8 | 55 |
| | 0119 | 0.7 | 21 | | 0246 | 0.6 | 18 | | 0438 | 0.7 | 21 | | 0655 | 0.3 | 9 | | 0224 | 0.5 | 15 | | 0452 | 0.3 | 9 |
| 10 M | 0725 | 1.4 | 43 | 25 Tu | 0749 | 1.2 | 37 | 10 Th | 0730 | 0.8 | 24 | 25 F | 1024 | 0.5 | 15 | 10 Th | 0632 | 0.7 | 21 | 25 F | 0852 | 0.4 | 12 |
| | 1437 | 0.1 | 3 | | 1442 | -0.1 | -3 | | 1439 | 0.0 | 0 | | 1558 | 0.0 | 0 | | 1249 | 0.0 | 0 | | 1402 | 0.1 | 3 |
| | 2142 | 1.2 | 37 | | 2215 | 1.6 | 49 | | 2253 | 1.5 | 46 | | 0003 | 1.8 | 55 | | 2037 | 1.5 | 46 | | 2209 | 1.7 | 52 |
| | 0250 | 0.8 | 24 | | 0455 | 0.7 | 21 | | 1539 | 0.0 | 0 | | 0749 | 0.2 | 6 | | 0417 | 0.5 | 15 | | 0611 | 0.2 | 6 |
| 11 Tu | 0756 | 1.2 | 37 | 26 W | 0842 | 0.9 | 27 | 11 F | 2357 | 1.7 | 52 | 26 Sa | 1208 | 0.5 | 15 | 11 F | 0714 | 0.6 | 18 | 26 Sa | 1052 | 0.5 | 15 |
| | 1513 | 0.1 | 3 | | 1532 | -0.1 | -3 | | 0003 | 1.8 | 55 | | 1718 | 0.0 | 0 | | 1336 | 0.0 | 0 | | 1530 | 0.2 | 6 |
| | 2253 | 1.4 | 43 | | 2329 | 1.8 | 55 | | 0757 | 0.4 | 12 | | 0824 | 0.1 | 3 | | 2152 | 1.6 | 49 | | 2320 | 1.7 | 52 |
| | 0504 | 0.9 | 27 | | 0702 | 0.6 | 18 | | 1050 | 0.5 | 15 | | 0100 | 1.9 | 58 | | 0611 | 0.3 | 9 | | 0659 | 0.1 | 3 |
| 12 W | 0835 | 1.0 | 30 | 27 Th | 1004 | 0.7 | 21 | 12 Sa | 1648 | 0.0 | 0 | 27 Su | 1313 | 0.6 | 18 | 12 Sa | 0853 | 0.4 | 12 | 27 Su | 1217 | 0.6 | 18 |
| | 1553 | 0.1 | 3 | | 1630 | -0.1 | -3 | | 0049 | 1.9 | 58 | | 1825 | 0.0 | 0 | | 2304 | 1.7 | 52 | | 1702 | 0.2 | 6 |
| | 2352 | 1.6 | 49 | | 0032 | 2.0 | 61 | | 0825 | 0.3 | 9 | | 0145 | 1.9 | 58 | | 0702 | 0.3 | 9 | | 0019 | 1.6 | 49 |
| | 0711 | 0.7 | 21 | | 0814 | 0.4 | 12 | | 1219 | 0.5 | 15 | | 0852 | 0.1 | 3 | | 1059 | 0.4 | 12 | | 0733 | 0.0 | 0 |
| 13 Th | 0940 | 0.8 | 24 | 28 F | 1145 | 0.5 | 15 | 13 Su | 1219 | 0.5 | 15 | 28 M | 1358 | 0.7 | 21 | 13 Su | 1613 | 0.1 | 3 | 28 M | 1309 | 0.8 | 24 |
| | 1639 | 0.0 | 0 | | 1731 | -0.1 | -3 | | 1752 | -0.1 | -3 | | 1919 | 0.0 | 0 | | 1613 | 0.1 | 3 | | 1816 | 0.2 | 6 |
| | 0041 | 1.8 | 55 | | 0124 | 2.1 | 64 | | 0134 | 2.0 | 61 | | 0145 | 1.9 | 58 | | 0005 | 1.8 | 55 | | 0105 | 1.6 | 49 |
| | 0817 | 0.6 | 18 | | 0857 | 0.2 | 6 | | 0852 | 0.2 | 6 | | 0824 | 0.1 | 3 | | 0734 | 0.1 | 3 | | 0759 | 0.0 | 0 |
| 14 F | 1110 | 0.7 | 21 | 29 Sa | 1302 | 0.5 | 15 | 14 M | 1320 | 0.6 | 18 | 29 Tu | 1219 | 0.6 | 18 | 14 M | 1219 | 0.6 | 18 | 29 Tu | 1347 | 0.9 | 27 |
| | 1728 | -0.1 | -3 | | 1829 | -0.1 | -3 | | 1850 | -0.2 | -6 | | 1850 | -0.2 | -6 | | 1732 | 0.0 | 0 | | 1913 | 0.2 | 6 |
| | 0124 | 2.0 | 61 | | 0209 | 2.1 | 64 | | 0215 | 2.2 | 67 | | 0055 | 1.9 | 58 | | 0055 | 1.9 | 58 | | 0143 | 1.6 | 49 |
| | 0854 | 0.4 | 12 | | 0929 | 0.1 | 3 | | 0919 | 0.0 | 0 | | 0802 | 0.0 | 0 | | 0802 | 0.0 | 0 | | 0821 | 0.0 | 0 |
| 15 Sa | 1226 | 0.6 | 18 | 30 Su | 1358 | 0.6 | 18 | 15 Tu | 1410 | 0.7 | 21 | 30 W | 1314 | 0.8 | 24 | 15 Tu | 1314 | 0.8 | 24 | 30 W | 1420 | 1.1 | 34 |
| | 1817 | -0.2 | -6 | | 1921 | -0.2 | -6 | | 1943 | -0.3 | -9 | | 1839 | -0.1 | -3 | | 1839 | -0.1 | -3 | | 2001 | 0.1 | 3 |
| | 0248 | 2.2 | 67 | | 0248 | 2.2 | 67 | | 0215 | 2.2 | 67 | | 0215 | 2.2 | 67 | | 0215 | 2.2 | 67 | | 0215 | 2.2 | 67 |
| | 0958 | 0.1 | 3 | | 0958 | 0.1 | 3 | | 0958 | 0.1 | 3 | | 0958 | 0.1 | 3 | | 0958 | 0.1 | 3 | | 0958 | 0.1 | 3 |
| 16 Su | 1442 | 0.7 | 21 | 31 M | 2006 | -0.2 | -6 | 16 Su | 2006 | -0.2 | -6 | 31 Th | 2044 | 0.1 | 3 | 31 Th | 2044 | 0.1 | 3 | 31 Th | 2044 | 0.1 | 3 |
| | 0958 | 0.1 | 3 | | 0958 | 0.1 | 3 | | 0958 | 0.1 | 3 | | 0958</ | | | | | | | | | | |

Honolulu, Oahu Island, Hawaii, 2011

Times and Heights of High and Low Waters

| April | | | | May | | | | June | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|--------|------|----|------|-----------------|------|------|------|--------|-----------------|------|------|--------|----|-----------------|------|------|-----|----|-----------------|------|------|-----|--|-----------------|------|------|----|--|-----------------|------|-----|----|--|
| Time | Height | | | Time | Height | | | Time | Height | | | Time | Height | | | | | | | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | | | | | | |
| 1 F | 0244 | 1.4 | 43 | | 16 Sa | 0225 | 1.4 | 43 | | 1 Su | 0232 | 1.0 | 30 | | 16 M | 0240 | 0.8 | 24 | | 1 W | 0313 | 0.6 | 18 | | 16 Th | 0407 | 0.6 | 18 | | | | | | |
| | 0900 | -0.1 | -3 | | | 0836 | -0.4 | -12 | | | 0826 | -0.2 | -6 | | | 0828 | -0.5 | -15 | | | 0847 | -0.3 | -9 | | | 0927 | -0.3 | -9 | | | | | | |
| | 1521 | 1.5 | 46 | | | 1518 | 2.0 | 61 | | | 1530 | 1.9 | 58 | | | 1548 | 2.4 | 73 | | | 1620 | 2.3 | 70 | | | 1658 | 2.4 | 73 | | | | | | |
| | 2125 | 0.1 | 3 | | | 2141 | 0.0 | 0 | | | 2212 | 0.2 | 6 | | | 2251 | 0.0 | 0 | | | 2338 | 0.1 | 3 | | | | | | | | | | | |
| 2 Sa | 0312 | 1.3 | 40 | | 17 Su | 0308 | 1.2 | 37 | | 2 M | 0304 | 0.9 | 27 | | 17 Tu | 0329 | 0.7 | 21 | | 2 Th | 0355 | 0.6 | 18 | | 17 F | 0419 | 0.0 | 0 | | 17 Sa | 0459 | 0.6 | 18 | |
| | 0920 | -0.1 | -3 | | | 0908 | -0.4 | -12 | | | 0851 | -0.2 | -6 | | | 0906 | -0.4 | -12 | | | 0922 | -0.3 | -9 | | | 1009 | -0.2 | -6 | | | | | | |
| | 1551 | 1.6 | 49 | | | 1602 | 2.2 | 67 | | | 1602 | 2.0 | 61 | | | 1631 | 2.5 | 76 | | | 1657 | 2.3 | 70 | | | 1738 | 2.3 | 70 | | | | | | |
| | 2205 | 0.1 | 3 | | | 2239 | 0.0 | 0 | | | 2254 | 0.2 | 6 | | | 2345 | 0.0 | 0 | | | | | | | | | | | | | | | | |
| 3 Su | 0340 | 1.2 | 37 | | 18 M | 0351 | 1.0 | 30 | | 3 Tu | 0337 | 0.8 | 24 | | 18 W | 0418 | 0.6 | 18 | | 3 F | 0441 | 0.5 | 15 | | 18 Sa | 0553 | 0.6 | 18 | | | | | | |
| | 0941 | -0.2 | -6 | | | 0942 | -0.5 | -15 | | | 0918 | -0.2 | -6 | | | 0945 | -0.4 | -12 | | | 1000 | -0.2 | -6 | | | 1053 | 0.0 | 0 | | | | | | |
| | 1622 | 1.7 | 52 | | | 1647 | 2.3 | 70 | | | 1636 | 2.0 | 61 | | | 1716 | 2.4 | 73 | | | 1737 | 2.3 | 70 | | | 1817 | 2.1 | 64 | | | | | | |
| | 2247 | 0.2 | 6 | | | 2338 | 0.0 | 0 | | | 2339 | 0.2 | 6 | | | | | | | | | | | | | | | | | | | | | |
| 4 M | 0408 | 1.1 | 34 | | 19 Tu | 0435 | 0.8 | 24 | | 4 W | 0412 | 0.7 | 21 | | 19 Th | 0511 | 0.5 | 15 | | 4 Sa | 0652 | 0.7 | 21 | | | | | | | | | | | |
| | 1004 | -0.2 | -6 | | | 1017 | -0.4 | -12 | | | 0948 | -0.2 | -6 | | | 1026 | -0.3 | -9 | | | 1042 | -0.1 | -3 | | 1139 | 0.2 | 6 | | | | | | | |
| | 1656 | 1.8 | 55 | | | 1733 | 2.3 | 70 | | | 1713 | 2.1 | 64 | | | 1801 | 2.3 | 70 | | | 1818 | 2.2 | 67 | | 1855 | 2.0 | 61 | | | | | | | |
| | 2330 | 0.2 | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 Tu | 0437 | 0.9 | 27 | | 20 W | 0039 | 0.0 | 0 | | 5 Th | 0026 | 0.2 | 6 | | 20 F | 0133 | 0.0 | 0 | | 5 Su | 0637 | 0.5 | 15 | | 20 M | 0759 | 0.8 | 24 | | | | | | |
| | 1028 | -0.2 | -6 | | | 0522 | 0.7 | 21 | | | 0451 | 0.6 | 18 | | | 0609 | 0.5 | 15 | | | 1129 | 0.0 | 0 | | | 1231 | 0.4 | 12 | | | | | | |
| | 1732 | 1.8 | 55 | | | 1055 | -0.3 | -9 | | | 1020 | -0.2 | -6 | | | 1110 | -0.1 | -3 | | | 1901 | 2.1 | 64 | | | 1932 | 1.7 | 52 | | | | | | |
| | | | | | | 1823 | 2.2 | 67 | | | 1753 | 2.0 | 61 | | | 1848 | 2.1 | 64 | | | | | | | | | | | | | | | | |
| 6 W | 0019 | 0.2 | 6 | | 21 Th | 0146 | 0.1 | 3 | | 6 F | 0120 | 0.2 | 6 | | 21 Sa | 0227 | 0.0 | 0 | | 6 M | 0753 | 0.6 | 18 | | 21 Tu | 0914 | 0.9 | 27 | | | | | | |
| | 0508 | 0.8 | 24 | | | 0616 | 0.5 | 15 | | | 0535 | 0.5 | 15 | | | 0719 | 0.5 | 15 | | | 1227 | 0.2 | 6 | | | 1338 | 0.6 | 18 | | | | | | |
| | 1055 | -0.1 | -3 | | | 1136 | -0.2 | -6 | | | 1055 | -0.1 | -3 | | | 1157 | 0.1 | 3 | | | 1947 | 1.9 | 58 | | | 2010 | 1.5 | 46 | | | | | | |
| | 1813 | 1.8 | 55 | | | 1917 | 2.0 | 61 | | | 1838 | 2.0 | 61 | | | 1936 | 1.9 | 58 | | | | | | | | | | | | | | | | |
| 7 Th | 0116 | 0.3 | 9 | | 22 F | 0259 | 0.1 | 3 | | 7 Sa | 0218 | 0.1 | 3 | | 22 Su | 0319 | 0.0 | 0 | | 7 Tu | 0317 | -0.1 | -3 | | 22 W | 0332 | 0.1 | 3 | | | | | | |
| | 0542 | 0.6 | 18 | | | 0726 | 0.4 | 12 | | | 0634 | 0.4 | 12 | | | 0843 | 0.6 | 18 | | | 0916 | 0.8 | 24 | | | 1027 | 1.1 | 34 | | | | | | |
| | 1126 | -0.1 | -3 | | | 1223 | 0.0 | 0 | | | 1137 | 0.0 | 0 | | | 1255 | 0.3 | 9 | | | 1344 | 0.4 | 12 | | | 1511 | 0.8 | 24 | | | | | | |
| | 1900 | 1.8 | 55 | | | 2015 | 1.9 | 58 | | | 1928 | 1.9 | 58 | | | 2025 | 1.7 | 52 | | | 2035 | 1.7 | 52 | | | 2049 | 1.3 | 40 | | | | | | |
| 8 F | 0227 | 0.3 | 9 | | 23 Sa | 0411 | 0.1 | 3 | | 8 Su | 0318 | 0.1 | 3 | | 23 M | 0407 | 0.0 | 0 | | 8 W | 0358 | -0.1 | -3 | | 23 Th | 0406 | 0.1 | 3 | | | | | | |
| | 0625 | 0.5 | 15 | | | 0904 | 0.4 | 12 | | | 0754 | 0.4 | 12 | | | 1012 | 0.7 | 21 | | | 1035 | 1.1 | 34 | | | 1129 | 1.3 | 40 | | | | | | |
| | 1203 | 0.0 | 0 | | | 1326 | 0.2 | 6 | | | 1231 | 0.1 | 3 | | | 1413 | 0.5 | 15 | | | 1525 | 0.6 | 18 | | | 1705 | 0.8 | 24 | | | | | | |
| | 1957 | 1.7 | 52 | | | 2119 | 1.7 | 52 | | | 2022 | 1.9 | 58 | | | 2115 | 1.5 | 46 | | | 2127 | 1.5 | 46 | | | 2134 | 1.1 | 34 | | | | | | |
| 9 Sa | 0352 | 0.3 | 9 | | 24 Su | 0512 | 0.1 | 3 | | 9 M | 0412 | 0.0 | 0 | | 24 Tu | 0447 | 0.0 | 0 | | 9 Th | 0437 | -0.2 | -6 | | 24 F | 0441 | 0.0 | 0 | | | | | | |
| | 0734 | 0.4 | 12 | | | 1048 | 0.6 | 18 | | | 0932 | 0.5 | 15 | | | 1125 | 0.9 | 27 | | | 1140 | 1.4 | 43 | | | 1218 | 1.5 | 46 | | | | | | |
| | 1253 | 0.0 | 0 | | | 1455 | 0.3 | 9 | | | 1347 | 0.3 | 9 | | | 1553 | 0.6 | 18 | | | 1716 | 0.7 | 21 | | | 1851 | 0.8 | 24 | | | | | | |
| | 2102 | 1.7 | 52 | | | 2222 | 1.6 | 49 | | | 2120 | 1.8 | 55 | | | 2205 | 1.4 | 43 | | | 2224 | 1.3 | 40 | | | 2228 | 0.9 | 27 | | | | | | |
| 10 Su | 0508 | 0.2 | 6 | | 25 M | 0557 | 0.0 | 0 | | 10 Tu | 0456 | 0.0 | 0 | | 25 W | 0521 | 0.0 | 0 | | 10 F | 0516 | -0.3 | -9 | | 25 Sa | 0515 | 0.0 | 0 | | | | | | |
| | 0924 | 0.4 | 12 | | | 1201 | 0.7 | 21 | | | 1057 | 0.8 | 24 | | | 1217 | 1.2 | 37 | | | 1235 | 1.8 | 55 | | | 1300 | 1.7 | 52 | | | | | | |
| | 1408 | 0.1 | 3 | | | 1634 | 0.4 | 12 | | | 1527 | 0.4 | 12 | | | 1733 | 0.7 | 21 | | | 1855 | 0.6 | 18 | | | 2005 | 0.6 | 18 | | | | | | |
| | 2210 | 1.7 | 52 | | | 2319 | 1.5 | 46 | | | 2218 | 1.6 | 49 | | | 2255 | 1.2 | 37 | | | 2325 | 1.0 | 30 | | | 2330 | 0.8 | 24 | | | | | | |
| 11 M | 0558 | 0.1 | 3 | | 26 Tu | 0631 | 0.0 | 0 | | 11 W | 0534 | -0.1 | -3 | | 26 Th | 0550 | 0.0 | 0 | | 11 Sa | 0556 | -0.3 | -9 | | 26 Su | 0552 | -0.1 | -3 | | | | | | |
| | 1106 | 0.5 | 15 | | | 1250 | 1.0 | 30 | | | 1201 | 1.1 | 34 | | | 1258 | 1.4 | 43 | | | 1323 | 2.1 | 64 | | | 1338 | 1.9 | 58 | | | | | | |
| | 1544 | 0.2 | 6 | | | 1758 | 0.4 | 12 | | | 1709 | 0.5 | 15 | | | 1855 | 0.6 | 18 | | | 2013 | 0.4 | 12 | | | 2056 | 0.5 | 15 | | | | | | |
| | 2312 | 1.7 | 52 | | | | | | | | 2315 | 1.5 | 46 | | | 2343 | 1.0 | 30 | | | | | | | | | | | | | | | | |
| 12 Tu | 0634 | 0.0 | 0 | | 27 W | 0008 | 1.4 | 43 | | 12 Th | 0609 | -0.2 | -6 | | 27 F | 0617 | -0.1 | -3 | | 12 Su | 0027 | 0.8 | 24 | | 27 M | 0029 | 0.7 | 21 | | | | | | |
| | 1214 | 0.8 | 24 | | | 0657 | 0.0 | 0 | | | 1252 | 1.4 | 43 | | | 1332 | 1.6 | 49 | | | 0636 | -0.4 | -12 | | | 0630 | -0.1 | -3 | | | | | | |
| | 1716 | 0.2 | 6 | | | 1327 | 1.2 | 37 | | | 1837 | 0.4 | 12 | | | 1959 | 0.5 | 15 | | | 1409 | 2.3 | 70 | | | 1414 | 2.1 | 64 | | | | | | |
| | | | | | | 1904 | 0.4 | 12 | | | | | | | | | | | | | 2115 | 0.3 | 9 | | | 2135 | 0.4 | 12 | | | | | | |
| 13 W | 0007 | 1.7 | 52 | | 28 Th | 0049 | 1.3 | 40 | | 13 F | 0010 | 1.3 | 40 | | 28 Sa | 0028 | 0.9 | 27 | | 13 M | 0127 | 0.7 | 21 | | 28 Tu | 0123 | 0.6 | 18 | | | | | | |
| | 0705 | -0.1 | -3 | | | 0720 | -0.1 | -3 | | | 0642 | -0.3 | -9 | | | 0644 | -0.1 | -3 | | | 0718 | -0.4 | -12 | | | 0709 | -0.2 | -6 | | | | | | |
| | 1305 | 1.1 | 34 | | | 1359 | 1.4 | 43 | | | 1337 | 1.8 | 55 | | | 1405 | 1.8 | 55 | | | 1452 | 2.4 | 73 | | | 1450 | 2.2 | 67 | | | | | | |
| | 1833 | 0.1 | 3 | | | 1958 | 0.4 | 12 | | | 1951 | 0.3 | 9 | | | 2052 | 0.4 | 12 | | | 2207 | 0.2 | 6 | | | 2210 | 0.3 | 9 | | | | | | |
| 14 Th | 0056 | 1.7 | 52 | | 29 F | 0126 | 1.2 | 37 | | 14 Sa | 0101 | 1.2 | 37 | | 29 Su | 0111 | 0.8 | 24 | | 14 Tu | 0223 | 0.6 | 18 | | 29 W | 0211 | 0.6 | 18 | | | | | | |
| | 0735 | -0.2 | -6 | | | 0742 | -0.1 | -3 | | | 0716 | -0.4 | -12 | | | 0712 | -0.2 | -6 | | | 0801 | -0.4 | -12 | | | 0749 | -0.2 | -6 | | | | | | |
| | 1351 | 1.4 | 43 | | | 14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Honolulu, Oahu Island, Hawaii, 2011

Times and Heights of High and Low Waters

| July | | | | August | | | | September | | | | | | | | | | | | | | | | | | | | | |
|-----------------|--------|------|----|--------|-----------------|------|------|-----------|--------|-----------------|------|------|--------|----|-----------------|------|-----|----|----|-----------------|------|-----|----|------|-----------------|------|------|----|--|
| Time | Height | | | Time | Height | | | Time | Height | | | Time | Height | | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | |
| 1 F | 0344 | 0.7 | 21 | | 16 Sa | 0441 | 0.8 | 24 | | 1 M | 0513 | 1.2 | 37 | | 16 Tu | 0538 | 1.4 | 43 | | 1 Th | 0642 | 2.0 | 61 | | 16 F | 0624 | 1.8 | 55 | |
| | 0910 | -0.3 | -9 | | | 1000 | 0.0 | 0 | | | 1043 | 0.1 | 3 | | | 1118 | 0.4 | 12 | | | 1302 | 0.5 | 15 | | | 1303 | 0.6 | 18 | |
| | 1639 | 2.4 | 73 | | | 1709 | 2.2 | 67 | | | 1726 | 2.2 | 67 | | | 1731 | 1.7 | 52 | | | 1815 | 1.3 | 40 | | | 1749 | 1.1 | 34 | |
| | 2353 | 0.1 | 3 | | | | | | | | | | | | | | | | | | | | | | | 2350 | 0.2 | 6 | |
| 2 Sa | 0433 | 0.7 | 21 | | 17 Su | 0012 | 0.1 | 3 | | 2 Tu | 0013 | 0.0 | 0 | | 17 W | 0003 | 0.2 | 6 | | 2 F | 0030 | 0.0 | 0 | | 17 Sa | 0714 | 1.8 | 55 | |
| | 0953 | -0.2 | -6 | | | 0527 | 0.9 | 27 | | | 0608 | 1.3 | 40 | | | 0621 | 1.5 | 46 | | | 0744 | 2.0 | 61 | | | 1418 | 0.7 | 21 | |
| | 1716 | 2.4 | 73 | | | 1042 | 0.1 | 3 | | | 1139 | 0.3 | 9 | | | 1207 | 0.5 | 15 | | | 1431 | 0.6 | 18 | | | 1822 | 0.9 | 27 | |
| | | | | 1741 | 2.1 | 64 | | 1803 | 1.9 | 58 | | 1758 | 1.5 | 46 | | 1902 | 1.0 | 30 | | | | | | | | | | | |
| 3 Su | 0029 | 0.0 | 0 | | 18 M | 0042 | 0.1 | 3 | | 3 W | 0047 | 0.0 | 0 | | 18 Th | 0029 | 0.2 | 6 | | 3 Sa | 0114 | 0.1 | 3 | | 18 Su | 0024 | 0.3 | 9 | |
| | 0527 | 0.8 | 24 | | | 0616 | 1.0 | 30 | | | 0709 | 1.5 | 46 | | | 0709 | 1.5 | 46 | | | 0856 | 2.0 | 61 | | | 0815 | 1.8 | 55 | |
| | 1039 | -0.1 | -3 | | | 1126 | 0.3 | 9 | | | 1246 | 0.5 | 15 | | | 1305 | 0.7 | 21 | | | 1624 | 0.6 | 18 | | | 1605 | 0.7 | 21 | |
| | 1754 | 2.3 | 70 | | | 1812 | 1.9 | 58 | | | 1842 | 1.6 | 49 | | | 1826 | 1.3 | 40 | | | 2008 | 0.8 | 24 | | | 1911 | 0.8 | 24 | |
| 4 M | 0105 | 0.0 | 0 | | 19 Tu | 0112 | 0.1 | 3 | | 4 Th | 0125 | -0.1 | -3 | | 19 F | 0057 | 0.2 | 6 | | 4 Su | 0210 | 0.2 | 6 | | 19 M | 0110 | 0.3 | 9 | |
| | 0627 | 0.9 | 27 | | | 0709 | 1.1 | 34 | | | 0816 | 1.6 | 49 | | | 0806 | 1.6 | 49 | | | 1013 | 2.0 | 61 | | | 0926 | 1.8 | 55 | |
| | 1131 | 0.1 | 3 | | | 1215 | 0.5 | 15 | | | 1410 | 0.7 | 21 | | | 1423 | 0.8 | 24 | | | 1809 | 0.5 | 15 | | | 1747 | 0.6 | 18 | |
| | 1833 | 2.1 | 64 | | | 1843 | 1.7 | 52 | | | 1923 | 1.3 | 40 | | | 1854 | 1.1 | 34 | | | 2155 | 0.7 | 21 | | | 2058 | 0.7 | 21 | |
| 5 Tu | 0143 | 0.0 | 0 | | 20 W | 0142 | 0.1 | 3 | | 5 F | 0206 | 0.0 | 0 | | 20 Sa | 0132 | 0.3 | 9 | | 5 M | 0324 | 0.2 | 6 | | 20 Tu | 0221 | 0.4 | 12 | |
| | 0734 | 1.0 | 30 | | | 0808 | 1.2 | 37 | | | 0930 | 1.8 | 55 | | | 0914 | 1.6 | 49 | | | 1126 | 2.1 | 64 | | | 1038 | 1.8 | 55 | |
| | 1233 | 0.4 | 12 | | | 1315 | 0.7 | 21 | | | 1603 | 0.8 | 24 | | | 1622 | 0.8 | 24 | | | 1911 | 0.4 | 12 | | | 1837 | 0.5 | 15 | |
| | 1913 | 1.9 | 58 | | | 1913 | 1.4 | 43 | | | 2013 | 1.0 | 30 | | | 1929 | 0.9 | 27 | | | 2340 | 0.7 | 21 | | | 2255 | 0.7 | 21 | |
| 6 W | 0221 | -0.1 | -3 | | 21 Th | 0214 | 0.2 | 6 | | 6 Sa | 0255 | 0.0 | 0 | | 21 Su | 0217 | 0.3 | 9 | | 6 Tu | 0447 | 0.3 | 9 | | 21 W | 0350 | 0.4 | 12 | |
| | 0849 | 1.2 | 37 | | | 0914 | 1.3 | 40 | | | 1046 | 1.9 | 58 | | | 1027 | 1.7 | 52 | | | 1227 | 2.1 | 64 | | | 1138 | 1.9 | 58 | |
| | 1352 | 0.6 | 18 | | | 1440 | 0.8 | 24 | | | 1810 | 0.7 | 21 | | | 1836 | 0.7 | 21 | | | 1951 | 0.3 | 9 | | | 1908 | 0.4 | 12 | |
| | 1956 | 1.6 | 49 | | | 1944 | 1.2 | 37 | | | 2127 | 0.8 | 24 | | | 2044 | 0.8 | 24 | | | | | | | | | | | |
| 7 Th | 0301 | -0.1 | -3 | | 22 F | 0249 | 0.2 | 6 | | 7 Su | 0353 | 0.0 | 0 | | 22 M | 0318 | 0.3 | 9 | | 7 W | 0049 | 0.8 | 24 | | 22 Th | 0006 | 0.8 | 24 | |
| | 1005 | 1.5 | 46 | | | 1024 | 1.5 | 46 | | | 1154 | 2.1 | 64 | | | 1134 | 1.8 | 55 | | | 0600 | 0.2 | 6 | | | 0511 | 0.3 | 9 | |
| | 1538 | 0.8 | 24 | | | 1641 | 0.9 | 27 | | | 1935 | 0.5 | 15 | | | 1932 | 0.6 | 18 | | | 1316 | 2.1 | 64 | | | 1228 | 2.0 | 61 | |
| | 2044 | 1.3 | 40 | | | 2020 | 1.0 | 30 | | | 2306 | 0.7 | 21 | | | 2243 | 0.7 | 21 | | | 2022 | 0.3 | 9 | | | 1935 | 0.3 | 9 | |
| 8 F | 0344 | -0.1 | -3 | | 23 Sa | 0329 | 0.2 | 6 | | 8 M | 0458 | 0.0 | 0 | | 23 Tu | 0428 | 0.2 | 6 | | 8 Th | 0138 | 1.0 | 30 | | 23 F | 0057 | 1.0 | 30 | |
| | 1115 | 1.7 | 52 | | | 1128 | 1.6 | 49 | | | 1252 | 2.2 | 67 | | | 1228 | 2.0 | 61 | | | 0658 | 0.2 | 6 | | | 0618 | 0.3 | 9 | |
| | 1740 | 0.8 | 24 | | | 1851 | 0.7 | 21 | | | 2025 | 0.4 | 12 | | | 2002 | 0.5 | 15 | | | 1357 | 2.1 | 64 | | | 1312 | 2.1 | 64 | |
| | 2143 | 1.0 | 30 | | | 2119 | 0.8 | 24 | | | | | | | | | | | | | | | | 2001 | | 0.2 | 6 | | |
| 9 Sa | 0430 | -0.2 | -6 | | 24 Su | 0416 | 0.1 | 3 | | 9 Tu | 0031 | 0.7 | 21 | | 24 W | 0006 | 0.7 | 21 | | 9 F | 0217 | 1.2 | 37 | | 24 Sa | 0142 | 1.3 | 40 | |
| | 1216 | 2.0 | 61 | | | 1221 | 1.8 | 55 | | | 0601 | 0.0 | 0 | | | 0534 | 0.2 | 6 | | | 0748 | 0.2 | 6 | | | 0717 | 0.2 | 6 | |
| | 1923 | 0.6 | 18 | | | 2004 | 0.6 | 18 | | | 1341 | 2.3 | 70 | | | 1313 | 2.1 | 64 | | | 1432 | 2.0 | 61 | | | 1353 | 2.1 | 64 | |
| | 2257 | 0.8 | 24 | | | 2248 | 0.7 | 21 | | | 2102 | 0.3 | 9 | | | 2029 | 0.4 | 12 | | | 2111 | 0.2 | 6 | | | 2028 | 0.1 | 3 | |
| 10 Su | 0520 | -0.2 | -6 | | 25 M | 0508 | 0.1 | 3 | | 10 W | 0133 | 0.8 | 24 | | 25 Th | 0104 | 0.8 | 24 | | 10 Sa | 0252 | 1.3 | 40 | | 25 Su | 0224 | 1.6 | 49 | |
| | 1309 | 2.2 | 67 | | | 1307 | 2.0 | 61 | | | 0658 | 0.0 | 0 | | | 0632 | 0.1 | 3 | | | 0831 | 0.2 | 6 | | | 0813 | 0.2 | 6 | |
| | 2032 | 0.4 | 12 | | | 2042 | 0.5 | 15 | | | 1424 | 2.3 | 70 | | | 1353 | 2.2 | 67 | | | 1502 | 2.0 | 61 | | | 1432 | 2.0 | 61 | |
| | | | | | | | | | | | 2132 | 0.2 | 6 | | | 2054 | 0.3 | 9 | | | 2132 | 0.2 | 6 | | | 2056 | 0.0 | 0 | |
| 11 M | 0015 | 0.7 | 21 | | 26 Tu | 0008 | 0.7 | 21 | | 11 Th | 0221 | 0.9 | 27 | | 26 F | 0152 | 1.0 | 30 | | 11 Su | 0325 | 1.5 | 46 | | 26 M | 0307 | 1.8 | 55 | |
| | 0610 | -0.2 | -6 | | | 0559 | 0.0 | 0 | | | 0747 | 0.0 | 0 | | | 0724 | 0.0 | 0 | | | 0912 | 0.2 | 6 | | | 0908 | 0.1 | 3 | |
| | 1357 | 2.3 | 70 | | | 1348 | 2.1 | 64 | | | 1501 | 2.3 | 70 | | | 1431 | 2.3 | 70 | | | 1530 | 1.9 | 58 | | | 1510 | 1.9 | 58 | |
| | 2121 | 0.3 | 9 | | | 2112 | 0.4 | 12 | | | 2200 | 0.2 | 6 | | | 2121 | 0.2 | 6 | | | 2153 | 0.2 | 6 | | | 2125 | -0.1 | -3 | |
| 12 Tu | 0123 | 0.6 | 18 | | 27 W | 0109 | 0.7 | 21 | | 12 F | 0303 | 1.0 | 30 | | 27 Sa | 0236 | 1.2 | 37 | | 12 M | 0358 | 1.6 | 49 | | 27 Tu | 0351 | 2.1 | 64 | |
| | 0701 | -0.2 | -6 | | | 0648 | -0.1 | -3 | | | 0832 | 0.0 | 0 | | | 0814 | 0.0 | 0 | | | 0952 | 0.3 | 9 | | | 1004 | 0.2 | 6 | |
| | 1441 | 2.4 | 73 | | | 1426 | 2.3 | 70 | | | 1535 | 2.2 | 67 | | | 1507 | 2.3 | 70 | | | 1558 | 1.7 | 52 | | | 1549 | 1.7 | 52 | |
| | 2201 | 0.2 | 6 | | | 2140 | 0.3 | 9 | | | 2226 | 0.2 | 6 | | | 2148 | 0.1 | 3 | | | 2214 | 0.2 | 6 | | | 2156 | -0.1 | -3 | |
| 13 W | 0220 | 0.7 | 21 | | 28 Th | 0200 | 0.7 | 21 | | 13 Sa | 0342 | 1.1 | 34 | | 28 Su | 0321 | 1.3 | 40 | | 13 Tu | 0431 | 1.7 | 52 | | 28 W | 0437 | 2.2 | 67 | |
| | 0749 | -0.2 | -6 | | | 0734 | -0.2 | -6 | | | 0914 | 0.0 | 0 | | | 0904 | 0.0 | 0 | | | 1034 | 0.4 | 12 | | | 1102 | 0.2 | 6 | |
| | 1521 | 2.5 | 76 | | | 1502 | 2.4 | 73 | | | 1606 | 2.2 | 67 | | | 1544 | 2.2 | 67 | | | 1625 | 1.6 | 49 | | | 1629 | 1.4 | 43 | |
| | 2237 | 0.1 | 3 | | | 2209 | 0.2 | 6 | | | 2250 | 0.2 | 6 | | | 2217 | 0.0 | 0 | | | 2235 | 0.2 | 6 | | | 2229 | -0.1 | -3 | |
| 14 Th | 0310 | 0.7 | 21 | | 29 F | 0247 | 0.8 | 24 | | 14 Su | 0420 | 1.2 | 37 | | 29 M | 0407 | 1.6 | 49 | | 14 W | 0505 | 1.8 | 55 | | 29 Th | 0525 | 2.3 | 70 | |
| | 0834 | -0.2 | -6 | | | 0819 | -0.2 | -6 | | | 0954 | 0.1 | 3 | | | | | | | | | | | | | | | | |

Honolulu, Oahu Island, Hawaii, 2011

Times and Heights of High and Low Waters

| October | | | | November | | | | December | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|------|--------|----|----------|-----------------|--------|-----|----------|----|-----------------|------|------|----|--------|-----------------|------|------|----|--|-----------------|------|------|----|--|-----------------|------|------|-----|--|-----------------|------|------|-----|------|
| Time | | Height | | Time | | Height | | Time | | Height | | Time | | Height | | | | | | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | | | | | | | | | | | |
| 1 Sa | 0716 | 2.3 | 70 | | 16 Su | 0639 | 2.0 | 61 | | 1 Tu | 0059 | 0.4 | 12 | | 16 W | 0751 | 2.0 | 61 | | 1 Th | 0148 | 0.6 | 18 | | 16 F | 0102 | 0.5 | 15 | | | | | | |
| | 1443 | 0.5 | 15 | | | 1414 | 0.5 | 15 | | | 0850 | 2.0 | 61 | | | 1544 | 0.3 | 9 | | | 0849 | 1.7 | 52 | | | 0758 | 1.8 | 55 | | | | | | |
| | 1857 | 0.8 | 24 | | | 1809 | 0.7 | 21 | | | 1644 | 0.2 | 6 | | | 2102 | 0.7 | 21 | | | 1622 | 0.1 | 3 | | | 1523 | 0.0 | 0 | | 2305 | 1.1 | 34 | | 2157 | 1.1 | 34 |
| 2 Su | 0030 | 0.1 | 3 | | 17 M | 0733 | 2.0 | 61 | | 2 W | 0226 | 0.6 | 18 | | 17 Th | 0106 | 0.5 | 15 | | 2 F | 0330 | 0.8 | 24 | | 17 Sa | 0237 | 0.7 | 21 | | 17 Su | 0846 | 1.6 | 49 | |
| | 0822 | 2.2 | 67 | | | 1535 | 0.5 | 15 | | | 0953 | 1.9 | 58 | | | 0845 | 1.9 | 58 | | | 0940 | 1.5 | 46 | | | 1603 | -0.1 | -3 | | | 1603 | -0.1 | -3 | |
| | 1617 | 0.4 | 12 | | | 1920 | 0.7 | 21 | | | 1730 | 0.2 | 6 | | | 1628 | 0.2 | 6 | | | 1659 | 0.1 | 3 | | | 2309 | 1.4 | 43 | | | 2309 | 1.4 | 43 | |
| 3 M | 0131 | 0.3 | 9 | | 18 Tu | 0022 | 0.3 | 9 | | 3 Th | 0410 | 0.7 | 21 | | 18 F | 0245 | 0.7 | 21 | | 3 Sa | 0004 | 1.3 | 40 | | 18 Su | 0435 | 0.8 | 24 | | 18 M | 0943 | 1.3 | 40 | |
| | 0935 | 2.0 | 61 | | | 0834 | 1.9 | 58 | | | 1052 | 1.7 | 52 | | | 0941 | 1.8 | 55 | | | 0520 | 0.9 | 27 | | | 0943 | 1.3 | 40 | | | 0943 | 1.3 | 40 | |
| | 1735 | 0.4 | 12 | | | 1646 | 0.4 | 12 | | | 1806 | 0.2 | 6 | | | 1706 | 0.1 | 3 | | | 1031 | 1.3 | 40 | | | 1644 | -0.1 | -3 | | | 1644 | -0.1 | -3 | |
| 4 Tu | 0258 | 0.4 | 12 | | 19 W | 0132 | 0.5 | 15 | | 4 F | 0035 | 1.2 | 37 | | 19 Sa | 0434 | 0.7 | 21 | | 4 Su | 0047 | 1.6 | 49 | | 19 M | 0008 | 1.8 | 55 | | 19 Tu | 0626 | 0.7 | 21 | |
| | 1047 | 2.0 | 61 | | | 0939 | 1.9 | 58 | | | 0541 | 0.7 | 21 | | | 1039 | 1.7 | 52 | | | 0650 | 0.8 | 24 | | | 1047 | 1.1 | 34 | | | 1047 | 1.1 | 34 | |
| | 1827 | 0.3 | 9 | | | 1734 | 0.4 | 12 | | | 1143 | 1.6 | 49 | | | 1740 | 0.0 | 0 | | | 1123 | 1.1 | 34 | | | 1726 | -0.2 | -6 | | | 1726 | -0.2 | -6 | |
| 5 W | 0435 | 0.5 | 15 | | 20 Th | 0312 | 0.5 | 15 | | 5 Sa | 0114 | 1.5 | 46 | | 20 Su | 0029 | 1.6 | 49 | | 5 M | 0123 | 1.8 | 55 | | 20 Tu | 0059 | 2.1 | 64 | | 20 W | 0750 | 0.6 | 18 | |
| | 1148 | 1.9 | 58 | | | 1041 | 1.9 | 58 | | | 0652 | 0.7 | 21 | | | 0609 | 0.7 | 21 | | | 0758 | 1.0 | 21 | | | 0750 | 0.6 | 18 | | | 0750 | 0.6 | 18 | |
| | 1904 | 0.2 | 6 | | | 1808 | 0.2 | 6 | | | 1227 | 1.5 | 46 | | | 1135 | 1.5 | 46 | | | 1213 | 1.0 | 30 | | | 1155 | 0.9 | 27 | | | 1155 | 0.9 | 27 | |
| 6 Th | 0050 | 1.1 | 34 | | 21 F | 0449 | 0.6 | 18 | | 6 Su | 0147 | 1.7 | 52 | | 21 M | 0114 | 1.9 | 58 | | 6 Tu | 0156 | 2.0 | 61 | | 21 W | 0145 | 2.3 | 70 | | 21 Th | 0854 | 0.4 | 12 | |
| | 0554 | 0.5 | 15 | | | 1136 | 1.9 | 58 | | | 0750 | 0.6 | 18 | | | 0728 | 0.6 | 18 | | | 0850 | 0.6 | 18 | | | 0854 | 0.4 | 12 | | | 0854 | 0.4 | 12 | |
| | 1237 | 1.9 | 58 | | | 1838 | 0.1 | 3 | | | 1305 | 1.3 | 40 | | | 1229 | 1.3 | 40 | | | 1259 | 0.9 | 27 | | | 1300 | 0.8 | 24 | | | 1300 | 0.8 | 24 | |
| 7 F | 0131 | 1.3 | 40 | | 22 Sa | 0046 | 1.3 | 40 | | 7 M | 0218 | 1.9 | 58 | | 22 Tu | 0158 | 2.2 | 67 | | 7 W | 0227 | 2.1 | 64 | | 22 Th | 0230 | 2.5 | 76 | | 22 F | 0945 | 0.2 | 6 | |
| | 0657 | 0.5 | 15 | | | 0609 | 0.5 | 15 | | | 0839 | 0.6 | 18 | | | 0834 | 0.4 | 12 | | | 0932 | 0.5 | 15 | | | 0945 | 0.2 | 6 | | | 0945 | 0.2 | 6 | |
| | 1318 | 1.8 | 55 | | | 1225 | 1.8 | 55 | | | 1340 | 1.2 | 37 | | | 1321 | 1.1 | 34 | | | 1342 | 0.8 | 24 | | | 1400 | 0.7 | 21 | | | 1400 | 0.7 | 21 | |
| 8 Sa | 0205 | 1.5 | 46 | | 23 Su | 0129 | 1.6 | 49 | | 8 Tu | 0247 | 2.1 | 64 | | 23 W | 0241 | 2.5 | 76 | | 8 Th | 0259 | 2.2 | 67 | | 23 F | 0314 | 2.6 | 79 | | 23 Sa | 1030 | 0.1 | 3 | |
| | 0748 | 0.4 | 12 | | | 0717 | 0.4 | 12 | | | 0923 | 0.5 | 15 | | | 1412 | 1.0 | 30 | | | 1422 | 0.8 | 24 | | | 1454 | 0.7 | 21 | | | 1454 | 0.7 | 21 | |
| | 1352 | 1.7 | 52 | | | 1311 | 1.7 | 52 | | | 1414 | 1.1 | 34 | | | 2002 | -0.3 | -9 | | | 2000 | -0.1 | -3 | | | 2025 | -0.4 | -12 | | | 2025 | -0.4 | -12 | |
| 9 Su | 0237 | 1.7 | 52 | | 24 M | 0211 | 2.0 | 61 | | 9 W | 0317 | 2.2 | 67 | | 24 Th | 0324 | 2.7 | 82 | | 9 F | 0332 | 2.3 | 70 | | 24 Sa | 0356 | 2.6 | 79 | | 24 Su | 1113 | 0.1 | 3 | |
| | 0833 | 0.4 | 12 | | | 0819 | 0.3 | 9 | | | 1004 | 0.4 | 12 | | | 1028 | 0.2 | 6 | | | 1046 | 0.3 | 9 | | | 1113 | 0.1 | 3 | | | 1113 | 0.1 | 3 | |
| | 1423 | 1.6 | 49 | | | 1355 | 1.6 | 49 | | | 1447 | 1.0 | 30 | | | 1502 | 0.9 | 27 | | | 1501 | 0.7 | 21 | | | 1545 | 0.7 | 21 | | | 1545 | 0.7 | 21 | |
| 10 M | 0306 | 1.8 | 55 | | 25 Tu | 0253 | 2.3 | 70 | | 10 Th | 0347 | 2.3 | 70 | | 25 F | 0408 | 2.7 | 82 | | 10 Sa | 0406 | 2.4 | 73 | | 25 Su | 0438 | 2.6 | 79 | | 25 M | 1636 | 0.7 | 21 | |
| | 0915 | 0.4 | 12 | | | 0918 | 0.3 | 9 | | | 1045 | 0.4 | 12 | | | 1121 | 0.2 | 6 | | | 1122 | 0.3 | 9 | | | 1636 | 0.7 | 21 | | | 1636 | 0.7 | 21 | |
| | 1452 | 1.5 | 46 | | | 1438 | 1.4 | 43 | | | 1520 | 0.9 | 27 | | | 1552 | 0.8 | 24 | | | 1540 | 0.7 | 21 | | | 2154 | -0.2 | -6 | | | 2154 | -0.2 | -6 | |
| 11 Tu | 0336 | 2.0 | 61 | | 26 W | 0336 | 2.5 | 76 | | 11 F | 0420 | 2.3 | 70 | | 26 Sa | 0453 | 2.7 | 82 | | 11 Su | 0440 | 2.4 | 73 | | 26 M | 0518 | 2.4 | 73 | | 26 Tu | 1233 | 0.0 | 0 | |
| | 0956 | 0.4 | 12 | | | 1016 | 0.2 | 6 | | | 1127 | 0.4 | 12 | | | 1213 | 0.1 | 3 | | | 1200 | 0.2 | 6 | | | 1233 | 0.0 | 0 | | | 1233 | 0.0 | 0 | |
| | 1520 | 1.4 | 43 | | | 1521 | 1.2 | 37 | | | 1554 | 0.8 | 24 | | | 1644 | 0.7 | 21 | | | 1623 | 0.7 | 21 | | | 1728 | 0.7 | 21 | | | 1728 | 0.7 | 21 | |
| 12 W | 0407 | 2.1 | 64 | | 27 Th | 0421 | 2.6 | 79 | | 12 Sa | 0456 | 2.3 | 70 | | 27 Su | 0539 | 2.6 | 79 | | 12 M | 0517 | 2.4 | 73 | | 27 Tu | 1825 | 0.8 | 24 | | 27 W | 2325 | 0.2 | 6 | |
| | 1038 | 0.4 | 12 | | | 1115 | 0.2 | 6 | | | 1212 | 0.4 | 12 | | | 1306 | 0.1 | 3 | | | 1239 | 0.2 | 6 | | | 1311 | 0.0 | 0 | | | 1311 | 0.0 | 0 | |
| | 1549 | 1.2 | 37 | | | 1606 | 1.0 | 30 | | | 1632 | 0.8 | 24 | | | 1742 | 0.7 | 21 | | | 1710 | 0.7 | 21 | | | 1825 | 0.8 | 24 | | | 1825 | 0.8 | 24 | |
| 13 Th | 0439 | 2.1 | 64 | | 28 F | 0508 | 2.6 | 79 | | 13 Su | 0534 | 2.3 | 70 | | 28 M | 0625 | 2.4 | 73 | | 13 Tu | 0554 | 2.3 | 70 | | 28 W | 0634 | 2.1 | 64 | | 28 Th | 1350 | 0.1 | 3 | |
| | 1122 | 0.4 | 12 | | | 1216 | 0.2 | 6 | | | 1301 | 0.4 | 12 | | | 1359 | 0.1 | 3 | | | 1320 | 0.2 | 6 | | | 1350 | 0.1 | 3 | | | 1350 | 0.1 | 3 | |
| | 1619 | 1.1 | 34 | | | 1654 | 0.9 | 27 | | | 1714 | 0.7 | 21 | | | 1849 | 0.7 | 21 | | | 1806 | 0.7 | 21 | | | 1928 | 0.9 | 27 | | | 1928 | 0.9 | 27 | |
| 14 F | 0515 | 2.1 | 64 | | 29 Sa | 0557 | 2.5 | 76 | | 14 M | 0616 | 2.2 | 67 | | 29 Tu | 0712 | 2.2 | 67 | | 14 W | 0633 | 2.2 | 67 | | 29 Th | 0015 | 0.4 | 12 | | 29 F | 1427 | 0.1 | 3 | |
| | 1210 | 0.5 | 15 | | | 1321 | 0.3 | 9 | | | 1356 | 0.3 | 9 | | | 1451 | 0.2 | 6 | | | 1401 | 0.1 | 3 | | | 1427 | 0.1 | 3 | | | 1427 | 0.1 | 3 | |
| | 1650 | 1.0 | 30 | | | 1749 | 0.7 | 21 | | | 1809 | 0.6 | 18 | | | 2011 | 0.7 | 21 | | | 1914 | 0.7 | 21 | | | 2041 | 1.0 | 30 | | | 2041 | 1.0 | 30 | |
| 15 Sa | 0554 | 2.1 | 64 | | 30 Su | 0651 | 2.4 | 73 | | 15 Tu | 0701 | 2.1 | 64 | | 30 W | 0033 | 0.4 | 12 | | 15 Th | 0714 | 2.0 | 61 | | 30 F | 0118 | 0.6 | 18 | | 30 Sa | 1504 | 0.1 | 3 | |
| | 1306 | 0.5 | 15 | | | 1432 | 0.3 | 9 | | | 1452 | 0.3 | 9 | | | 0800 | 2.0 | 61 | | | 1442 | 0.1 | 3 | | | 0745 | 1.6 | 49 | | | | | | |

Moku O Loe, Oahu Island, Hawaii, 2011

Times and Heights of High and Low Waters

| January | | | | February | | | | March | | | | | | | | | | | | | | | | | | | | | |
|-----------------|------|--------|-----|----------|-----------------|--------|------|-------|------|-----------------|------|------|----|--------|-----------------|------|------|-----|------|-----------------|------|-----|------|------|-----------------|------|------|----|--|
| Time | | Height | | Time | | Height | | Time | | Height | | Time | | Height | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | | | | | | |
| 1 Sa | 0146 | 2.4 | 73 | | 16 Su | 0131 | 2.3 | 70 | | 1 Tu | 0230 | 2.4 | 73 | | 16 W | 0200 | 2.5 | 76 | | | | | | | | | | | |
| | 0847 | 1.0 | 30 | | | 0841 | 1.0 | 30 | | | 0906 | 0.8 | 24 | | | 0829 | 0.7 | 21 | | 0134 | 2.2 | 67 | | | | | | | |
| | 1124 | 1.1 | 34 | | | 1053 | 1.1 | 34 | | | 1321 | 1.2 | 37 | | | 1307 | 1.4 | 43 | | 1250 | 1.3 | 40 | | 0809 | 0.7 | 21 | | | |
| | 1827 | -0.4 | -12 | | | 1806 | -0.3 | -9 | | | 1937 | -0.2 | -6 | | | 1922 | -0.4 | -12 | | 1853 | 0.0 | 0 | | 1853 | 0.0 | 0 | | | |
| 2 Su | 0219 | 2.6 | 79 | | 17 M | 0200 | 2.5 | 76 | | 2 W | 0254 | 2.4 | 73 | | 17 Th | 0229 | 2.6 | 79 | | 2 W | 0156 | 2.2 | 67 | | 17 Th | 0118 | 2.3 | 70 | |
| | 0912 | 0.9 | 27 | | | 0849 | 0.9 | 27 | | | 0922 | 0.7 | 21 | | | 0852 | 0.5 | 15 | | | 0820 | 0.6 | 18 | | | 0741 | 0.4 | 12 | |
| | 1222 | 1.1 | 34 | | | 1204 | 1.1 | 34 | | | 1359 | 1.3 | 40 | | | 1357 | 1.5 | 46 | | | 1326 | 1.4 | 43 | | | 1312 | 1.6 | 49 | |
| | 1907 | -0.4 | -12 | | | 1849 | -0.5 | -15 | | | 2010 | -0.2 | -6 | | | 2006 | -0.3 | -9 | | | 1927 | 0.0 | 0 | | | 1914 | 0.0 | 0 | |
| 3 M | 0250 | 2.6 | 79 | | 18 Tu | 0230 | 2.6 | 79 | | 3 Th | 0316 | 2.4 | 73 | | 18 F | 0258 | 2.5 | 76 | | 3 Th | 0215 | 2.1 | 64 | | 18 F | 0147 | 2.2 | 67 | |
| | 0936 | 0.9 | 27 | | | 0908 | 0.8 | 24 | | | 0940 | 0.6 | 18 | | | 0919 | 0.3 | 9 | | | 0833 | 0.5 | 15 | | | 0805 | 0.1 | 3 | |
| | 1310 | 1.2 | 37 | | | 1259 | 1.2 | 37 | | | 1436 | 1.4 | 43 | | | 1447 | 1.7 | 52 | | | 1359 | 1.5 | 46 | | | 1401 | 1.9 | 58 | |
| | 1944 | -0.4 | -12 | | | 1931 | -0.5 | -15 | | | 2041 | -0.1 | -3 | | | 2049 | -0.1 | -3 | | | 1959 | 0.1 | 3 | | | 2001 | 0.1 | 3 | |
| 4 Tu | 0320 | 2.6 | 79 | | 19 W | 0301 | 2.7 | 82 | | 4 F | 0337 | 2.3 | 70 | | 19 Sa | 0326 | 2.4 | 73 | | 4 F | 0233 | 2.1 | 64 | | 19 Sa | 0215 | 2.1 | 64 | |
| | 1001 | 0.8 | 24 | | | 0934 | 0.7 | 21 | | | 1001 | 0.5 | 15 | | | 0948 | 0.1 | 3 | | | 0849 | 0.4 | 12 | | | 0833 | -0.1 | -3 | |
| | 1353 | 1.2 | 37 | | | 1349 | 1.3 | 40 | | | 1514 | 1.4 | 43 | | | 1538 | 1.8 | 55 | | | 1433 | 1.7 | 52 | | | 1449 | 2.1 | 64 | |
| | 2019 | -0.4 | -12 | | | 2012 | -0.5 | -15 | | | 2111 | 0.1 | 3 | | | 2133 | 0.1 | 3 | | | 2031 | 0.2 | 6 | | | 2049 | 0.2 | 6 | |
| 5 W | 0348 | 2.5 | 76 | | 20 Th | 0333 | 2.7 | 82 | | 5 Sa | 0356 | 2.1 | 64 | | 20 Su | 0352 | 2.2 | 67 | | 5 Sa | 0251 | 2.0 | 61 | | 20 Su | 0243 | 2.0 | 61 | |
| | 1027 | 0.8 | 24 | | | 1003 | 0.6 | 18 | | | 1022 | 0.4 | 12 | | | 1020 | 0.0 | 0 | | | 0907 | 0.2 | 6 | | | 0903 | -0.2 | -6 | |
| | 1434 | 1.2 | 37 | | | 1439 | 1.4 | 43 | | | 1553 | 1.5 | 46 | | | 1633 | 1.8 | 55 | | | 1507 | 1.7 | 52 | | | 1538 | 2.2 | 67 | |
| | 2052 | -0.2 | -6 | | | 2052 | -0.4 | -12 | | | 2140 | 0.3 | 9 | | | 2218 | 0.5 | 15 | | | 2102 | 0.3 | 9 | | | 2138 | 0.5 | 15 | |
| 6 Th | 0416 | 2.4 | 73 | | 21 F | 0403 | 2.6 | 79 | | 6 Su | 0413 | 2.0 | 61 | | 21 M | 0416 | 1.9 | 58 | | 6 Su | 0308 | 1.9 | 58 | | 21 M | 0309 | 1.8 | 55 | |
| | 1054 | 0.7 | 21 | | | 1035 | 0.5 | 15 | | | 1045 | 0.4 | 12 | | | 1054 | 0.0 | 0 | | | 0927 | 0.2 | 6 | | | 0935 | -0.3 | -9 | |
| | 1515 | 1.2 | 37 | | | 1532 | 1.4 | 43 | | | 1635 | 1.5 | 46 | | | 1735 | 1.8 | 55 | | | 1543 | 1.8 | 55 | | | 1630 | 2.2 | 67 | |
| | 2123 | -0.1 | -3 | | | 2133 | -0.2 | -6 | | | 2210 | 0.5 | 15 | | | 2308 | 0.8 | 24 | | | 2134 | 0.5 | 15 | | | 2230 | 0.7 | 21 | |
| 7 F | 0441 | 2.3 | 70 | | 22 Sa | 0433 | 2.4 | 73 | | 7 M | 0427 | 1.8 | 55 | | 22 Tu | 0435 | 1.7 | 52 | | 7 M | 0323 | 1.8 | 55 | | 22 Tu | 0332 | 1.6 | 49 | |
| | 1123 | 0.7 | 21 | | | 1109 | 0.4 | 12 | | | 1109 | 0.3 | 9 | | | 1132 | 0.0 | 0 | | | 0948 | 0.1 | 3 | | | 1009 | -0.3 | -9 | |
| | 1558 | 1.2 | 37 | | | 1630 | 1.4 | 43 | | | 1724 | 1.4 | 43 | | | 1853 | 1.7 | 52 | | | 1621 | 1.8 | 55 | | | 1727 | 2.1 | 64 | |
| | 2153 | 0.1 | 3 | | | 2215 | 0.2 | 6 | | | 2238 | 0.8 | 24 | | | | | | | | 2207 | 0.7 | 21 | | | 2331 | 1.0 | 30 | |
| 8 Sa | 0504 | 2.1 | 64 | | 23 Su | 0501 | 2.2 | 67 | | 8 Tu | 0437 | 1.7 | 52 | | 23 W | 0016 | 1.2 | 37 | | 8 Tu | 0337 | 1.6 | 49 | | 23 W | 0349 | 1.4 | 43 | |
| | 1152 | 0.6 | 18 | | | 1147 | 0.3 | 9 | | | 1137 | 0.3 | 9 | | | 0440 | 1.5 | 46 | | | 1012 | 0.1 | 3 | | | 1046 | -0.2 | -6 | |
| | 1648 | 1.1 | 34 | | | 1739 | 1.4 | 43 | | | 1829 | 1.4 | 43 | | | 1216 | 0.0 | 0 | | | 1704 | 1.8 | 55 | | | 1835 | 2.0 | 61 | |
| | 2221 | 0.4 | 12 | | | 2259 | 0.6 | 18 | | | 2308 | 1.1 | 34 | | | 2046 | 1.7 | 52 | | | 2242 | 0.9 | 27 | | | | | | |
| 9 Su | 0523 | 2.0 | 61 | | 24 M | 0525 | 1.9 | 58 | | 9 W | 0438 | 1.6 | 49 | | 24 Th | 1317 | 0.1 | 3 | | 9 W | 0346 | 1.5 | 46 | | 24 Th | 0107 | 1.1 | 34 | |
| | 1224 | 0.5 | 15 | | | 1228 | 0.2 | 6 | | | 1211 | 0.2 | 6 | | | 2249 | 1.9 | 58 | | | 1038 | 0.1 | 3 | | | 0345 | 1.2 | 37 | |
| | 1752 | 1.1 | 34 | | | 1909 | 1.4 | 43 | | | 2021 | 1.4 | 43 | | | | | | | | 1758 | 1.7 | 52 | | | 1128 | 0.0 | 0 | |
| | 2247 | 0.7 | 21 | | | 2352 | 1.0 | 30 | | | 2350 | 1.3 | 40 | | | 0 | | | | | 2326 | 1.1 | 34 | | | 2004 | 1.9 | 58 | |
| 10 M | 0538 | 1.8 | 55 | | 25 Tu | 0542 | 1.7 | 52 | | 10 Th | 0415 | 1.5 | 46 | | 25 F | 1446 | 0.2 | 6 | | 10 Th | 0347 | 1.4 | 43 | | 25 F | 1224 | 0.2 | 6 | |
| | 1259 | 0.5 | 15 | | | 1317 | 0.1 | 3 | | | 1300 | 0.2 | 6 | | | 2356 | 2.0 | 61 | | | 1110 | 0.1 | 3 | | | 2146 | 1.9 | 58 | |
| | 1930 | 1.1 | 34 | | | 2124 | 1.5 | 46 | | | 2317 | 1.6 | 49 | | | | | | | | 1916 | 1.7 | 52 | | | | | | |
| | 2310 | 1.0 | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 Tu | 0545 | 1.6 | 49 | | 26 W | 0141 | 1.4 | 43 | | 11 F | 1416 | 0.2 | 6 | | 26 Sa | 1619 | 0.2 | 6 | | 11 F | 0054 | 1.3 | 40 | | 26 Sa | 1358 | 0.4 | 12 | |
| | 1342 | 0.4 | 12 | | | 0537 | 1.5 | 46 | | | 0004 | 1.8 | 55 | | | 0038 | 2.1 | 64 | | | 0311 | 1.4 | 43 | | | 2300 | 1.9 | 58 | |
| | | | | | | 1417 | 0.1 | 3 | | | 1544 | 0.1 | 3 | | | 0808 | 0.8 | 24 | | | 1155 | 0.2 | 6 | | | 0723 | 0.7 | 21 | |
| | | | | | | 2326 | 1.8 | 55 | | | | | | | | 1106 | 0.9 | 27 | | | 2119 | 1.7 | 52 | | | 1001 | 0.8 | 24 | |
| 12 W | 0533 | 1.5 | 46 | | 27 Th | 1528 | 0.0 | 0 | | 12 Sa | 0004 | 1.8 | 55 | | 27 Su | 0038 | 2.1 | 64 | | 12 Sa | 1309 | 0.2 | 6 | | 27 Su | 1549 | 0.4 | 12 | |
| | 1434 | 0.3 | 9 | | | | | | 1544 | | 0.1 | 3 | | 1106 | | 0.9 | 27 | | 2252 | | 1.9 | 58 | | 1549 | | 0.4 | 12 | | |
| | | | | | | | | | | | | | | 1726 | | 0.1 | 3 | | | | | | | 2347 | | 2.0 | 61 | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 Th | 0019 | 1.6 | 49 | | 28 F | 0025 | 2.1 | 64 | | 13 Su | 0034 | 2.1 | 64 | | 28 M | 0109 | 2.2 | 67 | | 13 Su | 1456 | 0.2 | 6 | | 28 M | 0703 | 0.7 | 21 | |
| | 1533 | 0.2 | 6 | | | 1637 | -0.1 | -3 | | | 1654 | 0.0 | 0 | | | 0803 | 0.8 | 24 | | | 2340 | 2.0 | 61 | | | 1131 | 1.0 | 30 | |
| | | | | | | | | | | | | | | | | 1208 | 1.1 | 34 | | | | | | 1705 | | 0.4 | 12 | | |
| | | | | | | | | | | | | | | | | 1814 | 0.1 | 3 | | | | | | | | | | | |
| 14 F | 0039 | 1.8 | 55 | | 29 Sa | 0104 | 2.2 | 67 | | 14 M | 0103 | 2.3 | 70 | | 14 M | 0733 | 0.8 | 24 | | 14 M | 0020 | 2.0 | 61 | | | | | | |
| | 1629 | 0.0 | 0 | | | 1734 | -0.1 | -3 | | | 0808 | 0.9 | 27 | | | 0939 | 0.9 | 27 | | | 1625 | 0.1 | 3 | | 0707 | 0.6 | 18 | | |
| | | | | | | | | | | | 1105 | 1.1 | 34 | | | | | | | | | | | 1217 | 1.2 | 37 | | | |
| | | | | | | | | | | | 1750 | -0.2 | -6 | | | | | | | | | | 1758 | 0.4 | 12 | | | | |
| 15 Sa | 0104 | 2.1 | 64 | | | | | | | | | | | | | | | | | | | | | | | | | | |

Moku O Loe, Oahu Island, Hawaii, 2011

Times and Heights of High and Low Waters

| July | | | | August | | | | September | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|--------|------|-----|--------|-----------------|------|------|-----------|--------|-----------------|------|------|--------|----|-----------------|------|------|----|----|-----------------|------|------|------|----|-----------------|------|------|------|----|--|--|
| Time | Height | | | Time | Height | | | Time | Height | | | Time | Height | | | | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | | | |
| 1 F | 0120 | 1.2 | 37 | | 16 Sa | 0224 | 1.2 | 37 | | 1 M | 0310 | 1.4 | 43 | | 16 Tu | 0341 | 1.5 | 46 | | 1 Th | 0506 | 1.9 | 58 | | 16 F | 0448 | 1.8 | 55 | | | |
| | 0800 | -0.5 | -15 | | | 0841 | -0.3 | -9 | | | 0912 | -0.1 | -3 | | | 0931 | 0.3 | 9 | | | | 1048 | 0.8 | 24 | | | 1035 | 1.0 | 30 | | |
| | 1539 | 2.6 | 79 | | | 1602 | 2.4 | 73 | | | 1607 | 2.4 | 73 | | | 1555 | 1.9 | 58 | | | | 1608 | 1.7 | 52 | | | 1520 | 1.4 | 43 | | |
| | 2222 | 0.8 | 24 | | | 2238 | 0.7 | 21 | | | 2240 | 0.4 | 12 | | | 2223 | 0.3 | 9 | | | | 2259 | -0.1 | -3 | | | 2212 | 0.1 | 3 | | |
| 2 Sa | 0208 | 1.2 | 37 | | 17 Su | 0308 | 1.2 | 37 | | 2 Tu | 0405 | 1.5 | 46 | | 17 W | 0424 | 1.5 | 46 | | 2 F | 0619 | 1.8 | 55 | | 17 Sa | 0540 | 1.7 | 52 | | | |
| | 0838 | -0.4 | -12 | | | 0914 | -0.1 | -3 | | | 0953 | 0.2 | 6 | | | 1002 | 0.6 | 18 | | | | 1157 | 1.1 | 34 | | | 1123 | 1.2 | 37 | | |
| | 1613 | 2.6 | 79 | | | 1627 | 2.3 | 70 | | | 1634 | 2.2 | 67 | | | 1609 | 1.8 | 55 | | | | 1618 | 1.5 | 46 | | | 1516 | 1.3 | 40 | | |
| | 2257 | 0.8 | 24 | | | 2306 | 0.6 | 18 | | | 2315 | 0.2 | 6 | | | 2247 | 0.3 | 9 | | | | 2343 | 0.0 | 0 | | | 2242 | 0.1 | 3 | | |
| 3 Su | 0258 | 1.2 | 37 | | 18 M | 0354 | 1.2 | 37 | | 3 W | 0510 | 1.5 | 46 | | 18 Th | 0513 | 1.5 | 46 | | 3 Sa | 0759 | 1.8 | 55 | | 18 Su | 0655 | 1.7 | 52 | | | |
| | 0917 | -0.3 | -9 | | | 0946 | 0.2 | 6 | | | 1039 | 0.5 | 15 | | | 1034 | 0.8 | 24 | | | | | | | | 2323 | 0.2 | 6 | | | |
| | 1646 | 2.5 | 76 | | | 1651 | 2.1 | 64 | | | 1659 | 1.9 | 58 | | | 1618 | 1.6 | 49 | | | | | | | | | | | | | |
| | 2335 | 0.7 | 21 | | | 2335 | 0.5 | 15 | | | 2354 | 0.1 | 3 | | | 2314 | 0.3 | 9 | | | | | | | | | | | | | |
| 4 M | 0356 | 1.1 | 34 | | 19 Tu | 0445 | 1.2 | 37 | | 4 Th | 0630 | 1.5 | 46 | | 19 F | 0616 | 1.5 | 46 | | 4 Su | 0041 | 0.1 | 3 | | 19 M | 0854 | 1.7 | 52 | | | |
| | 0957 | 0.0 | 0 | | | 1017 | 0.4 | 12 | | | 1133 | 0.9 | 27 | | | 1110 | 1.1 | 34 | | | | 0958 | 1.9 | 58 | | | | | | | |
| | 1718 | 2.4 | 73 | | | 1710 | 1.9 | 58 | | | 1719 | 1.7 | 52 | | | 1617 | 1.5 | 46 | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | 2347 | 0.3 | 9 | | | | | | | | | | | | | |
| 5 Tu | 0014 | 0.5 | 15 | | 20 W | 0005 | 0.5 | 15 | | 5 F | 0040 | 0.1 | 3 | | 20 Sa | 0800 | 1.5 | 46 | | 5 M | 0209 | 0.2 | 6 | | 20 Tu | 0033 | 0.3 | 9 | | | |
| | 0505 | 1.1 | 34 | | | 0547 | 1.2 | 37 | | | 0822 | 1.6 | 49 | | | 1212 | 1.3 | 40 | | | | 1116 | 2.0 | 61 | | | 1027 | 1.8 | 55 | | |
| | 1040 | 0.3 | 9 | | | 1048 | 0.7 | 21 | | | 1305 | 1.3 | 40 | | | 1542 | 1.4 | 43 | | | | | | | | | | | | | |
| | 1750 | 2.2 | 67 | | | 1725 | 1.8 | 55 | | | 1726 | 1.5 | 46 | | | | | | | | | | | | | | | | | | |
| 6 W | 0057 | 0.4 | 12 | | 21 Th | 0039 | 0.4 | 12 | | 6 Sa | 0137 | 0.0 | 0 | | 21 Su | 0035 | 0.3 | 9 | | 6 Tu | 0347 | 0.2 | 6 | | 21 W | 0229 | 0.3 | 9 | | | |
| | 0635 | 1.1 | 34 | | | 0715 | 1.2 | 37 | | | 1029 | 1.8 | 55 | | | 1040 | 1.6 | 49 | | | | 1204 | 2.1 | 64 | | | 1115 | 2.0 | 61 | | |
| | 1130 | 0.7 | 21 | | | 1119 | 1.0 | 30 | | | | | | | | | | | | | | 1931 | 0.8 | 24 | | | 1907 | 0.8 | 24 | | |
| | 1820 | 1.9 | 58 | | | 1732 | 1.6 | 49 | | | | | | | | | | | | | | 2248 | 0.9 | 27 | | | 2146 | 0.9 | 27 | | |
| 7 Th | 0144 | 0.2 | 6 | | 22 F | 0118 | 0.4 | 12 | | 7 Su | 0247 | 0.0 | 0 | | 22 M | 0152 | 0.3 | 9 | | 7 W | 0500 | 0.1 | 3 | | 22 Th | 0403 | 0.3 | 9 | | | |
| | 0835 | 1.3 | 40 | | | 0949 | 1.3 | 40 | | | 1145 | 2.0 | 61 | | | 1140 | 1.8 | 55 | | | | 1240 | 2.2 | 67 | | | 1150 | 2.1 | 64 | | |
| | 1243 | 1.0 | 30 | | | 1209 | 1.2 | 37 | | | | | | | | | | | | | | 1931 | 0.7 | 21 | | | 1846 | 0.7 | 21 | | |
| | 1848 | 1.7 | 52 | | | 1719 | 1.5 | 46 | | | | | | | | | | | | | | 2352 | 1.1 | 34 | | | 2311 | 1.1 | 34 | | |
| 8 F | 0234 | 0.1 | 3 | | 23 Sa | 0208 | 0.3 | 9 | | 8 M | 0401 | -0.1 | -3 | | 23 Tu | 0325 | 0.2 | 6 | | 8 Th | 0553 | 0.1 | 3 | | 23 F | 0508 | 0.2 | 6 | | | |
| | 1037 | 1.6 | 49 | | | 1147 | 1.6 | 49 | | | 1232 | 2.2 | 67 | | | 1213 | 2.0 | 61 | | | | 1307 | 2.2 | 67 | | | 1220 | 2.2 | 67 | | |
| | 1515 | 1.3 | 40 | | | | | | | | | | | | | | | | | | | 1941 | 0.6 | 18 | | | 1854 | 0.5 | 15 | | |
| | 1913 | 1.5 | 46 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 Sa | 0328 | -0.1 | -3 | | 24 Su | 0308 | 0.2 | 6 | | 9 Tu | 0506 | -0.1 | -3 | | 24 W | 0436 | 0.1 | 3 | | 9 F | 0035 | 1.3 | 40 | | 24 Sa | 0005 | 1.4 | 43 | | | |
| | 1152 | 1.9 | 58 | | | 1221 | 1.8 | 55 | | | 1309 | 2.3 | 70 | | | 1241 | 2.2 | 67 | | | | 0635 | 0.1 | 3 | | | 0602 | 0.1 | 3 | | |
| | | | | | | | | | | | 2016 | 0.9 | 27 | | | 1943 | 0.9 | 27 | | | | 1331 | 2.2 | 67 | | | 1248 | 2.2 | 67 | | |
| | | | | | | | | | | | 2318 | 1.0 | 30 | | | 2255 | 1.1 | 34 | | | | 1954 | 0.5 | 15 | | | 1913 | 0.3 | 9 | | |
| 10 Su | 0422 | -0.2 | -6 | | 25 M | 0408 | 0.1 | 3 | | 10 W | 0558 | -0.2 | -6 | | 25 Th | 0531 | -0.1 | -3 | | 10 Sa | 0112 | 1.5 | 46 | | 25 Su | 0053 | 1.6 | 49 | | | |
| | 1242 | 2.2 | 67 | | | 1249 | 2.0 | 61 | | | 1341 | 2.4 | 73 | | | 1308 | 2.3 | 70 | | | | 0711 | 0.1 | 3 | | | 0650 | 0.1 | 3 | | |
| | | | | | | | | | | | 2026 | 0.8 | 24 | | | 1946 | 0.8 | 24 | | | | 1351 | 2.1 | 64 | | | 1316 | 2.2 | 67 | | |
| | | | | | | | | | | | | | | | | 2357 | 1.2 | 37 | | | | 2009 | 0.4 | 12 | | | 1936 | 0.1 | 3 | | |
| 11 M | 0513 | -0.3 | -9 | | 26 Tu | 0502 | -0.1 | -3 | | 11 Th | 0018 | 1.2 | 37 | | 26 F | 0617 | -0.2 | -6 | | 11 Su | 0146 | 1.6 | 49 | | 26 M | 0139 | 1.9 | 58 | | | |
| | 1322 | 2.4 | 73 | | | 1316 | 2.2 | 67 | | | 0642 | -0.2 | -6 | | | 1335 | 2.4 | 73 | | | | 0744 | 0.2 | 6 | | | 0737 | 0.2 | 6 | | |
| | 2032 | 1.0 | 30 | | | | | | | | 1408 | 2.4 | 73 | | | 2001 | 0.6 | 18 | | | | 1410 | 2.0 | 61 | | | 1344 | 2.1 | 64 | | |
| | 2244 | 1.1 | 34 | | | | | | | | 2041 | 0.7 | 21 | | | | | | | | | 2025 | 0.3 | 9 | | | 2003 | -0.1 | -3 | | |
| 12 Tu | 0601 | -0.4 | -12 | | 27 W | 0548 | -0.2 | -6 | | 12 F | 0104 | 1.3 | 40 | | 27 Sa | 0048 | 1.4 | 43 | | 12 M | 0220 | 1.7 | 52 | | 27 Tu | 0225 | 2.1 | 64 | | | |
| | 1359 | 2.5 | 76 | | | 1343 | 2.4 | 73 | | | 0720 | -0.2 | -6 | | | 0700 | -0.3 | -9 | | | | 0817 | 0.3 | 9 | | | 0825 | 0.3 | 9 | | |
| | 2055 | 1.0 | 30 | | | 2032 | 1.0 | 30 | | | 1433 | 2.4 | 73 | | | 1402 | 2.4 | 73 | | | | 1427 | 1.9 | 58 | | | 1411 | 1.9 | 58 | | |
| | 2354 | 1.1 | 34 | | | 2344 | 1.1 | 34 | | | 2059 | 0.6 | 18 | | | 2023 | 0.5 | 15 | | | | 2043 | 0.2 | 6 | | | 2032 | -0.3 | -9 | | |
| 13 W | 0646 | -0.5 | -15 | | 28 Th | 0631 | -0.3 | -9 | | 13 Sa | 0145 | 1.4 | 43 | | 28 Su | 0136 | 1.6 | 49 | | 13 Tu | 0253 | 1.8 | 55 | | 28 W | 0313 | 2.2 | 67 | | | |
| | 1433 | 2.6 | 79 | | | 1411 | 2.5 | 76 | | | 0755 | -0.2 | -6 | | | 0743 | -0.2 | -6 | | | | 0849 | 0.4 | 12 | | | 0914 | 0.5 | 15 | | |
| | 2119 | 0.9 | 27 | | | 2048 | 0.9 | 27 | | | 1456 | 2.3 | 70 | | | | | | | | | | | | | | | | | | |

Moku O Loe, Oahu Island, Hawaii, 2011

Times and Heights of High and Low Waters

| October | | | | November | | | | December | | | | | | | | | | | | | | | | | | | | | |
|-----------------|--------|------|----|----------|-----------------|------|------|----------|--------|-----------------|------|------|--------|----|-----------------|------|------|-----|----|-----------------|----------------|------|------|----|-----------------|------|------|-----|--|
| Time | Height | | | Time | Height | | | Time | Height | | | Time | Height | | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | |
| 1 Sa | 0605 | 2.1 | 64 | | 16 Su | 0521 | 2.0 | 61 | | 1 Tu | 0800 | 2.0 | 61 | | 16 W | 0644 | 2.1 | 64 | | 1 Th | 0735 | 1.9 | 58 | | | | | | |
| | 1245 | 1.1 | 34 | | | 1158 | 1.1 | 34 | | | 2312 | 0.3 | 9 | | | 1542 | 0.6 | 18 | | | 16 F | 0635 | 2.1 | 64 | | | | | |
| | 1521 | 1.2 | 37 | | | 1434 | 1.2 | 37 | | | | | | | | 2123 | 0.9 | 27 | | | | 1408 | 0.5 | 15 | | | | | |
| | 2258 | -0.1 | -3 | | | 2203 | 0.0 | 0 | | | | | | | | | | | | | | 1931 | 1.0 | 30 | | | | | |
| | | | | | | | | | | | | | | | | | 2354 | 0.7 | 21 | | | | | | | | | | |
| 2 Su | 0728 | 2.0 | 61 | | 17 M | 0620 | 1.9 | 58 | | 2 W | 0021 | 0.5 | 15 | | 17 Th | 0739 | 2.0 | 61 | | 2 F | 0027 | 0.8 | 24 | | 17 Sa | 0712 | 1.9 | 58 | |
| | 2352 | 0.1 | 3 | | | 2242 | 0.1 | 3 | | | 0908 | 1.9 | 58 | | | 1559 | 0.7 | 21 | | | 0818 | 1.7 | 52 | | | 1455 | 0.3 | 9 | |
| 3 M | 0906 | 2.0 | 61 | | 18 Tu | 0737 | 1.9 | 58 | | 3 Th | 0216 | 0.7 | 21 | | 18 F | 0026 | 0.6 | 18 | | 3 Sa | 0249 | 1.1 | 34 | | 18 Su | 0141 | 1.1 | 34 | |
| | | | | | | 2339 | 0.3 | 9 | | | 1003 | 1.8 | 55 | | | 0833 | 1.9 | 58 | | | 0858 | 1.5 | 46 | | | 0753 | 1.7 | 52 | |
| 4 Tu | 0122 | 0.3 | 9 | | 19 W | 0858 | 1.9 | 58 | | 4 F | 0407 | 0.8 | 24 | | 19 Sa | 0226 | 0.8 | 24 | | 4 Su | 0017 | 1.5 | 46 | | 19 M | 0427 | 1.3 | 40 | |
| | 1025 | 2.0 | 61 | | | | 1043 | 1.7 | 52 | | | 0924 | 1.8 | 55 | | | 0511 | 1.2 | 37 | | | 0840 | 1.5 | 46 | | | | | |
| | 1846 | 0.7 | 21 | | | | 1734 | 0.5 | 15 | | | 1644 | 0.3 | 9 | | | 0935 | 1.4 | 43 | | | 1626 | -0.1 | -3 | | | | | |
| | 2149 | 0.8 | 24 | | | | 2329 | 1.1 | 34 | | | 2207 | 1.0 | 30 | | | 1705 | 0.2 | 6 | | | | | | | | | | |
| 5 W | 0320 | 0.4 | 12 | | 20 Th | 0122 | 0.4 | 12 | | 5 Sa | 0012 | 1.4 | 43 | | 20 Su | 0422 | 0.9 | 27 | | 5 M | 0047 | 1.7 | 52 | | 20 Tu | 0023 | 2.0 | 61 | |
| | 1116 | 2.0 | 61 | | | 0959 | 1.9 | 58 | | | 0523 | 0.8 | 24 | | | 1009 | 1.7 | 52 | | | 0639 | 1.2 | 37 | | | 0631 | 1.2 | 37 | |
| | 1834 | 0.6 | 18 | | | 1744 | 0.7 | 21 | | | 1114 | 1.6 | 49 | | | 1713 | 0.0 | 0 | | | 1011 | 1.3 | 40 | | | 0937 | 1.3 | 40 | |
| | 2320 | 1.0 | 30 | | | 2206 | 0.9 | 27 | | | 1802 | 0.2 | 6 | | | | | | | | 1730 | 0.0 | 0 | | | 1710 | -0.3 | -9 | |
| 6 Th | 0443 | 0.5 | 15 | | 21 F | 0318 | 0.5 | 15 | | 6 Su | 0045 | 1.6 | 49 | | 21 M | 0016 | 1.8 | 55 | | 6 Tu | 0115 | 2.0 | 61 | | 21 W | 0107 | 2.3 | 70 | |
| | 1152 | 2.0 | 61 | | | 1044 | 2.0 | 61 | | | 0619 | 0.9 | 27 | | | 0550 | 0.9 | 27 | | | 0735 | 1.1 | 34 | | | 0744 | 1.1 | 34 | |
| | 1842 | 0.5 | 15 | | | 1746 | 0.5 | 15 | | | 1138 | 1.6 | 49 | | | 1052 | 1.6 | 49 | | | 1048 | 1.2 | 37 | | | 1040 | 1.2 | 37 | |
| 7 F | 0007 | 1.3 | 40 | | 22 Sa | 0443 | 0.5 | 15 | | 7 M | 0115 | 1.8 | 55 | | 22 Tu | 0101 | 2.2 | 67 | | 7 W | 0141 | 2.2 | 67 | | 22 Th | 0148 | 2.6 | 79 | |
| | 0541 | 0.5 | 15 | | | 1120 | 2.0 | 61 | | | 0705 | 0.9 | 27 | | | 0700 | 0.9 | 27 | | | 0814 | 1.0 | 30 | | | 0832 | 1.0 | 30 | |
| | 1219 | 1.9 | 58 | | | 1803 | 0.2 | 6 | | | 1200 | 1.5 | 46 | | | 1132 | 1.5 | 46 | | | 1125 | 1.2 | 37 | | | 1140 | 1.2 | 37 | |
| | 1853 | 0.4 | 12 | | | | | | | | 1835 | 0.0 | 0 | | | 1819 | -0.5 | -15 | | | 1824 | -0.2 | -6 | | | 1838 | -0.6 | -18 | |
| 8 Sa | 0043 | 1.5 | 46 | | 23 Su | 0010 | 1.6 | 49 | | 8 Tu | 0143 | 2.0 | 61 | | 23 W | 0145 | 2.5 | 76 | | 8 Th | 0209 | 2.3 | 70 | | 23 F | 0227 | 2.7 | 82 | |
| | 0625 | 0.5 | 15 | | | 0549 | 0.5 | 15 | | | 0746 | 0.9 | 27 | | | 0800 | 0.9 | 27 | | | 0847 | 1.0 | 30 | | | 0912 | 0.9 | 27 | |
| | 1241 | 1.9 | 58 | | | 1154 | 1.9 | 58 | | | 1222 | 1.4 | 43 | | | 1211 | 1.4 | 43 | | | 1202 | 1.2 | 37 | | | 1234 | 1.2 | 37 | |
| | 1905 | 0.3 | 9 | | | 1826 | 0.0 | 0 | | | 1855 | -0.2 | -6 | | | 1855 | -0.6 | -18 | | | 1854 | -0.3 | -9 | | | 1921 | -0.7 | -21 | |
| 9 Su | 0114 | 1.7 | 52 | | 24 M | 0056 | 1.9 | 58 | | 9 W | 0212 | 2.2 | 67 | | 24 Th | 0228 | 2.7 | 82 | | 9 F | 0238 | 2.4 | 73 | | 24 Sa | 0304 | 2.8 | 85 | |
| | 0703 | 0.5 | 15 | | | 0647 | 0.5 | 15 | | | 0823 | 0.9 | 27 | | | 0854 | 0.9 | 27 | | | 0917 | 1.0 | 30 | | | 0948 | 0.9 | 27 | |
| | 1300 | 1.8 | 55 | | | 1225 | 1.8 | 55 | | | 1244 | 1.4 | 43 | | | 1250 | 1.3 | 40 | | | 1239 | 1.2 | 37 | | | 1325 | 1.2 | 37 | |
| | 1920 | 0.1 | 3 | | | 1854 | -0.3 | -9 | | | 1919 | -0.3 | -9 | | | 1933 | -0.7 | -21 | | | 1926 | -0.4 | -12 | | | 2002 | -0.6 | -18 | |
| 10 M | 0145 | 1.8 | 55 | | 25 Tu | 0141 | 2.2 | 67 | | 10 Th | 0242 | 2.3 | 70 | | 25 F | 0310 | 2.8 | 85 | | 10 Sa | 0308 | 2.5 | 76 | | 25 Su | 0341 | 2.7 | 82 | |
| | 0739 | 0.5 | 15 | | | 0741 | 0.6 | 18 | | | 0901 | 0.9 | 27 | | | 0946 | 0.9 | 27 | | | 0949 | 0.9 | 27 | | | 1024 | 0.8 | 24 | |
| | 1317 | 1.7 | 52 | | | 1256 | 1.7 | 52 | | | 1308 | 1.3 | 40 | | | 1329 | 1.3 | 40 | | | 1315 | 1.2 | 37 | | | 1412 | 1.2 | 37 | |
| | 1937 | 0.0 | 0 | | | 1924 | -0.5 | -15 | | | 1944 | -0.3 | -9 | | | 2012 | -0.7 | -21 | | | 1958 | -0.4 | -12 | | | 2042 | -0.5 | -15 | |
| 11 Tu | 0215 | 2.0 | 61 | | 26 W | 0226 | 2.5 | 76 | | 11 F | 0314 | 2.4 | 73 | | 26 Sa | 0354 | 2.7 | 82 | | 11 Su | 0340 | 2.5 | 76 | | 26 M | 0416 | 2.6 | 79 | |
| | 0814 | 0.6 | 18 | | | 0834 | 0.7 | 21 | | | 0939 | 0.9 | 27 | | | 1038 | 0.9 | 27 | | | 1024 | 0.9 | 27 | | | 1100 | 0.8 | 24 | |
| | 1335 | 1.6 | 49 | | | 1327 | 1.6 | 49 | | | 1332 | 1.3 | 40 | | | 1408 | 1.2 | 37 | | | 1351 | 1.2 | 37 | | | 1459 | 1.2 | 37 | |
| | 1955 | -0.1 | -3 | | | 1957 | -0.6 | -18 | | | 2012 | -0.3 | -9 | | | 2051 | -0.6 | -18 | | | 2032 | -0.4 | -12 | | | 2119 | -0.3 | -9 | |
| 12 W | 0246 | 2.1 | 64 | | 27 Th | 0312 | 2.6 | 79 | | 12 Sa | 0348 | 2.4 | 73 | | 27 Su | 0438 | 2.6 | 79 | | 12 M | 0414 | 2.5 | 76 | | 27 Tu | 0449 | 2.5 | 76 | |
| | 0849 | 0.7 | 21 | | | 0928 | 0.8 | 24 | | | 1021 | 1.0 | 30 | | | 1132 | 0.9 | 27 | | | 1102 | 0.9 | 27 | | | 1138 | 0.7 | 21 | |
| | 1353 | 1.5 | 46 | | | 1356 | 1.5 | 46 | | | 1355 | 1.2 | 37 | | | 1448 | 1.1 | 34 | | | 1429 | 1.1 | 34 | | | 1548 | 1.1 | 34 | |
| | 2017 | -0.1 | -3 | | | 2032 | -0.6 | -18 | | | 2041 | -0.3 | -9 | | | 2131 | -0.4 | -12 | | | 2105 | -0.3 | -9 | | | 2154 | 0.0 | 0 | |
| 13 Th | 0319 | 2.1 | 64 | | 28 F | 0400 | 2.6 | 79 | | 13 Su | 0426 | 2.3 | 70 | | 28 M | 0522 | 2.5 | 76 | | 13 Tu | 0448 | 2.5 | 76 | | 28 W | 0520 | 2.3 | 70 | |
| | 0925 | 0.8 | 24 | | | 1026 | 0.9 | 27 | | | 1110 | 1.0 | 30 | | | 1234 | 0.9 | 27 | | | 1144 | 0.9 | 27 | | | 1217 | 0.7 | 21 | |
| | 1410 | 1.4 | 43 | | | 1425 | 1.3 | 40 | | | 1417 | 1.2 | 37 | | | 1532 | 1.0 | 30 | | | 1512 | 1.1 | 34 | | | 1643 | 1.1 | 34 | |
| | 2040 | -0.2 | -6 | | | 2109 | -0.5 | -15 | | | 2113 | -0.2 | -6 | | | 2209 | -0.1 | -3 | | | 2140 | -0.2 | -6 | | | 2227 | 0.3 | 9 | |
| 14 F | 0354 | 2.1 | 64 | | 29 Sa | 0451 | 2.5 | 76 | | 14 M | 0507 | 2.3 | 70 | | 29 Tu | 0607 | 2.3 | 70 | | 14 W | 0523 | 2.4 | 73 | | 29 Th | 0548 | 2.1 | 64 | |
| | 1005 | 0.9 | 27 | | | 1134 | 1.0 | 30 | | | 1214 | 1.0 | 30 | | | 1344 | 0.8 | 24 | | | 1230 | 0.8 | 24 | | | 1258 | 0.6 | 18 | |
| | 1425 | 1.4 | 43 | | | 1450 | 1.2 | 37 | | | 1436 | 1.1 | 34 | | | 1630 | 0.9 | 27 | | | 1608 | 1.0 | 30 | | | 1753 | 1.0 | 30 | |
| | 2105 | -0.1 | -3 | | | 2147 | -0.4 | -12 | | | 2146 | -0.1 | -3 | | | 2248 | 0.2 | 6 | | | 2217 | 0.1 | 3 | | | 2257 | 0.6 | 18 | |
| 15 Sa | 0434 | 2.1 | 64 | | 30 Su | 0547 | 2.4 | 73 | | 15 Tu | 0553 | 2.2 | 67 | | 30 W | 0651 | 2.1 | 64 | | 15 Th | 0559 | 2.2 | 67 | | 30 F | 0611 | 1.9 | 58 | |
| | 1051 | 1.0 | 30 | | | 2228 | -0.1 | -3 | | | 2224 | 0.1 | 3 | | | 1452 | 0.7 | 21 | | | | | | | | | | | |

Kahului, Maui Island, Hawaii, 2011

Times and Heights of High and Low Waters

| April | | | | May | | | | June | | | | | | | | | | | | | | | | | | | | | |
|-----------------|--------|------|----|------|-----------------|------|------|------|--------|-----------------|------|------|--------|----|-----------------|------|------|-----|----|-----------------|------|------|-----|--|-----------------|------|------|-----|--|
| Time | Height | | | Time | Height | | | Time | Height | | | Time | Height | | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | |
| 1 F | 0121 | 1.9 | 58 | | 16 Sa | 0054 | 2.0 | 61 | | 1 Su | 0049 | 1.5 | 46 | | 16 M | 0044 | 1.5 | 46 | | 1 W | 0103 | 1.2 | 37 | | 16 Th | 0146 | 1.2 | 37 | |
| | 0737 | 0.1 | 3 | | | 0715 | -0.4 | -12 | | | 0710 | -0.3 | -9 | | | 0712 | -0.7 | -21 | | | 0736 | -0.5 | -15 | | | 0812 | -0.6 | -18 | |
| | 1349 | 1.9 | 58 | | | 1350 | 2.3 | 70 | | | 1409 | 2.2 | 67 | | | 1430 | 2.7 | 82 | | | 1507 | 2.6 | 79 | | | 1543 | 2.8 | 85 | |
| | 1947 | 0.2 | 6 | | | 1954 | 0.3 | 9 | | | 2018 | 0.6 | 18 | | | 2054 | 0.6 | 18 | | | 2141 | 0.8 | 24 | | | 2225 | 0.7 | 21 | |
| 2 Sa | 0141 | 1.9 | 58 | | 17 Su | 0126 | 1.8 | 55 | | 2 M | 0113 | 1.5 | 46 | | 17 Tu | 0122 | 1.4 | 43 | | 2 Th | 0138 | 1.2 | 37 | | 17 F | 0230 | 1.2 | 37 | |
| | 0755 | -0.1 | -3 | | | 0745 | -0.5 | -15 | | | 0735 | -0.4 | -12 | | | 0749 | -0.7 | -21 | | | 0810 | -0.5 | -15 | | | 0850 | -0.5 | -15 | |
| | 1419 | 2.0 | 61 | | | 1434 | 2.5 | 76 | | | 1440 | 2.3 | 70 | | | 1512 | 2.8 | 85 | | | 1543 | 2.6 | 79 | | | 1620 | 2.7 | 82 | |
| | 2020 | 0.3 | 9 | | | 2043 | 0.4 | 12 | | | 2054 | 0.6 | 18 | | | 2143 | 0.7 | 21 | | | 2221 | 0.8 | 24 | | | 2304 | 0.7 | 21 | |
| 3 Su | 0201 | 1.8 | 55 | | 18 M | 0158 | 1.7 | 52 | | 3 Tu | 0138 | 1.4 | 43 | | 18 W | 0159 | 1.3 | 40 | | 3 F | 0214 | 1.2 | 37 | | 18 Sa | 0315 | 1.2 | 37 | |
| | 0815 | -0.2 | -6 | | | 0817 | -0.6 | -18 | | | 0801 | -0.4 | -12 | | | 0826 | -0.7 | -21 | | | 0844 | -0.5 | -15 | | | 0927 | -0.3 | -9 | |
| | 1450 | 2.1 | 64 | | | 1651 | 2.6 | 79 | | | 1514 | 2.4 | 73 | | | 1555 | 2.7 | 82 | | | 1620 | 2.6 | 79 | | | 1655 | 2.5 | 76 | |
| | 2053 | 0.4 | 12 | | | 2133 | 0.5 | 15 | | | 2132 | 0.7 | 21 | | | 2233 | 0.7 | 21 | | | 2306 | 0.8 | 24 | | | 2344 | 0.7 | 21 | |
| 4 M | 0221 | 1.7 | 52 | | 19 Tu | 0228 | 1.5 | 46 | | 4 W | 0202 | 1.3 | 40 | | 19 Th | 0236 | 1.2 | 37 | | 4 Sa | 0253 | 1.1 | 34 | | 19 Su | 0401 | 1.1 | 34 | |
| | 0837 | -0.3 | -9 | | | 0851 | -0.7 | -21 | | | 0829 | -0.4 | -12 | | | 0904 | -0.6 | -18 | | | 0920 | -0.4 | -12 | | | 1003 | 0.0 | 0 | |
| | 1522 | 2.2 | 67 | | | 1603 | 2.6 | 79 | | | 1549 | 2.4 | 73 | | | 1639 | 2.6 | 79 | | | 1659 | 2.5 | 76 | | | 1728 | 2.3 | 70 | |
| | 2126 | 0.5 | 15 | | | 2224 | 0.6 | 18 | | | 2213 | 0.8 | 24 | | | 2327 | 0.7 | 21 | | | 2354 | 0.8 | 24 | | | | | | |
| 5 Tu | 0240 | 1.6 | 49 | | 20 W | 0258 | 1.4 | 43 | | 5 Th | 0226 | 1.2 | 37 | | 20 F | 0314 | 1.1 | 34 | | 5 Su | 0338 | 1.0 | 30 | | 20 M | 0026 | 0.6 | 18 | |
| | 0900 | -0.3 | -9 | | | 0925 | -0.6 | -18 | | | 0858 | -0.4 | -12 | | | 0942 | -0.4 | -12 | | | 0958 | -0.2 | -6 | | | 0455 | 1.1 | 34 | |
| | 1556 | 2.2 | 67 | | | 1651 | 2.4 | 73 | | | 1628 | 2.3 | 70 | | | 1724 | 2.4 | 73 | | | 1738 | 2.4 | 73 | | | 1038 | 0.3 | 9 | |
| | 2201 | 0.7 | 21 | | | 2322 | 0.8 | 24 | | | 2301 | 0.8 | 24 | | | | | | | | | | | | | 1759 | 2.1 | 64 | |
| 6 W | 0257 | 1.5 | 46 | | 21 Th | 0325 | 1.2 | 37 | | 6 F | 0250 | 1.2 | 37 | | 21 Sa | 0026 | 0.8 | 24 | | 6 M | 0046 | 0.7 | 21 | | 21 Tu | 0108 | 0.6 | 18 | |
| | 0924 | -0.3 | -9 | | | 1001 | -0.4 | -12 | | | 0929 | -0.4 | -12 | | | 0356 | 1.0 | 30 | | | 0439 | 1.0 | 30 | | | 0605 | 1.1 | 34 | |
| | 1634 | 2.1 | 64 | | | 1743 | 2.3 | 70 | | | 1712 | 2.3 | 70 | | | 1020 | -0.1 | -3 | | | 1040 | 0.0 | 0 | | | 1115 | 0.6 | 18 | |
| | 2240 | 0.8 | 24 | | | | | | | | | | | | | 1810 | 2.2 | 67 | | | 1820 | 2.3 | 70 | | | 1828 | 1.9 | 58 | |
| 7 Th | 0312 | 1.3 | 40 | | 22 F | 0037 | 0.9 | 27 | | 7 Sa | 0002 | 0.9 | 27 | | 22 Su | 0135 | 0.8 | 24 | | 7 Tu | 0140 | 0.6 | 18 | | 22 W | 0151 | 0.5 | 15 | |
| | 0951 | -0.2 | -6 | | | 0347 | 1.0 | 30 | | | 0314 | 1.1 | 34 | | | 0451 | 0.9 | 27 | | | 0608 | 0.9 | 27 | | | 0745 | 1.1 | 34 | |
| | 1718 | 2.0 | 61 | | | 1040 | -0.2 | -6 | | | 1004 | -0.2 | -6 | | | 1100 | 0.2 | 6 | | | 1131 | 0.4 | 12 | | | 1200 | 0.9 | 27 | |
| | 2331 | 1.0 | 30 | | | 1845 | 2.1 | 64 | | | 1802 | 2.2 | 67 | | | 1858 | 2.0 | 61 | | | 1903 | 2.1 | 64 | | | 1855 | 1.8 | 55 | |
| 8 F | 0320 | 1.2 | 37 | | 23 Sa | 1124 | 0.1 | 3 | | 8 Su | 0127 | 0.8 | 24 | | 23 M | 0246 | 0.7 | 21 | | 8 W | 0231 | 0.4 | 12 | | 23 Th | 0236 | 0.4 | 12 | |
| | 1022 | -0.1 | -3 | | | 2000 | 1.9 | 58 | | | 0344 | 0.9 | 27 | | | 0629 | 0.8 | 24 | | | 0811 | 1.0 | 30 | | | 0957 | 1.3 | 40 | |
| | 1816 | 1.9 | 58 | | | | | | | | 1046 | 0.0 | 0 | | | 1148 | 0.5 | 15 | | | 1245 | 0.7 | 21 | | | 1327 | 1.2 | 37 | |
| | | | | | | | | | | | 1859 | 2.1 | 64 | | | 1947 | 1.9 | 58 | | | 1949 | 1.9 | 58 | | | 1922 | 1.6 | 49 | |
| 9 Sa | 0105 | 1.0 | 30 | | 24 Su | 1232 | 0.4 | 12 | | 9 M | 1141 | 0.2 | 6 | | 24 Tu | 0339 | 0.6 | 18 | | 9 Th | 0318 | 0.2 | 6 | | 24 F | 0320 | 0.3 | 9 | |
| | 0307 | 1.1 | 34 | | | 2118 | 1.8 | 55 | | | 2000 | 2.0 | 61 | | | 0903 | 0.9 | 27 | | | 1008 | 1.3 | 40 | | | 1127 | 1.5 | 46 | |
| | 1101 | 0.0 | 0 | | | | | | | | | | | | | 1305 | 0.8 | 24 | | | 1442 | 1.0 | 30 | | | 1620 | 1.3 | 40 | |
| | 1937 | 1.8 | 55 | | | | | | | | | | | | | 2036 | 1.7 | 52 | | | 2038 | 1.7 | 52 | | | 1954 | 1.4 | 43 | |
| 10 Su | 1200 | 0.1 | 3 | | 25 M | 0530 | 0.6 | 18 | | 10 Tu | 0400 | 0.6 | 18 | | 25 W | 0415 | 0.4 | 12 | | 10 F | 0403 | 0.0 | 0 | | 25 Sa | 0403 | 0.2 | 6 | |
| | 2110 | 1.9 | 58 | | | 0957 | 0.8 | 24 | | | 0804 | 0.8 | 24 | | | 1053 | 1.2 | 37 | | | 1125 | 1.7 | 52 | | | 1213 | 1.8 | 55 | |
| | | | | | | 1434 | 0.6 | 18 | | | 1310 | 0.5 | 15 | | | 1507 | 1.0 | 30 | | | 1648 | 1.1 | 34 | | | 1834 | 1.2 | 37 | |
| | | | | | | 2218 | 1.8 | 55 | | | 2101 | 2.0 | 61 | | | 2122 | 1.6 | 49 | | | 2132 | 1.6 | 49 | | | 2049 | 1.3 | 40 | |
| 11 M | 1348 | 0.3 | 9 | | 26 Tu | 0540 | 0.5 | 15 | | 11 W | 0431 | 0.4 | 12 | | 26 Th | 0443 | 0.3 | 9 | | 11 Sa | 0445 | -0.2 | -6 | | 26 Su | 0445 | 0.0 | 0 | |
| | 2219 | 1.9 | 58 | | | 1121 | 1.1 | 34 | | | 1017 | 1.1 | 34 | | | 1147 | 1.5 | 46 | | | 1219 | 2.1 | 64 | | | 1248 | 2.0 | 61 | |
| | | | | | | 1619 | 0.7 | 21 | | | 1508 | 0.7 | 21 | | | 1654 | 1.0 | 30 | | | 1823 | 1.1 | 34 | | | 1931 | 1.1 | 34 | |
| | | | | | | 2301 | 1.7 | 52 | | | 2155 | 1.9 | 58 | | | 2204 | 1.5 | 46 | | | 2228 | 1.4 | 43 | | | 2202 | 1.2 | 37 | |
| 12 Tu | 0554 | 0.6 | 18 | | 27 W | 0554 | 0.3 | 9 | | 12 Th | 0500 | 0.2 | 6 | | 27 F | 0509 | 0.1 | 3 | | 12 Su | 0528 | -0.4 | -12 | | 27 M | 0526 | -0.1 | -3 | |
| | 1016 | 0.9 | 27 | | | 1204 | 1.3 | 40 | | | 1127 | 1.5 | 46 | | | 1225 | 1.7 | 52 | | | 1305 | 2.4 | 73 | | | 1319 | 2.3 | 70 | |
| | 1544 | 0.3 | 9 | | | 1728 | 0.6 | 18 | | | 1648 | 0.7 | 21 | | | 1808 | 1.0 | 30 | | | 1930 | 1.0 | 30 | | | 2003 | 1.1 | 34 | |
| | 2307 | 2.0 | 61 | | | 2333 | 1.7 | 52 | | | 2242 | 1.8 | 55 | | | 2242 | 1.4 | 43 | | | 2322 | 1.3 | 40 | | | 2306 | 1.2 | 37 | |
| 13 W | 0602 | 0.4 | 12 | | 28 Th | 0610 | 0.2 | 6 | | 13 F | 0531 | -0.1 | -3 | | 28 Sa | 0535 | 0.0 | 0 | | 13 M | 0610 | -0.5 | -15 | | 28 Tu | 0605 | -0.3 | -9 | |
| | 1130 | 1.2 | 37 | | | 1237 | 1.6 | 49 | | | 1219 | 1.9 | 58 | | | 1257 | 2.0 | 61 | | | 1347 | 2.6 | 79 | | | 1351 | 2.4 | 73 | |
| | 1705 | 0.3 | 9 | | | 1819 | 0.6 | 18 | | | 1804 | 0.7 | 21 | | | 1902 | 1.0 | 30 | | | 2021 | 0.9 | 27 | | | 2031 | 1.0 | 30 | |
| | 2346 | 2.1 | 64 | | | | | | | | 2325 | 1.7 | 52 | | | 2318 | 1.3 | 40 | | | | | | | | | | | |
| 14 Th | 0622 | 0.1 | 3 | | 29 F | 0000 | 1.6 | 49 | | 14 Sa | 0603 | -0.3 | -9 | | 29 Su | 0603 | -0.2 | -6 | | 14 Tu | 0013 | 1.3 | 40 | | 29 W | 0000 | 1.2 | 37 | |
| | 1221 | 1.6 | 49 | | | 0628 | 0.0 | 0 | | | 1304 | 2.2 | 67 | | | 1328 | 2.2 | 67 | | | 0651 | -0.6 | -18 | | | 0643 | -0.4 | -12 | |
| | 1808 | 0.2 | 6 | | | 1308 | 1.9 | 58 | | | 1907 | 0.7 | 21 | | | 1946 | 0.9 | 27 | | | 1427 | 2.8 | 85 | | | 1422 | 2.6 | 79 | |
| | | | | | | 1902 | 0.6 | 18 | | | | | | | | 2354 | 1.3 | 40 | | | 2105 | 0.8 | 24 | | | 2100 | 0.9 | 27 | |
| 15 F | 0021 | 2.0 | 61 | | 30 Sa | 0025 | 1.6 | 49 | | 15 Su | 0005 | 1.6 | 49 | | 30 M | 0633 | -0.3 | -9 | | 15 W | 0101 | 1.2 | 37 | | 30 Th | 0047 | 1.2 | 37 | |
| | 0647 | -0.1 | -3 | | | 0648 | -0.1 | -3 | | | 0637 | -0.5 | -15 | | | 1400 | 2.4 | 73 | | | 0732 | -0.7 | -21 | | | 0721 | -0.5 | -15 | |
| | 1307 | 2.0 | 61 | | | 1338 | | | | | | | | | | | | | | | | | | | | | | | |

Kahului, Maui Island, Hawaii, 2011

Times and Heights of High and Low Waters

| July | | | | August | | | | September | | | | | | | | | | | | | | | | | | | | | |
|-----------------|--------|------|-----|--------|-----------------|------|------|-----------|--------|-----------------|------|------|--------|----|-----------------|------|------|----|----|-----------------|------|-----|----|--|-----------------|------|------|----|--|
| Time | Height | | | Time | Height | | | Time | Height | | | Time | Height | | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | |
| 1 F | 0132 | 1.3 | 40 | | 16 Sa | 0229 | 1.4 | 43 | | 1 M | 0309 | 1.7 | 52 | | 16 Tu | 0337 | 1.8 | 55 | | 1 Th | 0447 | 2.2 | 67 | | 16 F | 0432 | 2.1 | 64 | |
| | 0759 | -0.5 | -15 | | | 0839 | -0.3 | -9 | | | 0908 | -0.2 | -6 | | | 0930 | 0.3 | 9 | | | 1036 | 0.8 | 24 | | | 1024 | 1.0 | 30 | |
| | 1527 | 2.8 | 85 | | | 1550 | 2.6 | 79 | | | 1558 | 2.7 | 82 | | | 1552 | 2.2 | 67 | | | 1608 | 2.0 | 61 | | | 1529 | 1.7 | 52 | |
| | 2204 | 0.7 | 21 | | | 2221 | 0.6 | 18 | | | 2227 | 0.3 | 9 | | | 2215 | 0.4 | 12 | | | 2246 | 0.0 | 0 | | | 2206 | 0.2 | 6 | |
| 2 Sa | 0217 | 1.3 | 40 | | 17 Su | 0311 | 1.4 | 43 | | 2 Tu | 0359 | 1.7 | 52 | | 17 W | 0415 | 1.8 | 55 | | 2 F | 0549 | 2.1 | 64 | | 17 Sa | 0516 | 2.0 | 61 | |
| | 0836 | -0.5 | -15 | | | 0913 | -0.1 | -3 | | | 0949 | 0.1 | 3 | | | 1001 | 0.6 | 18 | | | 1135 | 1.1 | 34 | | | 1104 | 1.2 | 37 | |
| | 1600 | 2.8 | 85 | | | 1617 | 2.5 | 76 | | | 1626 | 2.5 | 76 | | | 1609 | 2.0 | 61 | | | 1626 | 1.7 | 52 | | | 1532 | 1.6 | 49 | |
| | 2239 | 0.6 | 18 | | | 2250 | 0.6 | 18 | | | 2301 | 0.2 | 6 | | | 2238 | 0.3 | 9 | | | 2327 | 0.1 | 3 | | | 2233 | 0.3 | 9 | |
| 3 Su | 0304 | 1.3 | 40 | | 18 M | 0353 | 1.4 | 43 | | 3 W | 0456 | 1.7 | 52 | | 18 Th | 0457 | 1.8 | 55 | | 3 Sa | 0712 | 2.0 | 61 | | 18 Su | 0619 | 1.9 | 58 | |
| | 0914 | -0.3 | -9 | | | 0946 | 0.1 | 3 | | | 1034 | 0.5 | 15 | | | 1032 | 0.8 | 24 | | | 1319 | 1.4 | 43 | | | 1210 | 1.4 | 43 | |
| | 1633 | 2.7 | 82 | | | 1641 | 2.3 | 70 | | | 1653 | 2.2 | 67 | | | 1621 | 1.9 | 58 | | | 1623 | 1.5 | 46 | | | 1510 | 1.5 | 46 | |
| | 2315 | 0.6 | 18 | | | 2318 | 0.5 | 15 | | | 2338 | 0.2 | 6 | | | 2304 | 0.3 | 9 | | | | | | | 2309 | 0.3 | 9 | | |
| 4 M | 0357 | 1.3 | 40 | | 19 Tu | 0438 | 1.4 | 43 | | 4 Th | 0604 | 1.7 | 52 | | 19 F | 0548 | 1.7 | 52 | | 4 Su | 0020 | 0.2 | 6 | | 19 M | 0807 | 1.8 | 55 | |
| | 0953 | -0.1 | -3 | | | 1018 | 0.4 | 12 | | | 1125 | 0.9 | 27 | | | 1105 | 1.1 | 34 | | | 0911 | 2.0 | 61 | | | | | | |
| | 1706 | 2.6 | 79 | | | 1703 | 2.2 | 67 | | | 1717 | 1.9 | 58 | | | 1627 | 1.7 | 52 | | | | | | | | | | | |
| | 2354 | 0.5 | 15 | | | 2347 | 0.5 | 15 | | | | | | | 2334 | 0.4 | 12 | | | ☉ | | | | | | | | | |
| 5 Tu | 0458 | 1.3 | 40 | | 20 W | 0530 | 1.4 | 43 | | 5 F | 0021 | 0.1 | 3 | | 20 Sa | 0705 | 1.6 | 49 | | 5 M | 0144 | 0.3 | 9 | | 20 Tu | 0010 | 0.5 | 15 | |
| | 1036 | 0.2 | 6 | | | 1050 | 0.7 | 21 | | | 0735 | 1.7 | 52 | | | 1150 | 1.4 | 43 | | | 1051 | 2.2 | 67 | | | 1008 | 1.9 | 58 | |
| | 1738 | 2.4 | 73 | | | 1721 | 2.0 | 61 | | | 1240 | 1.3 | 40 | | | 1614 | 1.6 | 49 | | | | | | | | | | | |
| | | | | | | | | | | | 1734 | 1.7 | 52 | | | | | | | | | | | | | | | | |
| 6 W | 0036 | 0.4 | 12 | | 21 Th | 0019 | 0.5 | 15 | | 6 Sa | 0114 | 0.1 | 3 | | 21 Su | 0016 | 0.4 | 12 | | 6 Tu | 0332 | 0.3 | 9 | | 21 W | 0209 | 0.5 | 15 | |
| | 0614 | 1.3 | 40 | | | 0638 | 1.4 | 43 | | | 0938 | 1.9 | 58 | | | 0937 | 1.7 | 52 | | | 1148 | 2.3 | 70 | | | 1105 | 2.1 | 64 | |
| | 1125 | 0.6 | 18 | | | 1124 | 1.0 | 30 | | | | | | | | | | | | | 1911 | 0.9 | 27 | | | 1859 | 0.9 | 27 | |
| | 1809 | 2.1 | 64 | | | 1733 | 1.8 | 55 | | | | | | | | | | | | | 2249 | 1.1 | 34 | | | 2150 | 1.0 | 30 | |
| 7 Th | 0122 | 0.3 | 9 | | 22 F | 0057 | 0.4 | 12 | | 7 Su | 0226 | 0.1 | 3 | | 22 M | 0127 | 0.4 | 12 | | 7 W | 0453 | 0.3 | 9 | | 22 Th | 0356 | 0.4 | 12 | |
| | 0756 | 1.4 | 43 | | | 0825 | 1.4 | 43 | | | 1116 | 2.1 | 64 | | | 1123 | 1.9 | 58 | | | 1226 | 2.4 | 73 | | | 1140 | 2.3 | 70 | |
| | 1234 | 1.0 | 30 | | | 1213 | 1.3 | 40 | | | | | | | | | | | | | 1916 | 0.8 | 24 | | | 1837 | 0.8 | 24 | |
| | 1841 | 1.8 | 55 | | | 1735 | 1.6 | 49 | | | | | | | | | | | | | 2352 | 1.3 | 40 | | | 2313 | 1.3 | 40 | |
| 8 F | 0214 | 0.1 | 3 | | 23 Sa | 0146 | 0.4 | 12 | | 8 M | 0347 | 0.1 | 3 | | 23 Tu | 0310 | 0.4 | 12 | | 8 Th | 0548 | 0.2 | 6 | | 23 F | 0503 | 0.3 | 9 | |
| | 0955 | 1.6 | 49 | | | 1055 | 1.6 | 49 | | | 1213 | 2.3 | 70 | | | 1202 | 2.1 | 64 | | | 1256 | 2.4 | 73 | | | 1211 | 2.4 | 73 | |
| | 1441 | 1.3 | 40 | | | | | | | | 1951 | 1.0 | 30 | | | | | | | | 1929 | 0.7 | 21 | | | 1847 | 0.6 | 18 | |
| | 1916 | 1.6 | 49 | | | | | | | | 2152 | 1.1 | 34 | | | | | | | | | | | | | | | | |
| 9 Sa | 0311 | 0.0 | 0 | | 24 Su | 0250 | 0.3 | 9 | | 9 Tu | 0458 | 0.0 | 0 | | 24 W | 0430 | 0.2 | 6 | | 9 F | 0034 | 1.5 | 46 | | 24 Sa | 0004 | 1.6 | 49 | |
| | 1123 | 2.0 | 61 | | | 1159 | 1.8 | 55 | | | 1254 | 2.5 | 76 | | | 1231 | 2.3 | 70 | | | 0631 | 0.2 | 6 | | | 0557 | 0.2 | 6 | |
| | 1743 | 1.3 | 40 | | | | | | | | 1953 | 0.9 | 27 | | | 1931 | 1.0 | 30 | | | 1322 | 2.4 | 73 | | | 1240 | 2.5 | 76 | |
| | 2007 | 1.4 | 43 | | | | | | | | 2328 | 1.2 | 37 | | | 2302 | 1.2 | 37 | | | 1944 | 0.6 | 18 | | | 1905 | 0.4 | 12 | |
| 10 Su | 0410 | -0.1 | -3 | | 25 M | 0358 | 0.2 | 6 | | 10 W | 0553 | -0.1 | -3 | | 25 Th | 0527 | 0.0 | 0 | | 10 Sa | 0110 | 1.7 | 52 | | 25 Su | 0048 | 1.9 | 58 | |
| | 1220 | 2.3 | 70 | | | 1234 | 2.1 | 64 | | | 1327 | 2.6 | 79 | | | 1258 | 2.5 | 76 | | | 0708 | 0.2 | 6 | | | 0645 | 0.2 | 6 | |
| | 1919 | 1.1 | 34 | | | | | | | | 2008 | 0.8 | 24 | | | 1935 | 0.8 | 24 | | | 1344 | 2.4 | 73 | | | 1310 | 2.5 | 76 | |
| | 2138 | 1.2 | 37 | | | | | | | | | | | | | | | | | | 2001 | 0.4 | 12 | | | 1929 | 0.2 | 6 | |
| 11 M | 0506 | -0.3 | -9 | | 26 Tu | 0457 | 0.0 | 0 | | 11 Th | 0024 | 1.3 | 40 | | 26 F | 0002 | 1.4 | 43 | | 11 Su | 0143 | 1.9 | 58 | | 26 M | 0131 | 2.2 | 67 | |
| | 1304 | 2.5 | 76 | | | 1303 | 2.3 | 70 | | | 0638 | -0.2 | -6 | | | 0613 | -0.1 | -3 | | | 0741 | 0.2 | 6 | | | 0731 | 0.2 | 6 | |
| | 1959 | 1.0 | 30 | | | 2006 | 1.1 | 34 | | | 1357 | 2.6 | 79 | | | 1326 | 2.7 | 82 | | | 1405 | 2.4 | 73 | | | 1339 | 2.4 | 73 | |
| | 2304 | 1.2 | 37 | | | 2249 | 1.2 | 37 | | | 2027 | 0.7 | 21 | | | 1952 | 0.7 | 21 | | | 2019 | 0.3 | 9 | | | 1956 | 0.0 | 0 | |
| 12 Tu | 0556 | -0.4 | -12 | | 27 W | 0545 | -0.2 | -6 | | 12 F | 0109 | 1.5 | 46 | | 27 Sa | 0050 | 1.6 | 49 | | 12 M | 0215 | 2.1 | 64 | | 27 Tu | 0215 | 2.5 | 76 | |
| | 1343 | 2.7 | 82 | | | 1332 | 2.5 | 76 | | | 0717 | -0.2 | -6 | | | 0657 | -0.2 | -6 | | | 0814 | 0.3 | 9 | | | 0816 | 0.3 | 9 | |
| | 2030 | 0.9 | 27 | | | 2015 | 0.9 | 27 | | | 1423 | 2.6 | 79 | | | 1353 | 2.7 | 82 | | | 1425 | 2.3 | 70 | | | 1408 | 2.3 | 70 | |
| | | | | | | 2356 | 1.2 | 37 | | | 2047 | 0.6 | 18 | | | 2015 | 0.5 | 15 | | | 2038 | 0.2 | 6 | | | 2025 | -0.2 | -6 | |
| 13 W | 0009 | 1.2 | 37 | | 28 Th | 0629 | -0.3 | -9 | | 13 Sa | 0148 | 1.6 | 49 | | 28 Su | 0135 | 1.8 | 55 | | 13 Tu | 0247 | 2.2 | 67 | | 28 W | 0259 | 2.6 | 79 | |
| | 0642 | -0.4 | -12 | | | 1400 | 2.7 | 82 | | | 0753 | -0.2 | -6 | | | 0739 | -0.2 | -6 | | | 0846 | 0.4 | 12 | | | 0903 | 0.5 | 15 | |
| | 1418 | 2.7 | 82 | | | 2034 | 0.8 | 24 | | | 1448 | 2.6 | 79 | | | 1421 | 2.7 | | | | | | | | | | | | |

Kahului, Maui Island, Hawaii, 2011

Times and Heights of High and Low Waters

| October | | | | November | | | | December | | | | | | | | | | | | | | | | | | | | | |
|-----------------|--------|------|------|----------|-----------------|------|--------|----------|------|-----------------|------|------|--------|----|-----------------|------|------|-----|--|-----------------|------|------|-----|--|-----------------|------|------|-----|--|
| Time | Height | | Time | Height | | Time | Height | | Time | Height | | Time | Height | | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | | | | | | |
| 1 Sa | 0535 | 2.4 | 73 | | 16 Su | 0500 | 2.3 | 70 | | 1 Tu | 0731 | 2.2 | 67 | | 16 W | 0626 | 2.3 | 70 | | 1 Th | 0718 | 2.1 | 64 | | 16 F | 0622 | 2.3 | 70 | |
| | 1158 | 1.2 | 37 | | | 1123 | 1.2 | 37 | | | 2301 | 0.4 | 12 | | | 1509 | 0.7 | 21 | | | 1347 | 0.6 | 18 | | | 1910 | 1.1 | 34 | |
| | 1544 | 1.5 | 46 | | | 1455 | 1.4 | 43 | | | 2138 | 1.0 | 30 | | | 2034 | 1.1 | 34 | | | 2350 | 0.8 | 24 | | | 2350 | 0.8 | 24 | |
| | 2245 | 0.0 | 0 | | | 2157 | 0.1 | 3 | | | | | | | | | | | | | | | | | | | | | |
| 2 Su | 0649 | 2.3 | 70 | | 17 M | 0555 | 2.1 | 64 | | 2 W | 0007 | 0.6 | 18 | | 17 Th | 0722 | 2.2 | 67 | | 2 F | 0031 | 0.9 | 27 | | 17 Sa | 0702 | 2.1 | 64 | |
| | 2335 | 0.2 | 6 | | | 2231 | 0.3 | 9 | | | 0846 | 2.1 | 64 | | | 1535 | 0.9 | 27 | | | 0806 | 1.9 | 58 | | | 1438 | 0.4 | 12 | |
| 3 M | 0828 | 2.2 | 67 | | 18 Tu | 0709 | 2.1 | 64 | | 3 Th | 0202 | 0.8 | 24 | | 18 F | 0015 | 0.7 | 21 | | 3 Sa | 0240 | 1.2 | 37 | | 18 Su | 0134 | 1.1 | 34 | |
| | | | | | | 2322 | 0.4 | 12 | | | 0948 | 2.0 | 61 | | | 0821 | 2.1 | 64 | | | 0854 | 1.7 | 52 | | | 0749 | 1.8 | 55 | |
| 4 Tu | 0058 | 0.5 | 15 | | 19 W | 0837 | 2.1 | 64 | | 4 F | 0357 | 0.9 | 27 | | 19 Sa | 0218 | 0.9 | 27 | | 4 Su | 0449 | 1.3 | 40 | | 19 M | 0409 | 1.3 | 40 | |
| | 1001 | 2.2 | 67 | | | 1034 | 2.0 | 61 | | | 1034 | 2.0 | 61 | | | 0916 | 2.0 | 61 | | | 0941 | 1.6 | 49 | | | 0845 | 1.6 | 49 | |
| | 1825 | 0.9 | 27 | | | 1734 | 0.5 | 15 | | | 1734 | 0.5 | 15 | | | 1635 | 0.4 | 12 | | | 1655 | 0.3 | 9 | | | 1616 | 0.0 | 0 | |
| | 2135 | 1.0 | 30 | | | 2354 | 1.6 | 49 | | | 2354 | 1.6 | 49 | | | 2309 | 1.6 | 49 | | | | | | | | | | | |
| 5 W | 0305 | 0.6 | 18 | | 20 Th | 0103 | 0.6 | 18 | | 5 Sa | 0513 | 0.9 | 27 | | 20 Su | 0414 | 1.0 | 30 | | 5 M | 0022 | 1.9 | 58 | | 20 Tu | 0001 | 2.1 | 64 | |
| | 1101 | 2.2 | 67 | | | 0946 | 2.1 | 64 | | | 1109 | 1.9 | 58 | | | 1007 | 2.0 | 61 | | | 0610 | 1.2 | 37 | | | 0605 | 1.2 | 37 | |
| | 1818 | 0.8 | 24 | | | 1734 | 0.8 | 24 | | | 1751 | 0.4 | 12 | | | 1705 | 0.1 | 3 | | | 1024 | 1.5 | 46 | | | 0950 | 1.5 | 46 | |
| | 2312 | 1.2 | 37 | | | 2204 | 1.1 | 34 | | | | | | | | | | | | | 1723 | 0.1 | 3 | | | 1703 | -0.2 | -6 | |
| 6 Th | 0436 | 0.6 | 18 | | 21 F | 0310 | 0.7 | 21 | | 6 Su | 0028 | 1.9 | 58 | | 21 M | 0000 | 2.0 | 61 | | 6 Tu | 0053 | 2.2 | 67 | | 21 W | 0047 | 2.5 | 76 | |
| | 1141 | 2.2 | 67 | | | 1035 | 2.2 | 67 | | | 0608 | 0.9 | 27 | | | 0539 | 1.0 | 30 | | | 0704 | 1.1 | 34 | | | 0715 | 1.1 | 34 | |
| | 1828 | 0.6 | 18 | | | 1738 | 0.6 | 18 | | | 1138 | 1.8 | 55 | | | 1052 | 1.9 | 58 | | | 1104 | 1.4 | 43 | | | 1055 | 1.4 | 43 | |
| | 2358 | 1.5 | 46 | | | 2314 | 1.4 | 43 | | | 1810 | 0.2 | 6 | | | 1737 | -0.1 | -3 | | | 1752 | 0.0 | 0 | | | 1748 | -0.4 | -12 | |
| 7 F | 0534 | 0.6 | 18 | | 22 Sa | 0437 | 0.7 | 21 | | 7 M | 0058 | 2.1 | 64 | | 22 Tu | 0044 | 2.4 | 73 | | 7 W | 0122 | 2.4 | 73 | | 22 Th | 0128 | 2.7 | 82 | |
| | 1211 | 2.2 | 67 | | | 1114 | 2.2 | 67 | | | 0652 | 0.9 | 27 | | | 0645 | 0.9 | 27 | | | 0745 | 1.1 | 34 | | | 0805 | 1.0 | 30 | |
| | 1842 | 0.5 | 15 | | | 1756 | 0.4 | 12 | | | 1203 | 1.8 | 55 | | | 1135 | 1.8 | 55 | | | 1142 | 1.4 | 43 | | | 1152 | 1.3 | 40 | |
| | | | | | | | | | | | 1830 | 0.1 | 3 | | | 1812 | -0.4 | -12 | | | 1822 | -0.2 | -6 | | | 1832 | -0.6 | -18 | |
| 8 Sa | 0034 | 1.8 | 55 | | 23 Su | 0002 | 1.8 | 55 | | 8 Tu | 0127 | 2.3 | 70 | | 23 W | 0127 | 2.7 | 82 | | 8 Th | 0152 | 2.5 | 76 | | 23 F | 0208 | 2.9 | 88 | |
| | 0619 | 0.5 | 15 | | | 0542 | 0.6 | 18 | | | 0731 | 0.9 | 27 | | | 0741 | 0.9 | 27 | | | 0819 | 1.0 | 30 | | | 0846 | 0.9 | 27 | |
| | 1235 | 2.2 | 67 | | | 1149 | 2.2 | 67 | | | 1228 | 1.7 | 52 | | | 1216 | 1.7 | 52 | | | 1218 | 1.4 | 43 | | | 1244 | 1.3 | 40 | |
| | 1857 | 0.4 | 12 | | | 1819 | 0.1 | 3 | | | 1853 | -0.1 | -3 | | | 1849 | -0.5 | -15 | | | 1853 | -0.3 | -9 | | | 1915 | -0.6 | -18 | |
| 9 Su | 0105 | 2.0 | 61 | | 24 M | 0045 | 2.2 | 67 | | 9 W | 0156 | 2.5 | 76 | | 24 Th | 0209 | 2.9 | 88 | | 9 F | 0222 | 2.6 | 79 | | 24 Sa | 0247 | 3.0 | 91 | |
| | 0657 | 0.5 | 15 | | | 0638 | 0.6 | 18 | | | 0807 | 0.9 | 27 | | | 0832 | 0.9 | 27 | | | 0852 | 1.0 | 30 | | | 0924 | 0.8 | 24 | |
| | 1257 | 2.1 | 64 | | | 1222 | 2.2 | 67 | | | 1253 | 1.7 | 52 | | | 1256 | 1.6 | 49 | | | 1253 | 1.4 | 43 | | | 1331 | 1.4 | 43 | |
| | 1914 | 0.2 | 6 | | | 1847 | -0.1 | -3 | | | 1917 | -0.2 | -6 | | | 1926 | -0.6 | -18 | | | 1925 | -0.4 | -12 | | | 1956 | -0.6 | -18 | |
| 10 M | 0135 | 2.2 | 67 | | 25 Tu | 0128 | 2.5 | 76 | | 10 Th | 0227 | 2.6 | 79 | | 25 F | 0251 | 3.0 | 91 | | 10 Sa | 0254 | 2.7 | 82 | | 25 Su | 0324 | 3.0 | 91 | |
| | 0732 | 0.6 | 18 | | | 0730 | 0.6 | 18 | | | 0843 | 0.9 | 27 | | | 0921 | 0.9 | 27 | | | 0926 | 0.9 | 27 | | | 1001 | 0.7 | 21 | |
| | 1317 | 2.1 | 64 | | | 1255 | 2.1 | 64 | | | 1318 | 1.6 | 49 | | | 1336 | 1.5 | 46 | | | 1327 | 1.4 | 43 | | | 1417 | 1.4 | 43 | |
| | 1933 | 0.1 | 3 | | | 1917 | -0.4 | -12 | | | 1943 | -0.2 | -6 | | | 2005 | -0.6 | -18 | | | 1957 | -0.4 | -12 | | | 2036 | -0.5 | -15 | |
| 11 Tu | 0204 | 2.3 | 70 | | 26 W | 0210 | 2.8 | 85 | | 11 F | 0259 | 2.6 | 79 | | 26 Sa | 0334 | 3.0 | 91 | | 11 Su | 0327 | 2.7 | 82 | | 26 M | 0400 | 2.9 | 88 | |
| | 0806 | 0.6 | 18 | | | 0820 | 0.7 | 21 | | | 0920 | 0.9 | 27 | | | 1010 | 0.9 | 27 | | | 1002 | 0.9 | 27 | | | 1037 | 0.7 | 21 | |
| | 1338 | 2.0 | 61 | | | 1328 | 1.9 | 58 | | | 1343 | 1.5 | 46 | | | 1415 | 1.4 | 43 | | | 1401 | 1.3 | 40 | | | 1501 | 1.3 | 40 | |
| | 1953 | 0.0 | 0 | | | 1950 | -0.5 | -15 | | | 2011 | -0.2 | -6 | | | 2044 | -0.5 | -15 | | | 2029 | -0.4 | -12 | | | 2113 | -0.3 | -9 | |
| 12 W | 0235 | 2.4 | 73 | | 27 Th | 0254 | 2.9 | 88 | | 12 Sa | 0333 | 2.6 | 79 | | 27 Su | 0417 | 2.9 | 88 | | 12 M | 0400 | 2.7 | 82 | | 27 Tu | 0434 | 2.7 | 82 | |
| | 0840 | 0.7 | 21 | | | 0910 | 0.8 | 24 | | | 0959 | 1.0 | 30 | | | 1101 | 0.9 | 27 | | | 1040 | 0.9 | 27 | | | 1114 | 0.7 | 21 | |
| | 1358 | 1.9 | 58 | | | 1400 | 1.8 | 55 | | | 1407 | 1.4 | 43 | | | 1455 | 1.3 | 40 | | | 1437 | 1.3 | 40 | | | 1547 | 1.3 | 40 | |
| | 2015 | 0.0 | 0 | | | 2024 | -0.5 | -15 | | | 2039 | -0.2 | -6 | | | 2123 | -0.3 | -9 | | | 2102 | -0.3 | -9 | | | 2149 | -0.1 | -3 | |
| 13 Th | 0307 | 2.5 | 76 | | 28 F | 0340 | 2.9 | 88 | | 13 Su | 0410 | 2.6 | 79 | | 28 M | 0501 | 2.7 | 82 | | 13 Tu | 0434 | 2.7 | 82 | | 28 W | 0505 | 2.5 | 76 | |
| | 0914 | 0.8 | 24 | | | 1002 | 0.9 | 27 | | | 1044 | 1.1 | 34 | | | 1156 | 0.9 | 27 | | | 1121 | 0.9 | 27 | | | 1152 | 0.7 | 21 | |
| | 1417 | 1.7 | 52 | | | 1431 | 1.6 | 49 | | | 1430 | 1.4 | 43 | | | 1539 | 1.2 | 37 | | | 1518 | 1.2 | 37 | | | 1637 | 1.3 | 40 | |
| | 2038 | -0.1 | -3 | | | 2100 | -0.4 | -12 | | | 2109 | -0.1 | -3 | | | 2202 | -0.1 | -3 | | | 2135 | -0.1 | -3 | | | 2223 | 0.2 | 6 | |
| 14 F | 0340 | 2.4 | 73 | | 29 Sa | 0428 | 2.8 | 85 | | 14 M | 0450 | 2.5 | 76 | | 29 Tu | 0546 | 2.5 | 76 | | 14 W | 0509 | 2.6 | 79 | | 29 Th | 0534 | 2.3 | 70 | |
| | 0950 | 0.9 | 27 | | | 1100 | 1.0 | 30 | | | 1139 | 1.1 | 34 | | | 1300 | 0.9 | 27 | | | 1206 | 0.8 | 24 | | | 1231 | 0.6 | 18 | |
| | 1435 | 1.6 | 49 | | | 1501 | 1.4 | 43 | | | 1453 | 1.3 | 40 | | | 1633 | 1.1 | 34 | | | 1610 | 1.2 | 37 | | | 1737 | 1.2 | 37 | |
| | 2102 | 0.0 | 0 | | | 2138 | -0.3 | -9 | | | 2140 | 0.0 | 0 | | | 2241 | 0.3 | 9 | | | 2212 | 0.1 | 3 | | | 2257 | 0.6 | 18 | |
| 15 Sa | 0417 | 2.4 | 73 | | 30 Su | 0520 | 2.6 | 79 | | 15 Tu | 0535 | 2.4 | 73 | | 30 W | 0631 | | | | | | | | | | | | | |

Hilo, Hawaii Island, Hawaii, 2011

Times and Heights of High and Low Waters

| January | | | | February | | | | March | | | | | | | | | | | | | | | | | | | | | |
|-----------------|--------|------|-----|----------|-----------------|------|------|-------|--------|-----------------|------|------|--------|----|-----------------|------|------|-----|----|-----------------|------|------|----|--|-----------------|------|------|-----|--|
| Time | Height | | | Time | Height | | | Time | Height | | | Time | Height | | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | |
| 1 Sa | 0144 | 2.8 | 85 | | 16 Su | 0128 | 2.6 | 79 | | 1 Tu | 0242 | 2.7 | 82 | | 16 W | 0213 | 2.8 | 85 | | 1 Tu | 0145 | 2.4 | 73 | | 16 W | 0100 | 2.5 | 76 | |
| | 0829 | 0.8 | 24 | | | 0813 | 0.8 | 24 | | | 0915 | 0.4 | 12 | | | 0843 | 0.3 | 9 | | | 0817 | 0.4 | 12 | | | 0733 | 0.2 | 6 | |
| | 1242 | 1.3 | 40 | | | 1218 | 1.2 | 37 | | | 1416 | 1.5 | 46 | | | 1356 | 1.6 | 49 | | | 1334 | 1.4 | 43 | | | 1301 | 1.6 | 49 | |
| | 1858 | -0.3 | -9 | | | 1838 | -0.3 | -9 | | | 2013 | -0.3 | -9 | | | 1957 | -0.5 | -15 | | | 1927 | -0.1 | -3 | | | 1857 | -0.2 | -6 | |
| 2 Su | 0224 | 2.9 | 88 | | 17 M | 0204 | 2.8 | 85 | | 2 W | 0311 | 2.7 | 82 | | 17 Th | 0248 | 2.9 | 88 | | 2 W | 0213 | 2.4 | 73 | | 17 Th | 0137 | 2.6 | 79 | |
| | 0907 | 0.7 | 21 | | | 0844 | 0.7 | 21 | | | 0939 | 0.3 | 9 | | | 0913 | 0.1 | 3 | | | 0837 | 0.2 | 6 | | | 0801 | 0.0 | 0 | |
| | 1332 | 1.3 | 40 | | | 1312 | 1.3 | 40 | | ● | 1452 | 1.6 | 49 | | ○ | 1442 | 1.8 | 55 | | | 1408 | 1.6 | 49 | | | 1348 | 1.9 | 58 | |
| | 1940 | -0.4 | -12 | | | 1923 | -0.5 | -15 | | | 2048 | -0.2 | -6 | | | 2042 | -0.5 | -15 | | | 2003 | -0.1 | -3 | | | 1947 | -0.3 | -9 | |
| 3 M | 0259 | 3.0 | 91 | | 18 Tu | 0240 | 3.0 | 91 | | 3 Th | 0337 | 2.7 | 82 | | 18 F | 0322 | 2.9 | 88 | | 3 Th | 0238 | 2.4 | 73 | | 18 F | 0212 | 2.5 | 76 | |
| | 0940 | 0.6 | 18 | | | 0916 | 0.5 | 15 | | | 1003 | 0.3 | 9 | | | 0944 | -0.1 | -3 | | | 0857 | 0.1 | 3 | | | 0831 | -0.2 | -6 | |
| | 1417 | 1.4 | 43 | | | 1400 | 1.5 | 46 | | | 1527 | 1.7 | 52 | | | 1529 | 2.0 | 61 | | | 1441 | 1.8 | 55 | | | 1434 | 2.2 | 67 | |
| ● | 2020 | -0.4 | -12 | | | 2006 | -0.6 | -18 | | | 2122 | -0.1 | -3 | | | 2128 | -0.4 | -12 | | | 2037 | -0.1 | -3 | | | 2036 | -0.2 | -6 | |
| 4 Tu | 0333 | 2.9 | 88 | | 19 W | 0316 | 3.1 | 94 | | 4 F | 0403 | 2.6 | 79 | | 19 Sa | 0356 | 2.7 | 82 | | 4 F | 0302 | 2.3 | 70 | | 19 Sa | 0247 | 2.4 | 73 | |
| | 1011 | 0.5 | 15 | | | 0949 | 0.4 | 12 | | | 1028 | 0.2 | 6 | | | 1017 | -0.2 | -6 | | | 0918 | 0.0 | 0 | | | 0903 | -0.4 | -12 | |
| | 1458 | 1.4 | 43 | | | 1447 | 1.6 | 49 | | | 1603 | 1.7 | 52 | | | 1617 | 2.2 | 67 | | | 1513 | 1.9 | 58 | | | 1519 | 2.4 | 73 | |
| | 2058 | -0.3 | -9 | | ○ | 2049 | -0.6 | -18 | | | 2155 | 0.0 | 0 | | | 2215 | -0.1 | -3 | | ● | 2110 | 0.0 | 0 | | ○ | 2125 | -0.1 | -3 | |
| 5 W | 0405 | 2.9 | 88 | | 20 Th | 0351 | 3.1 | 94 | | 5 Sa | 0427 | 2.4 | 73 | | 20 Su | 0429 | 2.5 | 76 | | 5 Sa | 0325 | 2.3 | 70 | | 20 Su | 0321 | 2.3 | 70 | |
| | 1042 | 0.5 | 15 | | | 1023 | 0.2 | 6 | | | 1052 | 0.2 | 6 | | | 1051 | -0.3 | -9 | | | 0940 | 0.0 | 0 | | | 0936 | -0.5 | -15 | |
| | 1538 | 1.5 | 46 | | | 1535 | 1.7 | 52 | | | 1640 | 1.8 | 55 | | | 1707 | 2.2 | 67 | | | 1546 | 2.0 | 61 | | | 1606 | 2.6 | 79 | |
| | 2133 | -0.2 | -6 | | | 2133 | -0.5 | -15 | | | 2228 | 0.2 | 6 | | | 2304 | 0.2 | 6 | | | 2143 | 0.1 | 3 | | | 2214 | 0.1 | 3 | |
| 6 Th | 0436 | 2.8 | 85 | | 21 F | 0427 | 3.0 | 91 | | 6 Su | 0450 | 2.3 | 70 | | 21 M | 0501 | 2.2 | 67 | | 6 Su | 0347 | 2.1 | 64 | | 21 M | 0355 | 2.0 | 61 | |
| | 1113 | 0.4 | 12 | | | 1058 | 0.1 | 3 | | | 1118 | 0.2 | 6 | | | 1127 | -0.3 | -9 | | | 1003 | -0.1 | -3 | | | 1010 | -0.5 | -15 | |
| | 1618 | 1.5 | 46 | | | 1625 | 1.8 | 55 | | | 1719 | 1.8 | 55 | | | 1803 | 2.2 | 67 | | | 1619 | 2.1 | 64 | | | 1654 | 2.6 | 79 | |
| | 2208 | 0.0 | 0 | | | 2218 | -0.2 | -6 | | | 2302 | 0.4 | 12 | | | 2359 | 0.5 | 15 | | | 2217 | 0.3 | 9 | | | 2307 | 0.3 | 9 | |
| 7 F | 0505 | 2.6 | 79 | | 22 Sa | 0502 | 2.8 | 85 | | 7 M | 0512 | 2.1 | 64 | | 22 Tu | 0533 | 1.8 | 55 | | 7 M | 0409 | 2.0 | 61 | | 22 Tu | 0429 | 1.7 | 52 | |
| | 1144 | 0.4 | 12 | | | 1135 | 0.1 | 3 | | | 1145 | 0.2 | 6 | | | 1206 | -0.2 | -6 | | | 1027 | -0.1 | -3 | | | 1046 | -0.5 | -15 | |
| | 1701 | 1.5 | 46 | | | 1719 | 1.8 | 55 | | | 1803 | 1.7 | 52 | | | 1907 | 2.1 | 64 | | | 1655 | 2.1 | 64 | | | 1746 | 2.5 | 76 | |
| | 2243 | 0.2 | 6 | | | 2305 | 0.1 | 3 | | | 2340 | 0.7 | 21 | | | | | | | | 2253 | 0.5 | 15 | | | | | | |
| 8 Sa | 0533 | 2.5 | 76 | | 23 Su | 0536 | 2.6 | 79 | | 8 Tu | 0532 | 1.9 | 58 | | 23 W | 0110 | 0.9 | 27 | | 8 Tu | 0430 | 1.8 | 55 | | 23 W | 0005 | 0.6 | 18 | |
| | 1216 | 0.4 | 12 | | | 1214 | 0.0 | 0 | | | 1214 | 0.2 | 6 | | | 0605 | 1.5 | 46 | | | 1052 | -0.1 | -3 | | | 0503 | 1.5 | 46 | |
| | 1748 | 1.5 | 46 | | | 1820 | 1.8 | 55 | | | 1857 | 1.7 | 52 | | | 1252 | -0.1 | -3 | | | 1734 | 2.0 | 61 | | | 1125 | -0.3 | -9 | |
| | 2319 | 0.5 | 15 | | | 2358 | 0.5 | 15 | | | | | | | 2029 | 2.0 | 61 | | | 2332 | 0.7 | 21 | | | 1844 | 2.3 | 70 | | |
| 9 Su | 0600 | 2.3 | 70 | | 24 M | 0610 | 2.2 | 67 | | 9 W | 0026 | 1.0 | 30 | | 24 Th | 0303 | 1.0 | 30 | | 9 W | 0450 | 1.6 | 49 | | 24 Th | 0120 | 0.8 | 24 | |
| | 1249 | 0.4 | 12 | | | 1256 | 0.0 | 0 | | | 0550 | 1.6 | 49 | | | 0639 | 1.2 | 37 | | | 1119 | 0.0 | 0 | | | 0539 | 1.2 | 37 | |
| | 1844 | 1.5 | 46 | | | 1933 | 1.8 | 55 | | | 1250 | 0.2 | 6 | | ○ | 1352 | 0.0 | 0 | | | 1820 | 1.9 | 58 | | | 1210 | -0.1 | -3 | |
| | | | | | | | | | | | 2011 | 1.7 | 52 | | | 2207 | 2.0 | 61 | | | | | | | | 1956 | 2.1 | 64 | |
| 10 M | 0000 | 0.8 | 24 | | 25 Tu | 0105 | 0.9 | 27 | | 10 Th | 0141 | 1.2 | 37 | | 25 F | 1516 | 0.1 | 3 | | 10 Th | 0021 | 0.9 | 27 | | 25 F | 0312 | 0.8 | 24 | |
| | 0625 | 2.0 | 61 | | | 0645 | 1.9 | 58 | | | 0606 | 1.4 | 43 | | | 2332 | 2.1 | 64 | | | 0510 | 1.4 | 43 | | | 0629 | 1.0 | 30 | |
| | 1326 | 0.4 | 12 | | | 1344 | 0.0 | 0 | | ○ | 1338 | 0.2 | 6 | | | | | | | | 1153 | 0.0 | 0 | | | 1310 | 0.1 | 3 | |
| | 1956 | 1.5 | 46 | | | 2103 | 1.9 | 58 | | | 2153 | 1.7 | 52 | | | | | | | | 1922 | 1.8 | 55 | | | 2122 | 2.0 | 61 | |
| 11 Tu | 0053 | 1.0 | 30 | | 26 W | 0248 | 1.1 | 34 | | 11 F | 1449 | 0.2 | 6 | | 26 Sa | 0705 | 0.8 | 24 | | 11 F | 0140 | 1.0 | 30 | | 26 Sa | 0520 | 0.7 | 21 | |
| | 0651 | 1.8 | 55 | | | 0724 | 1.5 | 46 | | | 2322 | 1.9 | 58 | | | 1036 | 0.9 | 27 | | | 0527 | 1.2 | 37 | | | 0831 | 0.8 | 24 | |
| | 1409 | 0.3 | 9 | | | 1442 | 0.0 | 0 | | | | | | | 1646 | 0.1 | 3 | | | 1239 | 0.1 | 3 | | | 1440 | 0.3 | 9 | | |
| | 2130 | 1.6 | 49 | | ● | 2240 | 2.1 | 64 | | | | | | | | | | | | | 2049 | 1.8 | 55 | | ○ | 2245 | 2.0 | 61 | |
| 12 W | 0224 | 1.3 | 40 | | 27 Th | 0526 | 1.2 | 37 | | 12 Sa | 1612 | 0.1 | 3 | | 27 Su | 0030 | 2.2 | 67 | | 12 Sa | 1351 | 0.2 | 6 | | 27 Su | 0615 | 0.6 | 18 | |
| | 0720 | 1.6 | 49 | | | 0825 | 1.3 | 40 | | | | | | | | 0733 | 0.6 | 18 | | | 2224 | 1.9 | 58 | | | 1051 | 0.9 | 27 | |
| | 1500 | 0.3 | 9 | | | 1551 | 0.0 | 0 | | | | | | | | 1203 | 1.1 | 34 | | | | | | | 1621 | 0.3 | 9 | | |
| ○ | 2301 | 1.8 | 55 | | | 2357 | 2.3 | 70 | | | | | | | | 1755 | 0.1 | 3 | | ○ | | | | | 2345 | 2.0 | 61 | | |
| 13 Th | 0504 | 1.3 | 40 | | 28 F | 0712 | 1.0 | 30 | | 13 Su | 0018 | 2.2 | 67 | | 28 M | 0112 | 2.3 | 70 | | 13 Su | 0624 | 0.8 | 24 | | 28 M | 0645 | 0.4 | 12 | |
| | 0806 | 1.4 | 43 | | | 1014 | 1.1 | 34 | | | 0727 | 0.8 | 24 | | | 0756 | 0.5 | 15 | | | 0842 | | | | | | | | |

Hilo, Hawaii Island, Hawaii, 2011

Times and Heights of High and Low Waters

| April | | | | May | | | | June | | | | | | | | | | | | | | | | | | | | | |
|-----------------|--------|------|----|------|-----------------|------|------|------|--------|-----------------|------|------|--------|----|-----------------|------|------|-----|----|-----------------|------|------|-----|--|-----------------|------|------|-----|--|
| Time | Height | | | Time | Height | | | Time | Height | | | Time | Height | | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | |
| 1 F | 0155 | 2.0 | 61 | | 16 Sa | 0132 | 2.1 | 64 | | 1 Su | 0133 | 1.6 | 49 | | 16 M | 0135 | 1.5 | 46 | | 1 W | 0204 | 1.2 | 37 | | 16 Th | 0249 | 1.2 | 37 | |
| | 0810 | -0.1 | -3 | | | 0750 | -0.5 | -15 | | | 0747 | -0.3 | -9 | | | 0751 | -0.7 | -21 | | | 0816 | -0.5 | -15 | | | 0854 | -0.6 | -18 | |
| | 1426 | 2.0 | 61 | | | 1425 | 2.5 | 76 | | | 1441 | 2.4 | 73 | | | 1501 | 2.9 | 88 | | | 1537 | 2.7 | 82 | | | 1614 | 2.9 | 88 | |
| | 2026 | 0.2 | 6 | | | 2034 | 0.1 | 3 | | | 2057 | 0.5 | 15 | | | 2132 | 0.4 | 12 | | | 2216 | 0.5 | 15 | | | 2259 | 0.4 | 12 | |
| 2 Sa | 0219 | 2.0 | 61 | | 17 Su | 0210 | 2.0 | 61 | | 2 M | 0202 | 1.5 | 46 | | 17 Tu | 0218 | 1.4 | 43 | | 2 Th | 0243 | 1.2 | 37 | | 17 F | 0336 | 1.2 | 37 | |
| | 0832 | -0.2 | -6 | | | 0824 | -0.7 | -21 | | | 0814 | -0.4 | -12 | | | 0830 | -0.8 | -24 | | | 0852 | -0.5 | -15 | | | 0935 | -0.4 | -12 | |
| | 1457 | 2.2 | 67 | | | 1509 | 2.8 | 85 | | | 1514 | 2.5 | 76 | | | 1545 | 3.0 | 91 | | | 1614 | 2.8 | 85 | | | 1652 | 2.8 | 85 | |
| | 2101 | 0.2 | 6 | | | 2126 | 0.2 | 6 | | | 2136 | 0.5 | 15 | | | 2222 | 0.4 | 12 | | | 2258 | 0.5 | 15 | | | 2340 | 0.4 | 12 | |
| 3 Su | 0243 | 1.9 | 58 | | 18 M | 0247 | 1.8 | 55 | | 3 Tu | 0231 | 1.4 | 43 | | 18 W | 0302 | 1.3 | 40 | | 3 F | 0323 | 1.2 | 37 | | 18 Sa | 0424 | 1.2 | 37 | |
| | 0855 | -0.2 | -6 | | | 0859 | -0.7 | -21 | | | 0842 | -0.4 | -12 | | | 0910 | -0.7 | -21 | | | 0929 | -0.5 | -15 | | | 1016 | -0.2 | -6 | |
| | 1529 | 2.3 | 70 | | | 1555 | 2.8 | 85 | | | 1548 | 2.5 | 76 | | | 1629 | 2.9 | 88 | | | 1652 | 2.8 | 85 | | | 1729 | 2.7 | 82 | |
| | 2137 | 0.3 | 9 | | | 2218 | 0.3 | 9 | | | 2216 | 0.5 | 15 | | | 2313 | 0.4 | 12 | | | 2342 | 0.5 | 15 | | | | | | |
| 4 M | 0307 | 1.7 | 52 | | 19 Tu | 0324 | 1.6 | 49 | | 4 W | 0301 | 1.3 | 40 | | 19 Th | 0346 | 1.2 | 37 | | 4 Sa | 0408 | 1.1 | 34 | | 19 Su | 0020 | 0.4 | 12 | |
| | 0918 | -0.3 | -9 | | | 0935 | -0.7 | -21 | | | 0912 | -0.4 | -12 | | | 0951 | -0.5 | -15 | | | 1008 | -0.3 | -9 | | | 0515 | 1.2 | 37 | |
| | 1602 | 2.3 | 70 | | | 1641 | 2.8 | 85 | | | 1624 | 2.5 | 76 | | | 1713 | 2.8 | 85 | | | 1056 | 0.0 | 0 | | | 1805 | 2.5 | 76 | |
| | 2213 | 0.4 | 12 | | | 2312 | 0.4 | 12 | | | 2258 | 0.5 | 15 | | | | | | | | | | | | | | | | |
| 5 Tu | 0332 | 1.6 | 49 | | 20 W | 0403 | 1.4 | 43 | | 5 Th | 0333 | 1.2 | 37 | | 20 F | 0005 | 0.4 | 12 | | 5 Su | 0029 | 0.5 | 15 | | 20 M | 0102 | 0.4 | 12 | |
| | 0944 | -0.3 | -9 | | | 1014 | -0.6 | -18 | | | 0944 | -0.4 | -12 | | | 0434 | 1.1 | 34 | | | 0501 | 1.1 | 34 | | | 0613 | 1.2 | 37 | |
| | 1636 | 2.3 | 70 | | | 1730 | 2.7 | 82 | | | 1704 | 2.5 | 76 | | | 1033 | -0.3 | -9 | | | 1051 | -0.2 | -6 | | | 1138 | 0.3 | 9 | |
| | 2252 | 0.5 | 15 | | | | | | | | 2347 | 0.6 | 18 | | | 1759 | 2.6 | 79 | | | 1815 | 2.6 | 79 | | | 1840 | 2.3 | 70 | |
| 6 W | 0356 | 1.5 | 46 | | 21 Th | 0011 | 0.5 | 15 | | 6 F | 0408 | 1.1 | 34 | | 21 Sa | 0100 | 0.5 | 15 | | 6 M | 0118 | 0.4 | 12 | | 21 Tu | 0143 | 0.4 | 12 | |
| | 1011 | -0.3 | -9 | | | 0444 | 1.2 | 37 | | | 1019 | -0.3 | -9 | | | 0528 | 1.0 | 30 | | | 0606 | 1.1 | 34 | | | 0721 | 1.2 | 37 | |
| | 1715 | 2.3 | 70 | | | 1054 | -0.4 | -12 | | | 1748 | 2.4 | 73 | | | 1117 | -0.1 | -3 | | | 1141 | 0.1 | 3 | | | 1226 | 0.6 | 18 | |
| | 2337 | 0.6 | 18 | | | 1823 | 2.5 | 76 | | | | | | | | 1846 | 2.4 | 73 | | | 1859 | 2.5 | 76 | | | 1914 | 2.0 | 61 | |
| 7 Th | 0421 | 1.3 | 40 | | 22 F | 0121 | 0.6 | 18 | | 7 Sa | 0043 | 0.6 | 18 | | 22 Su | 0158 | 0.5 | 15 | | 7 Tu | 0208 | 0.3 | 9 | | 22 W | 0226 | 0.3 | 9 | |
| | 1041 | -0.2 | -6 | | | 0532 | 1.0 | 30 | | | 0450 | 1.0 | 30 | | | 0638 | 0.9 | 27 | | | 0728 | 1.1 | 34 | | | 0844 | 1.3 | 40 | |
| | 1800 | 2.2 | 67 | | | 1140 | -0.1 | -3 | | | 1059 | -0.2 | -6 | | | 1206 | 0.2 | 6 | | | 1242 | 0.4 | 12 | | | 1329 | 0.9 | 27 | |
| | | | | | | 1922 | 2.3 | 70 | | | 1838 | 2.4 | 73 | | | 1934 | 2.2 | 67 | | | 1946 | 2.3 | 70 | | | 1949 | 1.8 | 55 | |
| 8 F | 0034 | 0.8 | 24 | | 23 Sa | 0246 | 0.6 | 18 | | 8 Su | 0150 | 0.6 | 18 | | 23 M | 0256 | 0.4 | 12 | | 8 W | 0258 | 0.2 | 6 | | 23 Th | 0308 | 0.3 | 9 | |
| | 0448 | 1.1 | 34 | | | 0642 | 0.9 | 27 | | | 0550 | 0.9 | 27 | | | 0808 | 1.0 | 30 | | | 0903 | 1.3 | 40 | | | 1012 | 1.5 | 46 | |
| | 1117 | -0.1 | -3 | | | 1236 | 0.2 | 6 | | | 1148 | 0.0 | 0 | | | 1308 | 0.5 | 15 | | | 1404 | 0.7 | 21 | | | 1503 | 1.1 | 34 | |
| | 1856 | 2.1 | 64 | | | 2029 | 2.1 | 64 | | | 1933 | 2.3 | 70 | | | 2024 | 2.0 | 61 | | | 2036 | 2.1 | 64 | | | 2028 | 1.6 | 49 | |
| 9 Sa | 0156 | 0.8 | 24 | | 24 Su | 0409 | 0.6 | 18 | | 9 M | 0259 | 0.5 | 15 | | 24 Tu | 0347 | 0.4 | 12 | | 9 Th | 0346 | 0.0 | 0 | | 24 F | 0351 | 0.2 | 6 | |
| | 0524 | 1.0 | 30 | | | 0839 | 0.8 | 24 | | | 0722 | 0.9 | 27 | | | 0948 | 1.1 | 34 | | | 1031 | 1.6 | 49 | | | 1124 | 1.7 | 52 | |
| | 1204 | 0.0 | 0 | | | 1355 | 0.4 | 12 | | | 1254 | 0.2 | 6 | | | 1430 | 0.8 | 24 | | | 1547 | 0.9 | 27 | | | 1658 | 1.2 | 37 | |
| | 2007 | 2.0 | 61 | | | 2138 | 2.0 | 61 | | | 2033 | 2.2 | 67 | | | 2113 | 1.8 | 55 | | | 2129 | 1.8 | 55 | | | 2116 | 1.5 | 46 | |
| 10 Su | 0350 | 0.8 | 24 | | 25 M | 0506 | 0.4 | 12 | | 10 Tu | 0357 | 0.4 | 12 | | 25 W | 0429 | 0.3 | 9 | | 10 F | 0432 | -0.2 | -6 | | 25 Sa | 0435 | 0.1 | 3 | |
| | 0643 | 0.9 | 27 | | | 1033 | 1.0 | 30 | | | 0915 | 1.0 | 30 | | | 1107 | 1.4 | 43 | | | 1140 | 2.0 | 61 | | | 1217 | 2.0 | 61 | |
| | 1315 | 0.2 | 6 | | | 1535 | 0.6 | 18 | | | 1424 | 0.4 | 12 | | | 1607 | 0.9 | 27 | | | 1728 | 0.9 | 27 | | | 1832 | 1.1 | 34 | |
| | 2125 | 2.0 | 61 | | | 2237 | 1.9 | 58 | | | 2133 | 2.1 | 64 | | | 2201 | 1.7 | 52 | | | 2226 | 1.6 | 49 | | | 2214 | 1.3 | 40 | |
| 11 M | 0504 | 0.6 | 18 | | 26 Tu | 0542 | 0.3 | 9 | | 11 W | 0442 | 0.2 | 6 | | 26 Th | 0504 | 0.1 | 3 | | 11 Sa | 0517 | -0.3 | -9 | | 26 Su | 0517 | 0.0 | 0 | |
| | 0912 | 0.9 | 27 | | | 1142 | 1.3 | 40 | | | 1045 | 1.3 | 40 | | | 1201 | 1.6 | 49 | | | 1237 | 2.4 | 73 | | | 1259 | 2.2 | 67 | |
| | 1453 | 0.3 | 9 | | | 1700 | 0.6 | 18 | | | 1602 | 0.6 | 18 | | | 1732 | 0.9 | 27 | | | 1851 | 0.8 | 24 | | | 1933 | 1.0 | 30 | |
| | 2233 | 2.1 | 64 | | | 2324 | 1.8 | 55 | | | 2228 | 2.0 | 61 | | | 2246 | 1.6 | 49 | | | 2323 | 1.5 | 46 | | | 2316 | 1.2 | 37 | |
| 12 Tu | 0542 | 0.4 | 12 | | 27 W | 0610 | 0.2 | 6 | | 12 Th | 0521 | 0.0 | 0 | | 27 F | 0536 | 0.0 | 0 | | 12 Su | 0601 | -0.5 | -15 | | 27 M | 0559 | -0.2 | -6 | |
| | 1055 | 1.1 | 34 | | | 1228 | 1.5 | 46 | | | 1151 | 1.7 | 52 | | | 1243 | 1.9 | 58 | | | 1326 | 2.7 | 82 | | | 1336 | 2.4 | 73 | |
| | 1628 | 0.3 | 9 | | | 1804 | 0.6 | 18 | | | 1728 | 0.6 | 18 | | | 1838 | 0.9 | 27 | | | 1956 | 0.7 | 21 | | | 2016 | 0.9 | 27 | |
| | 2327 | 2.2 | 67 | | | | | | | | 2319 | 1.9 | 58 | | | 2328 | 1.5 | 46 | | | | | | | | | | | |
| 13 W | 0614 | 0.2 | 6 | | 28 Th | 0002 | 1.8 | 55 | | 13 F | 0558 | -0.3 | -9 | | 28 Sa | 0606 | -0.1 | -3 | | 13 M | 0019 | 1.4 | 43 | | 28 Tu | 0012 | 1.2 | 37 | |
| | 1201 | 1.5 | 46 | | | 0635 | 0.1 | 3 | | | 1244 | 2.1 | 64 | | | 1319 | 2.2 | 67 | | | 0645 | -0.6 | -18 | | | 0640 | -0.3 | -9 | |
| | 1743 | 0.2 | 6 | | | 1305 | 1.8 | 55 | | | 1841 | 0.5 | 15 | | | 1931 | 0.8 | 24 | | | 1411 | 2.9 | 88 | | | 1411 | 2.6 | 79 | |
| | | | | | | 1855 | 0.6 | 18 | | | | | | | | | | | | | 2049 | 0.6 | 18 | | | 2052 | 0.7 | 21 | |
| 14 Th | 0012 | 2.2 | 67 | | 29 F | 0034 | 1.7 | 52 | | 14 Sa | 0006 | 1.8 | 55 | | 29 Su | 0008 | 1.4 | 43 | | 14 Tu | 0112 | 1.3 | 40 | | 29 W | 0102 | 1.2 | 37 | |
| | 0645 | -0.1 | -3 | | | 0658 | -0.1 | -3 | | | 0635 | -0.5 | -15 | | | 0637 | -0.2 | -6 | | | 0729 | -0.7 | -21 | | | 0720 | -0.4 | -12 | |
| | 1252 | 1.8 | 55 | | | 1338 | 2.0 | 61 | | | 1331 | 2.5 | 76 | | | 1353 | 2.4 | 73 | | | 1453 | 3.0 | 91 | | | 1446 | 2.8 | 85 | |
| | 1845 | 0.1 | 3 | | | 1938 | 0.5 | 15 | | | 1943 | 0.5 | 15 | | | 2016 | 0.7 | 21 | | | 2135 | 0.5 | 15 | | | 2126 | 0.6 | 18 | |
| 15 F | 0053 | 2.2 | 67 | | 30 Sa | 0104 | 1.7 | 52 | | 15 Su | 0051 | 1.7 | 52 | | 30 M | 0047 | 1.3 | 40 | | 15 W | 0202 | 1.3 | 40 | | 30 Th | 0149 | 1.3 | 40 | |
| | 0717 | -0.3 | -9 | | | 0722 | -0.2 | -6 | | | 0713 | -0.6 | -18 | | | 0709 | -0.4 | -12 | | | 0812 | -0.7 | -21 | | | 0800 | -0.5 | -15 | |

Hilo, Hawaii Island, Hawaii, 2011

Times and Heights of High and Low Waters

| July | | | | August | | | | September | | | | | | | | | | | | | | | | | | | | | |
|-----------------|--------|------|-----|--------|-----------------|------|------|-----------|--------|-----------------|------|------|--------|----|-----------------|------|------|----|----|-----------------|------|------|----|------|-----------------|------|------|----|--|
| Time | Height | | | Time | Height | | | Time | Height | | | Time | Height | | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | |
| 1 F | 0234 | 1.3 | 40 | | 16 Sa | 0327 | 1.5 | 46 | | 1 M | 0402 | 1.8 | 55 | | 16 Tu | 0428 | 1.9 | 58 | | 1 Th | 0535 | 2.4 | 73 | | 16 F | 0519 | 2.3 | 70 | |
| | 0840 | -0.5 | -15 | | | 0922 | -0.3 | -9 | | | 0956 | -0.2 | -6 | | | 1018 | 0.3 | 9 | | | 1136 | 0.7 | 21 | | | 1123 | 0.9 | 27 | |
| | 1557 | 2.9 | 88 | | | 1623 | 2.8 | 85 | | | 1638 | 2.8 | 85 | | | 1635 | 2.3 | 70 | | | 1708 | 2.0 | 61 | | | 1633 | 1.7 | 52 | |
| | 2237 | 0.4 | 12 | | | 2259 | 0.4 | 12 | | | 2309 | 0.1 | 3 | | | 2300 | 0.2 | 6 | | | 2338 | -0.1 | -3 | | | 2259 | 0.2 | 6 | |
| 2 Sa | 0320 | 1.3 | 40 | | 17 Su | 0409 | 1.5 | 46 | | 2 Tu | 0454 | 1.9 | 58 | | 17 W | 0507 | 1.9 | 58 | | 2 F | 0637 | 2.4 | 73 | | 17 Sa | 0605 | 2.2 | 67 | |
| | 0920 | -0.5 | -15 | | | 0959 | -0.1 | -3 | | | 1042 | 0.1 | 3 | | | 1054 | 0.6 | 18 | | | 1244 | 1.0 | 30 | | | 1214 | 1.1 | 34 | |
| | 1633 | 2.9 | 88 | | | 1653 | 2.6 | 79 | | | 1711 | 2.6 | 79 | | | 1657 | 2.1 | 64 | | | 1743 | 1.7 | 52 | | | 1653 | 1.6 | 49 | |
| | 2315 | 0.4 | 12 | | | 2329 | 0.3 | 9 | | | 2345 | 0.0 | 0 | | | 2327 | 0.2 | 6 | | | | | | | | 2332 | 0.3 | 9 | |
| 3 Su | 0408 | 1.4 | 43 | | 18 M | 0453 | 1.5 | 46 | | 3 W | 0551 | 1.9 | 58 | | 18 Th | 0551 | 1.9 | 58 | | 3 Sa | 0023 | 0.0 | 0 | | 18 Su | 0705 | 2.1 | 64 | |
| | 1002 | -0.3 | -9 | | | 1036 | 0.2 | 6 | | | 1134 | 0.4 | 12 | | | 1133 | 0.8 | 24 | | | 0753 | 2.3 | 70 | | | 1335 | 1.2 | 37 | |
| | 1709 | 2.9 | 88 | | | 1721 | 2.5 | 76 | | | 1745 | 2.3 | 70 | | | 1718 | 1.9 | 58 | | | 1425 | 1.2 | 37 | | | 1710 | 1.4 | 43 | |
| | 2353 | 0.3 | 9 | | | | | | | | | | | | | 2356 | 0.3 | 9 | | | 1822 | 1.4 | 43 | | | | | | |
| 4 M | 0502 | 1.4 | 43 | | 19 Tu | 0000 | 0.3 | 9 | | 4 Th | 0025 | 0.0 | 0 | | 19 F | 0644 | 1.9 | 58 | | 4 Su | 0122 | 0.1 | 3 | | 19 M | 0016 | 0.4 | 12 | |
| | 1046 | -0.1 | -3 | | | 0540 | 1.5 | 46 | | | 0658 | 2.0 | 61 | | | 1221 | 1.1 | 34 | | | 0926 | 2.3 | 70 | | | 0828 | 2.0 | 61 | |
| | 1745 | 2.7 | 82 | | | 1113 | 0.4 | 12 | | | 1236 | 0.8 | 24 | | | 1737 | 1.7 | 52 | | | 1657 | 1.1 | 34 | | | | | | |
| | | | | | | 1747 | 2.3 | 70 | | | 1819 | 2.0 | 61 | | | | | | | | 1937 | 1.2 | 37 | | | | | | |
| 5 Tu | 0034 | 0.2 | 6 | | 20 W | 0033 | 0.3 | 9 | | 5 F | 0111 | 0.0 | 0 | | 20 Sa | 0031 | 0.3 | 9 | | 5 M | 0242 | 0.3 | 9 | | 20 Tu | 0127 | 0.5 | 15 | |
| | 0604 | 1.4 | 43 | | | 0633 | 1.5 | 46 | | | 0819 | 2.0 | 61 | | | 0754 | 1.8 | 55 | | | 1053 | 2.4 | 73 | | | 1000 | 2.1 | 64 | |
| | 1136 | 0.2 | 6 | | | 1154 | 0.7 | 21 | | | 1403 | 1.1 | 34 | | | 1337 | 1.3 | 40 | | | 1824 | 0.9 | 27 | | | 1804 | 1.0 | 30 | |
| | 1823 | 2.5 | 76 | | | 1812 | 2.0 | 61 | | | 1857 | 1.7 | 52 | | | 1754 | 1.5 | 46 | | | 2200 | 1.1 | 34 | | | 2032 | 1.1 | 34 | |
| 6 W | 0117 | 0.1 | 3 | | 21 Th | 0107 | 0.3 | 9 | | 6 Sa | 0205 | 0.0 | 0 | | 21 Su | 0119 | 0.4 | 12 | | 6 Tu | 0413 | 0.3 | 9 | | 21 W | 0306 | 0.5 | 15 | |
| | 0717 | 1.5 | 46 | | | 0739 | 1.6 | 49 | | | 0952 | 2.1 | 64 | | | 0930 | 1.9 | 58 | | | 1157 | 2.5 | 76 | | | 1107 | 2.3 | 70 | |
| | 1236 | 0.6 | 18 | | | 1246 | 1.0 | 30 | | | 1621 | 1.2 | 37 | | | | | | | | 1901 | 0.8 | 24 | | | 1820 | 0.9 | 27 | |
| | 1901 | 2.2 | 67 | | | 1837 | 1.8 | 55 | | | 1949 | 1.4 | 43 | | | | | | | | 2334 | 1.3 | 40 | | | 2242 | 1.2 | 37 | |
| 7 Th | 0203 | 0.0 | 0 | | 22 F | 0146 | 0.3 | 9 | | 7 Su | 0311 | 0.0 | 0 | | 22 M | 0227 | 0.4 | 12 | | 7 W | 0527 | 0.2 | 6 | | 22 Th | 0432 | 0.4 | 12 | |
| | 0842 | 1.7 | 52 | | | 0902 | 1.6 | 49 | | | 1117 | 2.3 | 70 | | | 1100 | 2.0 | 61 | | | 1243 | 2.5 | 76 | | | 1154 | 2.5 | 76 | |
| | 1356 | 0.9 | 27 | | | 1407 | 1.2 | 37 | | | 1828 | 1.1 | 34 | | | | | | | | 1928 | 0.6 | 18 | | | 1842 | 0.7 | 21 | |
| | 1943 | 1.9 | 58 | | | 1902 | 1.6 | 49 | | | 2126 | 1.2 | 37 | | | | | | | | | | | 2349 | | 1.5 | 46 | | |
| 8 F | 0253 | 0.0 | 0 | | 23 Sa | 0234 | 0.3 | 9 | | 8 M | 0425 | 0.0 | 0 | | 23 Tu | 0351 | 0.3 | 9 | | 8 Th | 0032 | 1.5 | 46 | | 23 F | 0538 | 0.3 | 9 | |
| | 1013 | 1.9 | 58 | | | 1034 | 1.8 | 55 | | | 1220 | 2.5 | 76 | | | 1158 | 2.2 | 67 | | | 0622 | 0.2 | 6 | | | 1233 | 2.6 | 79 | |
| | 1550 | 1.1 | 34 | | | 1634 | 1.3 | 40 | | | 1925 | 0.9 | 27 | | | 1909 | 1.0 | 30 | | | 1320 | 2.6 | 79 | | | 1907 | 0.5 | 15 | |
| | 2034 | 1.6 | 49 | | | 1935 | 1.4 | 43 | | | 2310 | 1.2 | 37 | | | 2238 | 1.2 | 37 | | | 1952 | 0.5 | 15 | | | | | | |
| 9 Sa | 0348 | -0.1 | -3 | | 24 Su | 0332 | 0.2 | 6 | | 9 Tu | 0532 | -0.1 | -3 | | 24 W | 0503 | 0.2 | 6 | | 9 F | 0114 | 1.7 | 52 | | 24 Sa | 0039 | 1.8 | 55 | |
| | 1130 | 2.2 | 67 | | | 1145 | 2.0 | 61 | | | 1309 | 2.7 | 82 | | | 1240 | 2.5 | 76 | | | 0707 | 0.1 | 3 | | | 0632 | 0.2 | 6 | |
| | 1751 | 1.1 | 34 | | | 1848 | 1.1 | 34 | | | 2000 | 0.7 | 21 | | | 1929 | 0.8 | 24 | | | 1350 | 2.6 | 79 | | | 1309 | 2.7 | 82 | |
| | 2141 | 1.4 | 43 | | | 2057 | 1.2 | 37 | | | | | | | | 2353 | 1.3 | 40 | | | 2014 | 0.4 | 12 | | | 1934 | 0.2 | 6 | |
| 10 Su | 0444 | -0.2 | -6 | | 25 M | 0433 | 0.1 | 3 | | 10 W | 0021 | 1.3 | 40 | | 25 Th | 0600 | 0.0 | 0 | | 10 Sa | 0151 | 1.9 | 58 | | 25 Su | 0125 | 2.1 | 64 | |
| | 1231 | 2.5 | 76 | | | 1234 | 2.2 | 67 | | | 0628 | -0.1 | -3 | | | 1316 | 2.7 | 82 | | | 0746 | 0.1 | 3 | | | 0722 | 0.1 | 3 | |
| | 1915 | 1.0 | 30 | | | 1933 | 1.0 | 30 | | | 1348 | 2.7 | 82 | | | 1952 | 0.6 | 18 | | | 1416 | 2.6 | 79 | | | 1344 | 2.7 | 82 | |
| | 2258 | 1.2 | 37 | | | 2242 | 1.2 | 37 | | | 2029 | 0.6 | 18 | | | | | | | | 2035 | 0.3 | 9 | | | 2003 | 0.0 | 0 | |
| 11 M | 0540 | -0.3 | -9 | | 26 Tu | 0529 | 0.0 | 0 | | 11 Th | 0114 | 1.4 | 43 | | 26 F | 0047 | 1.5 | 46 | | 11 Su | 0225 | 2.1 | 64 | | 26 M | 0209 | 2.4 | 73 | |
| | 1320 | 2.7 | 82 | | | 1314 | 2.4 | 73 | | | 0715 | -0.2 | -6 | | | 0649 | -0.1 | -3 | | | 0821 | 0.2 | 6 | | | 0811 | 0.1 | 3 | |
| | 2009 | 0.8 | 24 | | | 2002 | 0.9 | 27 | | | 1422 | 2.8 | 85 | | | 1350 | 2.8 | 85 | | | 1441 | 2.5 | 76 | | | 1418 | 2.6 | 79 | |
| | | | | | | 2356 | 1.2 | 37 | | | 2055 | 0.5 | 15 | | | 2019 | 0.5 | 15 | | | 2057 | 0.2 | 6 | | | 2034 | -0.2 | -6 | |
| 12 Tu | 0009 | 1.2 | 37 | | 27 W | 0619 | -0.2 | -6 | | 12 F | 0157 | 1.6 | 49 | | 27 Sa | 0134 | 1.8 | 55 | | 12 M | 0258 | 2.2 | 67 | | 27 Tu | 0254 | 2.7 | 82 | |
| | 0632 | -0.4 | -12 | | | 1349 | 2.7 | 82 | | | 0756 | -0.2 | -6 | | | 0734 | -0.2 | -6 | | | 0856 | 0.3 | 9 | | | 0900 | 0.2 | 6 | |
| | 1403 | 2.8 | 85 | | | 2030 | 0.7 | 21 | | | 1452 | 2.8 | 85 | | | 1423 | 2.9 | 88 | | | 1504 | 2.4 | 73 | | | 1453 | 2.5 | 76 | |
| | 2049 | 0.7 | 21 | | | | | | | | 2120 | 0.4 | 12 | | | 2047 | 0.3 | 9 | | | 2119 | 0.1 | 3 | | | 2107 | -0.3 | -9 | |
| 13 W | 0108 | 1.3 | 40 | | 28 Th | 0052 | 1.3 | 40 | | 13 Sa | 0236 | 1.7 | 52 | | 28 Su | 0219 | 2.0 | 61 | | 13 Tu | 0331 | 2.3 | 70 | | 28 W | 0340 | 2.9 | 88 | |
| | 0719 | -0.5 | -15 | | | 0704 | -0.3 | -9 | | | 0833 | -0.1 | -3 | | | 0819 | -0.2 | -6 | | | 0930 | 0.4 | 12 | | | 0950 | 0.3 | 9 | |
| | 1442 | 2.9 | 88 | | | 1423 | 2.8 | 85 | | | 1520 | 2.7 | 82 | | | 1456 | 2.9 | 88 | | | 1528 | 2.3 | 70 | | | 1527 | 2.2 | 67 | |
| | 2124 | 0.5 | 15 | | | 2059 | 0.6 | 18 | | | 2144 | 0.3 | 9 | | | 2118 | 0.1 | 3 | | | 2142 | 0.1 | 3 | | | 2142 | -0.3 | -9 | |
| 14 Th | 0158 | 1.3 | 40 | | 29 F | 0141 | 1.4 | 43 | | 14 Su | 0313 | 1.8 | 55 | | 29 M | 0305 | 2.2 | 67 | | 14 W | 0404 | 2.3 | 70 | | 29 Th | 0428 | 2.9 | 88 | |
| | 0803 | -0.5 | -15 | | | 0747 | -0.4 | -12 | | | 0908 | 0.0 | 0 | | | 0904 | -0.1 | -3 | | | 1005 | | | | | | | | |

Hilo, Hawaii Island, Hawaii, 2011

Times and Heights of High and Low Waters

| October | | | | November | | | | December | | | | | | | | | | | | | | | | |
|-----------------|--------|-----|------|----------|-----------------|------|--------|----------|------|-----------------|------|------|--------|------|-----------------|------|------|-----|------|-----------------|------|------|----|--|
| Time | Height | | Time | Height | | Time | Height | | Time | Height | | Time | Height | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | |
| 1 Sa | 0618 | 2.7 | 82 | | 16 Su | 0542 | 2.4 | 73 | | 1 Tu | 0014 | 0.3 | 9 | | | | | | | | | | | |
| | 1255 | 1.0 | 30 | | | 1219 | 1.0 | 30 | | | 0803 | 2.4 | 73 | | 16 W | 0702 | 2.5 | 76 | | | | | | |
| | 1718 | 1.5 | 46 | | | 1628 | 1.4 | 43 | | | 1538 | 0.8 | 24 | | | 1427 | 0.8 | 24 | | 1 Th | 0046 | 0.7 | 21 | |
| | 2345 | 0.0 | 0 | | | 2254 | 0.2 | 6 | | | 2011 | 1.1 | 34 | | | 1843 | 1.1 | 34 | | | 0759 | 2.3 | 70 | |
| | | | | | | | | | | | | | | | | | | | 1520 | | 0.6 | 18 | | |
| | | | | | | | | | | | | | | | | | | | 2120 | | 1.4 | 43 | | |
| 2 Su | 0727 | 2.5 | 76 | | 17 M | 0635 | 2.3 | 70 | | 2 W | 0131 | 0.6 | 18 | | 17 Th | 0017 | 0.5 | 15 | | 2 F | 0205 | 1.0 | 30 | |
| | 1439 | 1.0 | 30 | | | 1340 | 1.1 | 34 | | | 0911 | 2.3 | 70 | | | 0758 | 2.4 | 73 | | | 0848 | 2.0 | 61 | |
| | 1813 | 1.2 | 37 | | | 1702 | 1.2 | 37 | | | 1639 | 0.7 | 21 | | | 1526 | 0.7 | 21 | | | 1607 | 0.5 | 15 | |
| | | | | 2338 | | 0.4 | 12 | | 2209 | | 1.3 | 40 | | 2037 | | 1.2 | 37 | | 2250 | | 1.6 | 49 | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 M | 0045 | 0.3 | 9 | | 18 Tu | 0741 | 2.3 | 70 | | 3 Th | 0310 | 0.8 | 24 | | 18 F | 0140 | 0.7 | 21 | | 3 Sa | 0348 | 1.1 | 34 | |
| | 0850 | 2.4 | 73 | | | 1532 | 1.0 | 30 | | | 1012 | 2.2 | 67 | | | 0856 | 2.3 | 70 | | | 0938 | 1.9 | 58 | |
| | 1637 | 1.0 | 30 | | | 1815 | 1.1 | 34 | | | 1720 | 0.6 | 18 | | | 1613 | 0.5 | 15 | | | 1646 | 0.4 | 12 | |
| | 2008 | 1.1 | 34 | | | | | | | | 2325 | 1.5 | 46 | | | 2216 | 1.5 | 46 | | | 2351 | 1.9 | 58 | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 Tu | 0211 | 0.5 | 15 | | 19 W | 0043 | 0.5 | 15 | | 4 F | 0440 | 0.9 | 27 | | 19 Sa | 0322 | 0.9 | 27 | | 4 Su | 0523 | 1.2 | 37 | |
| | 1012 | 2.3 | 70 | | | 0856 | 2.3 | 70 | | | 1101 | 2.1 | 64 | | | 0953 | 2.2 | 67 | | | 1027 | 1.7 | 52 | |
| | 1741 | 0.8 | 24 | | | 1643 | 0.9 | 27 | | | 1751 | 0.4 | 12 | | | 1653 | 0.3 | 9 | | | 1721 | 0.2 | 6 | |
| | 2223 | 1.2 | 37 | | | 2048 | 1.1 | 34 | | | | | | | | 2326 | 1.9 | 58 | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 W | 0352 | 0.6 | 18 | | 20 Th | 0219 | 0.6 | 18 | | 5 Sa | 0015 | 1.8 | 55 | | 20 Su | 0456 | 0.9 | 27 | | 5 M | 0035 | 2.1 | 64 | |
| | 1115 | 2.3 | 70 | | | 1003 | 2.3 | 70 | | | 0549 | 0.9 | 27 | | | 1046 | 2.1 | 64 | | | 0635 | 1.1 | 34 | |
| | 1817 | 0.7 | 21 | | | 1719 | 0.7 | 21 | | | 1141 | 2.0 | 61 | | | 1731 | 0.0 | 0 | | | 1114 | 1.6 | 49 | |
| | 2340 | 1.4 | 43 | | | 2235 | 1.3 | 40 | | | 1817 | 0.3 | 9 | | | | | | | | 1753 | 0.1 | 3 | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 Th | 0512 | 0.6 | 18 | | 21 F | 0357 | 0.6 | 18 | | 6 Su | 0053 | 2.1 | 64 | | 21 M | 0020 | 2.3 | 70 | | 6 Tu | 0111 | 2.4 | 73 | |
| | 1202 | 2.3 | 70 | | | 1057 | 2.4 | 73 | | | 0642 | 0.9 | 27 | | | 0614 | 0.9 | 27 | | | 0728 | 1.0 | 30 | |
| | 1844 | 0.5 | 15 | | | 1749 | 0.5 | 15 | | | 1215 | 2.0 | 61 | | | 1136 | 2.0 | 61 | | | 1157 | 1.5 | 46 | |
| | | | | 2339 | | 1.7 | 52 | | 1841 | | 0.2 | 6 | | 1809 | | -0.2 | -6 | | 1825 | | 0.0 | 0 | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 F | 0029 | 1.7 | 52 | | 22 Sa | 0515 | 0.6 | 18 | | 7 M | 0126 | 2.3 | 70 | | 22 Tu | 0108 | 2.7 | 82 | | 7 W | 0144 | 2.6 | 79 | |
| | 0609 | 0.5 | 15 | | | 1142 | 2.4 | 73 | | | 0727 | 0.8 | 24 | | | 0718 | 0.8 | 24 | | | 0811 | 0.9 | 27 | |
| | 1237 | 2.3 | 70 | | | 1819 | 0.2 | 6 | | | 1245 | 1.9 | 58 | | | 1223 | 1.9 | 58 | | | 1237 | 1.5 | 46 | |
| | 1907 | 0.4 | 12 | | | | | | | | 1905 | 0.0 | 0 | | | 1847 | -0.4 | -12 | | | 1858 | -0.1 | -3 | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 Sa | 0107 | 1.9 | 58 | | 23 Su | 0030 | 2.1 | 64 | | 8 Tu | 0157 | 2.5 | 76 | | 23 W | 0153 | 3.0 | 91 | | 8 Th | 0217 | 2.7 | 82 | |
| | 0655 | 0.5 | 15 | | | 0618 | 0.5 | 15 | | | 0808 | 0.8 | 24 | | | 0815 | 0.7 | 21 | | | 0849 | 0.8 | 24 | |
| | 1307 | 2.3 | 70 | | | 1223 | 2.4 | 73 | | | 1315 | 1.8 | 55 | | | 1309 | 1.8 | 55 | | | 1316 | 1.5 | 46 | |
| | 1928 | 0.3 | 9 | | | 1850 | 0.0 | 0 | | | 1930 | -0.1 | -3 | | | 1927 | -0.5 | -15 | | | 1931 | -0.2 | -6 | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 Su | 0140 | 2.2 | 67 | | 24 M | 0116 | 2.5 | 76 | | 9 W | 0228 | 2.7 | 82 | | 24 Th | 0238 | 3.2 | 98 | | 9 F | 0249 | 2.8 | 85 | |
| | 0735 | 0.5 | 15 | | | 0715 | 0.5 | 15 | | | 0846 | 0.8 | 24 | | | 0907 | 0.6 | 18 | | | 0924 | 0.8 | 24 | |
| | 1333 | 2.2 | 67 | | | 1302 | 2.3 | 70 | | | 1344 | 1.7 | 52 | | | 1354 | 1.7 | 52 | | | 1353 | 1.4 | 43 | |
| | 1949 | 0.2 | 6 | | | 1922 | -0.2 | -6 | | | 1957 | -0.1 | -3 | | | 2007 | -0.6 | -18 | | | 2005 | -0.3 | -9 | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 M | 0211 | 2.4 | 73 | | 25 Tu | 0200 | 2.8 | 85 | | 10 Th | 0300 | 2.8 | 85 | | 25 F | 0322 | 3.3 | 101 | | 10 Sa | 0323 | 2.9 | 88 | |
| | 0812 | 0.5 | 15 | | | 0809 | 0.4 | 12 | | | 0923 | 0.8 | 24 | | | 0958 | 0.6 | 18 | | | 1000 | 0.7 | 21 | |
| | 1358 | 2.2 | 67 | | | 1341 | 2.2 | 67 | | | 1414 | 1.7 | 52 | | | 1438 | 1.6 | 49 | | | 1430 | 1.4 | 43 | |
| | 2011 | 0.1 | 3 | | | 1956 | -0.4 | -12 | | | 2025 | -0.2 | -6 | | | 2049 | -0.6 | -18 | | | 2039 | -0.3 | -9 | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 Tu | 0242 | 2.5 | 76 | | 26 W | 0245 | 3.1 | 94 | | 11 F | 0333 | 2.8 | 85 | | 26 Sa | 0407 | 3.3 | 101 | | 11 Su | 0357 | 2.9 | 88 | |
| | 0847 | 0.6 | 18 | | | 0901 | 0.5 | 15 | | | 1001 | 0.8 | 24 | | | 1047 | 0.6 | 18 | | | 1037 | 0.7 | 21 | |
| | 1422 | 2.1 | 64 | | | 1419 | 2.0 | 61 | | | 1444 | 1.6 | 49 | | | 1524 | 1.5 | 46 | | | 1508 | 1.4 | 43 | |
| | 2034 | 0.0 | 0 | | | 2032 | -0.5 | -15 | | | 2055 | -0.2 | -6 | | | 2131 | -0.4 | -12 | | | 2114 | -0.3 | -9 | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 W | 0313 | 2.6 | 79 | | 27 Th | 0330 | 3.2 | 98 | | 12 Sa | 0408 | 2.8 | 85 | | 27 Su | 0451 | 3.1 | 94 | | 12 M | 0432 | 2.9 | 88 | |
| | 0923 | 0.6 | 18 | | | 0953 | 0.5 | 15 | | | 1042 | 0.8 | 24 | | | 1138 | 0.6 | 18 | | | 1116 | 0.7 | 21 | |
| | 1447 | 2.0 | 61 | | | 1457 | 1.9 | 58 | | | 1515 | 1.5 | 46 | | | 1612 | 1.4 | 43 | | | 1549 | 1.4 | 43 | |
| | 2058 | 0.0 | 0 | | | 2110 | -0.5 | -15 | | | 2126 | -0.1 | -3 | | | 2214 | -0.2 | -6 | | | 2150 | -0.2 | -6 | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 Th | 0346 | 2.6 | 79 | | 28 F | 0417 | 3.2 | 98 | | 13 Su | 0445 | 2.8 | 85 | | 28 M | 0537 | 2.9 | 88 | | 13 Tu | 0509 | 2.9 | 88 | |
| | 1000 | 0.7 | 21 | | | 1047 | 0.6 | 18 | | | 1127 | 0.9 | 27 | | | 1231 | 0.7 | 21 | | | 1157 | 0.6 | 18 | |
| | 1512 | 1.8 | 55 | | | 1537 | 1.7 | 52 | | | 1548 | 1.4 | 43 | | | 1706 | 1.3 | 40 | | | 1635 | 1.3 | 40 | |
| | 2123 | 0.0 | 0 | | | 2149 | -0.4 | -12 | | | 2159 | 0.0 | 0 | | | 2259 | 0.0 | 0 | | | 2228 | 0.0 | 0 | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 F | 0420 | 2.6 | 79 | | 29 Sa | 0506 | 3.1 | 94 | | 14 M | 0526 | 2.7 | 82 | | 29 Tu | 0623 | 2.7 | 82 | | 14 W | 0546 | 2.8 | 85 | |
| | 1039 | 0.8 | 24 | | | 1146 | 0.8 | 24 | | | 1219 | 0.9 | 27 | | | 1327 | 0.7 | 21 | | | 1241 | 0.6 | 18 | |
| | 1536 | | | | | | | | | | | | | | | | | | | | | | | |

Johnston Island, 2011

Times and Heights of High and Low Waters

| January | | | | February | | | | March | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|------|--------|----|----------|-----------------|--------|------|-------|----|-----------------|------|------|----|--------|-----------------|------|------|-----|--|-----------------|------|------|----|--|-----------------|------|------|-----|--|-----------------|------|------|-----|--|------|-----|----|--|
| Time | | Height | | Time | | Height | | Time | | Height | | Time | | Height | | | | | | | | | | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 Sa | 0333 | 2.4 | 73 | | 16 Su | 0308 | 2.2 | 67 | | 1 Tu | 0450 | 2.3 | 70 | | 16 W | 0424 | 2.4 | 73 | | 1 Tu | 0353 | 1.9 | 58 | | 16 W | 0310 | 2.0 | 61 | | | | | | | | | | |
| | 1019 | 0.0 | 0 | | | 0957 | 0.1 | 3 | | | 1119 | -0.2 | -6 | | | 1053 | -0.4 | -12 | | | 1022 | -0.1 | -3 | | | 0941 | -0.3 | -9 | | | | | | | | | | |
| | 1614 | 1.6 | 49 | | | 1546 | 1.5 | 46 | | | 1725 | 1.8 | 55 | | | 1700 | 2.0 | 61 | | | 1631 | 1.7 | 52 | | | 1551 | 1.9 | 58 | | 2151 | -0.1 | -3 | | | | | | |
| | 2151 | 0.2 | 6 | | | 2128 | 0.2 | 6 | | | 2308 | 0.0 | 0 | | | 2253 | -0.3 | -9 | | | 2219 | 0.1 | 3 | | | 2151 | -0.1 | -3 | | | | | | | | | | |
| 2 Su | 0420 | 2.5 | 76 | | 17 M | 0357 | 2.4 | 73 | | 2 W | 0524 | 2.3 | 70 | | 17 Th | 0507 | 2.5 | 76 | | 2 W | 0431 | 2.0 | 61 | | 17 Th | 0400 | 2.2 | 67 | | 17 Th | 0400 | 2.2 | 67 | | | | | |
| | 1100 | -0.1 | -3 | | | 1039 | -0.1 | -3 | | | 1149 | -0.3 | -9 | | | 1130 | -0.6 | -18 | | | 1051 | -0.2 | -6 | | | 1021 | -0.5 | -15 | | | 1021 | -0.5 | -15 | | | | | |
| | 1700 | 1.7 | 52 | | | 1635 | 1.7 | 52 | | | 1757 | 1.9 | 58 | | | 1741 | 2.2 | 67 | | | 1702 | 1.8 | 55 | | | 1635 | 2.2 | 67 | | | 1635 | 2.2 | 67 | | | | | |
| | 2236 | 0.1 | 3 | | | 2217 | 0.0 | 0 | | | 2343 | 0.0 | 0 | | | 2337 | -0.4 | -12 | | | 2254 | 0.0 | 0 | | | 2240 | -0.3 | -9 | | | 2240 | -0.3 | -9 | | | | | |
| 3 M | 0501 | 2.5 | 76 | | 18 Tu | 0442 | 2.5 | 76 | | 3 Th | 0556 | 2.3 | 70 | | 18 F | 0548 | 2.6 | 79 | | 3 Th | 0503 | 2.1 | 64 | | 3 Th | 0446 | 2.3 | 70 | | 18 F | 0446 | 2.3 | 70 | | | | | |
| | 1136 | -0.2 | -6 | | | 1117 | -0.3 | -9 | | | 1216 | -0.3 | -9 | | | 1206 | -0.7 | -21 | | | 1119 | -0.3 | -9 | | | 1059 | -0.6 | -18 | | | 1059 | -0.6 | -18 | | | | | |
| | 1739 | 1.8 | 55 | | | 1718 | 1.9 | 58 | | | 1827 | 2.0 | 61 | | | 1821 | 2.4 | 73 | | | 1730 | 2.0 | 61 | | | 1716 | 2.4 | 73 | | | 1716 | 2.4 | 73 | | | | | |
| | 2317 | 0.1 | 3 | | | 2303 | -0.1 | -3 | | | 0016 | 0.0 | 0 | | | 0021 | -0.4 | -12 | | | 0533 | 2.1 | 64 | | | 2327 | -0.1 | -3 | | | 2325 | -0.5 | -15 | | | | | |
| 4 Tu | 0539 | 2.5 | 76 | | 19 W | 0524 | 2.7 | 82 | | 4 F | 0016 | 0.0 | 0 | | 19 Sa | 0021 | -0.4 | -12 | | 4 F | 0533 | 2.1 | 64 | | 4 F | 0529 | 2.3 | 70 | | 19 Sa | 0529 | 2.3 | 70 | | | | | |
| | 1210 | -0.3 | -9 | | | 1154 | -0.5 | -15 | | | 0626 | 2.3 | 70 | | | 0629 | 2.5 | 76 | | | 1144 | -0.3 | -9 | | | 1137 | -0.7 | -21 | | | 1137 | -0.7 | -21 | | | | | |
| | 1815 | 1.9 | 58 | | | 1800 | 2.1 | 64 | | | 1243 | -0.3 | -9 | | | 1242 | -0.7 | -21 | | | 1758 | 2.1 | 64 | | | 1758 | 2.1 | 64 | | | 1756 | 2.6 | 79 | | 1756 | 2.6 | 79 | |
| | 2354 | 0.1 | 3 | | | 2347 | -0.2 | -6 | | | 1856 | 2.1 | 64 | | | 1901 | 2.5 | 76 | | | 2358 | -0.2 | -6 | | | 2358 | -0.2 | -6 | | | 2358 | -0.2 | -6 | | | | | |
| 5 W | 0613 | 2.5 | 76 | | 20 Th | 0605 | 2.7 | 82 | | 5 Sa | 0048 | 0.0 | 0 | | 20 Su | 0105 | -0.4 | -12 | | 5 Sa | 0602 | 2.1 | 64 | | 5 Sa | 0009 | -0.6 | -18 | | 20 Su | 0009 | -0.6 | -18 | | | | | |
| | 1242 | -0.3 | -9 | | | 1231 | -0.6 | -18 | | | 0655 | 2.2 | 67 | | | 0709 | 2.3 | 70 | | | 1210 | -0.3 | -9 | | | 0611 | 2.2 | 67 | | | 0611 | 2.2 | 67 | | | | | |
| | 1849 | 1.9 | 58 | | | 1841 | 2.2 | 67 | | | 1309 | -0.3 | -9 | | | 1318 | -0.6 | -18 | | | 1825 | 2.2 | 67 | | | 1213 | -0.7 | -21 | | | 1213 | -0.7 | -21 | | | | | |
| | 0030 | 0.1 | 3 | | | 0031 | -0.2 | -6 | | | 1925 | 2.1 | 64 | | | 1942 | 2.5 | 76 | | | 0029 | -0.2 | -6 | | | 1836 | 2.7 | 82 | | | 1836 | 2.7 | 82 | | | | | |
| 6 Th | 0647 | 2.4 | 73 | | 21 F | 0645 | 2.7 | 82 | | 6 Su | 0120 | 0.0 | 0 | | 21 M | 0150 | -0.3 | -9 | | 6 Su | 0029 | -0.2 | -6 | | 21 M | 0052 | -0.5 | -15 | | 21 M | 0052 | -0.5 | -15 | | | | | |
| | 1312 | -0.2 | -6 | | | 1308 | -0.6 | -18 | | | 0724 | 2.1 | 64 | | | 0750 | 2.1 | 64 | | | 0631 | 2.1 | 64 | | | 0631 | 2.1 | 64 | | | 0631 | 2.1 | 64 | | | | | |
| | 1923 | 2.0 | 61 | | | 1923 | 2.3 | 70 | | | 1335 | -0.2 | -6 | | | 1354 | -0.4 | -12 | | | 1235 | -0.3 | -9 | | | 1235 | -0.3 | -9 | | | 1235 | -0.3 | -9 | | | | | |
| | 0105 | 0.2 | 6 | | | 0116 | -0.1 | -3 | | | 1955 | 2.1 | 64 | | | 2024 | 2.4 | 73 | | | 1853 | 2.2 | 67 | | | 1853 | 2.2 | 67 | | | 1853 | 2.2 | 67 | | | | | |
| 7 F | 0719 | 2.3 | 70 | | 22 Sa | 0725 | 2.5 | 76 | | 7 M | 0154 | 0.1 | 3 | | 22 Tu | 0238 | -0.1 | -3 | | 7 M | 0100 | -0.2 | -6 | | 22 Tu | 0136 | -0.4 | -12 | | 22 Tu | 0136 | -0.4 | -12 | | | | | |
| | 1342 | -0.1 | -3 | | | 1345 | -0.5 | -15 | | | 0753 | 1.9 | 58 | | | 0833 | 1.8 | 55 | | | 0659 | 1.9 | 58 | | | 0734 | 1.9 | 58 | | | 0734 | 1.9 | 58 | | | | | |
| | 1957 | 2.0 | 61 | | | 2007 | 2.3 | 70 | | | 1401 | -0.1 | -3 | | | 1432 | -0.2 | -6 | | | 1300 | -0.3 | -9 | | | 1327 | -0.4 | -12 | | | 1327 | -0.4 | -12 | | | | | |
| | 0141 | 0.3 | 9 | | | 0203 | 0.0 | 0 | | | 2028 | 2.1 | 64 | | | 2110 | 2.2 | 67 | | | 1921 | 2.2 | 67 | | | 1921 | 2.2 | 67 | | | 1921 | 2.2 | 67 | | | | | |
| 8 Sa | 0750 | 2.2 | 67 | | 23 Su | 0807 | 2.3 | 70 | | 8 Tu | 0230 | 0.2 | 6 | | 23 W | 0331 | 0.1 | 3 | | 8 Tu | 0131 | -0.1 | -3 | | 23 W | 0221 | -0.3 | -9 | | 23 W | 0221 | -0.3 | -9 | | | | | |
| | 1411 | -0.1 | -3 | | | 1423 | -0.4 | -12 | | | 0824 | 1.8 | 55 | | | 0921 | 1.5 | 46 | | | 0728 | 1.8 | 55 | | | 0728 | 1.8 | 55 | | | 0728 | 1.8 | 55 | | | | | |
| | 2032 | 2.0 | 61 | | | 2052 | 2.3 | 70 | | | 1430 | 0.0 | 0 | | | 1514 | 0.0 | 0 | | | 1326 | -0.2 | -6 | | | 1406 | -0.2 | -6 | | | 1406 | -0.2 | -6 | | | | | |
| | 0219 | 0.4 | 12 | | | 0254 | 0.1 | 3 | | | 2104 | 2.0 | 61 | | | 2202 | 2.0 | 61 | | | 1952 | 2.1 | 64 | | | 2041 | 2.2 | 67 | | | 2041 | 2.2 | 67 | | | | | |
| 9 Su | 0823 | 2.0 | 61 | | 24 M | 0851 | 2.0 | 61 | | 9 W | 0312 | 0.4 | 12 | | 24 Th | 0439 | 0.3 | 9 | | 9 W | 0205 | 0.0 | 0 | | 24 Th | 0311 | -0.1 | -3 | | 24 Th | 0311 | -0.1 | -3 | | | | | |
| | 1441 | 0.1 | 3 | | | 1503 | -0.2 | -6 | | | 0900 | 1.5 | 46 | | | 1022 | 1.2 | 37 | | | 0759 | 1.6 | 49 | | | 0908 | 1.4 | 43 | | | 0908 | 1.4 | 43 | | | | | |
| | 2111 | 1.9 | 58 | | | 2142 | 2.2 | 67 | | | 1502 | 0.1 | 3 | | | 1607 | 0.3 | 9 | | | 1355 | -0.1 | -3 | | | 1449 | 0.1 | 3 | | | 1449 | 0.1 | 3 | | | | | |
| | 0302 | 0.5 | 15 | | | 0354 | 0.3 | 9 | | | 2149 | 1.9 | 58 | | | 2308 | 1.8 | 55 | | | 2026 | 2.0 | 61 | | | 2131 | 1.9 | 58 | | | 2131 | 1.9 | 58 | | | | | |
| 10 M | 0859 | 1.8 | 55 | | 25 Tu | 0942 | 1.7 | 52 | | 10 Th | 0406 | 0.5 | 15 | | 25 F | 0616 | 0.4 | 12 | | 10 Th | 0244 | 0.1 | 3 | | 25 F | 0412 | 0.1 | 3 | | 25 F | 0412 | 0.1 | 3 | | | | | |
| | 1514 | 0.2 | 6 | | | 1548 | 0.0 | 0 | | | 0948 | 1.3 | 40 | | | 1152 | 1.1 | 34 | | | 0836 | 1.5 | 46 | | | 1009 | 1.2 | 37 | | | 1009 | 1.2 | 37 | | | | | |
| | 2154 | 1.9 | 58 | | | 2239 | 2.1 | 64 | | | 1545 | 0.3 | 9 | | | 1733 | 0.5 | 15 | | | 1428 | 0.0 | 0 | | | 1543 | 0.3 | 9 | | | 1543 | 0.3 | 9 | | | | | |
| | 0354 | 0.6 | 18 | | | 0510 | 0.5 | 15 | | | 2248 | 1.8 | 55 | | | 0034 | 1.7 | 52 | | | 2108 | 1.9 | 58 | | | 2233 | 1.7 | 52 | | | 2233 | 1.7 | 52 | | | | | |
| 11 Tu | 0941 | 1.6 | 49 | | 26 W | 1045 | 1.4 | 43 | | 11 F | 0530 | 0.6 | 18 | | 26 Sa | 0756 | 0.3 | 9 | | 11 F | 0333 | 0.2 | 6 | | 26 Sa | 0536 | 0.3 | 9 | | 26 Sa | 0536 | 0.3 | 9 | | | | | |
| | 1553 | 0.3 | 9 | | | 1645 | 0.2 | 6 | | | 1100 | 1.1 | 34 | | | 1347 | 1.1 | 34 | | | 0923 | 1.3 | 40 | | | 0923 | 1.3 | 40 | | | 0923 | 1.3 | 40 | | | | | |
| | 2247 | 1.9 | 58 | | | 2347 | 2.0 | 61 | | | 1650 | 0.4 | 12 | | | 1926 | 0.5 | 15 | | | 1510 | 0.2 | 6 | | | 1510 | 0.2 | 6 | | | 1510 | 0.2 | 6 | | | | | |
| | 0506 | 0.7 | 21 | | | 0649 | 0.5 | 15 | | | 0006 | 1.7 | 52 | | | 0201 | 1.7 | 52 | | | 2205 | 1.8 | 55 | | | 2205 | 1.8 | 55 | | | 2205 | 1.8 | 55 | | | | | |
| 12 W | 1038 | 1.4 | 43 | | 27 Th | 1212 | 1.2 | 37 | | 12 Sa | 0720 | 0.5 | 15 | | 27 Su | 0903 | 0.2 | 6 | | 12 Sa | 0445 | 0.4 | 12 | | 27 Su | 0712 | 0.3 | 9 | | 27 Su | 0712 | 0.3 | 9 | | | | | |
| | 1644 | 0.4 | 12 | | | 1804 | 0.4 | 12 | | | 1244 | 1.1 | 34 | | | 1507 | 1.3 | 40 | | | 1615 | 0.3 | 9 | | | 1320 | 1.1 | 34 | | | 1320 | 1.1 | 34 | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Johnston Island, 2011

Times and Heights of High and Low Waters

| April | | | | May | | | | June | | | | | | | | | | | | | | | | | | | | | |
|-----------------|--------|------|----|------|-----------------|------|------|------|--------|-----------------|------|------|--------|------|-----------------|------|------|------|-----|-----------------|------|------|------|-----|-----------------|------|------|------|-----|
| Time | Height | | | Time | Height | | | Time | Height | | | Time | Height | | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | |
| 1 F | 0435 | 1.9 | 58 | | 16 Sa | 0422 | 2.0 | 61 | | 1 Su | 0437 | 1.6 | 49 | | 16 M | 0452 | 1.7 | 52 | | 1 W | 0529 | 1.5 | 46 | | 16 Th | 0013 | -0.4 | -12 | |
| | 1040 | -0.2 | -6 | | | 1026 | -0.5 | -15 | | | 1029 | -0.1 | -3 | | | 1040 | -0.4 | -12 | | | 1109 | -0.1 | -3 | | | 0615 | 1.7 | 52 | |
| | 1657 | 2.1 | 64 | | | 1650 | 2.6 | 79 | | | 1653 | 2.3 | 70 | | | 1709 | 2.7 | 82 | | | 1737 | 2.4 | 73 | | | 1151 | -0.1 | -3 | |
| | 2307 | -0.2 | -6 | | | 2311 | -0.5 | -15 | | | 2319 | -0.2 | -6 | | | 2343 | -0.5 | -15 | | | ● | | | | | 1817 | 2.5 | 76 | |
| 2 Sa | 0507 | 1.9 | 58 | | 17 Su | 0509 | 2.0 | 61 | | 2 M | 0512 | 1.6 | 49 | | 17 Tu | 0540 | 1.7 | 52 | | 2 Th | 0012 | -0.3 | -9 | | 17 F | 0052 | -0.4 | -12 | |
| | 1108 | -0.3 | -9 | | | 1106 | -0.6 | -18 | | | 1101 | -0.2 | -6 | | | 1123 | -0.3 | -9 | | | 0608 | 1.6 | 49 | | | 0657 | 1.7 | 52 | |
| | 1725 | 2.2 | 67 | | | 1731 | 2.7 | 82 | | | 1724 | 2.3 | 70 | | | 1751 | 2.6 | 79 | | | 1147 | -0.1 | -3 | | | 1233 | 0.0 | 0 | |
| | 2339 | -0.2 | -6 | | | ○ | 2355 | -0.6 | -18 | | | ● | 2352 | -0.3 | | -9 | | ○ | | | | | 1814 | 2.4 | | 73 | | 1856 | 2.4 | 73 |
| 3 Su | 0537 | 1.9 | 58 | | 18 M | 0554 | 2.0 | 61 | | 3 Tu | 0546 | 1.6 | 49 | | 18 W | 0026 | -0.5 | -15 | | 3 F | 0049 | -0.3 | -9 | | 18 Sa | 0129 | -0.3 | -9 | |
| | 1135 | -0.3 | -9 | | | 1146 | -0.5 | -15 | | | 1132 | -0.2 | -6 | | | 0626 | 1.7 | 52 | | | 0649 | 1.6 | 49 | | | 0739 | 1.7 | 52 | |
| | 1753 | 2.3 | 70 | | | 1812 | 2.7 | 82 | | | 1756 | 2.3 | 70 | | | 1205 | -0.2 | -6 | | | 1226 | -0.1 | -3 | | | 1314 | 0.1 | 3 | |
| | ● | | | | | | | | | | | | | | | 1833 | 2.5 | 76 | | | 1853 | 2.4 | 73 | | | 1934 | 2.2 | 67 | |
| 4 M | 0010 | -0.3 | -9 | | 19 Tu | 0038 | -0.6 | -18 | | 4 W | 0025 | -0.3 | -9 | | 19 Th | 0108 | -0.5 | -15 | | 4 Sa | 0128 | -0.3 | -9 | | 19 Su | 0206 | -0.2 | -6 | |
| | 0607 | 1.8 | 55 | | | 0638 | 1.8 | 55 | | | 0621 | 1.6 | 49 | | | 0711 | 1.6 | 49 | | | 0732 | 1.6 | 49 | | | 0821 | 1.7 | 52 | |
| | 1202 | -0.3 | -9 | | | 1225 | -0.4 | -12 | | | 1204 | -0.2 | -6 | | | 1247 | -0.1 | -3 | | | 1308 | 0.0 | 0 | | | 1355 | 0.2 | 6 | |
| | 1822 | 2.3 | 70 | | | 1853 | 2.6 | 79 | | | 1830 | 2.3 | 70 | | | 1915 | 2.4 | 73 | | | 1933 | 2.3 | 70 | | | 2012 | 2.1 | 64 | |
| 5 Tu | 0041 | -0.3 | -9 | | 20 W | 0121 | -0.5 | -15 | | 5 Th | 0100 | -0.3 | -9 | | 20 F | 0150 | -0.4 | -12 | | 5 Su | 0209 | -0.3 | -9 | | 20 M | 0242 | -0.1 | -3 | |
| | 0638 | 1.7 | 52 | | | 0722 | 1.7 | 52 | | | 0657 | 1.5 | 46 | | | 0757 | 1.6 | 49 | | | 0820 | 1.6 | 49 | | | 0904 | 1.7 | 52 | |
| | 1229 | -0.2 | -6 | | | 1305 | -0.3 | -9 | | | 1238 | -0.1 | -3 | | | 1330 | 0.0 | 0 | | | 1355 | 0.1 | 3 | | | 1440 | 0.4 | 12 | |
| | 1852 | 2.3 | 70 | | | 1934 | 2.4 | 73 | | | 1905 | 2.2 | 67 | | | 1956 | 2.2 | 67 | | | 2017 | 2.2 | 67 | | | 2051 | 1.9 | 58 | |
| 6 W | 0113 | -0.2 | -6 | | 21 Th | 0206 | -0.4 | -12 | | 6 F | 0137 | -0.3 | -9 | | 21 Sa | 0233 | -0.2 | -6 | | 6 M | 0253 | -0.3 | -9 | | 21 Tu | 0319 | 0.0 | 0 | |
| | 0709 | 1.6 | 49 | | | 0808 | 1.5 | 46 | | | 0737 | 1.5 | 46 | | | 0845 | 1.5 | 46 | | | 0912 | 1.7 | 52 | | | 0949 | 1.7 | 52 | |
| | 1258 | -0.2 | -6 | | | 1346 | -0.1 | -3 | | | 1315 | 0.0 | 0 | | | 1415 | 0.2 | 6 | | | 1449 | 0.2 | 6 | | | 1531 | 0.5 | 15 | |
| | 1924 | 2.2 | 67 | | | 2017 | 2.1 | 64 | | | 1945 | 2.2 | 67 | | | 2040 | 2.0 | 61 | | | 2106 | 2.0 | 61 | | | 2133 | 1.7 | 52 | |
| 7 Th | 0148 | -0.2 | -6 | | 22 F | 0253 | -0.2 | -6 | | 7 Sa | 0219 | -0.2 | -6 | | 22 Su | 0318 | -0.1 | -3 | | 7 Tu | 0341 | -0.2 | -6 | | 22 W | 0359 | 0.1 | 3 | |
| | 0744 | 1.5 | 46 | | | 0858 | 1.4 | 43 | | | 0823 | 1.4 | 43 | | | 0937 | 1.4 | 43 | | | 1011 | 1.7 | 52 | | | 1040 | 1.7 | 52 | |
| | 1330 | -0.1 | -3 | | | 1431 | 0.2 | 6 | | | 1358 | 0.1 | 3 | | | 1507 | 0.4 | 12 | | | 1555 | 0.4 | 12 | | | 1635 | 0.6 | 18 | |
| | 2000 | 2.1 | 64 | | | 2105 | 1.9 | 58 | | | 2030 | 2.0 | 61 | | | 2127 | 1.8 | 55 | | | 2202 | 1.9 | 58 | | | 2222 | 1.5 | 46 | |
| 8 F | 0228 | -0.1 | -3 | | 23 Sa | 0347 | 0.0 | 0 | | 8 Su | 0308 | -0.1 | -3 | | 23 M | 0407 | 0.0 | 0 | | 8 W | 0435 | -0.1 | -3 | | 23 Th | 0445 | 0.2 | 6 | |
| | 0825 | 1.4 | 43 | | | 0958 | 1.3 | 40 | | | 0919 | 1.4 | 43 | | | 1035 | 1.4 | 43 | | | 1115 | 1.8 | 55 | | | 1135 | 1.8 | 55 | |
| | 1407 | 0.0 | 0 | | | 1526 | 0.4 | 12 | | | 1451 | 0.2 | 6 | | | 1611 | 0.5 | 15 | | | 1716 | 0.4 | 12 | | | 1753 | 0.7 | 21 | |
| | 2044 | 1.9 | 58 | | | 2201 | 1.7 | 52 | | | 2123 | 1.9 | 58 | | | 2220 | 1.6 | 49 | | | 2307 | 1.7 | 52 | | | 2321 | 1.4 | 43 | |
| 9 Sa | 0317 | 0.0 | 0 | | 24 Su | 0453 | 0.2 | 6 | | 9 M | 0405 | -0.1 | -3 | | 24 Tu | 0501 | 0.2 | 6 | | 9 Th | 0535 | -0.1 | -3 | | 24 F | 0538 | 0.3 | 9 | |
| | 0918 | 1.3 | 40 | | | 1112 | 1.2 | 37 | | | 1027 | 1.4 | 43 | | | 1138 | 1.5 | 46 | | | 1220 | 2.0 | 61 | | | 1233 | 1.8 | 55 | |
| | 1455 | 0.2 | 6 | | | 1646 | 0.5 | 15 | | | 1602 | 0.4 | 12 | | | 1734 | 0.6 | 18 | | | 1844 | 0.4 | 12 | | | 1915 | 0.6 | 18 | |
| | 2140 | 1.8 | 55 | | | ○ | 2309 | 1.5 | 46 | | | 2227 | 1.8 | 55 | | | ○ | 2321 | 1.5 | | 46 | | | | | | | | |
| 10 Su | 0423 | 0.1 | 3 | | 25 M | 0609 | 0.2 | 6 | | 10 Tu | 0511 | 0.0 | 0 | | 25 W | 0559 | 0.2 | 6 | | 10 F | 0020 | 1.5 | 46 | | 25 Sa | 0031 | 1.3 | 40 | |
| | 1031 | 1.2 | 37 | | | 1234 | 1.3 | 40 | | | 1141 | 1.5 | 46 | | | 1240 | 1.6 | 49 | | | 0638 | 0.0 | 0 | | | 0639 | 0.3 | 9 | |
| | 1604 | 0.3 | 9 | | | 1829 | 0.6 | 18 | | | 1733 | 0.4 | 12 | | | 1859 | 0.6 | 18 | | | 1324 | 2.1 | 64 | | | 1331 | 1.9 | 58 | |
| | 2252 | 1.7 | 52 | | | | | | | | ○ | 2339 | 1.7 | 52 | | | | | | | | 2002 | 0.2 | 6 | | | 2023 | 0.5 | 15 |
| 11 M | 0548 | 0.2 | 6 | | 26 Tu | 0026 | 1.4 | 43 | | 11 W | 0620 | 0.0 | 0 | | 26 Th | 0029 | 1.4 | 43 | | 11 Sa | 0135 | 1.5 | 46 | | 26 Su | 0143 | 1.3 | 40 | |
| | 1201 | 1.2 | 37 | | | 0716 | 0.2 | 6 | | | 1253 | 1.7 | 52 | | | 0655 | 0.2 | 6 | | | 0740 | 0.0 | 0 | | | 0740 | 0.3 | 9 | |
| | 1747 | 0.4 | 12 | | | 1343 | 1.4 | 43 | | | 1905 | 0.3 | 9 | | | 1336 | 1.7 | 52 | | | 1423 | 2.3 | 70 | | | 1425 | 2.0 | 61 | |
| | ○ | | | | | 1951 | 0.5 | 15 | | | | | | | | 2007 | 0.5 | 15 | | | 2106 | 0.0 | 0 | | | 2116 | 0.3 | 9 | |
| 12 Tu | 0014 | 1.7 | 52 | | 27 W | 0137 | 1.4 | 43 | | 12 Th | 0054 | 1.6 | 49 | | 27 F | 0135 | 1.3 | 40 | | 12 Su | 0245 | 1.5 | 46 | | 27 M | 0248 | 1.3 | 40 | |
| | 0708 | 0.1 | 3 | | | 0807 | 0.1 | 3 | | | 0723 | -0.1 | -3 | | | 0746 | 0.2 | 6 | | | 0839 | -0.1 | -3 | | | 0835 | 0.2 | 6 | |
| | 1325 | 1.5 | 46 | | | 1434 | 1.6 | 49 | | | 1356 | 2.0 | 61 | | | 1424 | 1.9 | 58 | | | 1517 | 2.4 | 73 | | | 1514 | 2.2 | 67 | |
| | 1926 | 0.3 | 9 | | | 2048 | 0.3 | 9 | | | 2020 | 0.1 | 3 | | | 2100 | 0.3 | 9 | | | 2200 | -0.1 | -3 | | | 2201 | 0.1 | 3 | |
| 13 W | 0132 | 1.7 | 52 | | 28 Th | 0234 | 1.5 | 46 | | 13 F | 0204 | 1.7 | 52 | | 28 Sa | 0233 | 1.4 | 43 | | 13 M | 0347 | 1.5 | 46 | | 28 Tu | 0343 | 1.4 | 43 | |
| | 0810 | -0.1 | -3 | | | 0849 | 0.1 | 3 | | | 0818 | -0.2 | -6 | | | 0832 | 0.1 | 3 | | | 0932 | -0.1 | -3 | | | 0925 | 0.1 | 3 | |
| | 1430 | 1.8 | 55 | | | 1514 | 1.8 | 55 | | | 1451 | 2.2 | 67 | | | 1506 | 2.0 | 61 | | | 1606 | 2.5 | 76 | | | 1559 | 2.3 | 70 | |
| | 2038 | 0.1 | 3 | | | 2132 | 0.2 | 6 | | | 2120 | -0.1 | -3 | | | 2144 | 0.1 | 3 | | | 2248 | -0.3 | -9 | | | 2241 | -0.1 | -3 | |
| 14 Th | 0237 | 1.9 | 58 | | 29 F | 0321 | 1.5 | 46 | | 14 Sa | 0306 | 1.7 | 52 | | 29 Su | 0324 | 1.4 | 43 | | 14 Tu | 0441 | 1.6 | 49 | | 29 W | 0430 | 1.5 | 46 | |
| | 0900 | -0 | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Johnston Island, 2011

Times and Heights of High and Low Waters

| July | | | | August | | | | September | | | | | | | | | | | | | | | | | | | | | |
|-----------------|--------|------|-----|--------|-----------------|------|------|-----------|--------|-----------------|------|------|--------|----|-----------------|------|------|----|----|-----------------|------|------|----|---|-----------------|------|------|----|--|
| Time | Height | | | Time | Height | | | Time | Height | | | Time | Height | | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | |
| 1 F | 0555 | 1.7 | 52 | | 16 Sa | 0029 | -0.3 | -9 | | 1 M | 0045 | -0.4 | -12 | | 16 Tu | 0053 | -0.1 | -3 | | 1 Th | 0129 | -0.2 | -6 | | 16 F | 0109 | 0.2 | 6 | |
| | 1135 | -0.1 | -3 | | | 0637 | 1.9 | 58 | | | 0659 | 2.3 | 70 | | | 0709 | 2.3 | 70 | | | 0757 | 2.7 | 82 | | | 0732 | 2.4 | 73 | |
| | 1800 | 2.5 | 76 | | | 1217 | 0.1 | 3 | | | 1251 | -0.1 | -3 | | | 1306 | 0.2 | 6 | | | 1411 | 0.1 | 3 | | | 1347 | 0.3 | 9 | |
| | | | | | | 1835 | 2.4 | 73 | | | 1902 | 2.6 | 79 | | | 1910 | 2.2 | 67 | | | 2008 | 2.1 | 64 | | | 1943 | 1.9 | 58 | |
| 2 Sa | 0033 | -0.4 | -12 | | 17 Su | 0101 | -0.3 | -9 | | 2 Tu | 0122 | -0.4 | -12 | | 17 W | 0120 | 0.0 | 0 | | 2 F | 0208 | 0.0 | 0 | | 17 Sa | 0137 | 0.3 | 9 | |
| | 0637 | 1.8 | 55 | | | 0712 | 1.9 | 58 | | | 0741 | 2.4 | 73 | | | 0740 | 2.3 | 70 | | | 0843 | 2.5 | 76 | | | 0807 | 2.3 | 70 | |
| | 1217 | -0.1 | -3 | | | 1254 | 0.1 | 3 | | | 1338 | 0.0 | 0 | | | 1340 | 0.3 | 9 | | | 1504 | 0.3 | 9 | | | 1425 | 0.4 | 12 | |
| | 1839 | 2.5 | 76 | | | 1908 | 2.3 | 70 | | | 1943 | 2.4 | 73 | | | 1940 | 2.1 | 64 | | | 2057 | 1.8 | 55 | | | 2018 | 1.7 | 52 | |
| 3 Su | 0111 | -0.4 | -12 | | 18 M | 0132 | -0.2 | -6 | | 3 W | 0159 | -0.3 | -9 | | 18 Th | 0147 | 0.1 | 3 | | 3 Sa | 0252 | 0.2 | 6 | | 18 Su | 0210 | 0.4 | 12 | |
| | 0720 | 1.9 | 58 | | | 0747 | 2.0 | 61 | | | 0826 | 2.4 | 73 | | | 0813 | 2.2 | 67 | | | 0937 | 2.3 | 70 | | | 0849 | 2.1 | 64 | |
| | 1301 | 0.0 | 0 | | | 1331 | 0.2 | 6 | | | 1427 | 0.2 | 6 | | | 1416 | 0.4 | 12 | | | 1610 | 0.5 | 15 | | | 1513 | 0.6 | 18 | |
| | 1920 | 2.5 | 76 | | | 1941 | 2.2 | 67 | | | 2027 | 2.2 | 67 | | | 2012 | 1.9 | 58 | | | 2159 | 1.6 | 49 | | | 2105 | 1.6 | 49 | |
| 4 M | 0149 | -0.4 | -12 | | 19 Tu | 0202 | -0.1 | -3 | | 4 Th | 0239 | -0.2 | -6 | | 19 F | 0216 | 0.2 | 6 | | 4 Su | 0347 | 0.5 | 15 | | 19 M | 0252 | 0.5 | 15 | |
| | 0805 | 2.0 | 61 | | | 0823 | 2.0 | 61 | | | 0915 | 2.4 | 73 | | | 0850 | 2.1 | 64 | | | 1044 | 2.1 | 64 | | | 0945 | 2.0 | 61 | |
| | 1349 | 0.1 | 3 | | | 1410 | 0.3 | 9 | | | 1524 | 0.3 | 9 | | | 1457 | 0.5 | 15 | | | 1741 | 0.6 | 18 | | | 1623 | 0.7 | 21 | |
| | 2002 | 2.3 | 70 | | | 2014 | 2.0 | 61 | | | 2116 | 1.9 | 58 | | | 2048 | 1.7 | 52 | | ☉ | 2325 | 1.4 | 43 | | | 2216 | 1.4 | 43 | |
| 5 Tu | 0229 | -0.3 | -9 | | 20 W | 0232 | 0.0 | 0 | | 5 F | 0323 | 0.0 | 0 | | 20 Sa | 0249 | 0.3 | 9 | | 5 M | 0510 | 0.6 | 18 | | 20 Tu | 0356 | 0.7 | 21 | |
| | 0853 | 2.0 | 61 | | | 0900 | 2.0 | 61 | | | 1010 | 2.3 | 70 | | | 0934 | 2.0 | 61 | | | 1207 | 2.0 | 61 | | | 1103 | 1.9 | 58 | |
| | 1441 | 0.2 | 6 | | | 1452 | 0.5 | 15 | | | 1633 | 0.5 | 15 | | | 1550 | 0.7 | 21 | | | 1921 | 0.6 | 18 | | | 1806 | 0.7 | 21 | |
| | 2047 | 2.1 | 64 | | | 2049 | 1.8 | 55 | | | 2215 | 1.6 | 49 | | | 2135 | 1.5 | 46 | | | | | | ☉ | 2357 | 1.4 | 43 | | |
| 6 W | 0311 | -0.2 | -6 | | 21 Th | 0304 | 0.1 | 3 | | 6 Sa | 0417 | 0.2 | 6 | | 21 Su | 0332 | 0.5 | 15 | | 6 Tu | 0110 | 1.4 | 43 | | 21 W | 0542 | 0.8 | 24 | |
| | 0945 | 2.1 | 64 | | | 0942 | 1.9 | 58 | | | 1115 | 2.2 | 67 | | | 1032 | 1.9 | 58 | | | 0658 | 0.7 | 21 | | | 1231 | 1.9 | 58 | |
| | 1542 | 0.4 | 12 | | | 1541 | 0.6 | 18 | | | 1803 | 0.5 | 15 | | | 1709 | 0.7 | 21 | | | 1333 | 2.0 | 61 | | | 1933 | 0.6 | 18 | |
| | 2138 | 1.9 | 58 | | | 2130 | 1.6 | 49 | | ☉ | 2333 | 1.4 | 43 | | ☉ | 2244 | 1.3 | 40 | | | 2032 | 0.4 | 12 | | | | | | |
| 7 Th | 0358 | -0.1 | -3 | | 22 F | 0341 | 0.3 | 9 | | 7 Su | 0529 | 0.4 | 12 | | 22 M | 0435 | 0.6 | 18 | | 7 W | 0233 | 1.6 | 49 | | 22 Th | 0130 | 1.6 | 49 | |
| | 1043 | 2.1 | 64 | | | 1031 | 1.9 | 58 | | | 1230 | 2.1 | 64 | | | 1149 | 1.9 | 58 | | | 0819 | 0.6 | 18 | | | 0724 | 0.7 | 21 | |
| | 1656 | 0.5 | 15 | | ☉ | 1646 | 0.7 | 21 | | | 1937 | 0.5 | 15 | | | 1856 | 0.7 | 21 | | | 1440 | 2.1 | 64 | | | 1346 | 2.1 | 64 | |
| | 2238 | 1.7 | 52 | | ☉ | 2221 | 1.4 | 43 | | | | | | | | | | | | | 2120 | 0.3 | 9 | | | 2030 | 0.3 | 9 | |
| 8 F | 0453 | 0.0 | 0 | | 23 Sa | 0428 | 0.4 | 12 | | 8 M | 0109 | 1.3 | 40 | | 23 Tu | 0022 | 1.3 | 40 | | 8 Th | 0327 | 1.8 | 55 | | 23 F | 0234 | 1.8 | 55 | |
| | 1147 | 2.1 | 64 | | | 1131 | 1.9 | 58 | | | 0659 | 0.5 | 15 | | | 0613 | 0.6 | 18 | | | 0915 | 0.4 | 12 | | | 0832 | 0.4 | 12 | |
| | 1823 | 0.5 | 15 | | | 1812 | 0.7 | 21 | | | 1348 | 2.1 | 64 | | | 1311 | 2.0 | 61 | | | 1530 | 2.2 | 67 | | | 1445 | 2.3 | 70 | |
| | 2352 | 1.4 | 43 | | | 2331 | 1.3 | 40 | | | 2049 | 0.3 | 9 | | | 2017 | 0.5 | 15 | | | 2158 | 0.1 | 3 | | | 2115 | 0.1 | 3 | |
| 9 Sa | 0559 | 0.2 | 6 | | 24 Su | 0532 | 0.5 | 15 | | 9 Tu | 0237 | 1.4 | 43 | | 24 W | 0155 | 1.4 | 43 | | 9 F | 0406 | 2.0 | 61 | | 24 Sa | 0323 | 2.2 | 67 | |
| | 1255 | 2.2 | 67 | | | 1239 | 1.9 | 58 | | | 0818 | 0.4 | 12 | | | 0744 | 0.5 | 15 | | | 0958 | 0.3 | 9 | | | 0926 | 0.2 | 6 | |
| | 1948 | 0.4 | 12 | | | 1942 | 0.6 | 18 | | | 1453 | 2.2 | 67 | | | 1420 | 2.1 | 64 | | | 1609 | 2.3 | 70 | | | 1534 | 2.5 | 76 | |
| | | | | | | | | | | | 2142 | 0.2 | 6 | | | 2109 | 0.3 | 9 | | | 2229 | 0.1 | 3 | | | 2154 | -0.1 | -3 | |
| 10 Su | 0115 | 1.4 | 43 | | 25 M | 0057 | 1.2 | 37 | | 10 W | 0339 | 1.6 | 49 | | 25 Th | 0300 | 1.6 | 49 | | 10 Sa | 0439 | 2.2 | 67 | | 25 Su | 0406 | 2.5 | 76 | |
| | 0712 | 0.2 | 6 | | | 0652 | 0.5 | 15 | | | 0919 | 0.3 | 9 | | | 0849 | 0.4 | 12 | | | 1035 | 0.2 | 6 | | | 1013 | 0.0 | 0 | |
| | 1402 | 2.2 | 67 | | | 1348 | 2.0 | 61 | | | 1546 | 2.3 | 70 | | | 1514 | 2.3 | 70 | | | 1643 | 2.4 | 73 | | | 1618 | 2.6 | 79 | |
| | 2058 | 0.2 | 6 | | | 2049 | 0.4 | 12 | | | 2223 | 0.0 | 0 | | | 2151 | 0.1 | 3 | | | 2257 | 0.0 | 0 | | | 2231 | -0.2 | -6 | |
| 11 M | 0236 | 1.4 | 43 | | 26 Tu | 0218 | 1.3 | 40 | | 11 Th | 0425 | 1.8 | 55 | | 26 F | 0350 | 1.9 | 58 | | 11 Su | 0508 | 2.3 | 70 | | 26 M | 0447 | 2.7 | 82 | |
| | 0821 | 0.2 | 6 | | | 0806 | 0.4 | 12 | | | 1007 | 0.2 | 6 | | | 0941 | 0.2 | 6 | | | 1108 | 0.1 | 3 | | | 1058 | -0.2 | -6 | |
| | 1502 | 2.3 | 70 | | | 1447 | 2.1 | 64 | | | 1628 | 2.4 | 73 | | | 1600 | 2.5 | 76 | | | 1714 | 2.4 | 73 | | | 1701 | 2.6 | 79 | |
| | 2152 | 0.0 | 0 | | | 2138 | 0.2 | 6 | | | 2258 | -0.1 | -3 | | | 2228 | -0.1 | -3 | | ☉ | 2324 | 0.0 | 0 | | | 2308 | -0.3 | -9 | |
| 12 Tu | 0342 | 1.5 | 46 | | 27 W | 0321 | 1.4 | 43 | | 12 F | 0503 | 1.9 | 58 | | 27 Sa | 0433 | 2.1 | 64 | | 12 M | 0537 | 2.4 | 73 | | 27 Tu | 0527 | 2.9 | 88 | |
| | 0921 | 0.1 | 3 | | | 0905 | 0.3 | 9 | | | 1048 | 0.1 | 3 | | | 1027 | 0.0 | 0 | | | 1140 | 0.1 | 3 | | | 1141 | -0.2 | -6 | |
| | 1555 | 2.4 | 73 | | | 1537 | 2.3 | 70 | | | 1705 | 2.5 | 76 | | | 1642 | 2.7 | 82 | | | 1744 | 2.4 | 73 | | | 1743 | 2.6 | 79 | |
| | 2238 | -0.1 | -3 | | | 2220 | 0.0 | 0 | | | 2330 | -0.1 | -3 | | | 2304 | -0.3 | -9 | | | 2350 | 0.0 | 0 | | ☉ | 2346 | -0.3 | -9 | |
| 13 W | 0435 | 1.6 | 49 | | 28 Th | 0412 | 1.6 | 49 | | 13 Sa | 0537 | 2.1 | 64 | | 28 Su | 0513 | 2.4 | 73 | | 13 Tu | 0605 | 2.5 | 76 | | 28 W | 0607 | 3.0 | 91 | |
| | 1013 | 0.1 | 3 | | | 0955 | 0.1 | 3 | | | | | | | | | | | | | | | | | | | | | |

Johnston Island, 2011

Times and Heights of High and Low Waters

| October | | | | November | | | | December | | | | | | | | | | | | | | | |
|-----------------|--------|------|------|-----------------|------|------|--------|-----------------|------|--------|------|-----------------|--------|------|------|-----------------|------|------|------|-----------------|------|------|------|
| Time | Height | | Time | Height | | Time | Height | | Time | Height | | Time | Height | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | |
| 1 Sa | 0142 | 0.1 | 3 | 16 Su | 0110 | 0.3 | 9 | 1 Tu | 0307 | 0.7 | 21 | 16 W | 0222 | 0.5 | 15 | 1 Th | 0348 | 0.8 | 24 | 16 F | 0315 | 0.5 | 15 |
| | 0816 | 2.6 | 79 | | 0738 | 2.4 | 73 | | 0940 | 2.1 | 64 | | 0851 | 2.2 | 67 | | 0956 | 1.9 | 58 | | 0923 | 2.1 | 64 |
| | 1445 | 0.2 | 6 | | 1405 | 0.3 | 9 | | 1628 | 0.4 | 12 | | 1529 | 0.3 | 9 | | 1633 | 0.4 | 12 | | 1552 | 0.1 | 3 |
| | 2045 | 1.8 | 55 | | 2003 | 1.7 | 52 | | 2250 | 1.6 | 49 | | 2151 | 1.7 | 52 | | 2312 | 1.8 | 55 | | 2231 | 2.0 | 61 |
| 2 Su | 0228 | 0.4 | 12 | 17 M | 0145 | 0.4 | 12 | 2 W | 0427 | 0.8 | 24 | 17 Th | 0326 | 0.7 | 21 | 2 F | 0510 | 0.9 | 27 | 17 Sa | 0428 | 0.6 | 18 |
| | 0908 | 2.3 | 70 | | 0820 | 2.2 | 67 | | 1049 | 1.9 | 58 | | 0951 | 2.1 | 64 | | 1058 | 1.7 | 52 | | 1024 | 1.9 | 58 |
| | 1547 | 0.4 | 12 | | 1451 | 0.4 | 12 | | 1745 | 0.5 | 15 | | 1632 | 0.3 | 9 | | 1732 | 0.5 | 15 | | 1649 | 0.2 | 6 |
| | 2149 | 1.6 | 49 | | 2053 | 1.6 | 49 | | ☉ | ☉ | 2304 | | 1.8 | 55 | ☉ | | ☉ | 2337 | 2.1 | | 64 | | |
| 3 M | 0325 | 0.6 | 18 | 18 Tu | 0231 | 0.6 | 18 | 3 Th | 0013 | 1.7 | 52 | 18 F | 0453 | 0.8 | 24 | 3 Sa | 0018 | 1.8 | 55 | 18 Su | 0558 | 0.6 | 18 |
| | 1013 | 2.1 | 64 | | 0913 | 2.1 | 64 | | 0613 | 0.9 | 27 | | 1102 | 1.9 | 58 | | 0642 | 0.9 | 27 | | 1137 | 1.7 | 52 |
| | 1710 | 0.6 | 18 | | 1553 | 0.5 | 15 | | 1208 | 1.8 | 55 | | 1741 | 0.3 | 9 | | 1210 | 1.6 | 49 | | 1755 | 0.2 | 6 |
| | ☉ | 2316 | 1.5 | | 46 | 2204 | 1.5 | | 46 | 1856 | 0.5 | | 15 | ☉ | ☉ | | 1834 | 0.5 | 15 | | ☉ | ☉ | |
| 4 Tu | 0454 | 0.8 | 24 | 19 W | 0336 | 0.7 | 21 | 4 F | 0125 | 1.8 | 55 | 19 Sa | 0019 | 2.0 | 61 | 4 Su | 0118 | 2.0 | 61 | 19 M | 0046 | 2.2 | 67 |
| | 1136 | 1.9 | 58 | | 1024 | 2.0 | 61 | | 0738 | 0.8 | 24 | | 0631 | 0.7 | 21 | | 0757 | 0.7 | 21 | | 0728 | 0.5 | 15 |
| | 1845 | 0.6 | 18 | | 1716 | 0.6 | 18 | | 1322 | 1.8 | 55 | | 1220 | 1.9 | 58 | | 1323 | 1.5 | 46 | | 1259 | 1.6 | 49 |
| | ☉ | ☉ | ☉ | | 2334 | 1.6 | 49 | | 1950 | 0.5 | 15 | | 1849 | 0.3 | 9 | | 1931 | 0.5 | 15 | | 1905 | 0.2 | 6 |
| 5 W | 0056 | 1.5 | 46 | 20 Th | 0517 | 0.8 | 24 | 5 Sa | 0218 | 2.0 | 61 | 20 Su | 0125 | 2.2 | 67 | 5 M | 0210 | 2.1 | 64 | 20 Tu | 0151 | 2.4 | 73 |
| | 0649 | 0.8 | 24 | | 1147 | 2.0 | 61 | | 0836 | 0.6 | 18 | | 0751 | 0.5 | 15 | | 0852 | 0.6 | 18 | | 0840 | 0.3 | 9 |
| | 1303 | 1.9 | 58 | | 1839 | 0.5 | 15 | | 1421 | 1.8 | 55 | | 1334 | 1.9 | 58 | | 1426 | 1.5 | 46 | | 1418 | 1.6 | 49 |
| | 1956 | 0.5 | 15 | | 2033 | 0.4 | 12 | | 2033 | 0.4 | 12 | | 1949 | 0.2 | 6 | | 2021 | 0.5 | 15 | | 2012 | 0.2 | 6 |
| 6 Th | 0211 | 1.7 | 52 | 21 F | 0058 | 1.8 | 55 | 6 Su | 0258 | 2.2 | 67 | 21 M | 0222 | 2.5 | 76 | 6 Tu | 0255 | 2.2 | 67 | 21 W | 0251 | 2.5 | 76 |
| | 0808 | 0.7 | 21 | | 0700 | 0.7 | 21 | | 0920 | 0.5 | 15 | | 0854 | 0.3 | 9 | | 0936 | 0.4 | 12 | | 0938 | 0.1 | 3 |
| | 1412 | 2.0 | 61 | | 1305 | 2.0 | 61 | | 1508 | 1.9 | 58 | | 1439 | 1.9 | 58 | | 1518 | 1.6 | 49 | | 1525 | 1.7 | 52 |
| | 2044 | 0.4 | 12 | | 1942 | 0.3 | 9 | | 2109 | 0.3 | 9 | | 2042 | 0.1 | 3 | | 2105 | 0.4 | 12 | | 2111 | 0.1 | 3 |
| 7 F | 0300 | 1.9 | 58 | 22 Sa | 0202 | 2.1 | 64 | 7 M | 0333 | 2.4 | 73 | 22 Tu | 0313 | 2.7 | 82 | 7 W | 0335 | 2.4 | 73 | 22 Th | 0344 | 2.7 | 82 |
| | 0901 | 0.5 | 15 | | 0813 | 0.5 | 15 | | 0957 | 0.3 | 9 | | 0947 | 0.0 | 0 | | 1014 | 0.2 | 6 | | 1027 | -0.2 | -6 |
| | 1502 | 2.1 | 64 | | 1410 | 2.1 | 64 | | 1548 | 1.9 | 58 | | 1536 | 2.0 | 61 | | 1602 | 1.7 | 52 | | 1622 | 1.8 | 55 |
| | 2121 | 0.3 | 9 | | 2033 | 0.1 | 3 | | 2142 | 0.3 | 9 | | 2131 | 0.0 | 0 | | 2145 | 0.3 | 9 | | 2204 | 0.0 | 0 |
| 8 Sa | 0336 | 2.1 | 64 | 23 Su | 0253 | 2.4 | 73 | 8 Tu | 0405 | 2.5 | 76 | 23 W | 0400 | 2.9 | 88 | 8 Th | 0412 | 2.5 | 76 | 23 F | 0433 | 2.7 | 82 |
| | 0942 | 0.4 | 12 | | 0910 | 0.2 | 6 | | 1031 | 0.2 | 6 | | 1034 | -0.2 | -6 | | 1049 | 0.1 | 3 | | 1112 | -0.3 | -9 |
| | 1542 | 2.1 | 64 | | 1506 | 2.3 | 70 | | 1624 | 2.0 | 61 | | 1628 | 2.0 | 61 | | 1642 | 1.7 | 52 | | 1711 | 1.9 | 58 |
| | 2152 | 0.2 | 6 | | 2117 | 0.0 | 0 | | 2214 | 0.2 | 6 | | 2217 | -0.1 | -3 | | 2223 | 0.2 | 6 | | 2252 | 0.0 | 0 |
| 9 Su | 0408 | 2.3 | 70 | 24 M | 0339 | 2.7 | 82 | 9 W | 0436 | 2.6 | 79 | 24 Th | 0444 | 3.0 | 91 | 9 F | 0448 | 2.5 | 76 | 24 Sa | 0518 | 2.8 | 85 |
| | 1017 | 0.3 | 9 | | 0959 | 0.0 | 0 | | 1104 | 0.1 | 3 | | 1119 | -0.3 | -9 | | 1123 | 0.0 | 0 | | 1153 | -0.4 | -12 |
| | 1617 | 2.2 | 67 | | 1555 | 2.3 | 70 | | 1658 | 2.0 | 61 | | 1716 | 2.1 | 64 | | 1719 | 1.8 | 55 | | 1756 | 1.9 | 58 |
| | 2221 | 0.1 | 3 | | 2159 | -0.1 | -3 | | 2246 | 0.2 | 6 | | ☉ | ☉ | 2301 | | -0.1 | -3 | 2259 | | 0.1 | 3 | ☉ |
| 10 M | 0437 | 2.5 | 76 | 25 Tu | 0421 | 2.9 | 88 | 10 Th | 0507 | 2.6 | 79 | 25 F | 0528 | 3.0 | 91 | 10 Sa | 0523 | 2.6 | 79 | 25 Su | 0600 | 2.7 | 82 |
| | 1050 | 0.2 | 6 | | 1045 | -0.2 | -6 | | 1136 | 0.0 | 0 | | 1202 | -0.3 | -9 | | 1157 | -0.1 | -3 | | 1232 | -0.4 | -12 |
| | 1649 | 2.2 | 67 | | 1642 | 2.4 | 73 | | 1731 | 2.0 | 61 | | 1803 | 2.1 | 64 | | 1755 | 1.8 | 55 | | 1838 | 2.0 | 61 |
| | 2248 | 0.1 | 3 | | 2240 | -0.2 | -6 | | ☉ | 2317 | 0.2 | | 6 | 2345 | -0.1 | | -3 | ☉ | 2335 | | 0.1 | 3 | ☉ |
| 11 Tu | 0505 | 2.6 | 79 | 26 W | 0503 | 3.1 | 94 | 11 F | 0539 | 2.6 | 79 | 26 Sa | 0611 | 2.9 | 88 | 11 Su | 0558 | 2.6 | 79 | 26 M | 0019 | 0.0 | 0 |
| | 1121 | 0.1 | 3 | | 1129 | -0.3 | -9 | | 1208 | 0.0 | 0 | | 1245 | -0.3 | -9 | | 1231 | -0.1 | -3 | | 0639 | 2.6 | 79 |
| | 1719 | 2.2 | 67 | | 1727 | 2.3 | 70 | | 1804 | 1.9 | 58 | | 1848 | 2.0 | 61 | | 1831 | 1.9 | 58 | | 1309 | -0.3 | -9 |
| | ☉ | 2315 | 0.1 | | 3 | ☉ | 2320 | | -0.2 | -6 | 2348 | | 0.2 | 6 | ☉ | | ☉ | 1919 | 2.0 | | 61 | 1919 | 2.0 | 61 |
| 12 W | 0533 | 2.6 | 79 | 27 Th | 0544 | 3.1 | 94 | 12 Sa | 0611 | 2.6 | 79 | 27 Su | 0028 | 0.1 | 3 | 12 M | 0011 | 0.1 | 3 | 27 Tu | 0100 | 0.1 | 3 |
| | 1151 | 0.0 | 0 | | 1212 | -0.3 | -9 | | 1241 | 0.0 | 0 | | 0653 | 2.7 | 82 | | 0634 | 2.6 | 79 | | 0717 | 2.5 | 76 |
| | 1749 | 2.2 | 67 | | 1811 | 2.2 | 67 | | 1838 | 1.9 | 58 | | 1327 | -0.2 | -6 | | 1305 | -0.1 | -3 | | 1345 | -0.2 | -6 |
| | 2343 | 0.1 | 3 | | ☉ | ☉ | ☉ | | ☉ | ☉ | 1934 | | 1.9 | 58 | 1934 | | 1.9 | 58 | 1910 | | 1.9 | 58 | 1959 | 2.0 | 61 |
| 13 Th | 0602 | 2.6 | 79 | 28 F | 0000 | -0.1 | -3 | 13 Su | 0020 | 0.2 | 6 | 28 M | 0111 | 0.2 | 6 | 13 Tu | 0049 | 0.2 | 6 | 28 W | 0140 | 0.2 | 6 |
| | 1222 | 0.1 | 3 | | 0626 | 3.0 | 91 | | 0645 | 2.5 | 76 | | 0736 | 2.5 | 76 | | 0710 | 2.5 | 76 | | 0754 | 2.3 | 70 |
| | 1819 | 2.1 | 64 | | 1256 | -0.2 | -6 | | 1316 | 0.1 | 3 | | 1409 | -0.1 | -3 | | 1342 | -0.1 | -3 | | 1419 | -0.1 | -3 |
| | ☉ | ☉ | ☉ | | 1856 | 2.1 | 64 | | 1915 | 1.8 | 55 | | 2021 | 1.9 | 58 | | 1951 | 1.9 | 58 | | 2040 | 2.0 | 61 |
| 14 F | 0010 | 0.1 | 3 | 29 Sa | 0041 | 0.0 | 0 | 14 M | 0055 | 0.3 | 9 | 29 Tu | 0157 | 0.4 | 12 | 14 W | 0130 | 0.3 | 9 | 29 Th | 0222 | 0.4 | 12 |
| | 0631 | 2.6 | 79 | | 0709 | 2.8 | 85 | | 0721 | 2.4 | 73 | | 0819 | 2.3 | 70 | | 0750 | 2.4 | 73 | | 0830 | 2.1 | 64 |
| | 1253 | 0.1 | 3 | | 1340 | -0.1 | -3 | | 1354 | 0.1 | 3 | | 1453 | 0.1 | 3 | | 1421 | -0.1 | -3 | | 1454 | 0.1 | 3 |
| | 1850 | 2.0 | 61 | | 1943 | 1.9 | 58 | | 1957 | 1.8 | 55 | | 2112 | 1.8 | 55 | | 2038 | 1.9 | 58 | | 2122 | 1.9 | 58 |
| 15 Sa | 0039 | 0.2 | 6 | 30 Su | 0124 | 0.2 | 6 | 15 Tu | 0135 | 0.4 | 12 | 30 W | 0247 | 0.6 | 18 | 15 Th | 0218 | 0.4 | 12 | 30 F | 0309 | 0.6 | 18 |
| | 0703 | 2.5 | 76 | | 0754 | 2.6 | 79 | | 0803 | 2.3 | 70 | | 0905 | 2.1 | 64 | | 0833 | 2.3 | 70 | | 0909 | 1.9 | 58 |
| | 1327 | 0.2 | 6 | | 1428 | 0.1 | 3 | | 1438 | 0.2 | 6 | | 1540 | 0.3 | 9 | | 1503 | 0.0 | 0 | | 1530 | 0.2 | 6 |
| | 1924 | 1.9 | 58 | | 2035 | 1.8 | 55 | | 2048 | 1.7 | 52 | | 2209 | 1.8 | 55 | | 2131 | 2.0 | 61 | | 2209 | 1.9 | 58 |
| | | | | 31 M | 0211 | 0.4 | 12 | | | | | | | | | | | | | | | | |
| | | | | | 0843 | 2.3 | 70 | | | | | | | | | | | | | | | | |
| | | | | | 1522 | 0.3 | 9 | | | | | | | | | | | | | | | | |

Papeete Harbor, Tahiti Island, 2011

Times and Heights of High and Low Waters

| January | | | | February | | | | March | | | | | | | | | | | | | | | |
|-----------------|--------|------|------|-----------------|------|------|--------|-----------------|------|--------|----|-----------------|--------|------|----|-----------------|------|------|----|-----------------|------|------|----|
| Time | Height | | Time | Height | | Time | Height | | Time | Height | | Time | Height | | | | | | | | | | |
| | h | m | | ft | cm | | h | m | | ft | cm | | h | m | ft | cm | | | | | | | |
| 1 Sa | 0516 | 0.0 | 0 | 16 Su | 0535 | 0.0 | 0 | 1 Tu | 0013 | 0.8 | 24 | 16 W | 0002 | 0.8 | 24 | 1 Tu | 0554 | -0.1 | -3 | 16 W | 0536 | 0.0 | 0 |
| | 1135 | 0.7 | 21 | | 1146 | 0.6 | 18 | | 0626 | -0.2 | -6 | | 0614 | -0.1 | -3 | | 1157 | 0.7 | 21 | | 1134 | 0.7 | 21 |
| | 1739 | 0.0 | 0 | | 1750 | 0.0 | 0 | | 1229 | 0.7 | 21 | | 1213 | 0.8 | 24 | | 1752 | -0.1 | -3 | | 1725 | 0.0 | 0 |
| | 2336 | 0.7 | 21 | | 2350 | 0.7 | 21 | | 1827 | -0.1 | -3 | | 1809 | -0.1 | -3 | | 1752 | -0.1 | -3 | | 2338 | 0.9 | 27 |
| 2 Su | 0551 | -0.1 | -3 | 17 M | 0558 | -0.1 | -3 | 2 W | 0036 | 0.9 | 27 | 17 Th | 0022 | 0.9 | 27 | 2 W | 0000 | 0.8 | 24 | 17 Th | 0552 | -0.1 | -3 |
| | 1204 | 0.7 | 21 | | 1205 | 0.7 | 21 | | 0647 | -0.2 | -6 | | 0634 | -0.2 | -6 | | 0612 | -0.2 | -6 | | 1148 | 0.8 | 24 |
| | 1805 | 0.0 | 0 | | 1806 | -0.1 | -3 | | 1248 | 0.8 | 24 | | 1231 | 0.8 | 24 | | 1212 | 0.8 | 24 | | 1744 | -0.1 | -3 |
| 3 M | 0008 | 0.8 | 24 | 18 Tu | 0012 | 0.8 | 24 | 3 Th | 0058 | 0.9 | 27 | 18 F | 0045 | 1.0 | 30 | 3 Th | 0020 | 0.9 | 27 | 18 F | 0000 | 1.0 | 30 |
| | 0623 | -0.1 | -3 | | 0622 | -0.1 | -3 | | 0707 | -0.2 | -6 | | 0655 | -0.2 | -6 | | 0629 | -0.2 | -6 | | 0611 | -0.1 | -3 |
| | 1231 | 0.7 | 21 | | 1226 | 0.7 | 21 | | 1306 | 0.8 | 24 | | 1251 | 0.9 | 27 | | 1228 | 0.8 | 24 | | 1206 | 0.9 | 27 |
| | 1830 | -0.1 | -3 | | 1825 | -0.1 | -3 | | 1907 | -0.2 | -6 | | 1853 | -0.2 | -6 | | 1828 | -0.2 | -6 | | 1807 | -0.2 | -6 |
| 4 Tu | 0038 | 0.8 | 24 | 19 W | 0036 | 0.8 | 24 | 4 F | 0119 | 0.9 | 27 | 19 Sa | 0110 | 1.1 | 34 | 4 F | 0038 | 0.9 | 27 | 19 Sa | 0023 | 1.1 | 34 |
| | 0652 | -0.2 | -6 | | 0647 | -0.1 | -3 | | 0726 | -0.1 | -3 | | 0717 | -0.1 | -3 | | 0646 | -0.2 | -6 | | 0632 | -0.1 | -3 |
| | 1255 | 0.7 | 21 | | 1247 | 0.8 | 24 | | 1323 | 0.8 | 24 | | 1312 | 0.9 | 27 | | 1244 | 0.9 | 27 | | 1227 | 0.9 | 27 |
| | 1855 | -0.1 | -3 | | 1847 | -0.2 | -6 | | 1925 | -0.2 | -6 | | 1918 | -0.2 | -6 | | 1845 | -0.2 | -6 | | 1831 | -0.2 | -6 |
| 5 W | 0106 | 0.8 | 24 | 20 Th | 0101 | 0.9 | 27 | 5 Sa | 0139 | 0.9 | 27 | 20 Su | 0135 | 1.0 | 30 | 5 Sa | 0056 | 0.9 | 27 | 20 Su | 0048 | 1.1 | 34 |
| | 0718 | -0.1 | -3 | | 0711 | -0.1 | -3 | | 0743 | -0.1 | -3 | | 0739 | -0.1 | -3 | | 0702 | -0.1 | -3 | | 0653 | -0.1 | -3 |
| | 1318 | 0.7 | 21 | | 1309 | 0.8 | 24 | | 1339 | 0.8 | 24 | | 1333 | 0.9 | 27 | | 1259 | 0.9 | 27 | | 1249 | 1.0 | 30 |
| | 1918 | -0.1 | -3 | | 1910 | -0.2 | -6 | | 1943 | -0.1 | -3 | | 1943 | -0.2 | -6 | | 1902 | -0.2 | -6 | | 1857 | -0.2 | -6 |
| 6 Th | 0132 | 0.8 | 24 | 21 F | 0127 | 1.0 | 30 | 6 Su | 0157 | 0.9 | 27 | 21 M | 0200 | 1.0 | 30 | 6 Su | 0114 | 0.9 | 27 | 21 M | 0113 | 1.0 | 30 |
| | 0742 | -0.1 | -3 | | 0737 | -0.1 | -3 | | 0759 | 0.0 | 0 | | 0801 | 0.0 | 0 | | 0718 | -0.1 | -3 | | 0715 | -0.1 | -3 |
| | 1339 | 0.7 | 21 | | 1332 | 0.8 | 24 | | 1353 | 0.8 | 24 | | 1354 | 0.9 | 27 | | 1314 | 0.8 | 24 | | 1311 | 0.9 | 27 |
| | 1941 | -0.1 | -3 | | 1935 | -0.2 | -6 | | 2000 | -0.1 | -3 | | 2008 | -0.1 | -3 | | 1918 | -0.2 | -6 | | 1923 | -0.2 | -6 |
| 7 F | 0157 | 0.8 | 24 | 22 Sa | 0155 | 1.0 | 30 | 7 M | 0214 | 0.8 | 24 | 22 Tu | 0224 | 0.9 | 27 | 7 M | 0130 | 0.9 | 27 | 22 Tu | 0137 | 0.9 | 27 |
| | 0804 | 0.0 | 0 | | 0802 | 0.0 | 0 | | 0814 | 0.0 | 0 | | 0820 | 0.1 | 3 | | 0733 | -0.1 | -3 | | 0736 | 0.0 | 0 |
| | 1358 | 0.7 | 21 | | 1355 | 0.8 | 24 | | 1405 | 0.7 | 21 | | 1414 | 0.8 | 24 | | 1327 | 0.8 | 24 | | 1334 | 0.9 | 27 |
| | 2003 | -0.1 | -3 | | 2002 | -0.1 | -3 | | 2014 | 0.0 | 0 | | 2031 | 0.0 | 0 | | 1933 | -0.1 | -3 | | 1949 | -0.1 | -3 |
| 8 Sa | 0221 | 0.8 | 24 | 23 Su | 0223 | 0.9 | 27 | 8 Tu | 0229 | 0.7 | 21 | 23 W | 0245 | 0.7 | 21 | 8 Tu | 0145 | 0.8 | 24 | 23 W | 0159 | 0.8 | 24 |
| | 0825 | 0.0 | 0 | | 0827 | 0.0 | 0 | | 0825 | 0.1 | 3 | | 0833 | 0.1 | 3 | | 0746 | 0.0 | 0 | | 0755 | 0.0 | 0 |
| | 1416 | 0.7 | 21 | | 1417 | 0.8 | 24 | | 1414 | 0.7 | 21 | | 1427 | 0.7 | 21 | | 1339 | 0.8 | 24 | | 1354 | 0.8 | 24 |
| | 2024 | 0.0 | 0 | | 2029 | -0.1 | -3 | | 2026 | 0.0 | 0 | | 2050 | 0.1 | 3 | | 1947 | -0.1 | -3 | | 2012 | 0.0 | 0 |
| 9 Su | 0244 | 0.7 | 21 | 24 M | 0252 | 0.8 | 24 | 9 W | 0240 | 0.6 | 18 | 24 Th | 0256 | 0.5 | 15 | 9 W | 0159 | 0.7 | 21 | 24 Th | 0218 | 0.6 | 18 |
| | 0844 | 0.1 | 3 | | 0851 | 0.1 | 3 | | 0830 | 0.2 | 6 | | 0829 | 0.2 | 6 | | 0756 | 0.0 | 0 | | 0807 | 0.1 | 3 |
| | 1432 | 0.6 | 18 | | 1439 | 0.7 | 21 | | 1415 | 0.6 | 18 | | 1424 | 0.6 | 18 | | 1349 | 0.7 | 21 | | 1411 | 0.7 | 21 |
| | 2043 | 0.0 | 0 | | 2056 | 0.0 | 0 | | 2031 | 0.1 | 3 | | 2050 | 0.2 | 6 | | 1959 | 0.0 | 0 | | 2031 | 0.1 | 3 |
| 10 M | 0306 | 0.6 | 18 | 25 Tu | 0321 | 0.7 | 21 | 10 Th | 0242 | 0.5 | 15 | 25 F | 0219 | 0.4 | 12 | 10 Th | 0208 | 0.6 | 18 | 25 F | 0223 | 0.5 | 15 |
| | 0901 | 0.2 | 6 | | 0912 | 0.2 | 6 | | 0818 | 0.2 | 6 | | 0715 | 0.3 | 9 | | 0801 | 0.1 | 3 | | 0803 | 0.2 | 6 |
| | 1442 | 0.6 | 18 | | 1456 | 0.6 | 18 | | 1359 | 0.5 | 15 | | 1314 | 0.5 | 15 | | 1355 | 0.6 | 18 | | 1413 | 0.5 | 15 |
| | 2059 | 0.1 | 3 | | 2123 | 0.1 | 3 | | 2017 | 0.2 | 6 | | 1905 | 0.3 | 9 | | 2006 | 0.0 | 0 | | 2028 | 0.2 | 6 |
| 11 Tu | 0326 | 0.6 | 18 | 26 W | 0351 | 0.6 | 18 | 11 F | 0211 | 0.4 | 12 | 26 Sa | 0533 | 0.2 | 6 | 11 F | 0208 | 0.5 | 15 | 26 Sa | 0136 | 0.4 | 12 |
| | 0911 | 0.3 | 9 | | 0921 | 0.3 | 9 | | 0724 | 0.3 | 9 | | 1149 | 0.5 | 15 | | 0754 | 0.1 | 3 | | 0659 | 0.2 | 6 |
| | 1439 | 0.5 | 15 | | 1455 | 0.5 | 15 | | 1307 | 0.5 | 15 | | 1733 | 0.2 | 6 | | 1349 | 0.5 | 15 | | 1310 | 0.4 | 12 |
| | 2106 | 0.2 | 6 | | 2147 | 0.2 | 6 | | 1914 | 0.2 | 6 | | 2311 | 0.5 | 15 | | 1957 | 0.1 | 3 | | 1827 | 0.3 | 9 |
| 12 W | 0342 | 0.5 | 15 | 27 Th | 0427 | 0.4 | 12 | 12 Sa | 0039 | 0.4 | 12 | 27 Su | 0525 | 0.0 | 0 | 12 Sa | 0142 | 0.4 | 12 | 27 Su | 0523 | 0.2 | 6 |
| | 0848 | 0.3 | 9 | | 0704 | 0.3 | 9 | | 0605 | 0.2 | 6 | | 1136 | 0.6 | 18 | | 0718 | 0.2 | 6 | | 1132 | 0.4 | 12 |
| | 1343 | 0.4 | 12 | | 1246 | 0.5 | 15 | | 1207 | 0.5 | 15 | | 1725 | 0.1 | 3 | | 1316 | 0.5 | 15 | | 1658 | 0.2 | 6 |
| | 2031 | 0.3 | 9 | | 1920 | 0.3 | 9 | | 1803 | 0.2 | 6 | | 2322 | 0.6 | 18 | | 1904 | 0.2 | 6 | | 2247 | 0.5 | 15 |
| 13 Th | 0236 | 0.4 | 12 | 28 F | 0442 | 0.2 | 6 | 13 Su | 0539 | 0.1 | 3 | 28 M | 0537 | -0.1 | -3 | 13 Su | 0024 | 0.4 | 12 | 28 M | 0508 | 0.1 | 3 |
| | 0520 | 0.3 | 9 | | 1124 | 0.5 | 15 | | 1146 | 0.5 | 15 | | 1144 | 0.6 | 18 | | 0610 | 0.2 | 6 | | 1113 | 0.5 | 15 |
| | 1135 | 0.5 | 15 | | 1728 | 0.2 | 6 | | 1739 | 0.1 | 3 | | 1736 | 0.0 | 0 | | 1212 | 0.5 | 15 | | 1655 | 0.1 | 3 |
| | 1818 | 0.3 | 9 | | 2258 | 0.5 | 15 | | 2334 | 0.6 | 18 | | 2341 | 0.7 | 21 | | 1742 | 0.2 | 6 | | 2259 | 0.7 | 21 |
| 14 F | 2332 | 0.4 | 12 | 29 Sa | 0511 | 0.1 | 3 | 14 M | 0543 | 0.0 | 0 | 14 M | 0532 | 0.1 | 3 | 14 M | 0532 | 0.1 | 3 | 29 Tu | 0516 | 0.0 | 0 |
| | 0454 | 0.2 | 6 | | 1132 | 0.6 | 18 | | 1147 | 0.6 | 18 | | 1134 | 0.5 | 15 | | 1134 | 0.5 | 15 | | 1118 | 0.6 | 18 |
| | 1118 | 0.5 | 15 | | 1731 | 0.1 | 3 | | 1740 | 0.0 | 0 | | 1711 | 0.1 | 3 | | 1711 | 0.1 | 3 | | 1708 | 0.0 | 0 |
| | 1738 | 0.2 | 6 | | 2323 | 0.6 | 18 | | 2344 | 0.7 | 21 | | 2311 | 0.6 | 18 | | 2311 | 0.6 | 18 | | 2317 | 0.8 | 24 |
| 15 Sa | 0513 | 0.1 | 3 | 30 Su | 0538 | 0.0 | 0 | 15 Tu | 0556 | -0.1 | -3 | 15 Tu | 0527 | 0.0 | 0 | 15 Tu | 0527 | 0.0 | 0 | 30 W | 0531 | -0.1 | -3 |
| | 1129 | 0.6 | 18 | | 1150 | 0.7 | 21 | | 1158 | 0.7 | 21 | | 1127 | 0.6 | 18 | | 1127 | 0.6 | 18 | | 1130 | 0.7 | 21 |
| | 1738 | 0.1 | 3 | | 1748 | 0.0 | 0 | | 1752 | -0.1 | -3 | | 1711 | 0.0 | 0 | | 1711 | 0.0 | 0 | | 1725 | -0.1 | -3 |
| | 2332 | 0.6 | 18 | | 2348 | 0.7 | 21 | | | | | | 2321 | 0.8 | 24 | | 2321 | 0.8 | 24 | | 2336 | 0.8 | 24 |
| 31 M | 0603 | -0.1 | -3 | 31 M | 1210 | 0.7 | 21 | 31 Th | 0547 | -0.1 | -3 | 31 Th | 1146 | 0.8 | 24 | 31 Th | 0547 | -0.1 | -3 | | | | |
| | 1210 | 0.7 | 21 | | 1807 | -0.1 | -3 | | 1146 | 0.8 | 24 | | 1743 | -0.1 | -3 | | 1146 | 0.8 | 24 | | | | |
| | 1807 | -0.1 | -3 | | | | | | 2354 | 0.9 | 27 | | | | | | 2354 | 0.9 | 27 | | | | |

Papeete Harbor, Tahiti Island, 2011

Times and Heights of High and Low Waters

| April | | | | May | | | | June | | | | | | | | | | | | | | | | | | | | | |
|-----------------|--------|------|----|------|-----------------|------|------|------|-----------------|----------------|------|------|--------|-----------------|-----------------|------|------|----|-----------------|----------------|------|------|----|-----------------|-----------------|------|------|----|--|
| Time | Height | | | Time | Height | | | Time | Height | | | Time | Height | | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | | | | | | |
| 1 F | 0604 | -0.1 | -3 | | 16 Su | 0545 | -0.1 | -3 | | 1 Su | 0557 | -0.1 | -3 | | 16 M | 0551 | 0.0 | 0 | | 1 W | 0022 | 0.7 | 21 | | 16 Th | 0048 | 0.7 | 21 | |
| | 1201 | 0.8 | 24 | | | 1138 | 0.9 | 27 | | | 1154 | 0.8 | 24 | | | 1146 | 0.8 | 24 | | | 0630 | 0.0 | 0 | | | 0648 | -0.1 | -3 | |
| | 1801 | -0.1 | -3 | | | 1742 | -0.2 | -6 | | | 1756 | -0.1 | -3 | | | 1759 | -0.1 | -3 | | | 1838 | -0.1 | -3 | | | 1838 | -0.1 | -3 |  | 1257 | 0.8 | 24 |
| 2 Sa | 0013 | 0.9 | 27 | | 17 Su | 0001 | 1.0 | 30 | | 2 M | 0008 | 0.8 | 24 | | 17 Tu | 0015 | 0.9 | 27 | | 2 Th | 0047 | 0.7 | 21 | | 17 F | 0118 | 0.7 | 21 | |
| | 0620 | -0.1 | -3 | | | 0608 | -0.1 | -3 | | | 0617 | -0.1 | -3 | | | 0619 | 0.0 | 0 | | | 0653 | -0.1 | -3 | | | 0718 | -0.1 | -3 | |
| | 1218 | 0.8 | 24 | | | 1202 | 0.9 | 27 | | | 1213 | 0.8 | 24 | | | 1218 | 0.8 | 24 | | | 1259 | 0.7 | 21 | | | 1332 | 0.8 | 24 | |
| 3 Su | 1234 | 0.8 | 24 | | 1811 | -0.2 | -6 | | 3 Tu | 1817 | -0.1 | -3 | | 3 W | 1833 | -0.2 | -6 | | 3 F | 1907 | -0.1 | -3 | | 3 Sa | 1947 | -0.1 | -3 | | |
| | 1837 | -0.2 | -6 | | 0027 | 1.0 | 30 | | | 0029 | 0.8 | 24 | | | 0045 | 0.8 | 24 | | | 0113 | 0.7 | 21 | | | 0146 | 0.6 | 18 | | |
| | | | | | 0632 | -0.1 | -3 | | | 0637 | -0.1 | -3 | | | 0646 | -0.1 | -3 | | | 0716 | 0.0 | 0 | | | 0747 | -0.1 | -3 | | |
| 4 M | 1234 | 0.8 | 24 | | 1840 | -0.2 | -6 | | 4 W | 1839 | -0.1 | -3 | | 4 Th | 1907 | -0.1 | -3 | | 4 Sa | 1938 | 0.0 | 0 | | 4 Su | 2018 | 0.0 | 0 | | |
| | 1854 | -0.2 | -6 | | 0054 | 0.9 | 27 | | | 0050 | 0.8 | 24 | | | 0115 | 0.7 | 21 | | | 0139 | 0.6 | 18 | | | 0213 | 0.6 | 18 | | |
| | | | | | 0655 | -0.1 | -3 | | | 0656 | -0.1 | -3 | | | 0714 | -0.1 | -3 | | | 0741 | 0.0 | 0 | | | 0816 | 0.0 | 0 | | |
| 5 Tu | 0710 | -0.1 | -3 | | 1228 | 0.9 | 27 | | 5 Th | 1255 | 0.7 | 21 | | 5 F | 1324 | 0.8 | 24 | | 5 Sa | 1359 | 0.7 | 21 | | 5 Su | 2049 | 0.1 | 3 | | |
| | 1305 | 0.8 | 24 | | 1909 | -0.2 | -6 | | | 1902 | -0.1 | -3 | | | 1941 | -0.1 | -3 | | | 2011 | 0.0 | 0 | | | 2049 | 0.1 | 3 | | |
| | 1912 | -0.1 | -3 | | 0120 | 0.8 | 24 | | | 0111 | 0.7 | 21 | | | 0144 | 0.6 | 18 | | | 0206 | 0.6 | 18 | | | 2120 | 0.2 | 6 | | |
| 6 W | 0710 | -0.1 | -3 | | 0719 | -0.1 | -3 | | 6 F | 0715 | 0.0 | 0 | | 6 Sa | 0743 | 0.0 | 0 | | 6 Su | 0808 | 0.0 | 0 | | | | | | | |
| | 1321 | 0.7 | 21 | | 1322 | 0.8 | 24 | | | 1317 | 0.7 | 21 | | | 1359 | 0.7 | 21 | | | 1435 | 0.7 | 21 | | 1514 | 0.6 | 18 | | | |
| | 1929 | -0.1 | -3 | | 1938 | -0.1 | -3 | | | 1926 | 0.0 | 0 | | | 2016 | 0.0 | 0 | | | 2048 | 0.1 | 3 | | 2120 | 0.2 | 6 | | | |
| 7 Th | 0122 | 0.8 | 24 | | 0145 | 0.7 | 21 | | 7 Sa | 0131 | 0.6 | 18 | | 7 Su | 0212 | 0.6 | 18 | | 7 Tu | 0235 | 0.6 | 18 | | 7 W | 0308 | 0.5 | 15 | | |
| | 0724 | 0.0 | 0 | | 0741 | 0.0 | 0 | | | 0733 | 0.0 | 0 | | | 0812 | 0.0 | 0 | | | 0840 | 0.1 | 3 | | | 0920 | 0.1 | 3 | | |
| | 1321 | 0.7 | 21 | | 1349 | 0.7 | 21 | | | 1342 | 0.6 | 18 | | | 1436 | 0.6 | 18 | | | 1518 | 0.7 | 21 | | | 1617 | 0.6 | 18 | | |
| 8 F | 1929 | -0.1 | -3 | | 2007 | 0.0 | 0 | | 8 Su | 1952 | 0.0 | 0 | | 8 M | 2053 | 0.1 | 3 | | 8 Th | 2132 | 0.2 | 6 | | 8 F | 2238 | 0.3 | 9 | | |
| | 0137 | 0.7 | 21 | | 0206 | 0.6 | 18 | | | 0151 | 0.6 | 18 | | | 0240 | 0.5 | 15 | | | 0308 | 0.5 | 15 | | | 0331 | 0.5 | 15 | | |
| | 0737 | 0.0 | 0 | | 0800 | 0.1 | 3 | | | 0752 | 0.0 | 0 | | | 0842 | 0.1 | 3 | | | 0920 | 0.1 | 3 | | | 0952 | 0.2 | 6 | | |
| 9 Sa | 1336 | 0.7 | 21 | | 1415 | 0.6 | 18 | | 9 Su | 1411 | 0.6 | 18 | | 9 M | 1521 | 0.5 | 15 | | 9 Th | 1617 | 0.6 | 18 | | 9 F | 1644 | 0.5 | 15 | | |
| | 1945 | 0.0 | 0 | | 2035 | 0.1 | 3 | | | 2022 | 0.1 | 3 | | | 2140 | 0.2 | 6 | | | 2238 | 0.3 | 9 | | | 2249 | 0.3 | 9 | | |
| | 0149 | 0.6 | 18 | | 0220 | 0.4 | 12 | | | 0210 | 0.5 | 15 | | | 0311 | 0.4 | 12 | | | 0354 | 0.5 | 15 | | | 0400 | 0.4 | 12 | | |
| 10 Su | 0746 | 0.1 | 3 | | 0811 | 0.1 | 3 | | 10 Tu | 0812 | 0.1 | 3 | | 10 W | 0920 | 0.2 | 6 | | 10 Th | 1021 | 0.2 | 6 | | 10 F | 1047 | 0.3 | 9 | | |
| | 1349 | 0.6 | 18 | | 1441 | 0.5 | 15 | | | 1448 | 0.5 | 15 | | | 1637 | 0.5 | 15 | | | 1757 | 0.6 | 18 | | | 1852 | 0.5 | 15 | | |
| | 1958 | 0.1 | 3 | | 2100 | 0.2 | 6 | | | 2101 | 0.2 | 6 | | | 2340 | 0.2 | 6 | | | 0057 | 0.3 | 9 | | | 0317 | 0.3 | 9 | | |
| 11 M | 0153 | 0.5 | 15 | | 0155 | 0.3 | 9 | | 11 W | 0223 | 0.4 | 12 | | 11 Th | 0413 | 0.3 | 9 | | 11 F | 0542 | 0.4 | 12 | | 11 Sa | 0646 | 0.4 | 12 | | |
| | 0747 | 0.1 | 3 | | 0738 | 0.2 | 6 | | | 0832 | 0.2 | 6 | | | 1103 | 0.2 | 6 | | | 1224 | 0.3 | 9 | | | 1356 | 0.3 | 9 | | |
| | 1358 | 0.5 | 15 | | 1451 | 0.4 | 12 | | | 1603 | 0.5 | 15 | | | 1959 | 0.5 | 15 | | | 2014 | 0.6 | 18 | | | 2138 | 0.5 | 15 | | |
| 12 Tu | 2000 | 0.2 | 6 | | 1807 | 0.3 | 9 | | 12 Th | 2101 | 0.2 | 6 | | 12 F | 2340 | 0.2 | 6 | | 12 Sa | 0057 | 0.3 | 9 | | 12 Su | 0317 | 0.3 | 9 | | |
| | 0131 | 0.4 | 12 | | 2143 | 0.4 | 12 | | | 0835 | 0.3 | 9 | | | 0327 | 0.3 | 9 | | | 0542 | 0.4 | 12 | | | 0646 | 0.4 | 12 | | |
| | 0722 | 0.2 | 6 | | 0453 | 0.2 | 6 | | | 2033 | 0.5 | 15 | | | 0857 | 0.4 | 12 | | | 1224 | 0.3 | 9 | | | 1356 | 0.3 | 9 | | |
| 13 W | 1344 | 0.4 | 12 | | 1052 | 0.4 | 12 | | 13 F | 1440 | 0.3 | 9 | | 13 Sa | 1433 | 0.3 | 9 | | 13 Su | 1434 | 0.2 | 6 | | 13 Th | 1550 | 0.2 | 6 | | |
| | 1900 | 0.3 | 9 | | 1543 | 0.3 | 9 | | | 1440 | 0.3 | 9 | | | 2126 | 0.5 | 15 | | | 2135 | 0.7 | 21 | | | 1644 | 0.5 | 15 | | |
| | 2345 | 0.4 | 12 | | 2158 | 0.5 | 15 | | | 2131 | 0.6 | 18 | | | 2126 | 0.5 | 15 | | | 2135 | 0.7 | 21 | | | 1644 | 0.5 | 15 | | |
| 14 Th | 0556 | 0.2 | 6 | | 2143 | 0.4 | 12 | | 14 Su | 0357 | 0.3 | 9 | | 14 M | 0403 | 0.2 | 6 | | 14 Th | 0405 | 0.3 | 9 | | 14 F | 0457 | 0.2 | 6 | | |
| | 1201 | 0.4 | 12 | | 0453 | 0.2 | 6 | | | 0925 | 0.4 | 12 | | | 0947 | 0.5 | 15 | | | 0938 | 0.5 | 15 | | | 0548 | 0.3 | 9 | | |
| | 1636 | 0.3 | 9 | | 1052 | 0.4 | 12 | | | 1440 | 0.3 | 9 | | | 1536 | 0.2 | 6 | | | 1548 | 0.1 | 3 | | | 0606 | 0.0 | 0 | | |
| 15 F | 2228 | 0.5 | 15 | | 1605 | 0.2 | 6 | | 15 W | 2131 | 0.6 | 18 | | 15 Th | 2206 | 0.6 | 18 | | 15 F | 2226 | 0.7 | 21 | | 15 Sa | 2302 | 0.6 | 18 | | |
| | 0459 | 0.2 | 6 | | 2221 | 0.6 | 18 | | | 0410 | 0.2 | 6 | | | 0430 | 0.2 | 6 | | | 0405 | 0.3 | 9 | | | 0606 | 0.0 | 0 | | |
| | 1054 | 0.5 | 15 | | 0443 | 0.1 | 3 | | | 0950 | 0.5 | 15 | | | 1019 | 0.5 | 15 | | | 0938 | 0.5 | 15 | | | 0606 | 0.0 | 0 | | |
| 16 Sa | 1614 | 0.2 | 6 | | 1039 | 0.6 | 18 | | 16 Th | 1534 | 0.2 | 6 | | 16 F | 1614 | 0.1 | 3 | | 16 Sa | 1640 | 0.0 | 0 | | 16 Su | 1640 | 0.0 | 0 | | |
| | 2229 | 0.7 | 21 | | 1628 | 0.1 | 3 | | | 2208 | 0.8 | 24 | | | 2237 | 0.7 | 21 | | | 2307 | 0.7 | 21 | | | 1640 | 0.0 | 0 | | |
| | 0455 | 0.1 | 3 | | 2244 | 0.7 | 21 | | | 0432 | 0.1 | 3 | | | 0455 | 0.1 | 3 | | | 0442 | 0.2 | 6 | | | 1640 | 0.0 | 0 | | |
| 17 Su | 1047 | 0.6 | 18 | | 0500 | 0.0 | 0 | | 17 M | 1017 | 0.6 | 18 | | 17 Th | 1047 | 0.6 | 18 | | 17 F | 1027 | 0.6 | 18 | | 17 Sa | 1027 | 0.6 | 18 | | |
| | 1628 | 0.1 | 3 | | 1056 | 0.6 | 18 | | | 1613 | 0.1 | 3 | | | 1646 | 0.1 | 3 | | | 1640 | 0.0 | 0 | | | 1027 | 0.6 | 18 | | |
| | 2246 | 0.8 | 24 | | 1651 | 0.0 | 0 | | | 2241 | 0.8 | 24 | | | 2305 | 0.7 | 21 | | | 2307 | 0.7 | 21 | | | 1027 | 0.6 | 18 | | |
| 18 M | 0506 | 0.0 | 0 | | 2305 | 0.8 | 24 | | 18 W | 0457 | 0.1 | 3 | | 18 Th | 0520 | 0.1 | 3 | | 18 F | 0518 | 0.0 | 0 | | 18 Sa | 0518 | 0.0 | 0 | | |
| | 1058 | 0.7 | 21 | | 0518 | 0.0 | 0 | | | 0457 | 0.1 | 3 | | | 0520 | 0. | | | | | | | | | | | | | |

Papeete Harbor, Tahiti Island, 2011

Times and Heights of High and Low Waters

| July | | | | August | | | | September | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|--------|------|----|--------|-----------------|------|------|-----------|--------|-----------------|------|------|--------|----|-----------------|------|------|----|----|-----------------|------|------|------|----|-----------------|------|------|------|----|--|
| Time | Height | | | Time | Height | | | Time | Height | | | Time | Height | | | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | | |
| 1 F | 0048 | 0.7 | 21 | | 16 Sa | 0112 | 0.7 | 21 | | 1 M | 0119 | 0.8 | 24 | | 16 Tu | 0127 | 0.8 | 24 | | 1 Th | 0135 | 0.9 | 27 | | 16 F | 0123 | 0.7 | 21 | | |
| | 0650 | -0.1 | -3 | | | 0712 | -0.1 | -3 | | | 0722 | -0.2 | -6 | | | 0732 | -0.1 | -3 | | | | 0748 | -0.1 | -3 | | | 0732 | -0.1 | -3 | |
| | 1302 | 0.8 | 24 | | | 1326 | 0.8 | 24 | | | 1341 | 0.9 | 27 | | | 1346 | 0.9 | 27 | | | | 1405 | 0.9 | 27 | | | 1342 | 0.7 | 21 | |
| | 1912 | -0.1 | -3 | | | 1937 | -0.1 | -3 | | | 1949 | 0.0 | 0 | | | 1948 | 0.0 | 0 | | | | 2002 | 0.0 | 0 | | | 1939 | 0.0 | 0 | |
| 2 Sa | 0113 | 0.7 | 21 | | 17 Su | 0134 | 0.7 | 21 | | 2 Tu | 0141 | 0.8 | 24 | | 17 W | 0142 | 0.8 | 24 | | 2 F | 0156 | 0.8 | 24 | | 17 Sa | 0134 | 0.7 | 21 | | |
| | 0714 | -0.1 | -3 | | | 0736 | -0.1 | -3 | | | 0747 | -0.1 | -3 | | | 0750 | -0.1 | -3 | | | | 0813 | -0.1 | -3 | | | 0744 | 0.0 | 0 | |
| | 1330 | 0.8 | 24 | | | 1353 | 0.8 | 24 | | | 1408 | 0.9 | 27 | | | 1404 | 0.8 | 24 | | | | 1428 | 0.7 | 21 | | | 1351 | 0.6 | 18 | |
| | 1941 | -0.1 | -3 | | | 2001 | 0.0 | 0 | | | 2013 | 0.0 | 0 | | | 2003 | 0.0 | 0 | | | | 2019 | 0.1 | 3 | | | 1945 | 0.1 | 3 | |
| 3 Su | 0138 | 0.7 | 21 | | 18 M | 0155 | 0.7 | 21 | | 3 W | 0204 | 0.8 | 24 | | 18 Th | 0156 | 0.7 | 21 | | 3 Sa | 0214 | 0.7 | 21 | | 18 Su | 0140 | 0.6 | 18 | | |
| | 0739 | -0.1 | -3 | | | 0800 | -0.1 | -3 | | | 0814 | -0.1 | -3 | | | 0806 | 0.0 | 0 | | | | 0837 | 0.1 | 3 | | | 0750 | 0.1 | 3 | |
| | 1400 | 0.8 | 24 | | | 1418 | 0.8 | 24 | | | 1437 | 0.9 | 27 | | | 1419 | 0.7 | 21 | | | | 1446 | 0.6 | 18 | | | 1350 | 0.5 | 15 | |
| | 2010 | 0.0 | 0 | | | 2022 | 0.0 | 0 | | | 2037 | 0.1 | 3 | | | 2015 | 0.1 | 3 | | | | 2025 | 0.2 | 6 | | | 1937 | 0.1 | 3 | |
| 4 M | 0203 | 0.7 | 21 | | 19 Tu | 0215 | 0.7 | 21 | | 4 Th | 0226 | 0.8 | 24 | | 19 F | 0207 | 0.7 | 21 | | 4 Su | 0222 | 0.6 | 18 | | 19 M | 0135 | 0.5 | 15 | | |
| | 0806 | -0.1 | -3 | | | 0823 | 0.0 | 0 | | | 0842 | 0.0 | 0 | | | 0819 | 0.0 | 0 | | | | 0852 | 0.2 | 6 | | | 0739 | 0.2 | 6 | |
| | 1431 | 0.8 | 24 | | | 1442 | 0.7 | 21 | | | 1506 | 0.8 | 24 | | | 1431 | 0.6 | 18 | | | | 1436 | 0.4 | 12 | | | 1320 | 0.4 | 12 | |
| | 2040 | 0.1 | 3 | | | 2042 | 0.1 | 3 | | | 2100 | 0.2 | 6 | | | 2022 | 0.2 | 6 | | ☉ | | 1935 | 0.3 | 9 | | | 1859 | 0.2 | 6 | |
| 5 Tu | 0228 | 0.7 | 21 | | 20 W | 0233 | 0.7 | 21 | | 5 F | 0247 | 0.7 | 21 | | 20 Sa | 0211 | 0.6 | 18 | | 5 M | 0135 | 0.5 | 15 | | 20 Tu | 0058 | 0.4 | 12 | | |
| | 0836 | 0.0 | 0 | | | 0844 | 0.0 | 0 | | | 0911 | 0.1 | 3 | | | 0826 | 0.1 | 3 | | | | 0734 | 0.2 | 6 | | | 0639 | 0.2 | 6 | |
| | 1505 | 0.8 | 24 | | | 1504 | 0.7 | 21 | | | 1537 | 0.6 | 18 | | | 1434 | 0.5 | 15 | | | | 1123 | 0.3 | 9 | | | 1157 | 0.4 | 12 | |
| | 2112 | 0.2 | 6 | | | 2101 | 0.2 | 6 | | | 2119 | 0.3 | 9 | | | 2014 | 0.2 | 6 | | | | 1708 | 0.2 | 6 | | ☉ | 1748 | 0.2 | 6 | |
| 6 W | 0255 | 0.6 | 18 | | 21 Th | 0247 | 0.6 | 18 | | 6 Sa | 0301 | 0.6 | 18 | | 21 Su | 0159 | 0.5 | 15 | | 6 Tu | 0503 | 0.3 | 9 | | 21 W | 0515 | 0.2 | 6 | | |
| | 0909 | 0.0 | 0 | | | 0903 | 0.1 | 3 | | | 0942 | 0.2 | 6 | | | 0814 | 0.2 | 6 | | | | 1036 | 0.5 | 15 | | | 1057 | 0.5 | 15 | |
| | 1545 | 0.7 | 21 | | | 1526 | 0.6 | 18 | | ☉ | 1615 | 0.5 | 15 | | ☉ | 1406 | 0.4 | 12 | | | | 1656 | 0.1 | 3 | | | 1710 | 0.1 | 3 | |
| | 2147 | 0.3 | 9 | | | 2115 | 0.2 | 6 | | | 2107 | 0.4 | 12 | | | 1924 | 0.2 | 6 | | | | 2309 | 0.5 | 15 | | | 2311 | 0.5 | 15 | |
| 7 Th | 0324 | 0.6 | 18 | | 22 F | 0255 | 0.5 | 15 | | 7 Su | 0230 | 0.5 | 15 | | 22 M | 0107 | 0.4 | 12 | | 7 W | 0454 | 0.1 | 3 | | 22 Th | 0446 | 0.2 | 6 | | |
| | 0948 | 0.1 | 3 | | | 0918 | 0.2 | 6 | | | 1542 | 0.3 | 9 | | | 0709 | 0.2 | 6 | | | | 1052 | 0.6 | 18 | | | 1048 | 0.6 | 18 | |
| | 1637 | 0.6 | 18 | | ☉ | 1545 | 0.5 | 15 | | | 2313 | 0.5 | 15 | | | 1229 | 0.4 | 12 | | | | 1710 | 0.0 | 0 | | | 1706 | 0.0 | 0 | |
| | 2235 | 0.3 | 9 | | | 2116 | 0.3 | 9 | | | | | | | 1756 | 0.2 | 6 | | | | | 2318 | 0.6 | 18 | | | 2305 | 0.6 | 18 | |
| 8 F | 0357 | 0.5 | 15 | | 23 Sa | 0237 | 0.4 | 12 | | 8 M | 0515 | 0.3 | 9 | | 23 Tu | 0547 | 0.2 | 6 | | 8 Th | 0508 | 0.0 | 0 | | 23 F | 0448 | 0.1 | 3 | | |
| | 1047 | 0.2 | 6 | | | 0914 | 0.2 | 6 | | | 1026 | 0.4 | 12 | | | 1125 | 0.4 | 12 | | | | 1114 | 0.7 | 21 | | | 1058 | 0.8 | 24 | |
| | 1823 | 0.5 | 15 | | | 1545 | 0.4 | 12 | | | 1645 | 0.1 | 3 | | | 1725 | 0.1 | 3 | | | | 1730 | -0.1 | -3 | | | 1715 | 0.0 | 0 | |
| | | | | | | 1919 | 0.3 | 9 | | | 2313 | 0.5 | 15 | | | 2330 | 0.5 | 15 | | | | 2333 | 0.7 | 21 | | | 2312 | 0.7 | 21 | |
| 9 Sa | 0101 | 0.3 | 9 | | 24 Su | 0025 | 0.4 | 12 | | 9 Tu | 0509 | 0.2 | 6 | | 24 W | 0521 | 0.1 | 3 | | 9 F | 0527 | -0.1 | -3 | | 24 Sa | 0501 | 0.0 | 0 | | |
| | 0519 | 0.4 | 12 | | | 0706 | 0.2 | 6 | | | 1058 | 0.6 | 18 | | | 1117 | 0.6 | 18 | | | | 1136 | 0.8 | 24 | | | 1116 | 0.9 | 27 | |
| | 1337 | 0.3 | 9 | | | 1154 | 0.3 | 9 | | | 1716 | 0.0 | 0 | | | 1727 | 0.0 | 0 | | | | 1749 | -0.1 | -3 | | | 1730 | -0.1 | -3 | |
| | 2139 | 0.5 | 15 | | | 1654 | 0.2 | 6 | | | 2331 | 0.6 | 18 | | | 2331 | 0.6 | 18 | | | | 2350 | 0.8 | 24 | | | 2325 | 0.8 | 24 | |
| 10 Su | 0417 | 0.3 | 9 | | 25 M | 0538 | 0.2 | 6 | | 10 W | 0526 | 0.1 | 3 | | 25 Th | 0522 | 0.0 | 0 | | 10 Sa | 0547 | -0.1 | -3 | | 25 Su | 0520 | -0.1 | -3 | | |
| | 0932 | 0.5 | 15 | | | 1115 | 0.4 | 12 | | | 1127 | 0.7 | 21 | | | 1127 | 0.7 | 21 | | | | 1158 | 0.9 | 27 | | | 1136 | 1.0 | 30 | |
| | 1558 | 0.2 | 6 | | | 1708 | 0.2 | 6 | | | 1743 | -0.1 | -3 | | | 1740 | 0.0 | 0 | | | | 1808 | -0.2 | -6 | | | 1748 | -0.1 | -3 | |
| | 2243 | 0.6 | 18 | | | 2324 | 0.5 | 15 | | | 2351 | 0.7 | 21 | | | 2341 | 0.7 | 21 | | | | | | | | 2343 | 0.9 | 27 | | |
| 11 M | 0454 | 0.2 | 6 | | 26 Tu | 0532 | 0.1 | 3 | | 11 Th | 0547 | 0.0 | 0 | | 26 F | 0534 | 0.0 | 0 | | 11 Su | 0007 | 0.8 | 24 | | 26 M | 0542 | -0.2 | -6 | | |
| | 1038 | 0.6 | 18 | | | 1125 | 0.5 | 15 | | | 1153 | 0.8 | 24 | | | 1144 | 0.8 | 24 | | | | 0607 | -0.2 | -6 | | | 1200 | 1.0 | 30 | |
| | 1657 | 0.1 | 3 | | | 1729 | 0.1 | 3 | | | 1808 | -0.1 | -3 | | | 1757 | -0.1 | -3 | | | | 1218 | 0.9 | 27 | | | 1809 | -0.1 | -3 | |
| | 2321 | 0.6 | 18 | | | 2339 | 0.6 | 18 | | | | | | | 2355 | 0.7 | 21 | | ☉ | | 1826 | -0.1 | -3 | | | | | | | |
| 12 Tu | 0525 | 0.1 | 3 | | 27 W | 0542 | 0.0 | 0 | | 12 F | 0012 | 0.7 | 21 | | 27 Sa | 0550 | -0.1 | -3 | | 12 M | 0024 | 0.9 | 27 | | 27 Tu | 0003 | 0.9 | 27 | | |
| | 1120 | 0.6 | 18 | | | 1143 | 0.6 | 18 | | | 0609 | -0.1 | -3 | | | 1204 | 0.9 | 27 | | | | 0626 | -0.2 | -6 | | | 0607 | -0.2 | -6 | |
| | 1738 | 0.0 | 0 | | | 1751 | 0.0 | 0 | | | 1219 | 0.8 | 24 | | | 1816 | -0.1 | -3 | | | | 1238 | 0.9 | 27 | | | 1224 | 1.0 | 30 | |
| | 2353 | 0.7 | 21 | | | 2357 | 0.6 | 18 | | | 1831 | -0.2 | -6 | | | | | | | | | 1843 | -0.1 | -3 | | ☉ | 1830 | -0.1 | -3 | |
| 13 W | 0553 | 0.0 | 0 | | 28 Th | 0557 | 0.0 | 0 | | 13 Sa | 0032 | 0.8 | 24 | | 28 Su | 0013 | 0.8 | 24 | | 13 Tu | 0040 | 0.9 | | | | | | | | |

Papeete Harbor, Tahiti Island, 2011

Times and Heights of High and Low Waters

| October | | | | November | | | | December | | | | | | | | | | | | | | | | | | | | | |
|-----------------|--------|------|----|----------|-----------------|------|------|----------|--------|-----------------|------|------|--------|----|-----------------|------|------|----|----|-----------------|------|------|----|--|-----------------|------|------|----|--|
| Time | Height | | | Time | Height | | | Time | Height | | | Time | Height | | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | |
| 1 Sa | 0135 | 0.8 | 24 | | 16 Su | 0118 | 0.6 | 18 | | 1 Tu | 0232 | 0.5 | 15 | | 16 W | 0226 | 0.5 | 15 | | 1 Th | 0357 | 0.5 | 15 | | 16 F | 0330 | 0.6 | 18 | |
| | 0752 | 0.0 | 0 | | | 0726 | 0.0 | 0 | | | 0855 | 0.2 | 6 | | | 0833 | 0.2 | 6 | | | 1023 | 0.3 | 9 | | | 0938 | 0.3 | 9 | |
| | 1359 | 0.7 | 21 | | | 1329 | 0.6 | 18 | | | 1404 | 0.4 | 12 | | | 1359 | 0.4 | 12 | | | 1522 | 0.4 | 12 | | | 1500 | 0.5 | 15 | |
| | 1951 | 0.1 | 3 | | | 1927 | 0.1 | 3 | | | 1952 | 0.2 | 6 | | | 2009 | 0.2 | 6 | | | 2159 | 0.3 | 9 | | | 2124 | 0.2 | 6 | |
| 2 Su | 0155 | 0.7 | 21 | | 17 M | 0132 | 0.6 | 18 | | 2 W | 0339 | 0.4 | 12 | | 17 Th | 0321 | 0.5 | 15 | | 2 F | 0657 | 0.5 | 15 | | 17 Sa | 0437 | 0.6 | 18 | |
| | 0816 | 0.1 | 3 | | | 0739 | 0.1 | 3 | | | 1628 | 0.2 | 6 | | | 0945 | 0.3 | 9 | | | 1523 | 0.3 | 9 | | | 1055 | 0.3 | 9 | |
| | 1411 | 0.5 | 15 | | | 1331 | 0.5 | 15 | | | 2223 | 0.4 | 12 | | | 1303 | 0.4 | 12 | | | 2021 | 0.4 | 12 | | | 1530 | 0.4 | 12 | |
| | 1955 | 0.2 | 6 | | | 1927 | 0.1 | 3 | | | 2201 | 0.5 | 15 | | | 2010 | 0.3 | 9 | | | | | | | | 2236 | 0.3 | 9 | |
| 3 M | 0207 | 0.5 | 15 | | 18 Tu | 0140 | 0.5 | 15 | | 3 Th | 0258 | 0.3 | 9 | | 18 F | 0812 | 0.5 | 15 | | 3 Sa | 0203 | 0.3 | 9 | | 18 Su | 0722 | 0.5 | 15 | |
| | 0828 | 0.2 | 6 | | | 0739 | 0.2 | 6 | | | 0926 | 0.5 | 15 | | | 1611 | 0.3 | 9 | | | 0916 | 0.5 | 15 | | | 1529 | 0.3 | 9 | |
| | 1341 | 0.4 | 12 | | | 1307 | 0.4 | 12 | | | 1606 | 0.2 | 6 | | | 2121 | 0.4 | 12 | | | 1558 | 0.3 | 9 | | | 1917 | 0.4 | 12 | |
| | 1900 | 0.2 | 6 | | | 1901 | 0.2 | 6 | | | 2201 | 0.5 | 15 | | | 2136 | 0.4 | 12 | | | 2136 | 0.4 | 12 | | | | | | |
| 4 Tu | 0119 | 0.4 | 12 | | 19 W | 0126 | 0.4 | 12 | | 4 F | 0336 | 0.2 | 6 | | 19 Sa | 0211 | 0.3 | 9 | | 4 Su | 0326 | 0.2 | 6 | | 19 M | 0155 | 0.3 | 9 | |
| | 0619 | 0.3 | 9 | | | 0634 | 0.3 | 9 | | | 0956 | 0.6 | 18 | | | 0916 | 0.6 | 18 | | | 1000 | 0.6 | 18 | | | 0928 | 0.6 | 18 | |
| | 1028 | 0.4 | 12 | | | 1121 | 0.4 | 12 | | | 1620 | 0.1 | 3 | | | 1601 | 0.2 | 6 | | | 1624 | 0.2 | 6 | | | 1609 | 0.3 | 9 | |
| | 1651 | 0.2 | 6 | | | 1738 | 0.2 | 6 | | | 2215 | 0.6 | 18 | | | 2135 | 0.5 | 15 | | | 2210 | 0.5 | 15 | | | 2129 | 0.5 | 15 | |
| | 2302 | 0.4 | 12 | | | 2343 | 0.4 | 12 | | | | | | | | | | | | | | | | | | | | | |
| 5 W | 0418 | 0.2 | 6 | | 20 Th | 0413 | 0.3 | 9 | | 5 Sa | 0405 | 0.1 | 3 | | 20 Su | 0313 | 0.2 | 6 | | 5 M | 0408 | 0.1 | 3 | | 20 Tu | 0335 | 0.2 | 6 | |
| | 1010 | 0.5 | 15 | | | 1008 | 0.5 | 15 | | | 1022 | 0.7 | 21 | | | 0951 | 0.7 | 21 | | | 1031 | 0.7 | 21 | | | 1019 | 0.7 | 21 | |
| | 1636 | 0.1 | 3 | | | 1642 | 0.2 | 6 | | | 1639 | 0.1 | 3 | | | 1618 | 0.2 | 6 | | | 1648 | 0.1 | 3 | | | 1639 | 0.2 | 6 | |
| | 2241 | 0.5 | 15 | | | 2235 | 0.4 | 12 | | | 2234 | 0.6 | 18 | | | 2159 | 0.6 | 18 | | | 2239 | 0.6 | 18 | | | 2219 | 0.6 | 18 | |
| 6 Th | 0422 | 0.1 | 3 | | 21 F | 0352 | 0.2 | 6 | | 6 Su | 0430 | 0.0 | 0 | | 21 M | 0353 | 0.1 | 3 | | 6 Tu | 0440 | 0.1 | 3 | | 21 W | 0429 | 0.1 | 3 | |
| | 1028 | 0.7 | 21 | | | 1008 | 0.6 | 18 | | | 1046 | 0.8 | 24 | | | 1023 | 0.8 | 24 | | | 1058 | 0.7 | 21 | | | 1058 | 0.7 | 21 | |
| | 1648 | 0.0 | 0 | | | 1635 | 0.1 | 3 | | | 1659 | 0.0 | 0 | | | 1641 | 0.1 | 3 | | | 1712 | 0.1 | 3 | | | 1707 | 0.1 | 3 | |
| | 2250 | 0.6 | 18 | | | 2227 | 0.5 | 15 | | | 2255 | 0.7 | 21 | | | 2226 | 0.7 | 21 | | | 2306 | 0.6 | 18 | | | 2258 | 0.7 | 21 | |
| 7 F | 0439 | 0.0 | 0 | | 22 Sa | 0405 | 0.1 | 3 | | 7 M | 0454 | 0.0 | 0 | | 22 Tu | 0429 | 0.0 | 0 | | 7 W | 0509 | 0.0 | 0 | | 22 Th | 0511 | 0.0 | 0 | |
| | 1050 | 0.8 | 24 | | | 1024 | 0.8 | 24 | | | 1109 | 0.8 | 24 | | | 1054 | 0.9 | 27 | | | 1124 | 0.7 | 21 | | | 1131 | 0.8 | 24 | |
| | 1705 | -0.1 | -3 | | | 1645 | 0.1 | 3 | | | 1719 | 0.0 | 0 | | | 1706 | 0.0 | 0 | | | 1735 | 0.0 | 0 | | | 1736 | 0.0 | 0 | |
| | 2305 | 0.7 | 21 | | | 2236 | 0.7 | 21 | | | 2315 | 0.7 | 21 | | | 2256 | 0.8 | 24 | | | 2332 | 0.7 | 21 | | | 2334 | 0.7 | 21 | |
| 8 Sa | 0459 | -0.1 | -3 | | 23 Su | 0426 | 0.0 | 0 | | 8 Tu | 0517 | -0.1 | -3 | | 23 W | 0504 | -0.1 | -3 | | 8 Th | 0536 | 0.0 | 0 | | 23 F | 0549 | -0.1 | -3 | |
| | 1111 | 0.8 | 24 | | | 1046 | 0.9 | 27 | | | 1131 | 0.8 | 24 | | | 1125 | 0.9 | 27 | | | 1148 | 0.7 | 21 | | | 1203 | 0.8 | 24 | |
| | 1723 | -0.1 | -3 | | | 1702 | 0.0 | 0 | | | 1740 | -0.1 | -3 | | | 1732 | 0.0 | 0 | | | 1758 | 0.0 | 0 | | | 1805 | 0.0 | 0 | |
| | 2321 | 0.8 | 24 | | | 2253 | 0.8 | 24 | | | 2336 | 0.8 | 24 | | | 2327 | 0.8 | 24 | | | 2357 | 0.7 | 21 | | | | | | |
| 9 Su | 0520 | -0.1 | -3 | | 24 M | 0451 | -0.1 | -3 | | 9 W | 0540 | -0.1 | -3 | | 24 Th | 0539 | -0.1 | -3 | | 9 F | 0602 | -0.1 | -3 | | 24 Sa | 0009 | 0.8 | 24 | |
| | 1132 | 0.9 | 27 | | | 1111 | 1.0 | 30 | | | 1152 | 0.8 | 24 | | | 1155 | 0.9 | 27 | | | 1213 | 0.7 | 21 | | | 0624 | -0.2 | -6 | |
| | 1741 | -0.1 | -3 | | | 1722 | 0.0 | 0 | | | 1800 | -0.1 | -3 | | | 1759 | -0.1 | -3 | | | 1820 | -0.1 | -3 | | | 1233 | 0.8 | 24 | |
| | 2339 | 0.8 | 24 | | | 2314 | 0.8 | 24 | | | 2357 | 0.8 | 24 | | | 2359 | 0.8 | 24 | | | 2357 | 0.7 | 21 | | | 1833 | -0.1 | -3 | |
| 10 M | 0540 | -0.1 | -3 | | 25 Tu | 0518 | -0.1 | -3 | | 10 Th | 0602 | -0.1 | -3 | | 25 F | 0613 | -0.2 | -6 | | 10 Sa | 0023 | 0.7 | 21 | | 25 Su | 0042 | 0.8 | 24 | |
| | 1152 | 0.9 | 27 | | | 1137 | 1.0 | 30 | | | 1213 | 0.8 | 24 | | | 1226 | 0.8 | 24 | | | 0629 | -0.1 | -3 | | | 0658 | -0.2 | -6 | |
| | 1759 | -0.1 | -3 | | | 1745 | -0.1 | -3 | | | 1820 | -0.1 | -3 | | | 1827 | -0.1 | -3 | | | 1236 | 0.7 | 21 | | | 1302 | 0.7 | 21 | |
| | 2356 | 0.8 | 24 | | | 2338 | 0.9 | 27 | | | | | | | | | | | | | 1842 | -0.1 | -3 | | | 1902 | -0.1 | -3 | |
| 11 Tu | 0559 | -0.2 | -6 | | 26 W | 0546 | -0.2 | -6 | | 11 F | 0018 | 0.7 | 21 | | 26 Sa | 0032 | 0.8 | 24 | | 11 Su | 0048 | 0.7 | 21 | | 26 M | 0115 | 0.8 | 24 | |
| | 1211 | 0.9 | 27 | | | 1203 | 1.0 | 30 | | | 0624 | -0.1 | -3 | | | 0647 | -0.1 | -3 | | | 0656 | -0.1 | -3 | | | 0729 | -0.1 | -3 | |
| | 1817 | -0.1 | -3 | | | 1808 | -0.1 | -3 | | | 1233 | 0.8 | 24 | | | 1256 | 0.8 | 24 | | | 1300 | 0.7 | 21 | | | 1329 | 0.7 | 21 | |
| | | | | | | | | | | | 1839 | -0.1 | -3 | | | 1856 | -0.1 | -3 | | | 1904 | -0.1 | -3 | | | 1930 | -0.1 | -3 | |
| 12 W | 0014 | 0.8 | 24 | | 27 Th | 0004 | 0.9 | 27 | | 12 Sa | 0040 | 0.7 | 21 | | 27 Su | 0105 | 0.8 | 24 | | 12 M | 0114 | 0.7 | 21 | | 27 Tu | 0147 | 0.8 | 24 | |
| | 0618 | -0.2 | -6 | | | 0616 | -0.2 | -6 | | | 0646 | -0.1 | -3 | | | 0722 | -0.1 | -3 | | | 0723 | -0.1 | -3 | | | 0759 | -0.1 | -3 | |
| | 1229 | 0.9 | 27 | | | 1230 | 0.9 | 27 | | | 1254 | 0.7 | 21 | | | 1325 | 0.7 | 21 | | | 1323 | 0.7 | 21 | | | 1355 | 0.7 | 21 | |
| | 1834 | -0.1 | -3 | | | 1833 | -0.1 | -3 | | | 1858 | -0.1 | -3 | | | 1925 | -0.1 | -3 | | | 1926 | -0.1 | -3 | | | 1958 | -0.1 | -3 | |
| 13 Th | 0031 | 0.8 | 24 | | 28 F | 0032 | 0.9 | 27 | | 13 Su | 0102 | 0.7 | 21 | | 28 M | 0140 | 0.7 | 21 | | 13 Tu | 0142 | 0.7 | 21 | | 28 < | | | | |

Apia, Samoa Islands, 2011

Times and Heights of High and Low Waters

| January | | | | February | | | | March | | | | | | | | | | | | | | | | | | | | | |
|-----------------|--------|------|-----|----------|-----------------|------|------|-------|--------|-----------------|------|------|--------|----|-----------------|------|------|-----|----|-----------------|------|-----|----|--|-----------------|------|------|-----|--|
| Time | Height | | | Time | Height | | | Time | Height | | | Time | Height | | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | |
| 1 Sa | 0446 | 2.8 | 85 | | 16 Su | 0409 | 2.6 | 79 | | 1 Tu | 0005 | 0.0 | 0 | | 16 W | 0516 | 3.2 | 98 | | 1 Tu | 0458 | 2.8 | 85 | | 16 W | 0405 | 3.2 | 98 | |
| | 1058 | 0.2 | 6 | | | 1022 | 0.4 | 12 | | | 0556 | 2.8 | 85 | | | 1131 | -0.1 | -3 | | | 1109 | 0.4 | 12 | | | 1024 | 0.1 | 3 | |
| | 1703 | 3.4 | 104 | | | 1626 | 3.3 | 101 | | | 1208 | 0.3 | 9 | | | 1735 | 3.7 | 113 | | | 1707 | 3.1 | 94 | | | 1626 | 3.6 | 110 | |
| | 2341 | 0.0 | 0 | | | 2307 | 0.1 | 3 | | | 1806 | 3.3 | 101 | | | | | | | | 2338 | 0.2 | 6 | | | 2256 | -0.1 | -3 | |
| 2 Su | 0533 | 2.8 | 85 | | 17 M | 0454 | 2.8 | 85 | | 2 W | 0041 | 0.1 | 3 | | 17 Th | 0005 | -0.3 | -9 | | 2 W | 0530 | 2.9 | 88 | | 17 Th | 0452 | 3.4 | 104 | |
| | 1143 | 0.2 | 6 | | | 1105 | 0.2 | 6 | | | 0631 | 2.9 | 88 | | | 0602 | 3.4 | 104 | | | 1146 | 0.3 | 9 | | | 1112 | -0.2 | -6 | |
| | 1746 | 3.4 | 104 | | | 1711 | 3.5 | 107 | | | 1245 | 0.3 | 9 | | | 1217 | -0.2 | -6 | | | 1740 | 3.2 | 98 | | | 1714 | 3.7 | 113 | |
| | | | | | | 2348 | -0.1 | -3 | | ● | 1840 | 3.2 | 98 | | ○ | 1822 | 3.8 | 116 | | | | | | | | 2340 | -0.3 | -9 | |
| 3 M | 0025 | 0.0 | 0 | | 18 Tu | 0539 | 3.0 | 91 | | 3 Th | 0115 | 0.1 | 3 | | 18 F | 0049 | -0.3 | -9 | | 3 Th | 0011 | 0.2 | 6 | | 18 F | 0539 | 3.6 | 110 | |
| | 0615 | 2.9 | 88 | | | 1149 | 0.1 | 3 | | | 0704 | 2.9 | 88 | | | 0648 | 3.5 | 107 | | | 0601 | 3.0 | 91 | | | 1200 | -0.3 | -9 | |
| | 1226 | 0.2 | 6 | | | 1755 | 3.6 | 110 | | | 1320 | 0.3 | 9 | | | 1305 | -0.3 | -9 | | | 1220 | 0.3 | 9 | | | 1802 | 3.7 | 113 | |
| | ● | 1827 | 3.4 | 104 | | | | | | | 1914 | 3.1 | 94 | | | 1909 | 3.7 | 113 | | | 1812 | 3.1 | 94 | | | | | | |
| 4 Tu | 0106 | 0.0 | 0 | | 19 W | 0030 | -0.2 | -6 | | 4 F | 0148 | 0.2 | 6 | | 19 Sa | 0135 | -0.3 | -9 | | 4 F | 0042 | 0.2 | 6 | | 19 Sa | 0025 | -0.3 | -9 | |
| | 0656 | 2.8 | 85 | | | 0624 | 3.2 | 98 | | | 0739 | 2.9 | 88 | | | 0735 | 3.5 | 107 | | | 0632 | 3.0 | 91 | | | 0626 | 3.7 | 113 | |
| | 1307 | 0.3 | 9 | | | 1234 | 0.0 | 0 | | | 1356 | 0.4 | 12 | | | 1253 | -0.2 | -6 | | | 1253 | 0.4 | 12 | | | 1250 | -0.3 | -9 | |
| | 1906 | 3.3 | 101 | | ○ | 1841 | 3.7 | 113 | | | 1949 | 3.0 | 91 | | | 1958 | 3.6 | 110 | | ● | 1844 | 3.1 | 94 | | ○ | 1851 | 3.7 | 113 | |
| 5 W | 0145 | 0.1 | 3 | | 20 Th | 0113 | -0.3 | -9 | | 5 Sa | 0221 | 0.3 | 9 | | 20 Su | 0223 | -0.2 | -6 | | 5 Sa | 0112 | 0.3 | 9 | | 20 Su | 0112 | -0.2 | -6 | |
| | 0734 | 2.8 | 85 | | | 0709 | 3.3 | 101 | | | 0814 | 2.8 | 85 | | | 0825 | 3.5 | 107 | | | 0705 | 3.0 | 91 | | | 0714 | 3.7 | 113 | |
| | 1348 | 0.4 | 12 | | | 1321 | -0.1 | -3 | | | 1433 | 0.6 | 18 | | | 1450 | 0.0 | 0 | | | 1327 | 0.4 | 12 | | | 1341 | -0.2 | -6 | |
| | 1944 | 3.2 | 98 | | | 1928 | 3.7 | 113 | | | 2025 | 2.8 | 85 | | | 2050 | 3.3 | 101 | | | 1918 | 3.0 | 91 | | | 1941 | 3.5 | 107 | |
| 6 Th | 0224 | 0.2 | 6 | | 21 F | 0158 | -0.2 | -6 | | 6 Su | 0254 | 0.5 | 15 | | 21 M | 0315 | 0.0 | 0 | | 6 Su | 0142 | 0.4 | 12 | | 21 M | 0201 | -0.1 | -3 | |
| | 0813 | 2.8 | 85 | | | 0757 | 3.3 | 101 | | | 0852 | 2.7 | 82 | | | 0919 | 3.3 | 101 | | | 0739 | 3.0 | 91 | | | 0805 | 3.6 | 110 | |
| | 1428 | 0.5 | 15 | | | 1411 | 0.0 | 0 | | | 1512 | 0.7 | 21 | | | 1550 | 0.2 | 6 | | | 1401 | 0.5 | 15 | | | 1436 | -0.1 | -3 | |
| | 2022 | 3.0 | 91 | | | 2017 | 3.5 | 107 | | | 2103 | 2.7 | 82 | | | 2147 | 3.0 | 91 | | | 1953 | 2.8 | 85 | | | 2034 | 3.2 | 98 | |
| 7 F | 0302 | 0.3 | 9 | | 22 Sa | 0246 | -0.1 | -3 | | 7 M | 0330 | 0.6 | 18 | | 22 Tu | 0413 | 0.3 | 9 | | 7 M | 0213 | 0.5 | 15 | | 22 Tu | 0254 | 0.1 | 3 | |
| | 0853 | 2.7 | 82 | | | 0847 | 3.2 | 98 | | | 0933 | 2.6 | 79 | | | 1019 | 3.1 | 94 | | | 0815 | 2.9 | 88 | | | 0859 | 3.4 | 104 | |
| | 1510 | 0.6 | 18 | | | 1506 | 0.1 | 3 | | | 1558 | 0.8 | 24 | | | 1700 | 0.4 | 12 | | | 1439 | 0.6 | 18 | | | 1537 | 0.1 | 3 | |
| | 2102 | 2.8 | 85 | | | 2109 | 3.3 | 101 | | | 2147 | 2.5 | 76 | | | 2251 | 2.7 | 82 | | | 2031 | 2.7 | 82 | | | 2131 | 3.0 | 91 | |
| 8 Sa | 0342 | 0.5 | 15 | | 23 Su | 0338 | 0.0 | 0 | | 8 Tu | 0410 | 0.8 | 24 | | 23 W | 0520 | 0.5 | 15 | | 8 Tu | 0245 | 0.7 | 21 | | 23 W | 0353 | 0.4 | 12 | |
| | 0935 | 2.6 | 79 | | | 0941 | 3.2 | 98 | | | 1020 | 2.6 | 79 | | | 1126 | 3.0 | 91 | | | 0855 | 2.8 | 85 | | | 0958 | 3.2 | 98 | |
| | 1556 | 0.8 | 24 | | | 1606 | 0.2 | 6 | | | 1654 | 0.9 | 27 | | | 1816 | 0.5 | 15 | | | 1521 | 0.8 | 24 | | | 1644 | 0.4 | 12 | |
| | 2144 | 2.7 | 82 | | | 2205 | 3.1 | 94 | | | 2237 | 2.3 | 70 | | | | | | | | 2114 | 2.5 | 76 | | | 2236 | 2.7 | 82 | |
| 9 Su | 0424 | 0.6 | 18 | | 24 M | 0436 | 0.2 | 6 | | 9 W | 0501 | 0.9 | 27 | | 24 Th | 0006 | 2.5 | 76 | | 9 W | 0323 | 0.8 | 24 | | 24 Th | 0501 | 0.6 | 18 | |
| | 1021 | 2.5 | 76 | | | 1041 | 3.0 | 91 | | | 1114 | 2.5 | 76 | | | 0634 | 0.6 | 18 | | | 0940 | 2.7 | 82 | | | 1104 | 3.0 | 91 | |
| | 1649 | 0.9 | 27 | | | 1715 | 0.4 | 12 | | | 1804 | 1.0 | 30 | | | 1241 | 2.9 | 88 | | | 1614 | 0.9 | 27 | | | 1757 | 0.5 | 15 | |
| | 2231 | 2.5 | 76 | | | 2309 | 2.8 | 85 | | | 2338 | 2.2 | 67 | | ● | 1933 | 0.5 | 15 | | | 2204 | 2.4 | 73 | | | 2349 | 2.5 | 76 | |
| 10 M | 0512 | 0.8 | 24 | | 25 Tu | 0542 | 0.4 | 12 | | 10 Th | 0605 | 1.0 | 30 | | 25 F | 0126 | 2.5 | 76 | | 10 Th | 0412 | 0.9 | 27 | | 25 F | 0614 | 0.7 | 21 | |
| | 1111 | 2.5 | 76 | | | 1147 | 3.0 | 91 | | | 1216 | 2.5 | 76 | | | 0747 | 0.6 | 18 | | | 1033 | 2.7 | 82 | | | 1217 | 2.9 | 88 | |
| | 1750 | 1.0 | 30 | | | 1832 | 0.4 | 12 | | | 1916 | 0.9 | 27 | | | 1354 | 2.9 | 88 | | | 1720 | 0.9 | 27 | | | 1910 | 0.5 | 15 | |
| | 2324 | 2.3 | 70 | | | | | | | ○ | | | | | 2040 | 0.4 | 12 | | | 2304 | 2.3 | 70 | | | | | | | |
| 11 Tu | 0605 | 0.8 | 24 | | 26 W | 0020 | 2.6 | 79 | | 11 F | 0047 | 2.2 | 67 | | 26 Sa | 0239 | 2.5 | 76 | | 11 F | 0517 | 1.0 | 30 | | 26 Sa | 0107 | 2.5 | 76 | |
| | 1206 | 2.5 | 76 | | | 0652 | 0.5 | 15 | | | 0714 | 0.9 | 27 | | | 0850 | 0.6 | 18 | | | 1135 | 2.7 | 82 | | | 0725 | 0.7 | 21 | |
| | 1856 | 1.0 | 30 | | | 1259 | 2.9 | 88 | | | 1319 | 2.7 | 82 | | | 1458 | 3.0 | 91 | | | 1834 | 0.9 | 27 | | | 1329 | 2.9 | 88 | |
| | | | | | ● | 1947 | 0.4 | 12 | | | 2019 | 0.8 | 24 | | | 2136 | 0.3 | 9 | | | | | | | ● | 2014 | 0.5 | 15 | |
| 12 W | 0024 | 2.2 | 67 | | 27 Th | 0137 | 2.5 | 76 | | 12 Sa | 0153 | 2.3 | 70 | | 27 Su | 0336 | 2.6 | 79 | | 12 Sa | 0013 | 2.3 | 70 | | 27 Su | 0216 | 2.5 | 76 | |
| | 0703 | 0.9 | 27 | | | 0802 | 0.5 | 15 | | | 0816 | 0.8 | 24 | | | 0944 | 0.5 | 15 | | | 0634 | 1.0 | 30 | | | 0828 | 0.7 | 21 | |
| | 1305 | 2.5 | 76 | | | 1410 | 3.0 | 91 | | | 1419 | 2.8 | 85 | | | 1549 | 3.1 | 94 | | | 1242 | 2.7 | 82 | | | 1431 | 2.9 | 88 | |
| | ● | 2000 | 0.9 | 27 | | 2056 | 0.3 | 9 | | | 2112 | 0.6 | 18 | | | 2223 | 0.3 | 9 | | ○ | 1940 | 0.8 | 24 | | | 2108 | 0.4 | 12 | |
| 13 Th | 0127 | 2.2 | 67 | | 28 F | 0249 | 2.5 | 76 | | 13 Su | 0252 | 2.5 | 76 | | 28 M | 0421 | 2.7 | 82 | | 13 Su | 0121 | 2.4 | 73 | | 28 M | 0310 | 2.6 | 79 | |
| | 0759 | 0.8 | 24 | | </ | | | | | | | | | | | | | | | | | | | | | | | | |

Apia, Samoa Islands, 2011

Times and Heights of High and Low Waters

| April | | | | May | | | | June | | | | | | | | | | | | | | | | | | | | | |
|-----------------|--------|------|-----|------|-----------------|------|------|------|--------|-----------------|------|------|--------|----|-----------------|------|------|-----|----|-----------------|------|------|-----|--|-----------------|------|------|-----|--|
| Time | Height | | | Time | Height | | | Time | Height | | | Time | Height | | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | |
| 1 F | 0529 | 3.0 | 91 | | 16 Sa | 0518 | 3.7 | 113 | | 1 Su | 0530 | 3.0 | 91 | | 16 M | 0550 | 3.6 | 110 | | 1 W | 0014 | 0.3 | 9 | | 16 Th | 0109 | 0.0 | 0 | |
| | 1154 | 0.4 | 12 | | | 1145 | -0.3 | -9 | | | 1204 | 0.4 | 12 | | | 1226 | -0.3 | -9 | | | 0619 | 3.1 | 94 | | | 0712 | 3.3 | 101 | |
| | 1742 | 3.0 | 91 | | | 1744 | 3.5 | 107 | | | 1749 | 2.7 | 82 | | | 1820 | 3.1 | 94 | | | 1259 | 0.1 | 3 | | | 1353 | -0.3 | -9 | |
| 2 Sa | 0007 | 0.4 | 12 | | 17 Su | 0003 | -0.2 | -6 | | 2 M | 0006 | 0.4 | 12 | | 17 Tu | 0035 | -0.1 | -3 | | 2 Th | 0053 | 0.3 | 9 | | 17 F | 0157 | 0.1 | 3 | |
| | 0600 | 3.1 | 94 | | | 0606 | 3.8 | 116 | | | 0605 | 3.1 | 94 | | | 0640 | 3.6 | 110 | | | 0700 | 3.1 | 94 | | | 0758 | 3.1 | 94 | |
| | 1228 | 0.4 | 12 | | | 1236 | -0.3 | -9 | | | 1240 | 0.3 | 9 | | | 1318 | -0.3 | -9 | | | 1339 | 0.1 | 3 | | | 1440 | -0.1 | -3 | |
| 3 Su | 0037 | 0.4 | 12 | | 18 M | 0052 | -0.1 | -3 | | 3 Tu | 0038 | 0.5 | 15 | | 18 W | 0126 | 0.0 | 0 | | 3 F | 0134 | 0.3 | 9 | | 18 Sa | 0246 | 0.2 | 6 | |
| | 0633 | 3.1 | 94 | | | 0656 | 3.7 | 113 | | | 0641 | 3.1 | 94 | | | 0730 | 3.5 | 107 | | | 0743 | 3.1 | 94 | | | 0844 | 3.0 | 91 | |
| | 1302 | 0.4 | 12 | | | 1329 | -0.2 | -6 | | | 1318 | 0.3 | 9 | | | 1410 | -0.2 | -6 | | | 1422 | 0.1 | 3 | | | 1527 | 0.0 | 0 | |
| 4 M | 0107 | 0.5 | 15 | | 19 Tu | 0142 | 0.0 | 0 | | 4 W | 0113 | 0.5 | 15 | | 19 Th | 0218 | 0.2 | 6 | | 4 Sa | 0220 | 0.3 | 9 | | 19 Su | 0336 | 0.4 | 12 | |
| | 0708 | 3.1 | 94 | | | 0747 | 3.6 | 110 | | | 0720 | 3.1 | 94 | | | 0821 | 3.3 | 101 | | | 0830 | 3.1 | 94 | | | 0930 | 2.7 | 82 | |
| | 1337 | 0.5 | 15 | | | 1424 | -0.1 | -3 | | | 1357 | 0.4 | 12 | | | 1504 | 0.0 | 0 | | | 1508 | 0.1 | 3 | | | 1615 | 0.2 | 6 | |
| 5 Tu | 0139 | 0.6 | 18 | | 20 W | 0236 | 0.2 | 6 | | 5 Th | 0151 | 0.6 | 18 | | 20 F | 0312 | 0.3 | 9 | | 5 Su | 0311 | 0.4 | 12 | | 20 M | 0430 | 0.5 | 15 | |
| | 0745 | 3.0 | 91 | | | 0840 | 3.4 | 104 | | | 0803 | 3.1 | 94 | | | 0913 | 3.1 | 94 | | | 0920 | 3.0 | 91 | | | 1017 | 2.5 | 76 | |
| | 1415 | 0.6 | 18 | | | 1522 | 0.1 | 3 | | | 1441 | 0.4 | 12 | | | 1600 | 0.1 | 3 | | | 1559 | 0.1 | 3 | | | 1704 | 0.3 | 9 | |
| 6 W | 0213 | 0.7 | 21 | | 21 Th | 0334 | 0.4 | 12 | | 6 F | 0235 | 0.6 | 18 | | 21 Sa | 0410 | 0.5 | 15 | | 6 M | 0409 | 0.4 | 12 | | 21 Tu | 0527 | 0.6 | 18 | |
| | 0825 | 3.0 | 91 | | | 0937 | 3.2 | 98 | | | 0849 | 3.0 | 91 | | | 1007 | 2.9 | 88 | | | 1015 | 2.9 | 88 | | | 1108 | 2.4 | 73 | |
| | 1458 | 0.7 | 21 | | | 1625 | 0.3 | 9 | | | 1529 | 0.5 | 15 | | | 1657 | 0.3 | 9 | | | 1654 | 0.2 | 6 | | | 1755 | 0.4 | 12 | |
| 7 Th | 0253 | 0.8 | 24 | | 22 F | 0438 | 0.6 | 18 | | 7 Sa | 0326 | 0.7 | 21 | | 22 Su | 0512 | 0.6 | 18 | | 7 Tu | 0514 | 0.4 | 12 | | 22 W | 0627 | 0.7 | 21 | |
| | 0911 | 2.9 | 88 | | | 1038 | 3.0 | 91 | | | 0941 | 2.9 | 88 | | | 1103 | 2.7 | 82 | | | 1115 | 2.8 | 85 | | | 1201 | 2.2 | 67 | |
| | 1549 | 0.7 | 21 | | | 1731 | 0.4 | 12 | | | 1624 | 0.5 | 15 | | | 1754 | 0.4 | 12 | | | 1753 | 0.2 | 6 | | | 1847 | 0.5 | 15 | |
| 8 F | 0344 | 0.9 | 27 | | 23 Sa | 0547 | 0.7 | 21 | | 8 Su | 0428 | 0.7 | 21 | | 23 M | 0614 | 0.7 | 21 | | 8 W | 0623 | 0.3 | 9 | | 23 Th | 0045 | 2.3 | 70 | |
| | 1003 | 2.8 | 85 | | | 1144 | 2.8 | 85 | | | 1038 | 2.9 | 88 | | | 1200 | 2.5 | 76 | | | 1218 | 2.8 | 85 | | | 0727 | 0.7 | 21 | |
| | 1649 | 0.8 | 24 | | | 1836 | 0.5 | 15 | | | 1724 | 0.5 | 15 | | | 1849 | 0.5 | 15 | | | 1854 | 0.2 | 6 | | | 1258 | 2.1 | 64 | |
| 9 Sa | 0448 | 0.9 | 27 | | 24 Su | 0034 | 2.5 | 76 | | 9 M | 0536 | 0.7 | 21 | | 24 Tu | 0047 | 2.4 | 73 | | 9 Th | 0058 | 2.8 | 85 | | 24 F | 0137 | 2.3 | 70 | |
| | 1104 | 2.8 | 85 | | | 0655 | 0.8 | 24 | | | 1140 | 2.9 | 88 | | | 0715 | 0.7 | 21 | | | 0731 | 0.2 | 6 | | | 0823 | 0.6 | 18 | |
| | 1756 | 0.7 | 21 | | | 1250 | 2.7 | 82 | | | 1825 | 0.4 | 12 | | | 1257 | 2.4 | 73 | | | 1323 | 2.7 | 82 | | | 1353 | 2.1 | 64 | |
| 10 Su | 0602 | 0.9 | 27 | | 25 M | 0138 | 2.5 | 76 | | 10 Tu | 0022 | 2.7 | 82 | | 25 W | 0140 | 2.4 | 73 | | 10 F | 0159 | 3.0 | 91 | | 25 Sa | 0226 | 2.4 | 73 | |
| | 1209 | 2.9 | 88 | | | 0756 | 0.7 | 21 | | | 0646 | 0.6 | 18 | | | 0811 | 0.7 | 21 | | | 0836 | 0.1 | 3 | | | 0913 | 0.5 | 15 | |
| | 1901 | 0.6 | 18 | | | 1350 | 2.7 | 82 | | | 1244 | 2.9 | 88 | | | 1351 | 2.4 | 73 | | | 1427 | 2.7 | 82 | | | 1446 | 2.1 | 64 | |
| 11 M | 0051 | 2.6 | 79 | | 26 Tu | 0230 | 2.6 | 79 | | 11 W | 0123 | 2.8 | 85 | | 26 Th | 0227 | 2.5 | 76 | | 11 Sa | 0258 | 3.1 | 94 | | 26 Su | 0311 | 2.6 | 79 | |
| | 0713 | 0.7 | 21 | | | 0849 | 0.7 | 21 | | | 0751 | 0.4 | 12 | | | 0900 | 0.6 | 18 | | | 0936 | -0.1 | -3 | | | 0959 | 0.4 | 12 | |
| | 1314 | 3.0 | 91 | | | 1441 | 2.7 | 82 | | | 1347 | 3.0 | 91 | | | 1439 | 2.4 | 73 | | | 1528 | 2.8 | 85 | | | 1534 | 2.2 | 67 | |
| 12 Tu | 0152 | 2.8 | 85 | | 27 W | 0313 | 2.7 | 82 | | 12 Th | 0221 | 3.0 | 91 | | 27 F | 0308 | 2.6 | 79 | | 12 Su | 0354 | 3.2 | 98 | | 27 M | 0354 | 2.7 | 82 | |
| | 0815 | 0.5 | 15 | | | 0935 | 0.6 | 18 | | | 0851 | 0.2 | 6 | | | 0945 | 0.5 | 15 | | | 1033 | -0.2 | -6 | | | 1040 | 0.3 | 9 | |
| | 1414 | 3.1 | 94 | | | 1524 | 2.7 | 82 | | | 1446 | 3.1 | 94 | | | 1524 | 2.4 | 73 | | | 1624 | 2.8 | 85 | | | 1619 | 2.3 | 70 | |
| 13 W | 0247 | 3.0 | 91 | | 28 Th | 0350 | 2.8 | 85 | | 13 F | 0316 | 3.3 | 101 | | 28 Sa | 0347 | 2.7 | 82 | | 13 M | 0446 | 3.3 | 101 | | 28 Tu | 0435 | 2.9 | 88 | |
| | 0911 | 0.3 | 9 | | | 1016 | 0.5 | 15 | | | 0948 | 0.0 | 0 | | | 1026 | 0.4 | 12 | | | 1125 | -0.3 | -9 | | | 1119 | 0.1 | 3 | |
| | 1510 | 3.3 | 101 | | | 1602 | 2.7 | 82 | | | 1543 | 3.1 | 94 | | | 1605 | 2.4 | 73 | | | 1718 | 2.8 | 85 | | | 1701 | 2.4 | 73 | |
| 14 Th | 0339 | 3.3 | 101 | | 29 F | 0423 | 2.9 | 88 | | 14 Sa | 0409 | 3.4 | 104 | | 29 Su | 0424 | 2.8 | 85 | | 14 Tu | 0537 | 3.4 | 104 | | 29 W | 0516 | 3.0 | 91 | |
| | 1004 | 0.0 | 0 | | | 1053 | 0.5 | 15 | | | 1041 | -0.2 | -6 | | | 1105 | 0.3 | 9 | | | 1216 | -0.3 | -9 | | | 1157 | 0.0 | 0 | |
| | 1603 | 3.4 | 104 | | | 1638 | 2.7 | 82 | | | 1636 | 3.2 | 98 | | | 1645 | 2.5 | 76 | | | 1808 | 2.8 | 85 | | | 1743 | 2.5 | 76 | |
| 15 F | 0429 | 3.5 | 107 | | 30 Sa | 0456 | 3.0 | 91 | | 15 Su | 0500 | 3.6 | 110 | | 30 M | 0502 | 2.9 | 88 | | 15 W | 0021 | -0.1 | -3 | | 30 Th | 0557 | 3.1 | 94 | |
| | 1055 | -0.2 | -6 | | | 1129 | 0.4 | 12 | | | 1134 | -0.3 | -9 | | | 1143 | 0.2 | 6 | | | 0625 | 3.4 | 104 | | | 1236 | -0.1 | -3 | |
| | 1654 | 3.5 | 107 | | | 1713 | 2.7 | 82 | | | 1729 | 3.2 | 98 | | | 1725 | 2.5 | 76 | | | 1305 | -0.3 | -9 | | | 1826 | 2.6 | 79 | |
| 16 Sa | 2316 | -0.2 | -6 | | 31 Su | 2333 | 0.4 | 12 | | 31 Tu | 2345 | -0.1 | -3 | | 31 W | 0540 | 3.0 | 91 | | 31 Th | 1857 | 2.8 | 85 | | 31 F | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Time meridian 165° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to the chart datum of soundings.

Apia, Samoa Islands, 2011

Times and Heights of High and Low Waters

| July | | | | August | | | | September | | | | | | | | | | | | | | | | | |
|-----------------|--------|------|------|-----------------|------|---------------|--------|-----------------|------|-----------------|------|-----------------|--------|----------------|------|-----------------|------|----------------|------|-----------------|------|------|------|-----|----|
| Time | Height | | Time | Height | | Time | Height | | Time | Height | | Time | Height | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | | |
| 1 F | 0033 | 0.1 | 3 | | | 1 M | 0144 | -0.2 | -6 | 16 Tu | 0222 | 0.4 | 12 | 1 Th | 0318 | 0.0 | 0 | 16 F | 0313 | 0.7 | 21 | | | | |
| | 0639 | 3.2 | 98 | 16 Sa | 0731 | | 3.0 | 91 | 0750 | | 3.3 | 101 | 0813 | | 2.7 | 82 | 0916 | | 3.0 | 91 | 0901 | 2.5 | 76 | | |
| | 1316 | -0.2 | -6 | 1408 | -0.1 | | -3 | 1418 | -0.3 | | -9 | 1442 | 0.3 | | 9 | 1540 | 0.1 | | 3 | 1540 | 0.1 | 3 | 1513 | 0.8 | 24 |
| | 1909 | 2.7 | 82 | 2000 | 2.6 | | 79 | 2018 | 3.0 | | 91 | 2039 | 2.6 | | 79 | 2146 | 3.1 | | 94 | 2146 | 3.1 | 94 | 2125 | 2.7 | 82 |
| 2 Sa | 0116 | 0.0 | 0 | 17 Su | 0216 | 0.2 | 6 | 2 Tu | 0236 | -0.1 | -3 | 17 W | 0304 | 0.5 | 15 | 2 F | 0425 | 0.2 | 6 | 17 Sa | 0406 | 0.9 | 27 | | |
| | 0724 | 3.2 | 98 | 0811 | 2.9 | 88 | 0840 | 3.2 | 98 | 0852 | 2.5 | 76 | 0852 | 2.5 | 76 | 1019 | 2.8 | 85 | 0951 | 2.3 | 70 | | | | |
| | 1359 | -0.2 | -6 | 1448 | 0.0 | 0 | 1507 | -0.2 | -6 | 1519 | 0.5 | 15 | 1519 | 0.5 | 15 | 1645 | 0.3 | 9 | 1602 | 0.9 | 27 | | | | |
| | 1954 | 2.7 | 82 | 2040 | 2.5 | 76 | 2110 | 3.0 | 91 | 2120 | 2.5 | 76 | 2120 | 2.5 | 76 | 2251 | 3.0 | 91 | 2217 | 2.6 | 79 | | | | |
| 3 Su | 0203 | 0.0 | 0 | 18 M | 0259 | 0.3 | 9 | 3 W | 0333 | 0.0 | 0 | 18 Th | 0350 | 0.7 | 21 | 3 Sa | 0539 | 0.3 | 9 | 18 Su | 0510 | 0.9 | 27 | | |
| | 0810 | 3.2 | 98 | 0851 | 2.7 | 82 | 0934 | 2.9 | 88 | 0935 | 2.3 | 70 | 0935 | 2.3 | 70 | 1130 | 2.6 | 79 | 1050 | 2.2 | 67 | | | | |
| | 1444 | -0.2 | -6 | 1529 | 0.2 | 6 | 1601 | 0.0 | 0 | 1601 | 0.6 | 18 | 1601 | 0.6 | 18 | 1758 | 0.5 | 15 | 1706 | 1.0 | 30 | | | | |
| | 2042 | 2.8 | 85 | 2122 | 2.5 | 76 | 2207 | 2.9 | 88 | 2206 | 2.4 | 73 | 2206 | 2.4 | 73 | | | | 2317 | 2.6 | 79 | | | | |
| 4 M | 0254 | 0.0 | 0 | 19 Tu | 0345 | 0.5 | 15 | 4 Th | 0438 | 0.1 | 3 | 19 F | 0446 | 0.8 | 24 | 4 Su | 0004 | 2.9 | 88 | 19 M | 0620 | 0.9 | 27 | | |
| | 0900 | 3.1 | 94 | 0933 | 2.5 | 76 | 1034 | 2.7 | 82 | 1025 | 2.2 | 67 | 1025 | 2.2 | 67 | 0656 | 0.3 | 9 | 1157 | 2.2 | 67 | | | | |
| | 1532 | -0.1 | -3 | 1611 | 0.3 | 9 | 1703 | 0.1 | 3 | 1652 | 0.8 | 24 | 1652 | 0.8 | 24 | 1249 | 2.5 | 76 | 1819 | 1.0 | 30 | | | | |
| | 2134 | 2.8 | 85 | 2207 | 2.4 | 73 | 2310 | 2.8 | 85 | 2300 | 2.4 | 73 | 2300 | 2.4 | 73 | 1912 | 0.5 | 15 | | | | | | | |
| 5 Tu | 0350 | 0.1 | 3 | 20 W | 0437 | 0.6 | 18 | 5 F | 0551 | 0.2 | 6 | 20 Sa | 0554 | 0.8 | 24 | 5 M | 0118 | 2.9 | 88 | 20 Tu | 0022 | 2.6 | 79 | | |
| | 0954 | 2.9 | 88 | 1018 | 2.3 | 70 | 1142 | 2.5 | 76 | 1125 | 2.1 | 64 | 1125 | 2.1 | 64 | 0806 | 0.3 | 9 | 0723 | 0.8 | 24 | | | | |
| | 1626 | 0.0 | 0 | 1658 | 0.5 | 15 | 1812 | 0.2 | 6 | 1755 | 0.8 | 24 | 1755 | 0.8 | 24 | 1403 | 2.5 | 76 | 1303 | 2.3 | 70 | | | | |
| | 2230 | 2.7 | 82 | 2256 | 2.3 | 70 | | | | | | | 2019 | 0.5 | 15 | 2019 | 0.5 | 15 | 1925 | 0.9 | 27 | | | | |
| 6 W | 0454 | 0.2 | 6 | 21 Th | 0536 | 0.7 | 21 | 6 Sa | 0019 | 2.8 | 85 | 21 Su | 0000 | 2.4 | 73 | 6 Tu | 0225 | 3.0 | 91 | 21 W | 0124 | 2.8 | 85 | | |
| | 1053 | 2.7 | 82 | 1109 | 2.1 | 64 | 0707 | 0.2 | 6 | 0704 | 0.8 | 24 | 0906 | 0.2 | 6 | 0906 | 0.2 | 6 | 0816 | 0.6 | 18 | | | | |
| | 1726 | 0.1 | 3 | 1750 | 0.6 | 18 | 1256 | 2.4 | 73 | 1232 | 2.0 | 61 | 1505 | 2.6 | 79 | 1505 | 2.6 | 79 | 1401 | 2.5 | 76 | | | | |
| | 2331 | 2.7 | 82 | 2350 | 2.3 | 70 | 1923 | 0.3 | 9 | 1901 | 0.8 | 24 | 2116 | 0.4 | 12 | 2116 | 0.4 | 12 | 2022 | 0.7 | 21 | | | | |
| 7 Th | 0605 | 0.2 | 6 | 22 F | 0640 | 0.7 | 21 | 7 Su | 0131 | 2.8 | 85 | 22 M | 0102 | 2.5 | 76 | 7 W | 0321 | 3.0 | 91 | 22 Th | 0220 | 3.0 | 91 | | |
| | 1157 | 2.6 | 79 | 1207 | 2.0 | 61 | 0819 | 0.2 | 6 | 0805 | 0.7 | 21 | 0956 | 0.1 | 3 | 0956 | 0.1 | 3 | 0903 | 0.4 | 12 | | | | |
| | 1830 | 0.1 | 3 | 1847 | 0.7 | 21 | 1410 | 2.4 | 73 | 1337 | 2.1 | 64 | 1555 | 2.7 | 82 | 1555 | 2.7 | 82 | 1452 | 2.8 | 85 | | | | |
| | | | | | | | 2030 | 0.3 | 9 | 2001 | 0.7 | 21 | 2206 | 0.3 | 9 | 2206 | 0.3 | 9 | 2112 | 0.4 | 12 | | | | |
| 8 F | 0036 | 2.8 | 85 | 23 Sa | 0047 | 2.3 | 70 | 8 M | 0237 | 2.9 | 88 | 23 Tu | 0200 | 2.6 | 79 | 8 Th | 0408 | 3.1 | 94 | 23 F | 0311 | 3.2 | 98 | | |
| | 0717 | 0.2 | 6 | 0744 | 0.7 | 21 | 0921 | 0.0 | 0 | 0855 | 0.5 | 15 | 1039 | 0.1 | 3 | 1039 | 0.1 | 3 | 0946 | 0.2 | 6 | | | | |
| | 1306 | 2.5 | 76 | 1310 | 2.0 | 61 | 1515 | 2.5 | 76 | 1434 | 2.3 | 70 | 1636 | 2.8 | 85 | 1636 | 2.8 | 85 | 1539 | 3.1 | 94 | | | | |
| | 1936 | 0.1 | 3 | 1944 | 0.6 | 18 | 2129 | 0.2 | 6 | 2053 | 0.6 | 18 | 2249 | 0.2 | 6 | 2249 | 0.2 | 6 | 2159 | 0.2 | 6 | | | | |
| 9 Sa | 0143 | 2.8 | 85 | 24 Su | 0144 | 2.4 | 73 | 9 Tu | 0335 | 3.0 | 91 | 24 W | 0252 | 2.8 | 85 | 9 F | 0448 | 3.1 | 94 | 24 Sa | 0359 | 3.4 | 104 | | |
| | 0827 | 0.1 | 3 | 0841 | 0.6 | 18 | 1015 | -0.1 | -3 | 0939 | 0.3 | 9 | 1117 | 0.1 | 3 | 1117 | 0.1 | 3 | 1029 | 0.0 | 0 | | | | |
| | 1415 | 2.5 | 76 | 1411 | 2.0 | 61 | 1609 | 2.6 | 79 | 1523 | 2.5 | 76 | 1711 | 2.9 | 88 | 1711 | 2.9 | 88 | 1625 | 3.3 | 101 | | | | |
| | 2039 | 0.1 | 3 | 2036 | 0.6 | 18 | 2220 | 0.1 | 3 | 2139 | 0.4 | 12 | 2139 | 0.4 | 12 | 2328 | 0.2 | 6 | 2245 | 0.0 | 0 | | | | |
| 10 Su | 0246 | 3.0 | 91 | 25 M | 0236 | 2.5 | 76 | 10 W | 0425 | 3.1 | 94 | 25 Th | 0340 | 3.1 | 94 | 10 Sa | 0523 | 3.1 | 94 | 25 Su | 0446 | 3.6 | 110 | | |
| | 0929 | -0.1 | -3 | 0929 | 0.4 | 12 | 1101 | -0.1 | -3 | 1020 | 0.1 | 3 | 1020 | 0.1 | 3 | 1152 | 0.1 | 3 | 1112 | -0.2 | -6 | | | | |
| | 1519 | 2.5 | 76 | 1504 | 2.1 | 64 | 1655 | 2.7 | 82 | 1608 | 2.8 | 85 | 1608 | 2.8 | 85 | 1744 | 2.9 | 88 | 1711 | 3.6 | 110 | | | | |
| | 2137 | 0.0 | 0 | 2123 | 0.5 | 15 | 2306 | 0.0 | 0 | 2223 | 0.1 | 3 | 2223 | 0.1 | 3 | | | | 2332 | -0.2 | -6 | | | | |
| 11 M | 0344 | 3.1 | 94 | 26 Tu | 0324 | 2.7 | 82 | 11 Th | 0509 | 3.1 | 94 | 26 F | 0425 | 3.3 | 101 | 11 Su | 0004 | 0.2 | 6 | 26 M | 0534 | 3.7 | 113 | | |
| | 1025 | -0.2 | -6 | 1012 | 0.2 | 6 | 1143 | -0.2 | -6 | 1100 | -0.1 | -3 | 1100 | -0.1 | -3 | 0557 | 3.1 | 94 | 1156 | -0.2 | -6 | | | | |
| | 1617 | 2.6 | 79 | 1552 | 2.3 | 70 | 1736 | 2.7 | 82 | 1652 | 3.0 | 91 | 1652 | 3.0 | 91 | 1225 | 0.2 | 6 | 1757 | 3.7 | 113 | | | | |
| | 2231 | 0.0 | 0 | 2206 | 0.3 | 9 | 2349 | 0.0 | 0 | 2307 | -0.1 | -3 | 2307 | -0.1 | -3 | 1816 | 3.0 | 91 | | | | | | | |
| 12 Tu | 0436 | 3.2 | 98 | 27 W | 0408 | 2.9 | 88 | 12 F | 0548 | 3.1 | 94 | 27 Sa | 0510 | 3.5 | 107 | 12 M | 0039 | 0.3 | 9 | 27 Tu | 0021 | -0.3 | -9 | | |
| | 1116 | -0.3 | -9 | 1052 | 0.0 | 0 | 1222 | -0.1 | -3 | 1140 | -0.3 | -9 | 1140 | -0.3 | -9 | 0630 | 3.0 | 91 | 0622 | 3.6 | 110 | | | | |
| | 1708 | 2.6 | 79 | 1636 | 2.5 | 76 | 1813 | 2.8 | 85 | 1736 | 3.2 | 98 | 1736 | 3.2 | 98 | 1256 | 0.3 | 9 | 1241 | -0.2 | -6 | | | | |
| | 2320 | -0.1 | -3 | 2248 | 0.1 | 3 | | | | 2352 | -0.2 | -6 | 2352 | -0.2 | -6 | 1849 | 3.0 | 91 | 1845 | 3.7 | 113 | | | | |
| 13 W | 0524 | 3.2 | 98 | 28 Th | 0451 | 3.1 | 94 | 13 Sa | 0028 | 0.0 | 0 | 28 Su | 0555 | 3.5 | 107 | 13 Tu | 0114 | 0.4 | 12 | 28 W | 0111 | -0.2 | -6 | | |
| | 1203 | -0.3 | -9 | 1130 | -0.1 | -3 | 0625 | 3.1 | 94 | 1222 | -0.3 | -9 | 1222 | -0.3 | -9 | 0704 | 2.9 | 88 | 0712 | 3.5 | 107 | | | | |
| | 1755 | 2.7 | 82 | 1719 | 2.7 | 82 | 1258 | -0.1 | -3 | 1820 | 3.3 | 101 | 1820 | 3.3 | 101 | 1327 | 0.4 | 12 | 1330 | -0.1 | -3 | | | | |
| | | | | 2330 | 0.0 | 0 | 1849 | 2.8 | 85 | 1849 | 2.8 | 85 | | | 1924 | 2.9 | 88 | 1935 | 3.7 | 113 | | | | | |
| 14 Th | 0006 | -0.1 | -3 | 29 F | 0534 | 3.3 | 101 | 14 Su | 0106 | 0.1 | 3 | 29 M | 0038 | -0.3 | -9 | 14 W | 0150 | 0.5 | 15 | 29 Th | 0206 | -0.1 | -3 | | |
| | 0609 | 3.2 | 98 | 1209 | -0.3 | -9 | 0701 | 3.0 | 91 | 0642 | 3.5 | 107 | 1306 | -0.3 | -9 | 0739 | 2.8 | 85 | 0804 | 3.3 | 101 | | | | |
| | 1246 | -0.3 | -9 | 1801 | 2.8 | 85 | 1333 | 0.0 | 0 | 1306 | -0.3 | -9 | 1907 | 3.4 | 104 | 1400 | 0.5 | 15 | 1423 | 0.1 | 3 | | | | |
| | 1838 | 2.7 | 82 | | | | 1924 | 2.8 | 85 | 1907 | 3.4 | 104 | 2000 | 2.9 | 88 | 2000 | 2.9 | 88 | 2029 | 3.5 | 107 | | | | |
| 15 F | 0050 | -0.1 | -3 | 30 Sa | 0012 | -0.1 | -3 | 15 M | 0144 | 0.2 | 6 | 30 Tu | 0127 | -0.3 | -9 | 15 Th | 0229 | 0.6 | 18 | 30 F | 0305 | 0.1 | 3 | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |

Apia, Samoa Islands, 2011

Times and Heights of High and Low Waters

| October | | | | November | | | | December | | | | | | | | | | | | | | | | |
|-----------------|--------|-----|------|-----------------|------|------|--------|-----------------|------|--------|----|-----------------|------|------|-----|-----------------|------|------|-----|-----------------|------|------|-----|----|
| Time | Height | | Time | Height | | Time | Height | | Time | Height | | | | | | | | | | | | | | |
| | h | m | | h | m | | h | m | | h | m | | | | | | | | | | | | | |
| | ft | cm | | ft | cm | | ft | cm | | ft | cm | | | | | | | | | | | | | |
| 1 Sa | 0412 | 0.3 | 9 | 16 Su | 0335 | 0.8 | 24 | 1 Tu | 0607 | 0.5 | 15 | 16 W | 0455 | 0.7 | 21 | 1 Th | 0626 | 0.6 | 18 | 16 F | 0515 | 0.5 | 15 | |
| | 1005 | 2.8 | 85 | | 0924 | 2.5 | 76 | | 1206 | 2.7 | 82 | | 1051 | 2.6 | 79 | | 1226 | 2.6 | 79 | | 1119 | 2.8 | 85 | |
| | 1628 | 0.5 | 15 | | 1526 | 1.0 | 30 | | 1827 | 0.8 | 24 | | 1704 | 0.9 | 27 | | 1854 | 0.9 | 27 | | 1743 | 0.6 | 18 | |
| | 2233 | 3.2 | 98 | | 2143 | 2.8 | 85 | | | | | | 2309 | 2.9 | 88 | | ● | | | | 2341 | 2.9 | 88 | |
| 2 Su | 0524 | 0.4 | 12 | 17 M | 0433 | 0.9 | 27 | 2 W | 0024 | 2.9 | 88 | 17 Th | 0554 | 0.6 | 18 | 2 F | 0039 | 2.6 | 79 | 17 Sa | 0616 | 0.5 | 15 | |
| | 1117 | 2.7 | 82 | | 1021 | 2.4 | 73 | | 0710 | 0.5 | 15 | | 1152 | 2.7 | 82 | | 0722 | 0.7 | 21 | | 1222 | 2.9 | 88 | |
| | 1741 | 0.7 | 21 | | 1628 | 1.1 | 34 | | 1313 | 2.7 | 82 | | 1813 | 0.8 | 24 | | 1324 | 2.6 | 79 | | 1325 | 3.1 | 94 | |
| | 2344 | 3.0 | 91 | | 2241 | 2.8 | 85 | ● | 1932 | 0.8 | 24 | | | | | | 1954 | 0.8 | 24 | ● | 1855 | 0.6 | 18 | |
| 3 M | 0637 | 0.5 | 15 | 18 Tu | 0536 | 0.9 | 27 | 3 Th | 0128 | 2.9 | 88 | 18 F | 0012 | 2.9 | 88 | 3 Sa | 0137 | 2.6 | 79 | 18 Su | 0047 | 2.8 | 85 | |
| | 1234 | 2.6 | 79 | | 1123 | 2.4 | 73 | | 0806 | 0.6 | 18 | | 0653 | 0.6 | 18 | | 0813 | 0.7 | 21 | | 0719 | 0.4 | 12 | |
| | 1855 | 0.7 | 21 | | 1739 | 1.0 | 30 | | 1410 | 2.8 | 85 | ● | 1252 | 2.9 | 88 | | 1415 | 2.7 | 82 | | 1325 | 3.1 | 94 | |
| | | | | | 2344 | 2.8 | 85 | | 2029 | 0.7 | 21 | | ● | 1920 | 0.7 | 21 | | 2048 | 0.8 | 24 | | 2003 | 0.4 | 12 |
| 4 Tu | 0057 | 3.0 | 91 | 19 W | 0638 | 0.8 | 24 | 4 F | 0223 | 2.8 | 85 | 19 Sa | 0115 | 3.0 | 91 | 4 Su | 0230 | 2.5 | 76 | 19 M | 0153 | 2.9 | 88 | |
| | 0744 | 0.4 | 12 | | 1227 | 2.6 | 79 | | 0854 | 0.5 | 15 | | 0750 | 0.4 | 12 | | 0858 | 0.7 | 21 | | 0821 | 0.3 | 9 | |
| | 1346 | 2.6 | 79 | ● | 1848 | 0.9 | 27 | | 1457 | 2.8 | 85 | | 1351 | 3.1 | 94 | | 1500 | 2.8 | 85 | | 1427 | 3.2 | 98 | |
| | 2001 | 0.7 | 21 | | | | | | 2119 | 0.7 | 21 | | 2022 | 0.5 | 15 | | 2136 | 0.7 | 21 | | 2107 | 0.2 | 6 | |
| 5 W | 0203 | 3.0 | 91 | 20 Th | 0047 | 2.9 | 88 | 5 Sa | 0310 | 2.8 | 85 | 20 Su | 0215 | 3.1 | 94 | 5 M | 0316 | 2.5 | 76 | 20 Tu | 0257 | 2.9 | 88 | |
| | 0841 | 0.4 | 12 | | 0734 | 0.6 | 18 | | 0936 | 0.5 | 15 | | 0844 | 0.3 | 9 | | 0940 | 0.7 | 21 | | 0919 | 0.2 | 6 | |
| | 1444 | 2.7 | 82 | | 1326 | 2.8 | 85 | | 1536 | 2.9 | 88 | | 1447 | 3.3 | 101 | | 1539 | 2.9 | 88 | | 1525 | 3.4 | 104 | |
| | 2057 | 0.6 | 18 | | 1950 | 0.7 | 21 | | 2202 | 0.6 | 18 | | 2119 | 0.2 | 6 | | 2218 | 0.6 | 18 | | 2205 | 0.0 | 0 | |
| 6 Th | 0258 | 3.0 | 91 | 21 F | 0146 | 3.1 | 94 | 6 Su | 0350 | 2.8 | 85 | 21 M | 0313 | 3.2 | 98 | 6 Tu | 0358 | 2.6 | 79 | 21 W | 0356 | 3.0 | 91 | |
| | 0929 | 0.4 | 12 | | 0825 | 0.4 | 12 | | 1013 | 0.5 | 15 | | 0936 | 0.2 | 6 | | 1017 | 0.6 | 18 | | 1013 | 0.1 | 3 | |
| | 1531 | 2.8 | 85 | | 1421 | 3.0 | 91 | | 1611 | 3.0 | 91 | | 1540 | 3.6 | 110 | | 1616 | 3.0 | 91 | | 1620 | 3.6 | 110 | |
| | 2145 | 0.5 | 15 | | 2045 | 0.5 | 15 | | 2241 | 0.6 | 18 | | 2213 | 0.0 | 0 | | 2257 | 0.5 | 15 | | 2259 | -0.1 | -3 | |
| 7 F | 0343 | 3.0 | 91 | 22 Sa | 0242 | 3.2 | 98 | 7 M | 0426 | 2.8 | 85 | 22 Tu | 0407 | 3.3 | 101 | 7 W | 0437 | 2.6 | 79 | 22 Th | 0451 | 3.1 | 94 | |
| | 1010 | 0.3 | 9 | | 0913 | 0.3 | 9 | | 1048 | 0.5 | 15 | | 1026 | 0.0 | 0 | | 1053 | 0.6 | 18 | | 1105 | 0.0 | 0 | |
| | 1609 | 2.9 | 88 | | 1511 | 3.3 | 101 | | 1644 | 3.1 | 94 | | 1632 | 3.7 | 113 | | 1652 | 3.1 | 94 | | 1711 | 3.7 | 113 | |
| | 2227 | 0.4 | 12 | | 2137 | 0.2 | 6 | | 2318 | 0.5 | 15 | | 2306 | -0.1 | -3 | | 2334 | 0.4 | 12 | | 2350 | -0.2 | -6 | |
| 8 Sa | 0421 | 3.0 | 91 | 23 Su | 0334 | 3.4 | 104 | 8 Tu | 0501 | 2.8 | 85 | 23 W | 0500 | 3.3 | 101 | 8 Th | 0515 | 2.7 | 82 | 23 F | 0543 | 3.1 | 94 | |
| | 1047 | 0.3 | 9 | | 1000 | 0.1 | 3 | | 1120 | 0.5 | 15 | | 1116 | 0.0 | 0 | | 1128 | 0.6 | 18 | | 1155 | 0.0 | 0 | |
| | 1642 | 3.0 | 91 | | 1600 | 3.5 | 107 | | 1717 | 3.2 | 98 | | 1722 | 3.8 | 116 | | 1728 | 3.2 | 98 | | 1801 | 3.7 | 113 | |
| | 2305 | 0.4 | 12 | | 2227 | 0.0 | 0 | | 2353 | 0.5 | 15 | | 2358 | -0.2 | -6 | | | | | | | | | |
| 9 Su | 0455 | 3.0 | 91 | 24 M | 0425 | 3.5 | 107 | 9 W | 0536 | 2.8 | 85 | 24 Th | 0552 | 3.3 | 101 | 9 F | 0010 | 0.4 | 12 | 24 Sa | 0039 | -0.2 | -6 | |
| | 1120 | 0.4 | 12 | | 1046 | 0.0 | 0 | | 1152 | 0.6 | 18 | | 1207 | 0.0 | 0 | | 0553 | 2.7 | 82 | | 0632 | 3.1 | 94 | |
| | 1714 | 3.1 | 94 | | 1649 | 3.7 | 113 | | 1751 | 3.2 | 98 | | 1813 | 3.9 | 119 | | 1203 | 0.5 | 15 | | 1244 | 0.0 | 0 | |
| | 2340 | 0.4 | 12 | | 2317 | -0.2 | -6 | | | | | ● | | | | 1805 | 3.3 | 101 | ● | 1849 | 3.7 | 113 | | |
| 10 M | 0528 | 3.0 | 91 | 25 Tu | 0515 | 3.6 | 110 | 10 Th | 0029 | 0.5 | 15 | 25 F | 0050 | -0.2 | -6 | 10 Sa | 0046 | 0.3 | 9 | 25 Su | 0127 | -0.2 | -6 | |
| | 1151 | 0.4 | 12 | | 1133 | -0.1 | -3 | | 0613 | 2.8 | 85 | | 0644 | 3.3 | 101 | | 0631 | 2.7 | 82 | | 0720 | 3.1 | 94 | |
| | 1745 | 3.1 | 94 | | 1737 | 3.9 | 119 | | 1225 | 0.6 | 18 | | 1258 | 0.1 | 3 | | 1238 | 0.5 | 15 | | 1333 | 0.1 | 3 | |
| | | | | | | | | ○ | 1827 | 3.2 | 98 | | 1903 | 3.8 | 116 | | 1843 | 3.3 | 101 | | 1935 | 3.5 | 107 | |
| 11 Tu | 0014 | 0.4 | 12 | 26 W | 0007 | -0.2 | -6 | 11 F | 0105 | 0.5 | 15 | 26 Sa | 0142 | -0.1 | -3 | 11 Su | 0123 | 0.3 | 9 | 26 M | 0214 | -0.1 | -3 | |
| | 0601 | 3.0 | 91 | | 0605 | 3.5 | 107 | | 0651 | 2.8 | 85 | | 0736 | 3.2 | 98 | | 0711 | 2.8 | 85 | | 0807 | 3.0 | 91 | |
| | 1222 | 0.5 | 15 | | 1222 | -0.1 | -3 | | 1259 | 0.7 | 21 | | 1350 | 0.2 | 6 | | 1316 | 0.5 | 15 | | 1422 | 0.2 | 6 | |
| | 1818 | 3.2 | 98 | ● | 1827 | 3.9 | 119 | | 1904 | 3.2 | 98 | | 1954 | 3.6 | 110 | | 1923 | 3.3 | 101 | | 2022 | 3.3 | 101 | |
| 12 W | 0049 | 0.5 | 15 | 27 Th | 0100 | -0.2 | -6 | 12 Sa | 0143 | 0.5 | 15 | 27 Su | 0236 | 0.0 | 0 | 12 M | 0201 | 0.3 | 9 | 27 Tu | 0301 | 0.1 | 3 | |
| | 0635 | 2.9 | 88 | | 0657 | 3.4 | 104 | | 0731 | 2.7 | 82 | | 0830 | 3.0 | 91 | | 0753 | 2.8 | 85 | | 0855 | 2.9 | 88 | |
| | 1253 | 0.6 | 18 | | 1312 | 0.0 | 0 | | 1335 | 0.7 | 21 | | 1444 | 0.4 | 12 | | 1356 | 0.6 | 18 | | 1512 | 0.4 | 12 | |
| | 1852 | 3.1 | 94 | | 1918 | 3.8 | 116 | | 1944 | 3.2 | 98 | | 2047 | 3.4 | 104 | | 2006 | 3.2 | 98 | | 2108 | 3.1 | 94 | |
| 13 Th | 0125 | 0.5 | 15 | 28 F | 0154 | -0.1 | -3 | 13 Su | 0224 | 0.6 | 18 | 28 M | 0331 | 0.2 | 6 | 13 Tu | 0243 | 0.3 | 9 | 28 W | 0350 | 0.3 | 9 | |
| | 0712 | 2.8 | 85 | | 0750 | 3.3 | 101 | | 0814 | 2.7 | 82 | | 0925 | 2.9 | 88 | | 0838 | 2.8 | 85 | | 0944 | 2.8 | 85 | |
| | 1325 | 0.7 | 21 | | 1406 | 0.2 | 6 | | 1415 | 0.8 | 24 | | 1542 | 0.5 | 15 | | 1442 | 0.6 | 18 | | 1605 | 0.6 | 18 | |
| | 1929 | 3.1 | 94 | | 2012 | 3.7 | 113 | | 2028 | 3.1 | 94 | | 2141 | 3.2 | 98 | | 2052 | 3.2 | 98 | | 2156 | 2.9 | 88 | |
| 14 F | 0203 | 0.6 | 18 | 29 Sa | 0252 | 0.1 | 3 | 14 M | 0309 | 0.6 | 18 | 29 Tu | 0429 | 0.3 | 9 | 14 W | 0328 | 0.4 | 12 | 29 Th | 0440 | 0.4 | 12 | |
| | 0751 | 2.7 | 82 | | 0847 | 3.1 | 94 | | 0901 | 2.6 | 79 | | 1023 | 2.8 | 85 | | 0927 | 2.8 | 85 | | 1035 | 2.6 | 79 | |
| | 1359 | 0.8 | 24 | | 1504 | 0.4 | 12 | | 1502 | 0.9 | 27 | | 1644 | 0.7 | 21 | | 1534 | 0.6 | 18 | | 1703 | 0.8 | 24 | |
| | 2008 | 3.0 | 91 | | 2108 | 3.4 | 104 | | 2116 | 3.0 | 91 | | 2238 | 3.0 | 91 | | 2143 | 3.1 | 94 | | 2247 | 2.6 | 79 | |
| 15</ | | | | | | | | | | | | | | | | | | | | | | | | |

Pago Pago, 2011

Times and Heights of High and Low Waters

| January | | | | February | | | | March | | | | | | | | | | | | |
|-----------------|--------|------|----------------|-----------------|------|-----------------|--------|-------|-----------------|--------|-----------------|-----------------|--------|------|------|-----------------|------|------|------|------|
| Time | Height | | Time | Height | | Time | Height | | Time | Height | | Time | Height | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | |
| 1 Sa | 0503 | 2.5 | 76 | | | 1 Tu | 0016 | -0.1 | -3 | | | 1 Tu | 0519 | 2.4 | 73 | | | | | |
| | 1101 | -0.1 | -3 | 16 Su | 0422 | | 2.2 | 67 | | | 16 W | | 1134 | -0.3 | -9 | | | | | |
| | 1721 | 3.0 | 91 | | 1021 | | 0.1 | 3 | 0619 | 2.4 | | | 73 | 1116 | 0.1 | 3 | 0416 | 2.7 | 82 | |
| | 2347 | -0.2 | -6 | | 1646 | | 2.8 | 85 | 1215 | 0.0 | | | 0 | 1754 | 3.2 | 98 | 1730 | 2.7 | 82 | 1641 | 3.1 | 94 |
| | | | 2309 | | -0.1 | -3 | 1831 | 2.8 | 85 | | | | | 2350 | 0.0 | 0 | 2258 | -0.4 | -12 | |
| 2 Su | 0552 | 2.5 | 76 | | | 2 W | 0053 | 0.0 | 0 | | | 2 W | 0556 | 2.4 | 73 | 17 Th | 0506 | 3.0 | 91 | |
| | 1148 | -0.1 | -3 | 17 M | 0508 | | 2.4 | 73 | | | 17 Th | | 0619 | 3.0 | 91 | | 1114 | -0.4 | -12 | |
| | 1807 | 3.0 | 91 | | 1108 | | -0.1 | -3 | 0658 | 2.4 | | | 73 | 1225 | -0.4 | | -12 | 1731 | 3.3 | 101 |
| | | | | | 1731 | | 3.0 | 91 | 1254 | 0.0 | | | 0 | 1843 | 3.3 | | 101 | 2347 | -0.5 | -15 |
| | | | 2354 | | -0.2 | -6 | 1908 | 2.8 | 85 | | | | | | | | | | | |
| 3 M | 0033 | -0.2 | -6 | | | 3 Th | 0128 | 0.0 | 0 | | | 3 Th | 0023 | 0.1 | 3 | 18 F | 0556 | 3.2 | 98 | |
| | 0638 | 2.4 | 73 | 18 Tu | 0555 | | 2.6 | 79 | | | 18 F | | 0630 | 2.4 | 73 | | 1207 | -0.5 | -15 | |
| | 1234 | -0.1 | -3 | | 1155 | | -0.2 | -6 | 0735 | 2.4 | | | 73 | 1230 | 0.1 | | 3 | 1822 | 3.3 | 101 |
| | 1851 | 2.9 | 88 | | 1817 | | 3.1 | 94 | 1333 | 0.1 | | | 3 | 1934 | 3.3 | | 101 | | | |
| | | | | | | | 1944 | 2.7 | 82 | | | | | | | | | | | |
| 4 Tu | 0117 | -0.1 | -3 | | | 4 F | 0204 | 0.1 | 3 | | | 4 F | 0055 | 0.1 | 3 | 19 Sa | 0036 | -0.6 | -18 | |
| | 0721 | 2.4 | 73 | 19 W | 0204 | | 0.1 | 3 | | | 19 Sa | | 0703 | 2.5 | 76 | | 0647 | 3.3 | 101 | |
| | 1317 | 0.0 | 0 | | 0643 | | 2.7 | 82 | 0812 | 2.4 | | | 73 | 1306 | 0.1 | | 3 | 1300 | -0.6 | -18 |
| | 1933 | 2.8 | 85 | | 1244 | | -0.3 | -9 | 1412 | 0.2 | | | 6 | 2027 | 3.2 | | 98 | 1914 | 3.3 | 101 |
| | | | 1905 | | 3.2 | 98 | 2021 | 2.6 | 79 | | | | | | | | | | | |
| 5 W | 0158 | -0.1 | -3 | | | 5 Sa | 0239 | 0.2 | 6 | | | 5 Sa | 0127 | 0.1 | 3 | 20 Su | 0126 | -0.6 | -18 | |
| | 0804 | 2.4 | 73 | 20 Th | 0239 | | 0.2 | 6 | | | 20 Su | | 0738 | 2.5 | 76 | | 0739 | 3.3 | 101 | |
| | 1400 | 0.1 | 3 | | 0732 | | 2.8 | 85 | 0850 | 2.3 | | | 70 | 1343 | 0.2 | | 6 | 1355 | -0.5 | -15 |
| | 2015 | 2.7 | 82 | | 1335 | | -0.3 | -9 | 1453 | 0.3 | | | 9 | 2123 | 3.1 | | 94 | 2009 | 3.1 | 94 |
| | | | 1955 | | 3.2 | 98 | 2100 | 2.4 | 73 | | | | | | | | | | | |
| 6 Th | 0239 | 0.0 | 0 | | | 6 Su | 0316 | 0.3 | 9 | | | 6 Su | 0201 | 0.2 | 6 | 21 M | 0219 | -0.5 | -15 | |
| | 0847 | 2.3 | 70 | 21 F | 0216 | | -0.5 | -15 | | | 21 M | | 0814 | 2.4 | 73 | | 0834 | 3.3 | 101 | |
| | 1444 | 0.2 | 6 | | 0823 | | 2.9 | 88 | 0931 | 2.3 | | | 70 | 1422 | 0.2 | | 6 | 1453 | -0.4 | -12 |
| | 2057 | 2.6 | 79 | | 1428 | | -0.3 | -9 | 1536 | 0.4 | | | 12 | 2224 | 2.8 | | 85 | 2106 | 2.9 | 88 |
| | | | 2047 | | 3.2 | 98 | 2141 | 2.3 | 70 | | | | | | | | | | | |
| 7 F | 0321 | 0.1 | 3 | | | 7 M | 0355 | 0.4 | 12 | | | 7 M | 0236 | 0.3 | 9 | 22 Tu | 0314 | -0.3 | -9 | |
| | 0931 | 2.3 | 70 | 22 Sa | 0307 | | -0.4 | -12 | | | 22 Tu | | 0852 | 2.4 | 73 | | 0931 | 3.2 | 98 | |
| | 1529 | 0.3 | 9 | | 0917 | | 2.9 | 88 | 1014 | 2.2 | | | 67 | 1717 | -0.1 | | -3 | 1555 | -0.3 | -9 |
| | 2139 | 2.5 | 76 | | 1525 | | -0.2 | -6 | 1624 | 0.5 | | | 15 | 2330 | 2.6 | | 79 | 2207 | 2.7 | 82 |
| | | | 2142 | | 3.1 | 94 | 2225 | 2.1 | 64 | | | | | | | | | | | |
| 8 Sa | 0403 | 0.3 | 9 | | | 8 Tu | 0438 | 0.5 | 15 | | | 8 Tu | 0314 | 0.4 | 12 | 23 W | 0414 | -0.2 | -6 | |
| | 1017 | 2.2 | 67 | 23 Su | 0401 | | -0.3 | -9 | | | 23 W | | 0933 | 2.3 | 70 | | 1033 | 3.0 | 91 | |
| | 1616 | 0.4 | 12 | | 1015 | | 2.9 | 88 | 1102 | 2.2 | | | 67 | 1549 | 0.4 | | 12 | 1701 | -0.1 | -3 |
| | 2224 | 2.3 | 70 | | 1627 | | -0.1 | -3 | 1716 | 0.6 | | | 18 | 2150 | 2.1 | | 64 | 2313 | 2.5 | 76 |
| | | | 2242 | | 2.9 | 88 | 2315 | 2.0 | 61 | | | | | | | | | | | |
| 9 Su | 0446 | 0.4 | 12 | | | 9 W | 0525 | 0.5 | 15 | | | 9 W | 0355 | 0.4 | 12 | 24 Th | 0518 | 0.0 | 0 | |
| | 1105 | 2.2 | 67 | 24 M | 0458 | | -0.2 | -6 | | | 24 Th | | 1019 | 2.2 | 67 | | 1139 | 2.8 | 85 | |
| | 1708 | 0.5 | 15 | | 1116 | | 2.9 | 88 | 1154 | 2.1 | | | 64 | 1639 | 0.5 | | 15 | 1810 | 0.0 | 0 |
| | 2312 | 2.2 | 67 | | 1733 | | 0.0 | 0 | 1814 | 0.6 | | | 18 | 2239 | 2.0 | | 61 | | | |
| | | | 2346 | | 2.7 | 82 | | | | | | | | | | | | | | |
| 10 M | 0532 | 0.5 | 15 | | | 10 Th | 0011 | 1.9 | 58 | | | 10 Th | 0442 | 0.5 | 15 | 25 F | 0022 | 2.4 | 73 | |
| | 1155 | 2.1 | 64 | 25 Tu | 0600 | | -0.1 | -3 | | | 25 F | | 1110 | 2.2 | 67 | | 0625 | 0.1 | 3 | |
| | 1803 | 0.6 | 18 | | 1220 | | 2.8 | 85 | 1250 | 2.2 | | | 67 | 1415 | 2.7 | | 82 | 1247 | 2.7 | 82 |
| | | | | | 1843 | | 0.1 | 3 | 1914 | 0.5 | | | 15 | 2046 | 0.0 | | 0 | 1919 | 0.1 | 3 |
| | | | | | | | | | | | | | | | | | | | | |
| 11 Tu | 0004 | 2.1 | 64 | | | 11 F | 0110 | 1.9 | 58 | | | 11 F | 0536 | 0.5 | 15 | 26 Sa | 0131 | 2.3 | 70 | |
| | 0620 | 0.5 | 15 | 26 W | 0053 | | 2.5 | 76 | | | 26 Sa | | 1208 | 2.2 | 67 | | 0731 | 0.2 | 6 | |
| | 1248 | 2.1 | 64 | | 0703 | | 0.0 | 0 | 0714 | 0.5 | | | 15 | 1515 | 2.7 | | 82 | 1352 | 2.6 | 79 |
| | 1901 | 0.6 | 18 | | 1326 | | 2.8 | 85 | 1346 | 2.2 | | | 67 | 2144 | 0.0 | | 0 | 2023 | 0.1 | 3 |
| | | | 1953 | | 0.1 | 3 | 2011 | 0.4 | 12 | | | | | | | | | | | |
| 12 W | 0058 | 2.0 | 61 | | | 12 Sa | 0208 | 2.0 | 61 | | | 12 Sa | 0035 | 1.9 | 58 | 27 Su | 0234 | 2.3 | 70 | |
| | 0710 | 0.5 | 15 | 27 Th | 0201 | | 2.4 | 73 | | | 27 Su | | 0636 | 0.5 | 15 | | 0833 | 0.2 | 6 | |
| | 1340 | 2.2 | 67 | | 0807 | | 0.0 | 0 | 0810 | 0.4 | | | 12 | 1307 | 2.3 | | 70 | 1451 | 2.6 | 79 |
| | 1957 | 0.6 | 18 | | 1430 | | 2.8 | 85 | 1440 | 2.4 | | | 73 | 1935 | 0.4 | | 12 | 2118 | 0.1 | 3 |
| | | | 2059 | | 0.0 | 0 | 2104 | 0.3 | 9 | | | | | | | | | | | |
| 13 Th | 0153 | 2.0 | 61 | | | 13 Su | 0302 | 2.1 | 64 | | | 13 Su | 0136 | 2.0 | 61 | 28 M | 0327 | 2.3 | 70 | |
| | 0800 | 0.5 | 15 | 28 F | 0305 | | 2.4 | 73 | | | 28 M | | 0736 | 0.4 | 12 | | 0926 | 0.2 | 6 | |
| | 1429 | 2.3 | 70 | | 0907 | | 0.0 | 0 | 0903 | 0.2 | | | 6 | 1404 | 2.5 | | 76 | 1541 | 2.6 | 79 |
| | 2050 | 0.4 | 12 | | 1529 | | 2.8 | 85 | 1530 | 2.6 | | | 79 | 2030 | 0.2 | | 6 | 2205 | 0.1 | 3 |
| | | | 2158 | | 0.0 | 0 | 2153 | 0.1 | 3 | | | | | | | | | | | |
| 14 F | 0245 | 2.0 | 61 | | | 14 M | 0353 | 2.3 | 70 | | | 14 M | 0232 | 2.2 | 67 | 29 Tu | 0413 | 2.3 | 70 | |
| | 0848 | 0.4 | 12 | 29 Sa | 0403 | | 2.4 | 73 | | | 29 Tu | | 0834 | 0.2 | 6 | | 1012 | 0.2 | 6 | |
| | 1516 | 2.4 | 73 | | 1001 | | 0.0 | 0 | 0954 | 0.0 | | | 0 | 1459 | 2.7 | | 82 | 1624 | 2.5 | 76 |
| | 2138 | 0.3 | 9 | | 1622 | | 2.8 | 85 | 1618 | 2.8 | | | 85 | 2121 | 0.0 | | 0 | 2243 | 0.1 | 3 |
| | | | 2250 | | -0.1 | -3 | 2240 | -0.1 | -3 | | | | | | | | | | | |
| 15 Sa | 0335 | 2.1 | 64 | | | 15 Tu | 0442 | 2.5 | 76 | | | 15 Tu | 0325 | 2.4 | 73 | 30 W | 0451 | 2.4 | 73 | |
| | 0935 | 0.2 | 6 | 30 Su | 0454 | | 2.4 | 73 | | | 30 W | | 0929 | 0.0 | 0 | | 1052 | 0.2 | 6 | |
| | 1601 | 2.6 | 79 | | 1050 | | 0.0 | 0 | 1044 | -0.1 | | | -3 | 1550 | 2.9 | | 88 | 1702 | 2.5 | 76 |
| | 2224 | 0.1 | 3 | | 1709 | | 2.8 | 85 | 1706 | 3.1 | | | 94 | 2210 | -0.2 | | -6 | 2317 | 0.1 | 3 |
| | | | 2335 | | -0.1 | -3 | 2327 | -0.3 | -9 | | | | | | | | | | | |
| | | | 31 M | 0539 | 2.4 | 73 | | | 31 Th | 0526 | 2.4 | 73 | | | | | | | | |
| | | | | 1134 | 0.0 | 0 | | | | | 1129 | 0.2 | 6 | | | | | | | |
| | | | | 1751 | 2.8 | 85 | | | | 1736 | 2.5 | 76 | | | | | | | | |
| | | | | | | | | | | 2349 | 0.2 | 6 | | | | | | | | |

Time meridian 165° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to the chart datum of soundings.

Pago Pago, 2011

Times and Heights of High and Low Waters

| July | | | | August | | | | September | | | | | | | | | | | | | | | | | | | | | |
|-----------------|--------|------|----|--------|-----------------|------|------|-----------|--------|-----------------|------|------|--------|----|-----------------|------|------|-----|----|-----------------|------|------|----|--|-----------------|------|------|-----|--|
| Time | Height | | | Time | Height | | | Time | Height | | | Time | Height | | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | |
| 1 F | 0045 | 0.0 | 0 | | 16 Sa | 0144 | 0.0 | 0 | | 1 M | 0201 | -0.2 | -6 | | 16 Tu | 0240 | 0.2 | 6 | | 1 Th | 0338 | -0.3 | -9 | | 16 F | 0337 | 0.4 | 12 | |
| | 0707 | 2.9 | 88 | | | 0759 | 2.9 | 88 | | | 0819 | 3.1 | 94 | | | 0847 | 2.5 | 76 | | | 0951 | 2.8 | 85 | | | 0938 | 2.1 | 64 | |
| | 1331 | -0.2 | -6 | | | 1423 | -0.1 | -3 | | | 1438 | -0.4 | -12 | | | 1503 | 0.2 | 6 | | | 1602 | -0.2 | -6 | | | 1542 | 0.5 | 15 | |
| | 1933 | 2.5 | 76 | | | 2031 | 2.4 | 73 | | | 2047 | 2.9 | 88 | | | 2118 | 2.3 | 70 | | | 2220 | 3.0 | 91 | | | 2206 | 2.2 | 67 | |
| 2 Sa | 0131 | 0.0 | 0 | | 17 Su | 0229 | 0.1 | 3 | | 2 Tu | 0255 | -0.2 | -6 | | 17 W | 0324 | 0.3 | 9 | | 2 F | 0443 | -0.1 | -3 | | 17 Sa | 0428 | 0.5 | 15 | |
| | 0753 | 2.9 | 88 | | | 0843 | 2.7 | 82 | | | 0911 | 3.0 | 91 | | | 0929 | 2.3 | 70 | | | 1056 | 2.6 | 79 | | | 1028 | 1.9 | 58 | |
| | 1416 | -0.2 | -6 | | | 1506 | 0.0 | 0 | | | 1529 | -0.3 | -9 | | | 1543 | 0.4 | 12 | | | 1704 | -0.1 | -3 | | | 1630 | 0.5 | 15 | |
| | 2021 | 2.5 | 76 | | | 2116 | 2.4 | 73 | | | 2142 | 2.9 | 88 | | | 2202 | 2.3 | 70 | | | 2325 | 2.9 | 88 | | | 2258 | 2.1 | 64 | |
| 3 Su | 0220 | 0.0 | 0 | | 18 M | 0316 | 0.2 | 6 | | 3 W | 0353 | -0.1 | -3 | | 18 Th | 0412 | 0.5 | 15 | | 3 Sa | 0553 | -0.1 | -3 | | 18 Su | 0524 | 0.5 | 15 | |
| | 0841 | 2.9 | 88 | | | 0927 | 2.6 | 79 | | | 1008 | 2.9 | 88 | | | 1015 | 2.1 | 64 | | | 1205 | 2.5 | 76 | | | 1124 | 1.9 | 58 | |
| | 1504 | -0.2 | -6 | | | 1549 | 0.2 | 6 | | | 1624 | -0.2 | -6 | | | 1627 | 0.5 | 15 | | | 1811 | 0.0 | 0 | | | 1724 | 0.6 | 18 | |
| | 2111 | 2.6 | 79 | | | 2203 | 2.3 | 70 | | | 2241 | 2.9 | 88 | | | 2250 | 2.2 | 67 | | | 1918 | 0.0 | 0 | | | 2355 | 2.1 | 64 | |
| 4 M | 0313 | 0.0 | 0 | | 19 Tu | 0404 | 0.4 | 12 | | 4 Th | 0457 | 0.0 | 0 | | 19 F | 0505 | 0.5 | 15 | | 4 Su | 0034 | 2.8 | 85 | | 19 M | 0623 | 0.5 | 15 | |
| | 0932 | 2.9 | 88 | | | 1012 | 2.4 | 73 | | | 1110 | 2.7 | 82 | | | 1105 | 2.0 | 61 | | | 0704 | 0.0 | 0 | | | 1223 | 1.9 | 58 | |
| | 1555 | -0.2 | -6 | | | 1633 | 0.3 | 9 | | | 1723 | -0.1 | -3 | | | 1715 | 0.5 | 15 | | | 1315 | 2.4 | 73 | | | 1823 | 0.6 | 18 | |
| | 2205 | 2.6 | 79 | | | 2251 | 2.2 | 67 | | | 2343 | 2.9 | 88 | | | 2343 | 2.1 | 64 | | | 1918 | 0.0 | 0 | | | 1918 | 0.0 | 0 | |
| 5 Tu | 0410 | 0.1 | 3 | | 20 W | 0455 | 0.5 | 15 | | 5 F | 0605 | 0.0 | 0 | | 20 Sa | 0603 | 0.6 | 18 | | 5 M | 0141 | 2.8 | 85 | | 20 Tu | 0052 | 2.2 | 67 | |
| | 1027 | 2.8 | 85 | | | 1100 | 2.2 | 67 | | | 1216 | 2.6 | 79 | | | 1201 | 1.9 | 58 | | | 0812 | 0.0 | 0 | | | 0719 | 0.4 | 12 | |
| | 1648 | -0.1 | -3 | | | 1718 | 0.4 | 12 | | | 1826 | 0.0 | 0 | | | 1808 | 0.6 | 18 | | | 1421 | 2.4 | 73 | | | 1321 | 2.0 | 61 | |
| | 2302 | 2.7 | 82 | | | 2341 | 2.2 | 67 | | | | | | | | | | | | | 2022 | 0.0 | 0 | | | 1920 | 0.5 | 15 | |
| 6 W | 0511 | 0.1 | 3 | | 21 Th | 0550 | 0.6 | 18 | | 6 Sa | 0048 | 2.8 | 85 | | 21 Su | 0039 | 2.1 | 64 | | 6 Tu | 0243 | 2.8 | 85 | | 21 W | 0147 | 2.3 | 70 | |
| | 1126 | 2.7 | 82 | | | 1151 | 2.1 | 64 | | | 0714 | 0.0 | 0 | | | 0702 | 0.6 | 18 | | | 0912 | -0.1 | -3 | | | 0811 | 0.3 | 9 | |
| | 1744 | -0.1 | -3 | | | 1806 | 0.5 | 15 | | | 1324 | 2.5 | 76 | | | 1259 | 1.9 | 58 | | | 1520 | 2.4 | 73 | | | 1414 | 2.1 | 64 | |
| | | | | | | | | | | | 1930 | 0.0 | 0 | | | 1903 | 0.5 | 15 | | | 2120 | 0.0 | 0 | | | 2015 | 0.3 | 9 | |
| 7 Th | 0002 | 2.7 | 82 | | 22 F | 0033 | 2.2 | 67 | | 7 Su | 0153 | 2.8 | 85 | | 22 M | 0134 | 2.2 | 67 | | 7 W | 0338 | 2.8 | 85 | | 22 Th | 0238 | 2.5 | 76 | |
| | 0616 | 0.1 | 3 | | | 0647 | 0.6 | 18 | | | 0822 | 0.0 | 0 | | | 0758 | 0.5 | 15 | | | 1004 | -0.1 | -3 | | | 0900 | 0.1 | 3 | |
| | 1228 | 2.6 | 79 | | | 1245 | 2.0 | 61 | | | 1430 | 2.4 | 73 | | | 1356 | 1.9 | 58 | | | 1611 | 2.4 | 73 | | | 1504 | 2.3 | 70 | |
| | 1843 | -0.1 | -3 | | | 1857 | 0.5 | 15 | | | 2032 | 0.0 | 0 | | | 1957 | 0.5 | 15 | | | 2210 | 0.0 | 0 | | | 2107 | 0.1 | 3 | |
| 8 F | 0103 | 2.8 | 85 | | 23 Sa | 0126 | 2.2 | 67 | | 8 M | 0255 | 2.9 | 88 | | 23 Tu | 0226 | 2.3 | 70 | | 8 Th | 0427 | 2.8 | 85 | | 23 F | 0327 | 2.7 | 82 | |
| | 0723 | 0.1 | 3 | | | 0744 | 0.6 | 18 | | | 0924 | -0.1 | -3 | | | 0849 | 0.3 | 9 | | | 1049 | -0.1 | -3 | | | 0946 | -0.1 | -3 | |
| | 1332 | 2.6 | 79 | | | 1340 | 1.9 | 58 | | | 1530 | 2.4 | 73 | | | 1447 | 2.0 | 61 | | | 1656 | 2.5 | 76 | | | 1552 | 2.6 | 79 | |
| | 1943 | -0.1 | -3 | | | 1947 | 0.5 | 15 | | | 2130 | 0.0 | 0 | | | 2047 | 0.3 | 9 | | | 2255 | 0.0 | 0 | | | 2157 | -0.1 | -3 | |
| 9 Sa | 0205 | 2.9 | 88 | | 24 Su | 0216 | 2.2 | 67 | | 9 Tu | 0351 | 2.9 | 88 | | 24 W | 0313 | 2.5 | 76 | | 9 F | 0509 | 2.8 | 85 | | 24 Sa | 0415 | 3.0 | 91 | |
| | 0828 | 0.0 | 0 | | | 0837 | 0.5 | 15 | | | 1019 | -0.1 | -3 | | | 0935 | 0.2 | 6 | | | 1129 | 0.0 | 0 | | | 1031 | -0.3 | -9 | |
| | 1436 | 2.5 | 76 | | | 1432 | 1.9 | 58 | | | 1625 | 2.4 | 73 | | | 1535 | 2.2 | 67 | | | 1736 | 2.5 | 76 | | | 1639 | 2.9 | 88 | |
| | 2042 | -0.1 | -3 | | | 2035 | 0.4 | 12 | | | 2223 | -0.1 | -3 | | | 2136 | 0.2 | 6 | | | 2336 | 0.0 | 0 | | | 2247 | -0.3 | -9 | |
| 10 Su | 0304 | 3.0 | 91 | | 25 M | 0304 | 2.3 | 70 | | 10 W | 0442 | 2.9 | 88 | | 25 Th | 0359 | 2.7 | 82 | | 10 Sa | 0547 | 2.7 | 82 | | 25 Su | 0503 | 3.1 | 94 | |
| | 0930 | -0.1 | -3 | | | 0925 | 0.4 | 12 | | | 1108 | -0.2 | -6 | | | 1020 | 0.0 | 0 | | | 1204 | 0.0 | 0 | | | 1118 | -0.4 | -12 | |
| | 1536 | 2.5 | 76 | | | 1521 | 2.0 | 61 | | | 1713 | 2.5 | 76 | | | 1621 | 2.4 | 73 | | | 1812 | 2.5 | 76 | | | 1727 | 3.1 | 94 | |
| | 2138 | -0.1 | -3 | | | 2121 | 0.3 | 9 | | | 2311 | -0.1 | -3 | | | 2223 | 0.0 | 0 | | | 1812 | 2.5 | 76 | | | 2338 | -0.4 | -12 | |
| 11 M | 0400 | 3.0 | 91 | | 26 Tu | 0348 | 2.5 | 76 | | 11 Th | 0528 | 2.9 | 88 | | 26 F | 0444 | 2.9 | 88 | | 11 Su | 0014 | 0.1 | 3 | | 26 M | 0553 | 3.2 | 98 | |
| | 1027 | -0.2 | -6 | | | 1010 | 0.2 | 6 | | | 1152 | -0.1 | -3 | | | 1103 | -0.2 | -6 | | | 0623 | 2.7 | 82 | | | 1205 | -0.5 | -15 | |
| | 1632 | 2.5 | 76 | | | 1607 | 2.1 | 64 | | | 1757 | 2.5 | 76 | | | 1707 | 2.6 | 79 | | | 1238 | 0.1 | 3 | | | 1817 | 3.3 | 101 | |
| | 2232 | -0.2 | -6 | | | 2206 | 0.2 | 6 | | | 2355 | -0.1 | -3 | | | 2310 | -0.2 | -6 | | | 1847 | 2.5 | 76 | | | | | | |
| 12 Tu | 0453 | 3.1 | 94 | | 27 W | 0431 | 2.6 | 79 | | 12 F | 0611 | 2.9 | 88 | | 27 Sa | 0530 | 3.1 | 94 | | 12 M | 0051 | 0.1 | 3 | | 27 Tu | 0030 | -0.5 | -15 | |
| | 1120 | -0.2 | -6 | | | 1053 | 0.1 | 3 | | | 1233 | -0.1 | -3 | | | 1148 | -0.3 | -9 | | | 0658 | 2.6 | 79 | | | 0644 | 3.2 | 98 | |
| | 1725 | 2.5 | 76 | | | 1651 | 2.3 | 70 | | | 1838 | 2.5 | 76 | | | 1753 | 2.9 | 88 | | | 1311 | 0.1 | 3 | | | 1255 | -0.5 | -15 | |
| | 2323 | -0.2 | -6 | | | 2250 | 0.1 | 3 | | | | | | | | 2359 | -0.3 | -9 | | | 1922 | 2.5 | 76 | | | 1908 | 3.3 | 101 | |
| 13 W | 0542 | 3.1 | 94 | | 28 Th | 0514 | 2.8 | 85 | | 13 Sa | 0037 | 0.0 | 0 | | 28 Su | 0617 | 3.2 | 98 | | 13 Tu | 0129 | 0.2 | 6 | | 28 W | 0125 | -0.5 | -15 | |
| | 1209 | -0.3 | -9 | | | 1135 | -0.1 | -3 | | | 0651 | 2.8 | 85 | | | 1233 | -0.4 | -12 | | | 0734 | 2.5 | 76 | | | 0737 | 3.1 | 94 | |
| | 1814 | 2.5 | 76 | | | 1735 | 2.4 | 73 | | | 1311 | -0.1 | -3 | | | 1841 | 3.0 | 91 | | | 1345 | 0.2 | 6 | | | 1347 | -0.5 | -15 | |
| | | | | | | 2335 | -0.1 | -3 | | | 1918 | 2.5 | 76 | | | | | | | | 1958 | 2.5 | 76 | | | 2002 | 3.3 | 101 | |
| 14 Th | 0012 | -0.2 | -6 | | 29 F | 0557 | 3.0 | 91 | | 14 Su | 0118 | 0.0 | 0 | | 29 M | 0049 | -0.4 | -12 | | 14 W | 0208 | 0.2 | 6 | | 29 Th | 0222 | -0.5 | -15 | |
| | 0630 | 3.0 | 91 | | | 1218 | -0 | | | | | | | | | | | | | | | | | | | | | | |

Pago Pago, 2011

Times and Heights of High and Low Waters

| October | | | | November | | | | December | | | | | | | | | | | | | | | | | | | | | |
|-----------------|--------|------|----|----------|-----------------|------|------|----------|--------|-----------------|------|------|--------|------|-----------------|------|------|-----|------|-----------------|------|-----|----|------|-----------------|------|------|-----|--|
| Time | Height | | | Time | Height | | | Time | Height | | | Time | Height | | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | |
| 1 Sa | 0428 | -0.2 | -6 | | 16 Su | 0357 | 0.4 | 12 | | 1 Tu | 0621 | 0.0 | 0 | | 16 W | 0512 | 0.2 | 6 | | 1 Th | 0015 | 2.5 | 76 | | 16 F | 0534 | 0.1 | 3 | |
| | 1041 | 2.6 | 79 | | | 0958 | 2.0 | 61 | | | 1236 | 2.4 | 73 | | | 1119 | 2.1 | 64 | | | 0643 | 0.1 | 3 | | | 1148 | 2.5 | 76 | |
| | 1645 | -0.1 | -3 | | | 1555 | 0.5 | 15 | | | 1836 | 0.2 | 6 | | | 1717 | 0.4 | 12 | | | 1301 | 2.3 | 70 | | | 1754 | 0.3 | 9 | |
| | 2307 | 2.9 | 88 | | | 2221 | 2.2 | 67 | | | | | | | | 2339 | 2.4 | 73 | | | 1904 | 0.4 | 12 | | | | | | |
| 2 Su | 0538 | -0.1 | -3 | | 17 M | 0450 | 0.4 | 12 | | 2 W | 0054 | 2.6 | 79 | | 17 Th | 0606 | 0.2 | 6 | | 2 F | 0113 | 2.4 | 73 | | 17 Sa | 0009 | 2.6 | 79 | |
| | 1151 | 2.4 | 73 | | | 1052 | 1.9 | 58 | | | 0723 | 0.0 | 0 | | | 1216 | 2.2 | 67 | | | 0737 | 0.2 | 6 | | | 0629 | 0.1 | 3 | |
| | 1753 | 0.0 | 0 | | | 1648 | 0.5 | 15 | | | 1338 | 2.4 | 73 | | | 1818 | 0.4 | 12 | | | 1356 | 2.3 | 70 | | | 1246 | 2.6 | 79 | |
| | | | | 2316 | | 2.2 | 67 | | 1939 | | 0.2 | 6 | | | | | | | 2001 | | 0.4 | 12 | | 1859 | | 0.2 | 6 | | |
| 3 M | 0015 | 2.8 | 85 | | 18 Tu | 0546 | 0.4 | 12 | | 3 Th | 0153 | 2.6 | 79 | | 18 F | 0036 | 2.5 | 76 | | 3 Sa | 0207 | 2.3 | 70 | | 18 Su | 0110 | 2.6 | 79 | |
| | 0647 | -0.1 | -3 | | | 1150 | 2.0 | 61 | | | 0819 | 0.1 | 3 | | | 0700 | 0.1 | 3 | | | 0825 | 0.3 | 9 | | | 0726 | 0.0 | 0 | |
| | 1300 | 2.4 | 73 | | | 1747 | 0.5 | 15 | | | 1434 | 2.4 | 73 | | | 1312 | 2.4 | 73 | | | 1445 | 2.4 | 73 | | | 1345 | 2.7 | 82 | |
| 1902 | 0.1 | 3 | | | | | | | 2036 | | 0.2 | 6 | | 1919 | | 0.3 | 9 | | 2054 | | 0.4 | 12 | | 2003 | | 0.1 | 3 | | |
| 4 Tu | 0122 | 2.7 | 82 | | 19 W | 0013 | 2.3 | 70 | | 4 F | 0247 | 2.5 | 76 | | 19 Sa | 0134 | 2.6 | 79 | | 4 Su | 0256 | 2.2 | 67 | | 19 M | 0212 | 2.6 | 79 | |
| | 0753 | 0.0 | 0 | | | 0641 | 0.3 | 9 | | | 0907 | 0.1 | 3 | | | 0753 | 0.0 | 0 | | | 0908 | 0.3 | 9 | | | 0823 | -0.1 | -3 | |
| | 1405 | 2.4 | 73 | | | 1247 | 2.1 | 64 | | | 1522 | 2.4 | 73 | | | 1407 | 2.7 | 82 | | | 1529 | 2.4 | 73 | | | 1443 | 2.9 | 88 | |
| | 2005 | 0.1 | 3 | | | 1847 | 0.4 | 12 | | | 2126 | 0.2 | 6 | | | 2019 | 0.1 | 3 | | | 2140 | 0.4 | 12 | | | 2104 | -0.1 | -3 | |
| 5 W | 0223 | 2.7 | 82 | | 20 Th | 0110 | 2.4 | 73 | | 5 Sa | 0333 | 2.4 | 73 | | 20 Su | 0231 | 2.7 | 82 | | 5 M | 0340 | 2.2 | 67 | | 20 Tu | 0312 | 2.6 | 79 | |
| | 0851 | 0.0 | 0 | | | 0734 | 0.2 | 6 | | | 0948 | 0.2 | 6 | | | 0845 | -0.1 | -3 | | | 0947 | 0.3 | 9 | | | 0919 | -0.2 | -6 | |
| | 1502 | 2.4 | 73 | | | 1342 | 2.3 | 70 | | | 1603 | 2.5 | 76 | | | 1501 | 2.9 | 88 | | | 1608 | 2.5 | 76 | | | 1539 | 3.1 | 94 | |
| | 2102 | 0.1 | 3 | | | 1945 | 0.3 | 9 | | | 2210 | 0.2 | 6 | | | 2116 | -0.1 | -3 | | | 2223 | 0.3 | 9 | | | 2203 | -0.2 | -6 | |
| 6 Th | 0317 | 2.7 | 82 | | 21 F | 0204 | 2.6 | 79 | | 6 Su | 0414 | 2.4 | 73 | | 21 M | 0327 | 2.8 | 85 | | 6 Tu | 0421 | 2.2 | 67 | | 21 W | 0410 | 2.7 | 82 | |
| | 0940 | 0.0 | 0 | | | 0825 | 0.1 | 3 | | | 1025 | 0.2 | 6 | | | 0937 | -0.3 | -9 | | | 1024 | 0.3 | 9 | | | 1013 | -0.3 | -9 | |
| | 1551 | 2.5 | 76 | | | 1434 | 2.5 | 76 | | | 1640 | 2.5 | 76 | | | 1554 | 3.1 | 94 | | | 1645 | 2.5 | 76 | | | 1634 | 3.2 | 98 | |
| | 2152 | 0.1 | 3 | | | 2040 | 0.1 | 3 | | | 2249 | 0.2 | 6 | | | 2213 | -0.3 | -9 | | | 2302 | 0.2 | 6 | | | 2259 | -0.4 | -12 | |
| 7 F | 0404 | 2.6 | 79 | | 22 Sa | 0257 | 2.8 | 85 | | 7 M | 0451 | 2.4 | 73 | | 22 Tu | 0422 | 2.9 | 88 | | 7 W | 0459 | 2.2 | 67 | | 22 Th | 0505 | 2.7 | 82 | |
| | 1023 | 0.0 | 0 | | | 0914 | -0.1 | -3 | | | 1058 | 0.2 | 6 | | | 1029 | -0.4 | -12 | | | 1100 | 0.3 | 9 | | | 1107 | -0.4 | -12 | |
| | 1632 | 2.5 | 76 | | | 1524 | 2.8 | 85 | | | 1714 | 2.5 | 76 | | | 1646 | 3.3 | 101 | | | 1721 | 2.6 | 79 | | | 1727 | 3.3 | 101 | |
| | 2235 | 0.1 | 3 | | | 2134 | -0.1 | -3 | | | 2326 | 0.2 | 6 | | | 2308 | -0.4 | -12 | | | 2340 | 0.2 | 6 | | | 2353 | -0.4 | -12 | |
| 8 Sa | 0444 | 2.6 | 79 | | 23 Su | 0348 | 2.9 | 88 | | 8 Tu | 0527 | 2.3 | 70 | | 23 W | 0516 | 2.9 | 88 | | 8 Th | 0538 | 2.2 | 67 | | 23 F | 0559 | 2.7 | 82 | |
| | 1059 | 0.1 | 3 | | | 1002 | -0.3 | -9 | | | 1130 | 0.2 | 6 | | | 1121 | -0.5 | -15 | | | 1136 | 0.2 | 6 | | | 1200 | -0.4 | -12 | |
| | 1709 | 2.5 | 76 | | | 1614 | 3.0 | 91 | | | 1748 | 2.6 | 79 | | | 1739 | 3.4 | 104 | | | 1758 | 2.6 | 79 | | | 1819 | 3.3 | 101 | |
| | 2314 | 0.1 | 3 | | | 2227 | -0.3 | -9 | | | | | | | | | | | | | | | | | | | | | |
| 9 Su | 0520 | 2.5 | 76 | | 24 M | 0440 | 3.0 | 91 | | 9 W | 0003 | 0.2 | 6 | | 24 Th | 0002 | -0.5 | -15 | | 9 F | 0019 | 0.1 | 3 | | 24 Sa | 0045 | -0.5 | -15 | |
| | 1132 | 0.1 | 3 | | | 1051 | -0.4 | -12 | | | 0602 | 2.3 | 70 | | | 0611 | 2.9 | 88 | | | 0617 | 2.2 | 67 | | | 0652 | 2.7 | 82 | |
| | 1743 | 2.6 | 79 | | | 1704 | 3.2 | 98 | | | 1204 | 0.2 | 6 | | | 1214 | -0.5 | -15 | | | 1214 | 0.2 | 6 | | | 1252 | -0.4 | -12 | |
| | 2350 | 0.1 | 3 | | | 2321 | -0.5 | -15 | | | 1823 | 2.6 | 79 | | | 1832 | 3.4 | 104 | | | 1836 | 2.6 | 79 | | | 1910 | 3.3 | 101 | |
| 10 M | 0555 | 2.5 | 76 | | 25 Tu | 0532 | 3.1 | 94 | | 10 Th | 0041 | 0.1 | 3 | | 25 F | 0057 | -0.6 | -18 | | 10 Sa | 0058 | 0.1 | 3 | | 25 Su | 0137 | -0.4 | -12 | |
| | 1203 | 0.2 | 6 | | | 1141 | -0.5 | -15 | | | 0640 | 2.2 | 67 | | | 0706 | 2.8 | 85 | | | 0657 | 2.2 | 67 | | | 0744 | 2.7 | 82 | |
| | 1816 | 2.6 | 79 | | | 1756 | 3.4 | 104 | | | 1239 | 0.2 | 6 | | | 1307 | -0.4 | -12 | | | 1253 | 0.2 | 6 | | | 1343 | -0.3 | -9 | |
| | | | | | | | | | | | 1859 | 2.6 | 79 | | | 1926 | 3.4 | 104 | | | 1915 | 2.7 | 82 | | | 2001 | 3.2 | 98 | |
| 11 Tu | 0026 | 0.1 | 3 | | 26 W | 0015 | -0.6 | -18 | | 11 F | 0120 | 0.1 | 3 | | 26 Sa | 0153 | -0.5 | -15 | | 11 Su | 0139 | 0.0 | 0 | | 26 M | 0228 | -0.3 | -9 | |
| | 0629 | 2.4 | 73 | | | 0625 | 3.1 | 94 | | | 0719 | 2.2 | 67 | | | 0802 | 2.7 | 82 | | | 0738 | 2.2 | 67 | | | 0837 | 2.6 | 79 | |
| | 1235 | 0.2 | 6 | | | 1232 | -0.5 | -15 | | | 1317 | 0.2 | 6 | | | 1402 | -0.3 | -9 | | | 1334 | 0.2 | 6 | | | 1436 | -0.1 | -3 | |
| | 1850 | 2.6 | 79 | | | 1848 | 3.4 | 104 | | | 1938 | 2.5 | 76 | | | 2021 | 3.2 | 98 | | | 1956 | 2.7 | 82 | | | 2052 | 3.0 | 91 | |
| 12 W | 0103 | 0.2 | 6 | | 27 Th | 0110 | -0.6 | -18 | | 12 Sa | 0201 | 0.1 | 3 | | 27 Su | 0249 | -0.4 | -12 | | 12 M | 0221 | 0.0 | 0 | | 27 Tu | 0318 | -0.2 | -6 | |
| | 0705 | 2.3 | 70 | | | 0720 | 3.0 | 91 | | | 0801 | 2.1 | 64 | | | 0859 | 2.6 | 79 | | | 0822 | 2.2 | 67 | | | 0929 | 2.5 | 76 | |
| | 1309 | 0.2 | 6 | | | 1325 | -0.5 | -15 | | | 1357 | 0.3 | 9 | | | 1459 | -0.2 | -6 | | | 1417 | 0.2 | 6 | | | 1529 | 0.0 | 0 | |
| | 1926 | 2.5 | 76 | | | 1943 | 3.4 | 104 | | | 2019 | 2.5 | 76 | | | 2118 | 3.1 | 94 | | | 2039 | 2.7 | 82 | | | 2143 | 2.8 | 85 | |
| 13 Th | 0142 | 0.2 | 6 | | 28 F | 0207 | -0.5 | -15 | | 13 Su | 0245 | 0.2 | 6 | | 28 M | 0347 | -0.3 | -9 | | 13 Tu | 0305 | 0.0 | 0 | | 28 W | 0409 | 0.0 | 0 | |
| | 0743 | 2.3 | 70 | | | 0818 | 2.8 | 85 | | | 0845 | 2.1 | 64 | | | 0959 | 2.5 | 76 | | | 0908 | 2.3 | 70 | | | 1023 | 2.4 | 73 | |
| | 1345 | 0.3 | 9 | | | 1421 | -0.4 | -12 | | | 1440 | 0.4 | 12 | | | 1558 | 0.0 | 0 | | | 1504 | 0.3 | 9 | | | 1623 | 0.2 | 6 | |
| | 2004 | 2.4 | 73 | | | 2040 | 3.3 | 101 | | | 2103 | 2.4 | 73 | | | 2216 | 2.9 | 88 | | | 2125 | 2.6 | 79 | | | 2236 | 2.6 | 79 | |
| 14 F | 0224 | 0.2 | 6 | | 29 Sa | 0307 | -0.4 | -12 | | 14 M | 0331 | 0.2 | 6 | | 29 Tu | 0446 | -0.1 | -3 | | 14 W | 0352 | 0.1 | 3 | | 29 Th | 0501 | 0.1 | 3 | |
| | 0824 | 2.1 | 64 | | | 0919 | 2.7 | 82 | | | 0933 | 2.1 | | | | | | | | | | | | | | | | | |

Wellington, New Zealand, 2011

Times and Heights of High and Low Waters

| April | | | | May | | | | June | | | | | | | | | | | | | | | | |
|-----------------|------|--------|-----|-----------------|------|--------|------|-----------------|------|--------|------|-----------------|------|--------|------|-----------------|------|------|------|-----------------|----------------|------|-----|------|
| Time | | Height | | Time | | Height | | Time | | Height | | Time | | Height | | | | | | | | | | |
| | h m | ft | cm | | h m | ft | cm | | h m | ft | cm | | h m | ft | cm | | | | | | | | | |
| 1 F | 0300 | 4.9 | 150 | 16 Sa | 0219 | 5.6 | 170 | 1 Su | 0313 | 4.9 | 150 | 16 M | 0302 | 5.6 | 170 | 1 W | 0414 | 4.6 | 140 | | | | | |
| | 0912 | 2.3 | 70 | | 0826 | 1.6 | 50 | | 0921 | 2.3 | 70 | | 0908 | 1.6 | 50 | | 1017 | 2.3 | 70 | 16 Th | 0443 | 5.2 | 160 | |
| | 1523 | 4.9 | 150 | | 1448 | 5.6 | 170 | | 1536 | 4.9 | 150 | | 1532 | 5.6 | 170 | | 1630 | 4.9 | 150 | | 1708 | 5.6 | 170 | |
| | 2127 | 2.3 | 70 | | 2101 | 1.6 | 50 | | 2144 | 2.3 | 70 | | 2150 | 1.6 | 50 | | 2249 | 2.3 | 70 | | ○ | 2336 | 1.6 | 50 |
| 2 Sa | 0345 | 4.9 | 150 | 17 Su | 0317 | 5.6 | 170 | 2 M | 0359 | 4.6 | 140 | 17 Tu | 0402 | 5.6 | 170 | 2 Th | 0502 | 4.6 | 140 | | 17 F | 0539 | 5.2 | 160 |
| | 0958 | 2.3 | 70 | | 0925 | 1.6 | 50 | | 1008 | 2.3 | 70 | | 1009 | 1.6 | 50 | | 1105 | 2.3 | 70 | ● | | 1146 | 1.6 | 50 |
| | 1610 | 4.9 | 150 | | 1548 | 5.6 | 170 | | 1621 | 4.9 | 150 | | 1630 | 5.9 | 180 | | 1715 | 5.2 | 160 | 1803 | | 5.6 | 170 | |
| | 2214 | 2.3 | 70 | | 2204 | 1.6 | 50 | | 2233 | 2.3 | 70 | | ○ | 2253 | 1.6 | | 50 | ● | 2340 | 2.3 | | 70 | ○ | 2336 | 1.6 | 50 |
| 3 Su | 0431 | 4.9 | 150 | 18 M | 0418 | 5.6 | 170 | 3 Tu | 0447 | 4.6 | 140 | 18 W | 0501 | 5.6 | 170 | 3 F | 0551 | 4.6 | 140 | 18 Sa | 0634 | 1.6 | 50 | |
| | 1047 | 2.3 | 70 | | 1028 | 1.6 | 50 | | 1056 | 2.3 | 70 | | 1110 | 1.6 | 50 | | 1153 | 2.3 | 70 | | 0633 | 5.2 | 160 | |
| | 1656 | 4.9 | 150 | | 1649 | 5.6 | 170 | | 1706 | 4.9 | 150 | | 1728 | 5.9 | 180 | | 1802 | 5.2 | 160 | | 1240 | 1.6 | 50 | |
| | 2304 | 2.3 | 70 | | ○ | 2308 | 1.6 | | 50 | ● | 2324 | | 2.3 | 70 | ● | | 2355 | 1.6 | 50 | | 1856 | 5.6 | 170 | |
| 4 M | 0519 | 4.6 | 140 | 19 Tu | 0519 | 5.6 | 170 | 4 W | 0536 | 4.6 | 140 | 19 Th | 0600 | 5.6 | 170 | 4 Sa | 0632 | 2.3 | 70 | 19 Su | 0726 | 5.2 | 160 | |
| | 1137 | 2.6 | 80 | | 1132 | 1.6 | 50 | | 1145 | 2.3 | 70 | | 1209 | 1.6 | 50 | | 1241 | 2.3 | 70 | | 0726 | 5.2 | 160 | |
| | 1742 | 4.9 | 150 | | 1748 | 5.9 | 180 | | 1751 | 4.9 | 150 | | 1825 | 5.9 | 180 | | 1849 | 5.2 | 160 | | 1241 | 2.0 | 60 | |
| | ● | 2356 | 2.3 | | 70 | ○ | 2356 | | 2.3 | 70 | ○ | | 2356 | 2.3 | 70 | | ○ | 2356 | 2.3 | | 70 | 1949 | 5.6 | 170 |
| 5 Tu | 0608 | 4.6 | 140 | 20 W | 0613 | 1.3 | 40 | 5 Th | 0615 | 2.3 | 70 | 20 F | 0656 | 1.6 | 50 | 5 Su | 0726 | 4.9 | 150 | 20 M | 0817 | 5.2 | 160 | |
| | 1226 | 2.6 | 80 | | 0620 | 5.6 | 170 | | 0624 | 4.6 | 140 | | 0657 | 5.2 | 160 | | 0726 | 4.9 | 150 | | 0817 | 5.2 | 160 | |
| | 1828 | 4.9 | 150 | | 1234 | 1.6 | 50 | | 1232 | 2.3 | 70 | | 1306 | 1.6 | 50 | | 1330 | 2.0 | 60 | | 1426 | 2.0 | 60 | |
| | ○ | 1847 | 5.9 | | 180 | 1847 | 5.9 | | 180 | 1836 | 4.9 | | 150 | 1921 | 5.9 | | 180 | 1938 | 5.2 | | 160 | 2041 | 5.2 | 160 |
| 6 W | 0048 | 2.3 | 70 | 21 Th | 0116 | 1.3 | 40 | 6 F | 0106 | 2.3 | 70 | 21 Sa | 0154 | 1.6 | 50 | 6 M | 0212 | 2.0 | 60 | 21 Tu | 0313 | 2.0 | 60 | |
| | 0657 | 4.6 | 140 | | 0719 | 5.6 | 170 | | 0711 | 4.6 | 140 | | 0752 | 5.2 | 160 | | 0813 | 4.9 | 150 | | 0907 | 5.2 | 160 | |
| | 1313 | 2.6 | 80 | | 1333 | 1.6 | 50 | | 1318 | 2.3 | 70 | | 1402 | 1.6 | 50 | | 1419 | 2.0 | 60 | | 1517 | 2.0 | 60 | |
| | 1913 | 4.9 | 150 | | 1945 | 5.9 | 180 | | 1922 | 4.9 | 150 | | 2016 | 5.6 | 170 | | 2028 | 5.2 | 160 | | 2132 | 5.2 | 160 | |
| 7 Th | 0138 | 2.3 | 70 | 22 F | 0216 | 1.3 | 40 | 7 Sa | 0155 | 2.3 | 70 | 22 Su | 0249 | 1.6 | 50 | 7 Tu | 0301 | 2.0 | 60 | 22 W | 0400 | 2.0 | 60 | |
| | 0743 | 4.6 | 140 | | 0816 | 5.6 | 170 | | 0757 | 4.9 | 150 | | 0845 | 5.2 | 160 | | 0901 | 4.9 | 150 | | 0955 | 5.2 | 160 | |
| | 1357 | 2.3 | 70 | | 1429 | 1.6 | 50 | | 1403 | 2.3 | 70 | | 1455 | 1.6 | 50 | | 1509 | 2.0 | 60 | | 1606 | 2.0 | 60 | |
| | 1957 | 4.9 | 150 | | 2042 | 5.9 | 180 | | 2007 | 5.2 | 160 | | 2111 | 5.6 | 170 | | 2119 | 5.6 | 170 | | 2221 | 5.2 | 160 | |
| 8 F | 0226 | 2.3 | 70 | 23 Sa | 0314 | 1.6 | 50 | 8 Su | 0242 | 2.3 | 70 | 23 M | 0341 | 1.6 | 50 | 8 W | 0348 | 2.0 | 60 | 23 Th | 0445 | 2.0 | 60 | |
| | 0828 | 4.6 | 140 | | 0911 | 5.6 | 170 | | 0841 | 4.9 | 150 | | 0936 | 5.2 | 160 | | 0949 | 5.2 | 160 | | 1043 | 4.9 | 150 | |
| | 1439 | 2.3 | 70 | | 1524 | 1.6 | 50 | | 1447 | 2.3 | 70 | | 1547 | 2.0 | 60 | | 1601 | 2.0 | 60 | | 1655 | 2.3 | 70 | |
| | 2040 | 4.9 | 150 | | 2138 | 5.6 | 170 | | 2054 | 5.2 | 160 | | 2203 | 5.6 | 170 | | 2211 | 5.6 | 170 | | ○ | 2308 | 4.9 | 150 |
| 9 Sa | 0311 | 2.3 | 70 | 24 Su | 0408 | 1.6 | 50 | 9 M | 0326 | 2.0 | 60 | 24 Tu | 0430 | 1.6 | 50 | 9 Th | 0435 | 1.6 | 50 | 24 F | 0527 | 2.0 | 60 | |
| | 0911 | 4.9 | 150 | | 1004 | 5.2 | 160 | | 0925 | 4.9 | 150 | | 1026 | 5.2 | 160 | | 1039 | 5.2 | 160 | | 1129 | 4.9 | 150 | |
| | 1520 | 2.3 | 70 | | 1616 | 1.6 | 50 | | 1532 | 2.0 | 60 | | 1637 | 2.0 | 60 | | 1654 | 1.6 | 50 | | 1741 | 2.3 | 70 | |
| | 2124 | 5.2 | 160 | | 2232 | 5.6 | 170 | | 2141 | 5.2 | 160 | | 2254 | 5.2 | 160 | | ○ | 2304 | 5.6 | | 170 | 2353 | 4.9 | 150 |
| 10 Su | 0353 | 2.0 | 60 | 25 M | 0458 | 1.6 | 50 | 10 Tu | 0410 | 2.0 | 60 | 25 W | 0516 | 2.0 | 60 | 10 F | 0523 | 1.6 | 50 | 25 Sa | 0608 | 2.3 | 70 | |
| | 0952 | 4.9 | 150 | | 1055 | 5.2 | 160 | | 1010 | 4.9 | 150 | | 1115 | 5.2 | 160 | | 1132 | 5.2 | 160 | | 1214 | 4.9 | 150 | |
| | 1601 | 2.3 | 70 | | 1706 | 2.0 | 60 | | 1619 | 2.0 | 60 | | 1725 | 2.0 | 60 | | 1748 | 1.6 | 50 | | 1825 | 2.3 | 70 | |
| | 2208 | 5.2 | 160 | | ○ | 2324 | 5.6 | | 170 | 2230 | 5.6 | | 170 | ○ | 2342 | | 5.2 | 160 | ○ | | 2358 | 5.6 | 170 | |
| 11 M | 0434 | 2.0 | 60 | 26 Tu | 0546 | 1.6 | 50 | 11 W | 0454 | 2.0 | 60 | 26 Th | 0600 | 2.0 | 60 | 11 Sa | 0613 | 1.6 | 50 | 26 Su | 0637 | 4.9 | 150 | |
| | 1034 | 4.9 | 150 | | 1144 | 5.2 | 160 | | 1057 | 5.2 | 160 | | 1202 | 4.9 | 150 | | 1226 | 5.6 | 170 | | 0648 | 2.3 | 70 | |
| | 1643 | 2.0 | 60 | | 1755 | 2.0 | 60 | | 1708 | 2.0 | 60 | | 1812 | 2.3 | 70 | | 1844 | 1.6 | 50 | | 1258 | 4.9 | 150 | |
| | 2253 | 5.2 | 160 | | ○ | 2321 | 5.6 | | 170 | ○ | 2321 | | 5.6 | 170 | ○ | | 2321 | 5.6 | 170 | | 1908 | 2.3 | 70 | |
| 12 Tu | 0515 | 2.0 | 60 | 27 W | 0614 | 5.2 | 160 | 12 Th | 0539 | 1.6 | 50 | 27 F | 0641 | 2.0 | 60 | 12 Su | 0654 | 5.6 | 170 | 27 M | 0728 | 2.3 | 70 | |
| | 1118 | 4.9 | 150 | | 0630 | 2.0 | 60 | | 1146 | 5.2 | 160 | | 1248 | 4.9 | 150 | | 1323 | 5.6 | 170 | | 1341 | 4.9 | 150 | |
| | 1727 | 2.0 | 60 | | 1232 | 5.2 | 160 | | 1759 | 1.6 | 50 | | 1857 | 2.3 | 70 | | 1941 | 1.6 | 50 | | 1951 | 2.3 | 70 | |
| | ○ | 2341 | 5.6 | | 170 | 1842 | 2.0 | | 60 | ○ | 2341 | | 5.6 | 170 | ○ | | 2341 | 5.6 | 170 | | ○ | 2341 | 5.6 | 170 |
| 13 W | 0558 | 2.0 | 60 | 28 Th | 0100 | 5.2 | 160 | 13 F | 0613 | 5.6 | 170 | 28 Sa | 0722 | 2.3 | 70 | 13 M | 0758 | 1.6 | 50 | 28 Tu | 0809 | 2.3 | 70 | |
| | 1205 | 5.2 | 160 | | 0713 | 2.0 | 60 | | 0626 | 1.6 | 50 | | 0722 | 2.3 | 70 | | 1420 | 5.6 | 170 | | 2035 | 2.3 | 70 | |
| | 1815 | 1.6 | 50 | | 1319 | 4.9 | 150 | | 1239 | 5.2 | 160 | | 1333 | 4.9 | 150 | | 2039 | 1.6 | 50 | | 2035 | 2.3 | 70 | |
| | ○ | 1815 | 1.6 | | 50 | 1927 | 2.3 | | 70 | 1853 | 1.6 | | 50 | 1941 | 2.3 | | 70 | ○ | 2039 | | 1.6 | 50 | ○ | 2039 |
| 14 Th | 0031 | 5.6 | 170 | 29 F | 0145 | 4.9 | 150 | 14 Sa | 0107 | 5.6 | 170 | 29 Su | 0156 | 4.9 | 150 | 14 Tu | 0248 | 5.2 | 160 | 29 W | 0249 | 4.6 | 140 | |
| | 0644 | 1.6 | 50 | | 0755 | 2.3 | 70 | | 0716 | 1.6 | 50 | | 0803 | 2.3 | 70 | | 0854 | 1.6 | 50 | | 0853 | 2.3 | 70 | |
| | 1255 | 5.2 | 160 | | 1405 | 4.9 | 150 | | 1334 | 5.6 | 170 | | 1417 | 4.9 | 150 | | 1517 | 5.6 | 170 | | 1509 | 5.2 | 160 | |
| | 1906 | 1.6 | 50 | | 2012 | 2.3 | 70 | | 1950 | 1.6 | 50 | | 2025 | 2.3 | 70 | | 2138 | 1.6 | 50 | | 2122 | 2.3 | 70 | |
| 15 F | 0123 | 5.6 | 170 | 30 Sa | 0229 | 4.9 | 150 | 15 Su | 0203 | 5.6 | 170 | 30 M | 0240 | 4.6 | 140 | 15 W | 0346 | 5.2 | 160 | 30 Th | 0337 | 4.6 | 140 | |
| | 0733 | 1.6 | 50 | | 0837 | 2.3 | 70 | | 0810 | 1.6 | 50 | | 0845 | 2.3 | 70 | | 0952 | 1.6 | 50 | | 0939 | 2.3 | 70 | |
| | 1349 | 5.2 | 160 | | 1451 | 4.9 | 150 | | 1432 | 5.6 | 170 | | 1501 | 4.9 | 150 | | 1613 | 5.9 | 180 | | 1554 | 5.2 | 160 | |
| | 2002 | 1.6 | 50 | | 2057 | 2.3 | 70 | | 2049 | 1.6 | 50 | | 2111 | 2 | | | | | | | | | | |

Wellington, New Zealand, 2011

Times and Heights of High and Low Waters

| July | | | | August | | | | September | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|--------|-----|-----|--------|-----------------|------|-----|-----------|--------|-----------------|------|------|--------|----|-----------------|------|-----|-----|----|-----------------|------|------|-----|-----|-----------------|------|------|-----|-----|--|
| Time | Height | | | Time | Height | | | Time | Height | | | Time | Height | | | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | | |
| 1 F | 0426 | 4.9 | 150 | | 16 Sa | 0517 | 5.2 | 160 | | 1 M | 0536 | 5.2 | 160 | | 16 Tu | 0034 | 2.3 | 70 | | 1 Th | 0053 | 1.6 | 50 | | 16 F | 0137 | 2.3 | 70 | | |
| | 1028 | 2.3 | 70 | | | 1122 | 2.0 | 60 | | | 1142 | 1.6 | 50 | | | 0632 | 4.9 | 150 | | | | 0702 | 5.6 | 170 | | | 0735 | 4.9 | 150 | |
| | 1641 | 5.2 | 160 | | | 1740 | 5.6 | 170 | | | 1756 | 5.6 | 170 | | | 1241 | 2.3 | 70 | | | | 1321 | 1.3 | 40 | | | 1355 | 2.3 | 70 | |
| ● | 2303 | 2.3 | 70 | | | | | | | | | | | | | 1855 | 4.9 | 150 | | | | 1930 | 5.6 | 170 | | | 2002 | 4.9 | 150 | |
| 2 Sa | 0516 | 4.9 | 150 | | 17 Su | 0009 | 2.0 | 60 | | 2 Tu | 0021 | 2.0 | 60 | | 17 W | 0123 | 2.3 | 70 | | 2 F | 0151 | 1.6 | 50 | | 17 Sa | 0221 | 2.3 | 70 | | |
| | 1118 | 2.0 | 60 | | | 0609 | 5.2 | 160 | | | 0630 | 5.2 | 160 | | | 0720 | 4.9 | 150 | | | | 0759 | 5.6 | 170 | | | 0819 | 4.9 | 150 | |
| | 1730 | 5.2 | 160 | | | 1215 | 2.0 | 60 | | | 1240 | 1.6 | 50 | | | 1331 | 2.3 | 70 | | | | 1422 | 1.3 | 40 | | | 1442 | 2.3 | 70 | |
| | 2357 | 2.0 | 60 | | | 1831 | 5.2 | 160 | | | 1851 | 5.6 | 170 | | | 1943 | 4.9 | 150 | | | | 2028 | 5.6 | 170 | | | 2047 | 4.9 | 150 | |
| 3 Su | 0607 | 4.9 | 150 | | 18 M | 0102 | 2.0 | 60 | | 3 W | 0118 | 2.0 | 60 | | 18 Th | 0210 | 2.3 | 70 | | 3 Sa | 0247 | 1.6 | 50 | | 18 Su | 0302 | 2.3 | 70 | | |
| | 1209 | 2.0 | 60 | | | 0659 | 5.2 | 160 | | | 0724 | 5.2 | 160 | | | 0806 | 4.9 | 150 | | | | 0855 | 5.9 | 180 | | | 0901 | 4.9 | 150 | |
| | 1821 | 5.6 | 170 | | | 1307 | 2.0 | 60 | | | 1338 | 1.6 | 50 | | | 1421 | 2.3 | 70 | | | | 1521 | 1.3 | 40 | | | 1526 | 2.3 | 70 | |
| | | | | | | 1922 | 5.2 | 160 | | | 1948 | 5.6 | 170 | | | 2031 | 4.9 | 150 | | | | 2125 | 5.6 | 170 | | | 2129 | 4.9 | 150 | |
| 4 M | 0051 | 2.0 | 60 | | 19 Tu | 0153 | 2.0 | 60 | | 4 Th | 0213 | 1.6 | 50 | | 19 F | 0255 | 2.3 | 70 | | 4 Su | 0342 | 1.6 | 50 | | 19 M | 0341 | 2.3 | 70 | | |
| | 0657 | 4.9 | 150 | | | 0748 | 4.9 | 150 | | | 0818 | 5.6 | 170 | | | 0852 | 4.9 | 150 | | | | 0952 | 5.9 | 180 | | | 0943 | 4.9 | 150 | |
| | 1302 | 2.0 | 60 | | | 1358 | 2.0 | 60 | | | 1436 | 1.6 | 50 | | | 1509 | 2.3 | 70 | | | | 1618 | 1.3 | 40 | | | 1608 | 2.3 | 70 | |
| | 1913 | 5.6 | 170 | | | 2012 | 5.2 | 160 | | | 2044 | 5.6 | 170 | | | 2117 | 4.9 | 150 | | | | 2220 | 5.6 | 170 | | | 2209 | 4.9 | 150 | |
| 5 Tu | 0144 | 2.0 | 60 | | 20 W | 0242 | 2.0 | 60 | | 5 F | 0308 | 1.6 | 50 | | 20 Sa | 0337 | 2.3 | 70 | | 5 M | 0435 | 1.6 | 50 | | 20 Tu | 0420 | 2.3 | 70 | | |
| | 0747 | 5.2 | 160 | | | 0837 | 4.9 | 150 | | | 0913 | 5.6 | 170 | | | 0936 | 4.9 | 150 | | | | 1049 | 5.9 | 180 | | | 1024 | 5.2 | 160 | |
| | 1356 | 2.0 | 60 | | | 1448 | 2.3 | 70 | | | 1534 | 1.6 | 50 | | | 1555 | 2.3 | 70 | | | | 1714 | 1.3 | 40 | | | 1648 | 2.3 | 70 | |
| | 2007 | 5.6 | 170 | | | 2101 | 4.9 | 150 | | | 2141 | 5.6 | 170 | | | 2200 | 4.9 | 150 | | ● | 2315 | 5.6 | 170 | | | 2248 | 4.9 | 150 | | |
| 6 W | 0236 | 2.0 | 60 | | 21 Th | 0328 | 2.0 | 60 | | 6 Sa | 0401 | 1.6 | 50 | | 21 Su | 0417 | 2.3 | 70 | | 6 Tu | 0528 | 1.6 | 50 | | 21 W | 0458 | 2.3 | 70 | | |
| | 0839 | 5.2 | 160 | | | 0924 | 4.9 | 150 | | | 1009 | 5.6 | 170 | | | 1019 | 4.9 | 150 | | | | 1145 | 5.9 | 180 | | | 1106 | 5.2 | 160 | |
| | 1451 | 1.6 | 50 | | | 1537 | 2.3 | 70 | | ● | 1632 | 1.6 | 50 | | | 1638 | 2.3 | 70 | | | | 1808 | 1.6 | 50 | | ● | 1727 | 2.0 | 60 | |
| | 2101 | 5.6 | 170 | | | 2148 | 4.9 | 150 | | | 2237 | 5.6 | 170 | | | 2242 | 4.9 | 150 | | | | | | | ● | 2329 | 4.9 | 150 | | |
| 7 Th | 0328 | 1.6 | 50 | | 22 F | 0411 | 2.0 | 60 | | 7 Su | 0453 | 1.6 | 50 | | 22 M | 0456 | 2.3 | 70 | | 7 W | 0009 | 5.6 | 170 | | 22 Th | 0538 | 2.0 | 60 | | |
| | 0931 | 5.2 | 160 | | | 1010 | 4.9 | 150 | | | 1105 | 5.6 | 170 | | | 1100 | 4.9 | 150 | | | | 0621 | 1.6 | 50 | | | 1149 | 5.2 | 160 | |
| | 1547 | 1.6 | 50 | | | 1624 | 2.3 | 70 | | | 1729 | 1.6 | 50 | | ● | 1719 | 2.3 | 70 | | | | 1240 | 5.6 | 170 | | | 1807 | 2.0 | 60 | |
| | 2156 | 5.6 | 170 | | | 2234 | 4.9 | 150 | | | 2332 | 5.6 | 170 | | | 2323 | 4.9 | 150 | | | | 1900 | 1.6 | 50 | | | | | | |
| 8 F | 0418 | 1.6 | 50 | | 23 Sa | 0453 | 2.3 | 70 | | 8 M | 0546 | 1.6 | 50 | | 23 Tu | 0534 | 2.3 | 70 | | 8 Th | 0102 | 5.2 | 160 | | 23 F | 0012 | 4.9 | 150 | | |
| | 1024 | 5.6 | 170 | | | 1054 | 4.9 | 150 | | | 1202 | 5.6 | 170 | | | 1142 | 4.9 | 150 | | | | 0713 | 1.6 | 50 | | | 0621 | 2.0 | 60 | |
| | 1643 | 1.6 | 50 | | ● | 1709 | 2.3 | 70 | | | 1824 | 1.6 | 50 | | | 1759 | 2.3 | 70 | | | | 1333 | 5.6 | 170 | | | 1235 | 5.2 | 160 | |
| ● | 2251 | 5.6 | 170 | | | 2317 | 4.9 | 150 | | | | | | | | | | | | | | 1951 | 1.6 | 50 | | | 1849 | 2.0 | 60 | |
| 9 Sa | 0509 | 1.6 | 50 | | 24 Su | 0532 | 2.3 | 70 | | 9 Tu | 0027 | 5.6 | 170 | | 24 W | 0004 | 4.9 | 150 | | 9 F | 0155 | 5.2 | 160 | | 24 Sa | 0059 | 4.9 | 150 | | |
| | 1119 | 5.6 | 170 | | | 1138 | 4.9 | 150 | | | 0639 | 1.6 | 50 | | | 0614 | 2.3 | 70 | | | | 0805 | 2.0 | 60 | | | 0708 | 2.0 | 60 | |
| | 1739 | 1.6 | 50 | | | 1752 | 2.3 | 70 | | | 1258 | 5.6 | 170 | | | 1225 | 5.2 | 160 | | | | 1425 | 5.6 | 170 | | | 1325 | 5.6 | 170 | |
| | 2346 | 5.6 | 170 | | | | | | | | 1918 | 1.6 | 50 | | | 1840 | 2.0 | 60 | | | | 2042 | 2.0 | 60 | | | 1935 | 2.0 | 60 | |
| 10 Su | 0600 | 1.6 | 50 | | 25 M | 0000 | 4.9 | 150 | | 10 W | 0122 | 5.2 | 160 | | 25 Th | 0046 | 4.9 | 150 | | 10 Sa | 0247 | 5.2 | 160 | | 25 Su | 0150 | 5.2 | 160 | | |
| | 1215 | 5.6 | 170 | | | 0612 | 2.3 | 70 | | | 0731 | 1.6 | 50 | | | 0655 | 2.0 | 60 | | | | 0856 | 2.0 | 60 | | | 0800 | 1.6 | 50 | |
| | 1836 | 1.6 | 50 | | | 1221 | 4.9 | 150 | | | 1352 | 5.6 | 170 | | | 1309 | 5.2 | 160 | | | | 1514 | 5.2 | 160 | | | 1417 | 5.6 | 170 | |
| | | | | | | 1834 | 2.3 | 70 | | | 2012 | 1.6 | 50 | | | 1922 | 2.0 | 60 | | | | 2132 | 2.0 | 60 | | | 2027 | 2.0 | 60 | |
| 11 M | 0042 | 5.6 | 170 | | 26 Tu | 0042 | 4.9 | 150 | | 11 Th | 0216 | 5.2 | 160 | | 26 F | 0132 | 4.9 | 150 | | 11 Su | 0338 | 4.9 | 150 | | 26 M | 0246 | 5.2 | 160 | | |
| | 0652 | 1.6 | 50 | | | 0651 | 2.3 | 70 | | | 0824 | 1.6 | 50 | | | 0740 | 2.0 | 60 | | | | 0946 | 2.0 | 60 | | | 0856 | 1.6 | 50 | |
| | 1311 | 5.6 | 170 | | | 1303 | 4.9 | 150 | | | 1445 | 5.6 | 170 | | | 1356 | 5.2 | 160 | | | | 1603 | 5.2 | 160 | | | 1514 | 5.6 | 170 | |
| | 1932 | 1.6 | 50 | | | 1916 | 2.3 | 70 | | | 2105 | 2.0 | 60 | | | 2008 | 2.0 | 60 | | | | 2223 | 2.3 | 70 | | | 2123 | 2.0 | 60 | |
| 12 Tu | 0137 | 5.2 | 160 | | 27 W | 0125 | 4.9 | 150 | | 12 F | 0310 | 5.2 | 160 | | 27 Sa | 0222 | 4.9 | 150 | | 12 M | 0428 | 4.9 | 150 | | 27 Tu | 0345 | 5.2 | 160 | | |
| | 0746 | 1.6 | 50 | | | 0732 | 2.3 | 70 | | | 0917 | 2.0 | 60 | | | 0829 | 2.0 | 60 | | | | 1037 | 2.3 | 70 | | | 0957 | 1.6 | 50 | |
| | 1407 | 5.6 | 170 | | | 1347 | 5.2 | 160 | | | 1537 | 5.6 | 170 | | | 1447 | 5.6 | 170 | | | | 1652 | 4.9 | 150 | | | 1612 | 5.6 | 170 | |
| | 2027 | 1.6 | 50 | | | 1958 | 2.3 | 70 | | | 2158 | 2.0 | 60 | | | 2058 | 2.0 | 60 | | ○ | 2313 | 2.3 | 70 | | ● | 2225 | 1.6 | 50 | | |
| 13 < | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Wellington, New Zealand, 2011

Times and Heights of High and Low Waters

| October | | | November | | | December | | | | | | | | | | | | | | | | | |
|-----------------|--------|-----|----------|-----------------|------|----------|--------|-----------------|------|--------|-----|-----------------|------|-----|-----|-----------------|------|-----|-----|-----------------|------|-----|-----|
| Time | Height | | Time | Height | | Time | Height | | Time | Height | | | | | | | | | | | | | |
| | h | m | | h | m | | h | m | | h | m | | | | | | | | | | | | |
| 1 Sa | 0128 | 1.6 | 50 | 16 Su | 0145 | 2.3 | 70 | 1 Tu | 0257 | 1.6 | 50 | 16 W | 0232 | 2.3 | 70 | 1 Th | 0325 | 1.6 | 50 | 16 F | 0249 | 2.0 | 60 |
| | 0739 | 5.9 | 180 | | 0745 | 4.9 | 150 | | 0910 | 5.9 | 180 | | 0837 | 5.2 | 160 | | 0940 | 5.6 | 170 | | 0857 | 5.2 | 160 |
| | 1406 | 1.3 | 40 | | 1415 | 2.3 | 70 | | 1541 | 1.3 | 40 | | 1510 | 2.0 | 60 | | 1608 | 1.6 | 50 | | 1526 | 2.0 | 60 |
| | 2010 | 5.6 | 170 | | 2016 | 4.9 | 150 | | 2138 | 5.6 | 170 | | 2108 | 4.9 | 150 | | 2204 | 5.2 | 160 | | 2126 | 5.2 | 160 |
| 2 Su | 0225 | 1.6 | 50 | 17 M | 0226 | 2.3 | 70 | 2 W | 0350 | 1.6 | 50 | 17 Th | 0315 | 2.0 | 60 | 2 F | 0417 | 1.6 | 50 | 17 Sa | 0337 | 2.0 | 60 |
| | 0836 | 5.9 | 180 | | 0827 | 4.9 | 150 | | 1006 | 5.9 | 180 | | 0921 | 5.2 | 160 | | 1032 | 5.6 | 170 | | 0946 | 5.6 | 170 |
| | 1505 | 1.3 | 40 | | 1458 | 2.3 | 70 | | 1633 | 1.3 | 40 | | 1551 | 2.0 | 60 | | 1656 | 1.6 | 50 | | 1610 | 2.0 | 60 |
| | 2106 | 5.6 | 170 | | 2058 | 4.9 | 150 | | 2230 | 5.6 | 170 | | 2150 | 4.9 | 150 | | 2254 | 5.2 | 160 | | 2213 | 5.2 | 160 |
| 3 M | 0320 | 1.3 | 40 | 18 Tu | 0306 | 2.3 | 70 | 3 Th | 0443 | 1.6 | 50 | 18 F | 0358 | 2.0 | 60 | 3 Sa | 0507 | 2.0 | 60 | 18 Su | 0427 | 2.0 | 60 |
| | 0932 | 5.9 | 180 | | 0909 | 5.2 | 160 | | 1059 | 5.6 | 170 | | 1007 | 5.2 | 160 | | 1123 | 5.2 | 160 | | 1036 | 5.6 | 170 |
| | 1601 | 1.3 | 40 | | 1539 | 2.0 | 60 | | 1723 | 1.6 | 50 | | 1632 | 2.0 | 60 | | 1741 | 2.0 | 60 | | 1655 | 1.6 | 50 |
| | 2201 | 5.6 | 170 | | 2138 | 4.9 | 150 | | 2321 | 5.2 | 160 | | 2234 | 5.2 | 160 | | 2343 | 5.2 | 160 | | 2302 | 5.2 | 160 |
| 4 Tu | 0414 | 1.6 | 50 | 19 W | 0345 | 2.3 | 70 | 4 F | 0534 | 1.6 | 50 | 19 Sa | 0444 | 2.0 | 60 | 4 Su | 0556 | 2.0 | 60 | 19 M | 0518 | 1.6 | 50 |
| | 1029 | 5.9 | 180 | | 0951 | 5.2 | 160 | | 1151 | 5.6 | 170 | | 1055 | 5.6 | 170 | | 1211 | 5.2 | 160 | | 1127 | 5.6 | 170 |
| | 1655 | 1.3 | 40 | | 1618 | 2.0 | 60 | | 1810 | 1.6 | 50 | | 1714 | 2.0 | 60 | | 1825 | 2.0 | 60 | | 1742 | 1.6 | 50 |
| | 2254 | 5.6 | 170 | | 2217 | 4.9 | 150 | | 0012 | 5.2 | 160 | | 2320 | 5.2 | 160 | | 0031 | 5.2 | 160 | | 2354 | 5.6 | 170 |
| 5 W | 0507 | 1.6 | 50 | 20 Th | 0425 | 2.0 | 60 | 5 Sa | 0624 | 2.0 | 60 | 20 Su | 0532 | 2.0 | 60 | 5 M | 0643 | 2.0 | 60 | 20 Tu | 0611 | 1.6 | 50 |
| | 1124 | 5.9 | 180 | | 1034 | 5.2 | 160 | | 1242 | 5.2 | 160 | | 1144 | 5.6 | 170 | | 1257 | 4.9 | 150 | | 1220 | 5.6 | 170 |
| | 1747 | 1.6 | 50 | | 1657 | 2.0 | 60 | | 1856 | 2.0 | 60 | | 1759 | 1.6 | 50 | | 1907 | 2.0 | 60 | | 1831 | 1.6 | 50 |
| | 2347 | 5.6 | 170 | | 2259 | 4.9 | 150 | | 0102 | 5.2 | 160 | | 0100 | 5.2 | 160 | | 0118 | 4.9 | 150 | | 0048 | 5.6 | 170 |
| 6 Th | 0559 | 1.6 | 50 | 21 F | 0508 | 2.0 | 60 | 6 Su | 0713 | 2.0 | 60 | 21 M | 0624 | 1.6 | 50 | 6 Tu | 0729 | 2.3 | 70 | 21 W | 0706 | 1.6 | 50 |
| | 1218 | 5.6 | 170 | | 1119 | 5.2 | 160 | | 1330 | 5.2 | 160 | | 1237 | 5.6 | 170 | | 1343 | 4.9 | 150 | | 0706 | 1.6 | 50 |
| | 1837 | 1.6 | 50 | | 1738 | 2.0 | 60 | | 1942 | 2.0 | 60 | | 1847 | 1.6 | 50 | | 1950 | 2.3 | 70 | | 1316 | 5.6 | 170 |
| | | | | | 2343 | 4.9 | 150 | | 0151 | 4.9 | 150 | | 0104 | 5.6 | 170 | | 0204 | 4.9 | 150 | | 1923 | 1.6 | 50 |
| 7 F | 0039 | 5.2 | 160 | 22 Sa | 0553 | 2.0 | 60 | 7 M | 0802 | 2.3 | 70 | 22 Tu | 0719 | 1.6 | 50 | 7 W | 0814 | 2.3 | 70 | 22 Th | 0804 | 1.6 | 50 |
| | 0650 | 2.0 | 60 | | 1207 | 5.6 | 170 | | 1418 | 4.9 | 150 | | 1332 | 5.6 | 170 | | 1428 | 4.9 | 150 | | 0814 | 1.6 | 50 |
| | 1309 | 5.6 | 170 | | 1821 | 2.0 | 60 | | 2027 | 2.3 | 70 | | 1940 | 1.6 | 50 | | 2033 | 2.3 | 70 | | 1413 | 5.6 | 170 |
| | 1926 | 2.0 | 60 | | | | | | 0240 | 4.9 | 150 | | 0201 | 5.6 | 170 | | 0249 | 4.9 | 150 | | 2019 | 1.6 | 50 |
| 8 Sa | 0130 | 5.2 | 160 | 23 Su | 0031 | 5.2 | 160 | 8 Tu | 0850 | 2.3 | 70 | 23 W | 0818 | 1.6 | 50 | 8 Th | 0900 | 2.3 | 70 | 23 F | 0244 | 5.6 | 170 |
| | 0741 | 2.0 | 60 | | 0643 | 2.0 | 60 | | 1505 | 4.9 | 150 | | 1431 | 5.6 | 170 | | 1515 | 4.6 | 140 | | 0903 | 1.6 | 50 |
| | 1400 | 5.2 | 160 | | 1258 | 5.6 | 170 | | 2113 | 2.3 | 70 | | 2037 | 1.6 | 50 | | 2119 | 2.3 | 70 | | 1513 | 5.2 | 160 |
| | 2014 | 2.0 | 60 | | 1908 | 2.0 | 60 | | 0327 | 4.9 | 150 | | 0301 | 5.6 | 170 | | 0334 | 4.9 | 150 | | 2118 | 1.6 | 50 |
| 9 Su | 0221 | 4.9 | 150 | 24 M | 0124 | 5.2 | 160 | 9 W | 0939 | 2.3 | 70 | 24 Th | 0920 | 1.6 | 50 | 9 F | 0948 | 2.3 | 70 | 24 Sa | 0342 | 5.9 | 180 |
| | 0831 | 2.0 | 60 | | 0737 | 1.6 | 50 | | 1553 | 4.6 | 140 | | 1532 | 5.6 | 170 | | 1603 | 4.6 | 140 | | 1004 | 1.6 | 50 |
| | 1448 | 5.2 | 160 | | 1352 | 5.6 | 170 | | 2201 | 2.3 | 70 | | 2138 | 1.6 | 50 | | 2206 | 2.3 | 70 | | 1612 | 5.2 | 160 |
| | 2102 | 2.3 | 70 | | 2000 | 1.6 | 50 | | 0414 | 4.9 | 150 | | 0401 | 5.9 | 180 | | 0419 | 4.9 | 150 | | 2218 | 1.6 | 50 |
| 10 M | 0311 | 4.9 | 150 | 25 Tu | 0221 | 5.6 | 170 | 10 Th | 1028 | 2.3 | 70 | 25 F | 1023 | 1.6 | 50 | 10 Sa | 1038 | 2.3 | 70 | 25 Su | 0439 | 5.9 | 180 |
| | 0921 | 2.3 | 70 | | 0835 | 1.6 | 50 | | 1641 | 4.6 | 140 | | 1633 | 5.6 | 170 | | 1651 | 4.6 | 140 | | 1106 | 1.6 | 50 |
| | 1537 | 4.9 | 150 | | 1451 | 5.6 | 170 | | 2249 | 2.3 | 70 | | 2240 | 1.6 | 50 | | 2253 | 2.3 | 70 | | 1711 | 5.2 | 160 |
| | 2150 | 2.3 | 70 | | 2058 | 1.6 | 50 | | 0459 | 4.9 | 150 | | 0500 | 5.9 | 180 | | 0503 | 4.9 | 150 | | 2317 | 1.6 | 50 |
| 11 Tu | 0400 | 4.9 | 150 | 26 W | 0321 | 5.6 | 170 | 11 F | 1119 | 2.3 | 70 | 26 Sa | 1126 | 1.6 | 50 | 11 Su | 1129 | 2.3 | 70 | 26 M | 0536 | 5.9 | 180 |
| | 1010 | 2.3 | 70 | | 0937 | 1.6 | 50 | | 1729 | 4.6 | 140 | | 1733 | 5.6 | 170 | | 1739 | 4.6 | 140 | | 1206 | 1.6 | 50 |
| | 1625 | 4.9 | 150 | | 1551 | 5.6 | 170 | | 2337 | 2.3 | 70 | | 2342 | 1.6 | 50 | | 2341 | 2.3 | 70 | | 1808 | 5.2 | 160 |
| | 2239 | 2.3 | 70 | | 2200 | 1.6 | 50 | | 0543 | 4.9 | 150 | | 0558 | 5.9 | 180 | | 0549 | 5.2 | 160 | | 0536 | 5.9 | 180 |
| 12 W | 0448 | 4.9 | 150 | 27 Th | 0422 | 5.6 | 170 | 12 Sa | 1209 | 2.3 | 70 | 27 Su | 1228 | 1.3 | 40 | 12 M | 1220 | 2.3 | 70 | 27 Tu | 0632 | 5.6 | 170 |
| | 1101 | 2.3 | 70 | | 1041 | 1.6 | 50 | | 1816 | 4.6 | 140 | | 1831 | 5.6 | 170 | | 1826 | 4.6 | 140 | | 1304 | 1.6 | 50 |
| | 1713 | 4.9 | 150 | | 1653 | 5.6 | 170 | | 0023 | 2.3 | 70 | | 0040 | 1.6 | 50 | | 0028 | 2.3 | 70 | | 1902 | 5.2 | 160 |
| | 2328 | 2.3 | 70 | | 2304 | 1.6 | 50 | | 0627 | 4.9 | 150 | | 0655 | 5.9 | 180 | | 0634 | 5.2 | 160 | | 0727 | 5.6 | 170 |
| 13 Th | 0534 | 4.9 | 150 | 28 F | 0522 | 5.9 | 180 | 13 Su | 1257 | 2.3 | 70 | 28 M | 1328 | 1.3 | 40 | 13 Tu | 1309 | 2.3 | 70 | 28 W | 1359 | 1.6 | 50 |
| | 1151 | 2.3 | 70 | | 1145 | 1.3 | 40 | | 1901 | 4.6 | 140 | | 1927 | 5.6 | 170 | | 1911 | 4.9 | 150 | | 1955 | 5.2 | 160 |
| | 1801 | 4.6 | 140 | | 1753 | 5.6 | 170 | | 0107 | 2.3 | 70 | | 0137 | 1.6 | 50 | | 0115 | 2.3 | 70 | | 2047 | 5.2 | 160 |
| | | | | | | | | | 0710 | 4.9 | 150 | | 0751 | 5.9 | 180 | | 0721 | 5.2 | 160 | | 0206 | 1.6 | 50 |
| 14 F | 0016 | 2.3 | 70 | 29 Sa | 0006 | 1.6 | 50 | 14 M | 1344 | 2.3 | 70 | 29 Tu | 1424 | 1.3 | 40 | 14 W | 1356 | 2.0 | 60 | 29 Th | 1451 | 1.6 | 50 |
| | 0619 | 4.9 | 150 | | 0620 | 5.9 | 180 | | 1945 | 4.9 | 150 | | 2021 | 5.6 | 170 | | 1956 | 4.9 | 150 | | 1820 | 5.6 | 170 |
| | 1241 | 2.3 | 70 | | 1248 | 1.3 | 40 | | 0150 | 2.3 | 70 | | 0232 | 1.6 | 50 | | 0201 | 2.0 | 60 | | 2047 | 5.2 | 160 |
| | 1848 | 4.6 | 140 | | 1852 | 5.6 | 170 | | 0753 | 5.2 | 160 | | 0846 | 5.9 | 180 | | 0808 | 5.2 | 160 | | 0259 | 2.0 | 60 |
| 15 Sa | 0102 | 2.3 | 70 | 30 Su | 0105 | 1.6 | 50 | 15 Tu | 1428 | 2.3 | 70 | 30 W | 1517 | 1.6 | 50 | 15 Th | 1441 | 2.0 | 60 | 30 F | 1540 | 1.6 | 50 |
| | 0703 | 4.9 | 150 | | 0718 | 5.9 | 180 | | 2027 | 4.9 | 150 | | 2113 | 5.6 | 170 | | 2041 | 4.9 | 150 | | 2137 | 5.2 | 160 |
| | 1329 | 2.3 | 70 | | 1348 | 1.3 | 40 | | 0202 | 1.3 | 40 | | 0201 | 2.0 | 60 | | 0201 | 2.0 | 60 | | 1627 | 2.0 | 60 |
| | 1933 | 4.6 | 140 | | 1949 | 5.6 | 170 | | 0814 | 5.9 | 180 | | 0814 | 5.9 | 180 | | 0814 | 5.9 | 180 | | 2225 | 5.2 | 160 |
| | | | | | | 1446 | 1.3 | 40 | | | | | | | | | | | | | | | |

Auckland, New Zealand, 2011

Times and Heights of High and Low Waters

| April | | | | | May | | | | | June | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|------|--------|-----|----|-----------------|------|--------|-----|----|-----------------|------|--------|-----|----|-----------------|------|--------|-----|----|-----------------|------|------|-----|--|-----------------|------|------|-----|--|-----------------|------|------|-----|------|
| Time | | Height | | | Time | | Height | | | Time | | Height | | | Time | | Height | | | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | | | | | | |
| 1 F | 0551 | 9.5 | 290 | | 16 Sa | 0510 | 10.5 | 320 | | 1 Su | 0558 | 9.5 | 290 | | 16 M | 0542 | 10.8 | 330 | | 1 W | 0030 | 3.3 | 100 | | 16 Th | 0053 | 2.0 | 60 | | | | | | |
| | 1153 | 3.0 | 90 | | | 1118 | 2.0 | 60 | | | 1201 | 3.0 | 90 | | | 1151 | 1.3 | 40 | | | 0647 | 9.5 | 290 | | | 0715 | 10.5 | 320 | | | | | | |
| | 1816 | 9.5 | 290 | | | 1747 | 10.5 | 320 | | | 1828 | 9.5 | 290 | | | 1822 | 11.2 | 340 | | | 1249 | 2.3 | 70 | | | 1320 | 1.3 | 40 | | 1917 | 9.8 | 300 | | 1950 | 11.2 | 340 |
| 2 Sa | 0018 | 3.0 | 90 | | 17 Su | 0606 | 11.2 | 340 | | 2 M | 0025 | 3.3 | 100 | | 17 Tu | 0019 | 1.6 | 50 | | 2 Th | 0112 | 3.0 | 90 | | 17 F | 0146 | 2.0 | 60 | | 17 Sa | 0808 | 10.5 | 320 | |
| | 0636 | 9.8 | 300 | | | 1214 | 1.3 | 40 | | | 0641 | 9.5 | 290 | | | 0638 | 10.8 | 330 | | | 0732 | 9.5 | 290 | | | 1331 | 2.3 | 70 | | | 1410 | 1.3 | 40 | |
| | 1237 | 2.6 | 80 | | | 1843 | 11.2 | 340 | | | 1243 | 2.6 | 80 | | | 1909 | 9.8 | 300 | | | 1246 | 1.3 | 40 | | | 1958 | 10.2 | 310 | | | 2039 | 11.2 | 340 | |
| 3 Su | 0058 | 3.0 | 90 | | 18 M | 0041 | 1.3 | 40 | | 3 Tu | 0104 | 3.0 | 90 | | 18 W | 0112 | 1.6 | 50 | | 3 F | 0154 | 3.0 | 90 | | 18 Sa | 0237 | 2.0 | 60 | | | | | | |
| | 0718 | 9.8 | 300 | | | 0701 | 11.2 | 340 | | | 0723 | 9.8 | 300 | | | 0733 | 11.2 | 340 | | | 0816 | 9.8 | 300 | | | 0859 | 10.5 | 320 | | | | | | |
| | 1318 | 2.6 | 80 | | | 1308 | 1.0 | 30 | | | 1323 | 2.3 | 70 | | | 2009 | 11.5 | 350 | | | 1413 | 2.0 | 60 | | | 2128 | 11.2 | 340 | | | | | | |
| 4 M | 0136 | 2.6 | 80 | | 19 Tu | 0133 | 1.0 | 30 | | 4 W | 0142 | 3.0 | 90 | | 19 Th | 0204 | 1.6 | 50 | | 4 Sa | 0238 | 2.6 | 80 | | 19 Su | 0326 | 2.0 | 60 | | | | | | |
| | 0758 | 9.8 | 300 | | | 0755 | 11.5 | 350 | | | 0803 | 9.8 | 300 | | | 0827 | 10.8 | 330 | | | 0900 | 9.8 | 300 | | | 0948 | 10.2 | 310 | | | | | | |
| | 1356 | 2.3 | 70 | | | 1401 | 0.7 | 20 | | | 1401 | 2.3 | 70 | | | 2059 | 11.5 | 350 | | | 1456 | 2.0 | 60 | | | 2214 | 10.8 | 330 | | | | | | |
| 5 Tu | 2020 | 9.8 | 300 | | 20 W | 2029 | 11.8 | 360 | | 5 Th | 0221 | 3.0 | 90 | | 20 F | 0256 | 1.6 | 50 | | 5 Su | 0322 | 2.6 | 80 | | 20 M | 0414 | 2.3 | 70 | | | | | | |
| | 0212 | 2.6 | 80 | | | 0848 | 11.5 | 350 | | | 0843 | 9.8 | 300 | | | 0919 | 10.8 | 330 | | | 0946 | 10.2 | 310 | | | 1034 | 10.2 | 310 | | | | | | |
| | 0836 | 9.8 | 300 | | | 1451 | 0.7 | 20 | | | 1440 | 2.3 | 70 | | | 1519 | 1.3 | 40 | | | 1539 | 2.0 | 60 | | | 1627 | 2.0 | 60 | | | | | | |
| 6 W | 2056 | 10.2 | 310 | | 21 Th | 2119 | 11.8 | 360 | | 6 F | 2105 | 10.2 | 310 | | 21 Sa | 2149 | 11.2 | 340 | | 6 M | 2206 | 10.5 | 320 | | 21 Tu | 2300 | 10.5 | 320 | | | | | | |
| | 0249 | 2.6 | 80 | | | 0316 | 1.3 | 40 | | | 0301 | 2.6 | 80 | | | 0347 | 2.0 | 60 | | | 0409 | 2.3 | 70 | | | 0501 | 2.3 | 70 | | | | | | |
| | 0913 | 9.8 | 300 | | | 0940 | 11.2 | 340 | | | 0924 | 9.8 | 300 | | | 1010 | 10.5 | 320 | | | 1032 | 10.2 | 310 | | | 1119 | 9.8 | 300 | | | | | | |
| 7 Th | 1510 | 2.3 | 70 | | 22 F | 1541 | 1.0 | 30 | | 7 Sa | 1520 | 2.3 | 70 | | 22 Su | 1607 | 1.6 | 50 | | 7 Tu | 1624 | 2.0 | 60 | | 22 W | 1712 | 2.6 | 80 | | | | | | |
| | 2132 | 10.2 | 310 | | | 2210 | 11.5 | 350 | | | 2144 | 10.2 | 310 | | | 2238 | 11.2 | 340 | | | 2253 | 10.5 | 320 | | | 1712 | 2.0 | 60 | | | | | | |
| | 0326 | 2.6 | 80 | | | 0407 | 1.6 | 50 | | | 0343 | 2.6 | 80 | | | 0438 | 2.0 | 60 | | | 0457 | 2.3 | 70 | | | 2341 | 10.5 | 320 | | | | | | |
| 8 F | 0950 | 9.8 | 300 | | 23 Sa | 1031 | 10.8 | 330 | | 8 Su | 1006 | 9.8 | 300 | | 23 M | 1059 | 10.2 | 310 | | 8 W | 1119 | 10.2 | 310 | | 23 Th | 1203 | 9.5 | 290 | | | | | | |
| | 1547 | 2.3 | 70 | | | 1630 | 1.3 | 40 | | | 1600 | 2.3 | 70 | | | 1655 | 2.0 | 60 | | | 1712 | 2.0 | 60 | | | 1758 | 3.0 | 90 | | | | | | |
| | 2208 | 10.2 | 310 | | | 2301 | 11.2 | 340 | | | 2226 | 10.2 | 310 | | | 2328 | 10.5 | 320 | | | 2341 | 10.5 | 320 | | | 1846 | 3.3 | 100 | | | | | | |
| 9 Sa | 0405 | 3.0 | 90 | | 24 M | 0500 | 2.0 | 60 | | 9 M | 0427 | 2.6 | 80 | | 24 Tu | 0530 | 2.3 | 70 | | 9 Th | 0548 | 2.3 | 70 | | 24 F | 0031 | 9.8 | 300 | | | | | | |
| | 1029 | 9.8 | 300 | | | 1122 | 10.5 | 320 | | | 1050 | 9.8 | 300 | | | 1148 | 9.8 | 300 | | | 1209 | 10.2 | 310 | | | 0633 | 2.6 | 80 | | | | | | |
| | 1625 | 2.3 | 70 | | | 1720 | 2.0 | 60 | | | 1643 | 2.3 | 70 | | | 1743 | 2.6 | 80 | | | 1804 | 2.3 | 70 | | | 1249 | 9.2 | 280 | | | | | | |
| 10 Su | 2247 | 9.8 | 300 | | 25 M | 2353 | 10.8 | 330 | | 10 M | 2310 | 10.2 | 310 | | 25 W | 2310 | 10.2 | 310 | | 10 F | 1846 | 3.3 | 100 | | 25 Sa | 1846 | 3.3 | 100 | | | | | | |
| | 0446 | 3.0 | 90 | | | 0554 | 2.3 | 70 | | | 0514 | 2.6 | 80 | | | 0109 | 9.8 | 300 | | | 0033 | 10.5 | 320 | | | 0204 | 9.5 | 290 | | | | | | |
| | 1110 | 9.5 | 290 | | | 1214 | 10.2 | 310 | | | 1136 | 9.8 | 300 | | | 1237 | 9.5 | 290 | | | 0641 | 2.3 | 70 | | | 0720 | 3.0 | 90 | | | | | | |
| 11 M | 1706 | 2.6 | 80 | | 26 Tu | 1812 | 2.3 | 70 | | 11 W | 1730 | 2.3 | 70 | | 26 Th | 1834 | 3.0 | 90 | | 11 Sa | 1302 | 10.2 | 310 | | 26 Su | 1337 | 9.2 | 280 | | | | | | |
| | 2329 | 9.8 | 300 | | | 0046 | 10.2 | 310 | | | 0605 | 10.2 | 310 | | | 0621 | 2.6 | 80 | | | 1900 | 2.3 | 70 | | | 1939 | 3.6 | 110 | | | | | | |
| | 0532 | 3.0 | 90 | | | 0650 | 2.6 | 80 | | | 0659 | 2.6 | 80 | | | 0713 | 3.0 | 90 | | | 0127 | 10.5 | 320 | | | 0720 | 3.0 | 90 | | | | | | |
| 12 Tu | 1750 | 2.6 | 80 | | 27 W | 1307 | 9.5 | 290 | | 12 Th | 1821 | 2.6 | 80 | | 27 F | 1929 | 3.3 | 100 | | 12 Su | 2000 | 2.3 | 70 | | 27 M | 0204 | 9.5 | 290 | | | | | | |
| | 0016 | 9.8 | 300 | | | 1908 | 3.0 | 90 | | | 0147 | 10.2 | 310 | | | 0159 | 9.5 | 290 | | | 0736 | 2.3 | 70 | | | 0950 | 3.0 | 90 | | | | | | |
| | 0622 | 3.3 | 100 | | | 0142 | 9.8 | 300 | | | 0756 | 2.6 | 80 | | | 0804 | 3.0 | 90 | | | 1400 | 9.8 | 300 | | | 1618 | 8.9 | 270 | | | | | | |
| 13 W | 1242 | 9.5 | 290 | | 28 Th | 1401 | 9.2 | 280 | | 13 F | 1319 | 9.8 | 300 | | 28 Sa | 2026 | 3.6 | 110 | | 13 M | 2000 | 2.3 | 70 | | 28 Tu | 2033 | 3.6 | 110 | | | | | | |
| | 1841 | 2.6 | 80 | | | 2007 | 3.3 | 100 | | | 1918 | 2.6 | 80 | | | 0159 | 9.5 | 290 | | | 0127 | 10.5 | 320 | | | 2128 | 3.6 | 110 | | | | | | |
| | 0109 | 9.5 | 290 | | | 0238 | 9.5 | 290 | | | 0245 | 10.2 | 310 | | | 0250 | 9.5 | 290 | | | 0322 | 10.5 | 320 | | | 2220 | 3.6 | 110 | | | | | | |
| 14 Th | 0718 | 3.3 | 100 | | 29 M | 0843 | 3.3 | 100 | | 14 Sa | 0245 | 10.2 | 310 | | 29 Su | 0856 | 3.3 | 100 | | 14 W | 0933 | 2.0 | 60 | | 29 Th | 0341 | 9.2 | 280 | | | | | | |
| | 1336 | 9.5 | 290 | | | 1458 | 9.2 | 280 | | | 1521 | 9.8 | 300 | | | 1515 | 8.9 | 270 | | | 1604 | 10.2 | 310 | | | 0950 | 3.0 | 90 | | | | | | |
| | 1939 | 3.0 | 90 | | | 2108 | 3.6 | 110 | | | 2124 | 2.6 | 80 | | | 2122 | 3.6 | 110 | | | 2204 | 2.3 | 70 | | | 1618 | 8.9 | 270 | | | | | | |
| 15 F | 0818 | 3.0 | 90 | | 30 M | 0938 | 3.3 | 100 | | 15 Su | 0245 | 10.2 | 310 | | 30 M | 0340 | 9.2 | 280 | | 15 W | 2204 | 2.3 | 70 | | 30 Th | 2220 | 3.6 | 110 | | | | | | |
| | 1437 | 9.5 | 290 | | | 1556 | 8.9 | 270 | | | 0345 | 10.5 | 320 | | | 0340 | 9.2 | 280 | | | 0421 | 10.5 | 320 | | | 0341 | 9.2 | 280 | | | | | | |
| | 2043 | 3.0 | 90 | | | 2206 | 3.6 | 110 | | | 0424 | 9.5 | 290 | | | 0429 | 9.2 | 280 | | | 0421 | 10.5 | 320 | | | 0522 | 9.2 | 280 | | | | | | |
| 16 Sa | 0818 | 3.0 | 90 | | 31 Tu | 0938 | 3.3 | 100 | | 16 Su | 0856 | 3.3 | 100 | | 31 Tu | 0946 | 3.3 | 100 | | 16 W | 2303 | 2.3 | 70 | | 31 Th | 0432 | 9.2 | 280 | | | | | | |
| | 1437 | 9.5 | 290 | | | 1556 | 8.9 | 270 | | | 0955 | 2.0 | 60 | | | 1035 | 3.0 | 90 | | | 0421 | 10.5 | 320 | | | 0522 | 9.2 | 280 | | | | | | |
| | 2043 | 3.0 | 90 | | | 2206 | 3.6 | 110 | | | 1624 | 10.2 | 310 | | | 1702 | 9.2 | 280 | | | 0520 | 10.5 | 320 | | | 0613 | 9.2 | 280 | | | | | | |
| 17 Su | 0310 | 9.8 | 300 | | 1 M | 0424 | 9.5 | 290 | | 1 M | 0345 | 10.5 | 320 | | 1 M | 0429 | 9.2 | | | | | | | | | | | | | | | | | |

Auckland, New Zealand, 2011

Times and Heights of High and Low Waters

| October | | | | November | | | | December | | | | | | | | | | | | | | | | | | | | | |
|-----------------|--------|------|-----|----------|-----------------|------|------|----------|--------|-----------------|------|------|--------|----|-----------------|------|------|-----|----|-----------------|------|------|-----|------|-----------------|------|------|-----|--|
| Time | Height | | | Time | Height | | | Time | Height | | | Time | Height | | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | |
| 1 Sa | 0335 | 0.3 | 10 | | 16 Su | 0330 | 2.0 | 60 | | 1 Tu | 0455 | 1.3 | 40 | | 16 W | 0424 | 2.0 | 60 | | 1 Th | 0523 | 2.0 | 60 | | 16 F | 0448 | 1.6 | 50 | |
| | 1002 | 11.5 | 350 | | | 0953 | 9.8 | 300 | | | 1127 | 10.8 | 330 | | | 1049 | 9.8 | 300 | | | 1156 | 10.5 | 320 | | | 1115 | 10.5 | 320 | |
| | 1559 | 1.0 | 30 | | | 1549 | 2.6 | 80 | | | 1729 | 1.6 | 50 | | | 1653 | 2.6 | 80 | | | 1759 | 2.0 | 60 | | | 1721 | 2.0 | 60 | |
| | 2224 | 11.2 | 340 | | | 2213 | 9.5 | 290 | | | 2350 | 10.2 | 310 | | | 2314 | 9.5 | 290 | | | 2314 | 9.5 | 290 | | | 2342 | 9.8 | 300 | |
| 2 Su | 0425 | 0.7 | 20 | | 17 M | 0408 | 2.0 | 60 | | 2 W | 0548 | 1.6 | 50 | | 17 Th | 0507 | 2.3 | 70 | | 2 F | 0017 | 9.8 | 300 | | 17 Sa | 0535 | 2.0 | 60 | |
| | 1054 | 11.2 | 340 | | | 1030 | 9.8 | 300 | | | 1222 | 10.5 | 320 | | | 1134 | 9.8 | 300 | | | 0614 | 2.3 | 70 | | | 1203 | 10.2 | 310 | |
| | 1652 | 1.3 | 40 | | | 1629 | 2.6 | 80 | | | 1825 | 2.3 | 70 | | | 1740 | 2.6 | 80 | | | 1247 | 10.2 | 310 | | | 1810 | 2.0 | 60 | |
| | 2316 | 10.8 | 330 | | | 2252 | 9.5 | 290 | | | ● | | | | | 1851 | 2.3 | 70 | | | 1851 | 2.3 | 70 | | | ● | | | |
| 3 M | 0517 | 1.3 | 40 | | 18 Tu | 0447 | 2.3 | 70 | | 3 Th | 0044 | 9.8 | 300 | | 18 F | 0000 | 9.5 | 290 | | 3 Sa | 0108 | 9.2 | 280 | | 18 Su | 0031 | 9.8 | 300 | |
| | 1147 | 10.8 | 330 | | | 1110 | 9.5 | 290 | | | 0643 | 2.3 | 70 | | | 0554 | 2.3 | 70 | | | 0708 | 3.0 | 90 | | | 0627 | 2.3 | 70 | |
| | 1748 | 1.6 | 50 | | | 1713 | 3.0 | 90 | | | 1318 | 9.8 | 300 | | | 1223 | 9.8 | 300 | | | 1339 | 9.5 | 290 | | | 1254 | 10.2 | 310 | |
| | ● | | | | | 2334 | 9.2 | 280 | | | ● | | | | | 1831 | 2.6 | 80 | | | 1944 | 2.6 | 80 | | | ● | | | |
| 4 Tu | 0010 | 10.2 | 310 | | 19 W | 0529 | 2.3 | 70 | | 4 F | 0139 | 9.2 | 280 | | 19 Sa | 0051 | 9.2 | 280 | | 4 Su | 0201 | 9.2 | 280 | | 19 M | 0125 | 9.8 | 300 | |
| | 0611 | 1.6 | 50 | | | 1155 | 9.5 | 290 | | | 0744 | 2.6 | 80 | | | 0648 | 2.6 | 80 | | | 0805 | 3.3 | 100 | | | 0725 | 2.3 | 70 | |
| | 1244 | 10.2 | 310 | | | 1800 | 3.0 | 90 | | | 1415 | 9.5 | 290 | | | 1316 | 9.8 | 300 | | | 1431 | 9.5 | 290 | | | 1349 | 10.2 | 310 | |
| | 1847 | 2.3 | 70 | | | ● | | | | | 2021 | 2.6 | 80 | | | ● | | | | | 2036 | 3.0 | 90 | | | ● | | | |
| 5 W | 0106 | 9.8 | 300 | | 20 Th | 0021 | 9.2 | 280 | | 5 Sa | 0238 | 8.9 | 270 | | 20 Su | 0146 | 9.2 | 280 | | 5 M | 0257 | 8.9 | 270 | | 20 Tu | 0225 | 9.8 | 300 | |
| | 0709 | 2.3 | 70 | | | 0617 | 2.6 | 80 | | | 0846 | 3.0 | 90 | | | 0747 | 2.6 | 80 | | | 0904 | 3.3 | 100 | | | 0827 | 2.3 | 70 | |
| | 1344 | 9.8 | 300 | | | 1245 | 9.2 | 280 | | | 1511 | 9.5 | 290 | | | 1413 | 9.8 | 300 | | | 1523 | 9.2 | 280 | | | 1447 | 10.2 | 310 | |
| | 1949 | 2.6 | 80 | | | ● | | | | | 2118 | 2.6 | 80 | | | 2024 | 2.3 | 70 | | | 2129 | 3.0 | 90 | | | 2058 | 2.0 | 60 | |
| 6 Th | 0205 | 9.5 | 290 | | 21 F | 0112 | 8.9 | 270 | | 6 Su | 0337 | 8.9 | 270 | | 21 M | 0248 | 9.5 | 290 | | 6 Tu | 0354 | 8.9 | 270 | | 21 W | 0329 | 9.8 | 300 | |
| | 0813 | 2.6 | 80 | | | 0712 | 2.6 | 80 | | | 0947 | 3.3 | 100 | | | 0851 | 2.6 | 80 | | | 1000 | 3.3 | 100 | | | 0931 | 2.3 | 70 | |
| | 1445 | 9.5 | 290 | | | 1341 | 9.2 | 280 | | | 1605 | 9.2 | 280 | | | 1512 | 9.8 | 300 | | | 1614 | 9.2 | 280 | | | 1548 | 10.2 | 310 | |
| | 2051 | 2.6 | 80 | | | 1951 | 3.0 | 90 | | | 2212 | 2.6 | 80 | | | 2124 | 2.0 | 60 | | | 2221 | 3.0 | 90 | | | 2200 | 2.0 | 60 | |
| 7 F | 0307 | 9.2 | 280 | | 22 Sa | 0210 | 8.9 | 270 | | 7 M | 0434 | 8.9 | 270 | | 22 Tu | 0352 | 9.8 | 300 | | 7 W | 0449 | 8.9 | 270 | | 22 Th | 0434 | 10.2 | 310 | |
| | 0919 | 3.0 | 90 | | | 0814 | 2.6 | 80 | | | 1042 | 3.0 | 90 | | | 0955 | 2.3 | 70 | | | 1052 | 3.3 | 100 | | | 1033 | 2.3 | 70 | |
| | 1545 | 9.5 | 290 | | | 1441 | 9.5 | 290 | | | 1656 | 9.2 | 280 | | | 1612 | 10.2 | 310 | | | 1704 | 9.2 | 280 | | | 1650 | 10.2 | 310 | |
| | 2151 | 2.6 | 80 | | | 2052 | 2.6 | 80 | | | 2302 | 2.6 | 80 | | | 2224 | 1.6 | 50 | | | 2310 | 2.6 | 80 | | | 2302 | 1.6 | 50 | |
| 8 Sa | 0408 | 9.2 | 280 | | 23 Su | 0313 | 9.2 | 280 | | 8 Tu | 0527 | 9.2 | 280 | | 23 W | 0455 | 10.2 | 310 | | 8 Th | 0539 | 9.2 | 280 | | 23 F | 0535 | 10.5 | 320 | |
| | 1020 | 3.0 | 90 | | | 0919 | 2.6 | 80 | | | 1130 | 3.0 | 90 | | | 1055 | 2.0 | 60 | | | 1138 | 3.3 | 100 | | | 1132 | 2.0 | 60 | |
| | 1640 | 9.5 | 290 | | | 1542 | 9.8 | 300 | | | 1743 | 9.5 | 290 | | | 1712 | 10.5 | 320 | | | 1752 | 9.2 | 280 | | | 1751 | 10.2 | 310 | |
| | 2245 | 2.6 | 80 | | | 2152 | 2.3 | 70 | | | 2348 | 2.6 | 80 | | | 2323 | 1.3 | 40 | | | 2356 | 2.6 | 80 | | | | | | |
| 9 Su | 0506 | 9.2 | 280 | | 24 M | 0417 | 9.5 | 290 | | 9 W | 0614 | 9.5 | 290 | | 24 Th | 0554 | 10.5 | 320 | | 9 F | 0625 | 9.5 | 290 | | 24 Sa | 0001 | 1.3 | 40 | |
| | 1114 | 2.6 | 80 | | | 1021 | 2.3 | 70 | | | 1213 | 3.0 | 90 | | | 1152 | 1.6 | 50 | | | 1222 | 3.0 | 90 | | | 0632 | 10.8 | 330 | |
| | 1731 | 9.5 | 290 | | | 1641 | 10.2 | 310 | | | 1828 | 9.5 | 290 | | | 1810 | 10.8 | 330 | | | 1838 | 9.2 | 280 | | | 1229 | 1.6 | 50 | |
| | 2335 | 2.6 | 80 | | | 2250 | 1.6 | 50 | | | | | | | | | | | | | | | | 1850 | | 10.5 | 320 | | |
| 10 M | 0558 | 9.2 | 280 | | 25 Tu | 0518 | 10.2 | 310 | | 10 Th | 0031 | 2.3 | 70 | | 25 F | 0019 | 1.0 | 30 | | 10 Sa | 0040 | 2.3 | 70 | | 25 Su | 0056 | 1.0 | 30 | |
| | 1201 | 2.6 | 80 | | | 1119 | 1.6 | 50 | | | 0657 | 9.5 | 290 | | | 0650 | 11.2 | 340 | | | 0708 | 9.5 | 290 | | | 0726 | 11.2 | 340 | |
| | 1818 | 9.8 | 300 | | | 1738 | 10.5 | 320 | | | 1253 | 2.6 | 80 | | | 1246 | 1.3 | 40 | | | 1303 | 3.0 | 90 | | | 1323 | 1.6 | 50 | |
| | ● | | | | | 2347 | 1.3 | 40 | | | 1910 | 9.5 | 290 | | | ● | | | | | 1922 | 9.2 | 280 | | | ● | | | |
| 11 Tu | 0020 | 2.3 | 70 | | 26 W | 0616 | 10.8 | 330 | | 11 F | 0111 | 2.0 | 60 | | 26 Sa | 0114 | 0.7 | 20 | | 11 Su | 0121 | 2.0 | 60 | | 26 M | 0148 | 1.0 | 30 | |
| | 0644 | 9.5 | 290 | | | 1214 | 1.3 | 40 | | | 0737 | 9.8 | 300 | | | 0743 | 11.5 | 350 | | | 0748 | 9.8 | 300 | | | 0818 | 11.2 | 340 | |
| | 1243 | 2.3 | 70 | | | 1833 | 10.8 | 330 | | | 1331 | 2.6 | 80 | | | 1340 | 1.0 | 30 | | | 1344 | 2.6 | 80 | | | 1416 | 1.3 | 40 | |
| | 1901 | 9.8 | 300 | | | ● | | | | | 1951 | 9.5 | 290 | | | 2002 | 10.8 | 330 | | | 2005 | 9.5 | 290 | | | 2038 | 10.5 | 320 | |
| 12 W | 0102 | 2.3 | 70 | | 27 Th | 0041 | 0.7 | 20 | | 12 Sa | 0149 | 2.0 | 60 | | 27 Su | 0206 | 0.7 | 20 | | 12 M | 0201 | 2.0 | 60 | | 27 Tu | 0238 | 1.0 | 30 | |
| | 0726 | 9.8 | 300 | | | 0710 | 11.2 | 340 | | | 0815 | 9.8 | 300 | | | 0835 | 11.5 | 350 | | | 0827 | 10.2 | 310 | | | 0907 | 11.2 | 340 | |
| | 1322 | 2.3 | 70 | | | 1306 | 1.0 | 30 | | | 1409 | 2.6 | 80 | | | 1432 | 1.0 | 30 | | | 1425 | 2.6 | 80 | | | 1506 | 1.3 | 40 | |
| | 1941 | 9.8 | 300 | | | ● | | | | | 2031 | 9.5 | 290 | | | 2055 | 10.8 | 330 | | | 2047 | 9.5 | 290 | | | 2128 | 10.5 | 320 | |
| 13 Th | 0140 | 2.0 | 60 | | 28 F | 0133 | 0.3 | 10 | | 13 Su | 0227 | 2.0 | 60 | | 28 M | 0256 | 0.7 | 20 | | 13 Tu | 0241 | 1.6 | 50 | | 28 W | 0325 | 1.3 | 40 | |
| | 0805 | 9.8 | 300 | | | 0802 | 11.5 | 350 | | | 0852 | 10.2 | 310 | | | 0926 | 11.5 | 350 | | | 0907 | 10.2 | 310 | | | 0955 | 11.2 | 340 | |
| | 1358 | 2.3 | 70 | | | 1358 | 0.7 | 20 | | | 1448 | 2.6 | 80 | | | 1524 | 1.3 | 40 | | | 1507 | 2.3 | 70 | | | 1555 | 1.6 | 50 | |
| | 2020 | 9.8 | 300 | | | 2020 | 11.5 | 350 | | | 2110 | 9.5 | 290 | | | 2147 | 10.8 | 330 | | | 2129 | 9.8 | 300 | | | 2216 | 10.5 | 320 | |
| 14 F | 0218 | 2.0 | 60 | | 29 Sa | 0224 | 0.3 | 10 | | 14 M | 0305 | 2.0 | 60 | | | | | | | | | | | | | | | | |

Dreger Harbor, New Guinea, 2011

Times and Heights of High and Low Waters

| July | | | | August | | | | September | | | | | | | | | | | | | | | | | | | | | |
|-----------------|--------|-----|-----|--------|-----------------|------|-----|-----------|--------|-----------------|------|------|--------|----|-----------------|------|-----|-----|--|-----------------|------|-----|-----|--|-----------------|------|-----|-----|--|
| Time | Height | | | Time | Height | | | Time | Height | | | Time | Height | | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | | | | | | |
| 1 F | 0221 | 3.9 | 120 | | 16 Sa | 0302 | 3.6 | 110 | | 1 M | 0326 | 3.6 | 110 | | 16 Tu | 0349 | 3.3 | 100 | | 1 Th | 0411 | 2.6 | 80 | | 16 F | 0423 | 2.6 | 80 | |
| | 1115 | 0.7 | 20 | | | 1139 | 0.7 | 20 | | | 1120 | 1.0 | 30 | | | 1026 | 1.0 | 30 | | | 1005 | 1.3 | 40 | | | 0954 | 1.3 | 40 | |
| ● | | | | | | | | | | | 1801 | 2.3 | 70 | | | 1658 | 2.6 | 80 | | | 1710 | 3.3 | 100 | | | 1627 | 3.3 | 100 | |
| 2 Sa | 0255 | 3.9 | 120 | | 17 Su | 0331 | 3.6 | 110 | | 2 Tu | 1116 | 1.0 | 30 | | 17 W | 0409 | 3.0 | 90 | | 2 F | 0421 | 2.3 | 70 | | 17 Sa | 0439 | 2.3 | 70 | |
| | 1141 | 0.7 | 20 | | | 1130 | 1.0 | 30 | | | 1807 | 2.6 | 80 | | | 1030 | 1.0 | 30 | | | 0950 | 1.3 | 40 | | | 1006 | 1.3 | 40 | |
| | | | | | | | | | | | 2209 | 2.0 | 60 | | | 1706 | 3.0 | 90 | | | 1718 | 3.3 | 100 | | | 1646 | 3.6 | 110 | |
| 3 Su | 0328 | 3.9 | 120 | | 18 M | 0356 | 3.3 | 100 | | 3 W | 0415 | 3.0 | 90 | | 18 Th | 0423 | 2.6 | 80 | | 3 Sa | 0346 | 2.0 | 60 | | 18 Su | 0453 | 2.0 | 60 | |
| | 1158 | 0.7 | 20 | | | 1124 | 1.0 | 30 | | | 1113 | 1.0 | 30 | | | 1042 | 1.0 | 30 | | | 0936 | 1.3 | 40 | | | 1009 | 1.3 | 40 | |
| | | | | | | 1813 | 2.3 | 70 | | | 1817 | 2.6 | 80 | | | 1715 | 3.0 | 90 | | | 1724 | 3.3 | 100 | | | 1708 | 3.6 | 110 | |
| | | | | | | 2106 | 2.0 | 60 | | | 2258 | 2.0 | 60 | | | 2310 | 2.0 | 60 | | | | | | | | | | | |
| 4 M | 0358 | 3.6 | 110 | | 19 Tu | 0416 | 3.3 | 100 | | 4 Th | 0421 | 3.0 | 90 | | 19 F | 0432 | 2.6 | 80 | | 4 Su | 0045 | 1.6 | 50 | | 19 M | 0030 | 1.6 | 50 | |
| | 1207 | 1.0 | 30 | | | 1122 | 1.0 | 30 | | | 1103 | 1.3 | 40 | | | 1055 | 1.3 | 40 | | | 0333 | 2.0 | 60 | | | 0444 | 2.0 | 60 | |
| | 1938 | 2.3 | 70 | | | 1808 | 2.3 | 70 | | | 1827 | 3.0 | 90 | | | 1730 | 3.0 | 90 | | | 0932 | 1.0 | 30 | | | 1000 | 1.3 | 40 | |
| | 2100 | 2.3 | 70 | | | 2158 | 2.0 | 60 | | | 2353 | 2.0 | 60 | | | 2355 | 2.0 | 60 | | | 1722 | 3.3 | 100 | | | 1729 | 3.6 | 110 | |
| 5 Tu | 0421 | 3.6 | 110 | | 20 W | 0423 | 3.0 | 90 | | 5 F | 0355 | 2.6 | 80 | | 20 Sa | 0430 | 2.3 | 70 | | 5 M | 0932 | 1.0 | 30 | | 20 Tu | 0137 | 1.6 | 50 | |
| | 1213 | 1.0 | 30 | | | 1127 | 1.0 | 30 | | | 1049 | 1.3 | 40 | | | 1101 | 1.3 | 40 | | | 1732 | 3.3 | 100 | | | 0350 | 1.6 | 50 | |
| | 1951 | 2.3 | 70 | | | 1815 | 2.6 | 80 | | | 1834 | 3.0 | 90 | | | 1751 | 3.3 | 100 | | | ● | | | | | 0928 | 1.3 | 40 | |
| | 2202 | 2.3 | 70 | | | 2249 | 2.3 | 70 | | | | | | | | | | | | | ○ | | | | | 1746 | 3.3 | 100 | |
| 6 W | 0426 | 3.3 | 100 | | 21 Th | 0416 | 3.0 | 90 | | 6 Sa | 0101 | 2.0 | 60 | | 21 Su | 0053 | 2.0 | 60 | | 6 Tu | 0922 | 1.0 | 30 | | 21 W | 0843 | 1.3 | 40 | |
| | 1214 | 1.3 | 40 | | | 1141 | 1.0 | 30 | | | 0345 | 2.3 | 70 | | | 0402 | 2.0 | 60 | | | 1751 | 3.3 | 100 | | | 1802 | 3.3 | 100 | |
| | 2013 | 2.6 | 80 | | | 1828 | 2.6 | 80 | | | 1032 | 1.0 | 30 | | | 1048 | 1.3 | 40 | | | | | | | | | | | |
| | 2308 | 2.3 | 70 | | | 2345 | 2.3 | 70 | | ○ | 1835 | 3.0 | 90 | | | 1814 | 3.3 | 100 | | | | | | | | | | | |
| 7 Th | 0408 | 3.0 | 90 | | 22 F | 0404 | 2.6 | 80 | | 7 Su | 1021 | 1.0 | 30 | | 22 M | 1025 | 1.3 | 40 | | 7 W | 0932 | 1.0 | 30 | | 22 Th | 0836 | 1.0 | 30 | |
| | 1204 | 1.3 | 40 | | | 1151 | 1.3 | 40 | | | 1830 | 3.3 | 100 | | | 1839 | 3.3 | 100 | | | 1809 | 3.0 | 90 | | | 1817 | 3.0 | 90 | |
| | 2045 | 2.6 | 80 | | | 1851 | 3.0 | 90 | | | | | | | ○ | | | | | | 2205 | 2.6 | 80 | | | | | | |
| 8 F | 0050 | 2.6 | 80 | | 23 Sa | 0123 | 2.3 | 70 | | 8 M | 1004 | 1.0 | 30 | | 23 Tu | 0933 | 1.0 | 30 | | 8 Th | 0009 | 3.0 | 90 | | 23 F | 0838 | 1.0 | 30 | |
| | 0353 | 2.6 | 80 | | | 0325 | 2.3 | 70 | | | 1848 | 3.0 | 90 | | | 1915 | 3.0 | 90 | | | 0950 | 1.0 | 30 | | | | | | |
| | 1143 | 1.3 | 40 | | | 1143 | 1.3 | 40 | | | | | | | | | | | | | 1804 | 2.6 | 80 | | | | | | |
| | 2128 | 3.0 | 90 | | ○ | 1921 | 3.0 | 90 | | | | | | | | | | | | | 2141 | 2.6 | 80 | | | | | | |
| 9 Sa | 1114 | 1.3 | 40 | | 24 Su | 1109 | 1.3 | 40 | | 9 Tu | 1004 | 0.7 | 20 | | 24 W | 0928 | 1.0 | 30 | | 9 F | 0111 | 3.0 | 90 | | 24 Sa | 0017 | 3.0 | 90 | |
| | 2223 | 3.0 | 90 | | | 2004 | 3.0 | 90 | | | 1932 | 3.0 | 90 | | | 2057 | 3.0 | 90 | | | 1003 | 1.0 | 30 | | | 0853 | 1.0 | 30 | |
| | | | | | | | | | | | 2139 | 3.0 | 90 | | | | | | | | 1747 | 2.6 | 80 | | | 1621 | 2.6 | 80 | |
| | | | | | | | | | | | | | | | | | | | | | 2032 | 2.6 | 80 | | | 2038 | 2.6 | 80 | |
| 10 Su | 1044 | 1.0 | 30 | | 25 M | 1004 | 1.3 | 40 | | 10 W | 0017 | 3.0 | 90 | | 25 Th | 0933 | 1.0 | 30 | | 10 Sa | 0151 | 3.0 | 90 | | 25 Su | 0118 | 3.0 | 90 | |
| | 2328 | 3.3 | 100 | | | 2227 | 3.0 | 90 | | | 1023 | 0.7 | 20 | | | | | | | | 0943 | 1.3 | 40 | | | 0909 | 1.0 | 30 | |
| | | | | | | | | | | | | | | | | | | | | | 1644 | 2.6 | 80 | | | 1551 | 3.0 | 90 | |
| | | | | | | | | | | | | | | | | | | | | | 2039 | 2.3 | 70 | | | 2051 | 2.3 | 70 | |
| 11 M | 1025 | 1.0 | 30 | | 26 Tu | 0956 | 1.0 | 30 | | 11 Th | 0116 | 3.3 | 100 | | 26 F | 0047 | 3.3 | 100 | | 11 Su | 0224 | 3.0 | 90 | | 26 M | 0204 | 3.0 | 90 | |
| | | | | | | | | | | | 1044 | 0.7 | 20 | | | 0944 | 0.7 | 20 | | | 0927 | 1.3 | 40 | | | 0914 | 1.3 | 40 | |
| | | | | | | | | | | | | | | | | | | | | | 1615 | 2.6 | 80 | | | 1542 | 3.0 | 90 | |
| | | | | | | | | | | | | | | | | | | | | | 2057 | 2.0 | 60 | | | 2115 | 2.0 | 60 | |
| 12 Tu | 0028 | 3.3 | 100 | | 27 W | 0005 | 3.3 | 100 | | 12 F | 0158 | 3.3 | 100 | | 27 Sa | 0132 | 3.3 | 100 | | 12 M | 0251 | 3.0 | 90 | | 27 Tu | 0247 | 3.0 | 90 | |
| | 1044 | 0.7 | 20 | | | 1002 | 0.7 | 20 | | | 1057 | 0.7 | 20 | | | 1002 | 0.7 | 20 | | | 0921 | 1.3 | 40 | | | 0907 | 1.3 | 40 | |
| | | | | | | | | | | | | | | | | | | | | | 1600 | 2.6 | 80 | | | 1547 | 3.3 | 100 | |
| | | | | | | | | | | | | | | | | | | | | | 2121 | 2.0 | 60 | | ○ | 2147 | 1.6 | 50 | |
| 13 W | 0117 | 3.6 | 110 | | 28 Th | 0059 | 3.3 | 100 | | 13 Sa | 0230 | 3.3 | 100 | | 28 Su | 0211 | 3.3 | 100 | | 13 Tu | 0318 | 3.0 | 90 | | 28 W | 0327 | 2.6 | 80 | |
| | 1108 | 0.7 | 20 | | | 1014 | 0.7 | 20 | | | 1044 | 1.0 | 30 | | | 1017 | 0.7 | 20 | | | 0921 | 1.3 | 40 | | | 0906 | 1.6 | 50 | |
| | | | | | | | | | | | 1753 | 2.3 | 70 | | | 1651 | 2.6 | 80 | | | 1559 | 3.0 | 90 | | | 1559 | 3.3 | 100 | |
| | | | | | | | | | | | 1913 | 2.3 | 70 | | | 2029 | 2.3 | 70 | | | 2147 | 1.6 | 50 | | | 2220 | 1.3 | 40 | |
| 14 Th | 0158 | 3.6 | 110 | | 29 F | 0141 | 3.6 | 110 | | 14 Su | 0258 | 3.3 | 100 | | 29 M | 0248 | 3.3 | 100 | | 14 W | 0344 | 3.0 | 90 | | 29 Th | 0402 | 2.3 | 70 | |
| | 1132 | 0.7 | 20 | | | 1035 | 0.7 | 20 | | | 1032 | 1.0 | 30 | | | 1023 | 1.0 | 30 | | | 0927 | 1.3 | 40 | | | 0859 | 1.6 | 50 | |
| | | | | | | | | | | | 1721 | 2.3 | 70 | | | 1649 | 2.6 | 80 | | | | | | | | | | | |

Darwin, Australia, 2011

Times and Heights of High and Low Waters

| January | | | | February | | | | March | | | | | | |
|-----------------|--------|------|------|----------|-----------------|------|--------|-------|------|-----------------|------|------|--------|----|
| Time | Height | | Time | Height | | Time | Height | | Time | Height | | Time | Height | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm |
| 1 Sa | 0210 | 18.0 | 550 | | 16 Su | 0116 | 16.4 | 500 | | 1 Tu | 0441 | 18.0 | 550 | |
| | 0940 | 5.9 | 180 | | | 0916 | 8.2 | 250 | | | 1134 | 5.9 | 180 | |
| | 1632 | 20.0 | 610 | | | 1626 | 18.7 | 570 | | | 1811 | 22.3 | 680 | |
| | 2218 | 12.5 | 380 | | | 2154 | 13.5 | 410 | | 16 W | 0402 | 17.7 | 540 | |
| 2 Su | 0330 | 18.4 | 560 | | | 0532 | 19.4 | 590 | | | 1101 | 6.2 | 190 | |
| | 1043 | 4.9 | 150 | | | 1215 | 4.9 | 150 | | | 1736 | 22.0 | 670 | |
| | 1731 | 21.7 | 660 | | | 1847 | 23.3 | 710 | | | 2336 | 10.5 | 320 | |
| | 2325 | 11.5 | 350 | | 17 M | 0307 | 16.7 | 510 | | 17 Th | 0459 | 19.7 | 600 | |
| 3 M | 0430 | 19.0 | 580 | | | 1025 | 6.9 | 210 | | | 1149 | 4.6 | 140 | |
| | 1134 | 4.3 | 130 | | | 1715 | 20.3 | 620 | | | 1816 | 23.6 | 720 | |
| | 1819 | 23.0 | 700 | | | 2301 | 12.5 | 380 | | 2 W | 0451 | 18.4 | 560 | |
| 4 Tu | 0016 | 10.5 | 320 | | | 0414 | 18.0 | 550 | | | 1124 | 7.2 | 220 | |
| | 0520 | 19.7 | 600 | | | 1118 | 5.2 | 160 | | | 1748 | 21.7 | 660 | |
| | 1217 | 3.6 | 110 | | | 1758 | 22.3 | 680 | | 3 Th | 0007 | 9.2 | 280 | |
| | 1900 | 24.0 | 730 | | | 2348 | 10.8 | 330 | | | 0535 | 19.7 | 600 | |
| 5 W | 0057 | 9.2 | 280 | | | 0505 | 19.4 | 590 | | | 1202 | 6.2 | 190 | |
| | 0605 | 20.7 | 630 | | | 1202 | 3.9 | 120 | | | 1819 | 22.6 | 690 | |
| | 1254 | 3.3 | 100 | | | 1840 | 23.6 | 720 | | 4 F | 0036 | 7.9 | 240 | |
| | 1937 | 24.3 | 740 | | | 0031 | 9.5 | 290 | | | 0612 | 21.0 | 640 | |
| 6 Th | 0133 | 8.5 | 260 | | | 0551 | 21.0 | 640 | | | 1232 | 5.6 | 170 | |
| | 0647 | 21.0 | 640 | | | 1244 | 2.6 | 80 | | | 1847 | 23.3 | 710 | |
| | 1328 | 3.3 | 100 | | | 1918 | 24.9 | 760 | | 5 Sa | 0102 | 6.9 | 210 | |
| | 2008 | 24.3 | 740 | | | 0111 | 8.2 | 250 | | | 0645 | 22.3 | 680 | |
| 7 F | 0208 | 8.2 | 250 | | | 0637 | 22.3 | 680 | | | 1258 | 5.2 | 160 | |
| | 0726 | 21.3 | 650 | | | 1321 | 2.0 | 60 | | | 1910 | 23.6 | 720 | |
| | 1359 | 3.9 | 120 | | | 1954 | 25.6 | 780 | | 6 Su | 0125 | 5.9 | 180 | |
| | 2036 | 24.0 | 730 | | | 0151 | 6.6 | 200 | | | 0716 | 23.0 | 700 | |
| 8 Sa | 0241 | 7.9 | 240 | | | 0723 | 23.0 | 700 | | | 1321 | 5.2 | 160 | |
| | 0804 | 21.0 | 640 | | | 1357 | 2.3 | 70 | | | 1929 | 24.0 | 730 | |
| | 1426 | 4.6 | 140 | | | 2027 | 25.9 | 790 | | 7 M | 0149 | 5.2 | 160 | |
| | 2100 | 23.6 | 720 | | | 0232 | 5.6 | 170 | | | 0746 | 23.3 | 710 | |
| 9 Su | 0312 | 7.9 | 240 | | | 0810 | 23.3 | 710 | | | 1343 | 5.6 | 170 | |
| | 0841 | 20.7 | 630 | | | 1432 | 3.0 | 90 | | | 1947 | 23.6 | 720 | |
| | 1449 | 5.9 | 180 | | | 2056 | 25.6 | 780 | | 8 Tu | 0214 | 4.9 | 150 | |
| | 2121 | 23.0 | 700 | | | 0313 | 4.9 | 150 | | | 0814 | 23.3 | 710 | |
| 10 M | 0345 | 7.9 | 240 | | | 0856 | 23.0 | 700 | | | 1403 | 6.2 | 190 | |
| | 0918 | 20.0 | 610 | | | 1506 | 4.6 | 140 | | | 2005 | 23.3 | 710 | |
| | 1510 | 7.2 | 220 | | | 2125 | 24.9 | 760 | | 9 W | 0241 | 4.6 | 140 | |
| | 2142 | 22.3 | 680 | | | 0354 | 4.6 | 140 | | | 0842 | 23.0 | 700 | |
| 11 Tu | 0418 | 8.2 | 250 | | | 0944 | 22.3 | 680 | | | 1425 | 7.2 | 220 | |
| | 0958 | 19.0 | 580 | | | 1540 | 6.6 | 200 | | | 2024 | 22.6 | 690 | |
| | 1533 | 8.9 | 270 | | | 2154 | 23.6 | 720 | | 10 Th | 0309 | 4.9 | 150 | |
| | 2204 | 21.0 | 640 | | | 0439 | 4.9 | 150 | | | 0912 | 22.3 | 680 | |
| 12 W | 0457 | 8.5 | 260 | | | 1035 | 20.7 | 630 | | | 1447 | 8.2 | 250 | |
| | 1044 | 18.0 | 550 | | | 1614 | 8.9 | 270 | | | 2043 | 22.0 | 670 | |
| | 1604 | 10.5 | 320 | | | 2223 | 22.0 | 670 | | 11 F | 0340 | 5.9 | 180 | |
| | 2229 | 20.0 | 610 | | | 0526 | 5.9 | 180 | | | 0945 | 21.3 | 650 | |
| 13 Th | 0542 | 8.9 | 270 | | | 1132 | 19.0 | 580 | | | 1511 | 9.5 | 290 | |
| | 1141 | 17.1 | 520 | | | 1655 | 11.2 | 340 | | | 2102 | 20.7 | 630 | |
| | 1656 | 12.1 | 370 | | | 2256 | 20.3 | 620 | | 12 Sa | 0413 | 6.9 | 210 | |
| | 2301 | 18.7 | 570 | | | 0623 | 6.9 | 210 | | | 1024 | 20.0 | 610 | |
| 14 F | 0638 | 8.9 | 270 | | | 1247 | 17.7 | 540 | | | 1539 | 11.2 | 340 | |
| | 1256 | 16.4 | 500 | | | 1812 | 13.5 | 410 | | | 2124 | 19.4 | 590 | |
| | 1826 | 13.5 | 410 | | | 2344 | 18.4 | 560 | | 13 Su | 0453 | 8.2 | 250 | |
| | 2348 | 17.4 | 530 | | | 0742 | 7.9 | 240 | | | 1116 | 18.7 | 570 | |
| 15 Sa | 0749 | 8.9 | 270 | | | 1446 | 17.7 | 540 | | | 1631 | 12.8 | 390 | |
| | 1500 | 17.1 | 520 | | | 2029 | 14.1 | 430 | | | 2154 | 17.7 | 540 | |
| | 2013 | 14.1 | 430 | | | 0132 | 16.7 | 510 | | 14 M | 0549 | 9.2 | 280 | |
| | | | | | | 0921 | 7.9 | 240 | | | 1233 | 17.4 | 530 | |
| | | | | | | 1631 | 19.0 | 580 | | | 1828 | 14.1 | 430 | |
| | | | | | | 2239 | 13.1 | 400 | | | 2301 | 16.1 | 490 | |
| | | | | | | 0332 | 17.1 | 520 | | 15 Tu | 0721 | 9.8 | 300 | |
| | | | | | | 1040 | 6.9 | 210 | | | 1443 | 17.7 | 540 | |
| | | | | | | 1728 | 20.7 | 630 | | | 2057 | 13.5 | 410 | |
| | | | | | | 2342 | 11.5 | 350 | | 16 W | 0340 | 16.7 | 510 | |
| | | | | | | | | | | | 0959 | 9.8 | 300 | |
| | | | | | | | | | | | 1628 | 19.0 | 580 | |
| | | | | | | | | | | | 2302 | 9.8 | 300 | |
| | | | | | | | | | | | 0435 | 18.4 | 560 | |
| | | | | | | | | | | | 1055 | 8.9 | 270 | |
| | | | | | | | | | | | 1706 | 20.3 | 620 | |
| | | | | | | | | | | | 2334 | 8.5 | 260 | |

Time meridian 142° 30' E. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to the chart datum of soundings.

Darwin, Australia, 2011

Times and Heights of High and Low Waters

| July | | | | August | | | | September | | | | | | | | | | | | | | | |
|-----------------|--------|------|------|-----------------|-------|------|--------|-----------------|------|--------|-----|-----------------|--------|------|------|-----------------|------|------|------|-----------------|------|------|-----|
| Time | Height | | Time | Height | | Time | Height | | Time | Height | | Time | Height | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | |
| 1 F | 0636 | 22.0 | 670 | 16 Sa | 0039 | 3.3 | 100 | 1 M | 0103 | 2.6 | 80 | 16 Tu | 0132 | 3.9 | 120 | 1 Th | 0154 | 3.3 | 100 | 16 F | 0151 | 6.2 | 190 |
| | 1220 | 9.2 | 280 | | 0718 | 23.3 | 710 | | 0731 | 24.3 | 740 | | 0750 | 23.3 | 710 | | 0757 | 24.9 | 760 | | 0747 | 22.3 | 680 |
| | 1747 | 19.7 | 600 | | 1316 | 7.2 | 220 | | 1328 | 5.9 | 180 | | 1402 | 4.9 | 150 | | 1424 | 1.6 | 50 | | 1420 | 3.6 | 110 |
| 2 Sa | 0037 | 3.6 | 110 | 17 Su | 0118 | 3.0 | 90 | 2 Tu | 0139 | 2.3 | 70 | 17 W | 0157 | 4.6 | 140 | 2 F | 0227 | 4.6 | 140 | 17 Sa | 0214 | 6.9 | 210 |
| | 0714 | 23.0 | 700 | | 0753 | 23.6 | 720 | | 0803 | 24.6 | 750 | | 0810 | 23.0 | 700 | | 0825 | 24.3 | 740 | | 0807 | 21.7 | 660 |
| | 1257 | 8.2 | 250 | | 1352 | 6.6 | 200 | | 1407 | 4.6 | 140 | | 1429 | 4.9 | 150 | | 1502 | 1.6 | 50 | | 1449 | 4.3 | 130 | 2100 | 21.7 | 660 |
| 3 Su | 0116 | 3.0 | 90 | 18 M | 0153 | 3.3 | 100 | 3 W | 0214 | 3.0 | 90 | 18 Th | 0220 | 5.2 | 160 | 3 Sa | 0302 | 6.2 | 190 | 18 Su | 0238 | 8.2 | 250 |
| | 0751 | 23.6 | 720 | | 0822 | 23.3 | 710 | | 0832 | 24.6 | 750 | | 0858 | 22.6 | 690 | | 0854 | 23.0 | 700 | | 0827 | 20.7 | 630 |
| | 1336 | 7.2 | 220 | | 1427 | 6.2 | 190 | | 1446 | 3.6 | 110 | | 1543 | 4.9 | 150 | | 1543 | 2.6 | 80 | | 1519 | 5.2 | 160 | 2133 | 20.7 | 630 |
| 4 M | 0152 | 3.0 | 90 | 19 Tu | 0224 | 4.3 | 130 | 4 Th | 0248 | 3.9 | 120 | 19 F | 0241 | 6.6 | 200 | 4 Su | 0340 | 8.2 | 250 | 19 M | 0305 | 9.2 | 280 |
| | 0825 | 23.6 | 720 | | 0848 | 23.0 | 700 | | 0900 | 24.0 | 730 | | 0846 | 21.7 | 660 | | 0924 | 21.3 | 650 | | 0848 | 19.4 | 590 |
| | 1417 | 6.6 | 200 | | 1500 | 6.2 | 190 | | 1526 | 3.3 | 100 | | 1524 | 5.2 | 160 | | 1626 | 4.3 | 130 | | 1554 | 6.6 | 200 | 2212 | 19.7 | 600 |
| 5 Tu | 0229 | 3.3 | 100 | 20 W | 0252 | 5.2 | 160 | 5 F | 0324 | 5.6 | 170 | 20 Sa | 0303 | 7.9 | 240 | 5 M | 0423 | 10.5 | 320 | 20 Tu | 0340 | 10.8 | 330 |
| | 0858 | 23.6 | 720 | | 0910 | 22.3 | 680 | | 0929 | 23.0 | 700 | | 0906 | 20.7 | 630 | | 0959 | 19.0 | 580 | | 0909 | 18.0 | 550 |
| | 1500 | 6.2 | 190 | | 1532 | 6.2 | 190 | | 1609 | 3.6 | 110 | | 1556 | 5.9 | 180 | | 1718 | 6.2 | 190 | | 1636 | 7.9 | 240 | 2302 | 18.4 | 560 |
| 6 W | 0307 | 4.3 | 130 | 21 Th | 0317 | 6.6 | 200 | 6 Sa | 0402 | 7.5 | 230 | 21 Su | 0330 | 9.2 | 280 | 6 Tu | 0536 | 12.1 | 370 | 21 W | 0439 | 12.1 | 370 |
| | 0929 | 23.3 | 710 | | 0931 | 21.3 | 650 | | 0959 | 21.7 | 660 | | 0926 | 19.4 | 590 | | 1047 | 16.7 | 510 | | 0938 | 16.7 | 510 |
| | 1545 | 5.9 | 180 | | 1604 | 6.6 | 200 | | 1655 | 4.6 | 140 | | 1632 | 6.9 | 210 | | 1831 | 7.9 | 240 | | 1736 | 8.9 | 270 |
| 7 Th | 0346 | 5.6 | 170 | 22 F | 0341 | 7.9 | 240 | 7 Su | 0446 | 9.8 | 300 | 22 M | 0406 | 10.8 | 330 | 7 W | 0117 | 17.4 | 530 | 22 Th | 0012 | 17.4 | 530 |
| | 1002 | 22.3 | 680 | | 0952 | 20.3 | 620 | | 1032 | 19.7 | 600 | | 0947 | 18.0 | 550 | | 1306 | 15.1 | 460 | | 0619 | 13.1 | 400 |
| | 1632 | 5.9 | 180 | | 1639 | 7.2 | 220 | | 1748 | 5.9 | 180 | | 1719 | 7.9 | 240 | | 2017 | 8.5 | 260 | | 1043 | 15.1 | 460 |
| 8 F | 0429 | 7.2 | 220 | 23 Sa | 0413 | 9.5 | 290 | 8 M | 0009 | 18.4 | 560 | 23 Tu | 0513 | 12.5 | 380 | 8 Th | 0320 | 17.7 | 540 | 23 F | 0155 | 17.4 | 530 |
| | 1037 | 21.3 | 650 | | 1015 | 19.0 | 580 | | 1117 | 17.7 | 540 | | 1013 | 16.4 | 500 | | 1528 | 16.1 | 490 | | 0836 | 12.5 | 380 |
| | 1724 | 5.9 | 180 | | 1722 | 7.5 | 230 | | 1858 | 6.9 | 210 | | 1821 | 8.9 | 270 | | 2154 | 7.9 | 240 | | 1408 | 14.8 | 450 |
| 9 Sa | 0518 | 9.2 | 280 | 24 Su | 0503 | 11.2 | 340 | 9 Tu | 0140 | 17.4 | 530 | 24 W | 0055 | 16.4 | 500 | 9 F | 0430 | 19.4 | 590 | 24 Sa | 0331 | 18.7 | 570 |
| | 1116 | 20.0 | 610 | | 1044 | 17.7 | 540 | | 1250 | 16.1 | 490 | | 0654 | 13.5 | 410 | | 1103 | 9.5 | 290 | | 1000 | 10.8 | 330 |
| | 1823 | 6.2 | 190 | | 1813 | 8.2 | 250 | | 2032 | 7.2 | 220 | | 1119 | 15.1 | 460 | | 1630 | 18.0 | 550 | | 1539 | 17.1 | 520 |
| 10 Su | 0037 | 18.4 | 560 | 25 M | 0031 | 16.7 | 510 | 10 W | 0333 | 18.0 | 550 | 25 Th | 0300 | 17.1 | 520 | 10 Sa | 0516 | 20.7 | 630 | 25 Su | 0424 | 20.3 | 620 |
| | 0624 | 10.8 | 330 | | 0615 | 12.5 | 380 | | 0948 | 12.1 | 370 | | 0902 | 12.8 | 390 | | 1141 | 7.9 | 240 | | 1046 | 8.5 | 260 |
| | 1206 | 18.4 | 560 | | 1129 | 16.4 | 500 | | 1507 | 16.1 | 490 | | 1429 | 14.8 | 450 | | 1715 | 19.7 | 600 | | 1632 | 19.4 | 590 |
| 11 M | 0204 | 18.0 | 550 | 26 Tu | 0201 | 16.4 | 500 | 11 Th | 0449 | 19.7 | 600 | 26 F | 0418 | 18.7 | 570 | 11 Su | 0553 | 21.7 | 660 | 26 M | 0506 | 22.0 | 670 |
| | 0754 | 11.8 | 360 | | 0747 | 13.1 | 400 | | 1108 | 10.5 | 320 | | 1028 | 11.5 | 350 | | 1213 | 6.6 | 200 | | 1127 | 6.2 | 190 |
| | 1323 | 17.4 | 530 | | 1256 | 15.4 | 470 | | 1621 | 17.4 | 530 | | 1553 | 16.7 | 510 | | 1755 | 21.0 | 640 | | 1721 | 21.7 | 660 |
| 12 Tu | 02051 | 5.9 | 180 | 27 W | 02040 | 8.2 | 250 | 12 F | 2303 | 5.6 | 170 | 27 Sa | 2234 | 6.6 | 200 | 12 M | 0011 | 5.2 | 160 | 27 Tu | 0544 | 23.3 | 710 |
| | 0338 | 19.0 | 580 | | 0348 | 17.4 | 530 | | 0540 | 21.0 | 640 | | 0506 | 20.3 | 620 | | 0622 | 22.3 | 680 | | 1206 | 3.9 | 120 |
| | 0931 | 11.8 | 360 | | 0928 | 12.5 | 380 | | 1155 | 8.9 | 270 | | 1114 | 9.5 | 290 | | 1240 | 5.6 | 170 | | 1808 | 23.6 | 720 |
| 13 W | 1456 | 17.4 | 530 | 28 Th | 1458 | 15.4 | 470 | 13 Sa | 1715 | 19.0 | 580 | 28 Su | 1644 | 18.7 | 570 | 13 Tu | 1830 | 22.0 | 670 | 28 W | 0021 | 4.3 | 130 |
| | 2203 | 5.2 | 160 | | 2157 | 7.2 | 220 | | 2352 | 4.6 | 140 | | 2324 | 4.9 | 150 | | 0040 | 4.9 | 150 | | 0618 | 24.3 | 740 |
| | 0452 | 20.3 | 620 | | 0448 | 19.0 | 580 | | 0621 | 22.3 | 680 | | 0546 | 22.3 | 680 | | 1306 | 4.6 | 140 | | 1244 | 2.0 | 60 |
| 14 Th | 1051 | 10.8 | 330 | 29 F | 1042 | 11.5 | 350 | 14 Su | 1233 | 7.5 | 230 | 29 M | 1153 | 7.5 | 230 | 14 W | 1902 | 22.6 | 690 | 29 Th | 0057 | 4.3 | 130 |
| | 1608 | 18.0 | 550 | | 1605 | 16.7 | 510 | | 1759 | 20.3 | 620 | | 1732 | 20.7 | 630 | | 0105 | 5.2 | 160 | | 0649 | 24.9 | 760 |
| | 2304 | 4.6 | 140 | | 2254 | 5.9 | 180 | | 0030 | 4.3 | 130 | | 0067 | 23.0 | 700 | | 0709 | 23.0 | 700 | | 1321 | 0.7 | 20 |
| 15 F | 0550 | 21.7 | 660 | 30 Sa | 0534 | 20.7 | 630 | 15 M | 0657 | 23.0 | 700 | 30 Tu | 1232 | 5.6 | 170 | 15 Th | 1330 | 3.9 | 120 | 30 F | 0132 | 4.6 | 140 |
| | 1150 | 9.5 | 290 | | 1130 | 10.2 | 310 | | 1305 | 6.2 | 190 | | 0625 | 23.6 | 720 | | 1932 | 23.0 | 700 | | 0720 | 24.6 | 750 |
| | 1703 | 19.0 | 580 | | 1653 | 18.4 | 560 | | 1838 | 21.3 | 650 | | 1232 | 5.6 | 170 | | 0128 | 5.6 | 170 | | 1358 | 0.3 | 10 |
| 15 O | 2355 | 3.6 | 110 | 31 Su | 2342 | 4.6 | 140 | 31 M | 0103 | 3.9 | 120 | 31 W | 1817 | 22.3 | 680 | 15 Th | 2002 | 22.6 | 690 | 31 F | 2017 | 25.3 | 770 |
| | 0638 | 22.6 | 690 | | 0616 | 22.0 | 670 | | 0726 | 23.3 | 710 | | 0045 | 3.0 | 90 | | 0128 | 5.6 | 170 | | 0132 | 4.6 | 140 |
| | 1236 | 8.2 | 250 | | 1210 | 8.5 | 260 | | 1334 | 5.6 | 170 | | 0659 | 24.6 | 750 | | 1354 | 3.6 | 110 | | 0728 | 22.6 | 690 |
| 15 O | 1751 | 20.0 | 610 | 31 Su | 1737 | 20.0 | 610 | 31 M | 1915 | 21.7 | 660 | 31 W | 1902 | 24.0 | 730 | 15 Th | 2002 | 22.6 | 690 | 31 F | 2017 | 25.3 | 770 |
| | | | | | 0024 | 3.3 | 100 | | 0730 | 24.9 | 760 | | 0120 | 2.6 | 80 | | 0128 | 5.6 | 170 | | 0132 | 4.6 | 140 |
| | | | | | 0654 | 23.3 | 710 | | 1347 | 2.3 | 70 | | 0730 | 24.9 | 760 | | 1354 | 3.6 | 110 | | 0728 | 22.6 | 690 |
| | | | 1250 | 7.2 | 220 | 1821 | 21.3 | 650 | 1945 | 24.6 | 750 | 1945 | 24.6 | 750 | 2002 | 22.6 | 690 | 2017 | 25.3 | 770 | | | |

Time meridian 142° 30' E. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to the chart datum of soundings.

Darwin, Australia, 2011

Times and Heights of High and Low Waters

| October | | | | November | | | | December | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|--------|------|-----|----------|-----------------|------|------|----------|--------|-----------------|------|------|--------|----|-----------------|------|------|-----|----|-----------------|------|------|-----|--|-----------------|------|------|-----|--|-----------------|------|------|-----|--|
| Time | Height | | | Time | Height | | | Time | Height | | | Time | Height | | | | | | | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | | | | | | |
| 1 Sa | 0208 | 5.9 | 180 | | 16 Su | 0154 | 7.5 | 230 | | 1 Tu | 0322 | 9.2 | 280 | | 16 W | 0249 | 9.2 | 280 | | 1 Th | 0414 | 9.2 | 280 | | 16 F | 0332 | 8.5 | 260 | | | | | | |
| | 0751 | 24.0 | 730 | | | 0735 | 21.3 | 650 | | | 0846 | 20.0 | 610 | | | 0817 | 19.7 | 600 | | | 0932 | 18.7 | 570 | | | 0900 | 20.0 | 610 | | | | | | |
| | 1437 | 1.0 | 30 | | | 1420 | 3.9 | 120 | | | 1540 | 4.9 | 150 | | | 1503 | 5.6 | 170 | | | 1602 | 7.2 | 220 | | | 1526 | 5.9 | 180 | | | | | | |
| | 2058 | 24.3 | 740 | | | 2041 | 22.6 | 690 | | | 2215 | 21.7 | 660 | | | 2138 | 22.0 | 670 | | | 2235 | 21.3 | 650 | | | 2201 | 22.6 | 690 | | | | | | |
| 2 Su | 0246 | 7.2 | 220 | | 17 M | 0222 | 8.5 | 260 | | 2 W | 0421 | 10.5 | 320 | | 17 Th | 0333 | 9.8 | 300 | | 2 F | 0513 | 9.8 | 300 | | 17 Sa | 0423 | 8.5 | 260 | | 17 Su | 0423 | 8.5 | 260 | |
| | 0824 | 22.6 | 690 | | | 0801 | 20.7 | 630 | | | 0936 | 18.0 | 550 | | | 0857 | 18.7 | 570 | | | 1034 | 17.4 | 530 | | | 0953 | 19.0 | 580 | | | | | | |
| | 1518 | 2.3 | 70 | | | 1451 | 4.9 | 150 | | | 1630 | 7.2 | 220 | | | 1542 | 6.9 | 210 | | | 1647 | 9.2 | 280 | | | 1606 | 7.5 | 230 | | | | | | |
| | 2141 | 22.6 | 690 | | | 2114 | 21.7 | 660 | | | 2304 | 20.0 | 610 | | | 2220 | 21.0 | 640 | | | 2315 | 20.0 | 610 | | | 2239 | 21.7 | 660 | | | | | | |
| 3 M | 0326 | 8.9 | 270 | | 18 Tu | 0255 | 9.5 | 290 | | 3 Th | 0540 | 11.2 | 340 | | 18 F | 0430 | 10.5 | 320 | | 3 Sa | 0617 | 9.8 | 300 | | 18 Su | 0518 | 8.5 | 260 | | 18 M | 0518 | 8.5 | 260 | |
| | 0900 | 20.7 | 630 | | | 0826 | 19.4 | 590 | | | 1049 | 16.1 | 490 | | | 0949 | 17.4 | 530 | | | 1151 | 16.1 | 490 | | | 1058 | 18.0 | 550 | | | | | | |
| | 1602 | 4.6 | 140 | | | 1524 | 6.2 | 190 | | | 1732 | 9.2 | 280 | | | 1631 | 8.2 | 250 | | | 1744 | 10.8 | 330 | | | 1658 | 9.2 | 280 | | | | | | |
| | 2229 | 21.0 | 640 | | | 2151 | 20.7 | 630 | | | 2310 | 20.0 | 610 | | | 2310 | 20.0 | 610 | | | | | | | | 2322 | 20.7 | 630 | | | | | | |
| 4 Tu | 0417 | 10.8 | 330 | | 19 W | 0334 | 10.5 | 320 | | 4 F | 0004 | 18.7 | 570 | | 19 Sa | 0543 | 10.8 | 330 | | 4 Su | 0000 | 19.0 | 580 | | 19 M | 0621 | 8.2 | 250 | | 19 Tu | 0621 | 8.2 | 250 | |
| | 0940 | 18.4 | 560 | | | 0855 | 18.0 | 550 | | | 0713 | 11.2 | 340 | | | 1108 | 16.4 | 500 | | | 0725 | 9.5 | 290 | | | 1219 | 17.7 | 540 | | | | | | |
| | 1654 | 6.9 | 210 | | | 1604 | 7.5 | 230 | | | 1250 | 15.4 | 470 | | | 1737 | 9.8 | 300 | | | 1323 | 16.1 | 490 | | | 1807 | 10.8 | 330 | | | | | | |
| | 2327 | 19.0 | 580 | | | 2238 | 19.4 | 590 | | | 1853 | 10.8 | 330 | | | | | | | | 1857 | 12.1 | 370 | | | | | | | | | | | |
| 5 W | 0543 | 12.1 | 370 | | 20 Th | 0432 | 11.8 | 360 | | 5 Sa | 0116 | 18.0 | 550 | | 20 Su | 0010 | 19.4 | 590 | | 5 M | 0057 | 18.0 | 550 | | 20 Tu | 0015 | 19.7 | 600 | | 20 W | 0015 | 19.7 | 600 | |
| | 1044 | 16.1 | 490 | | | 0936 | 16.7 | 510 | | | 0842 | 9.8 | 300 | | | 0706 | 10.2 | 310 | | | 0833 | 8.9 | 270 | | | 0733 | 7.5 | 230 | | | | | | |
| | 1805 | 8.9 | 270 | | | 1700 | 8.9 | 270 | | | 1440 | 16.4 | 500 | | | 1256 | 16.4 | 500 | | | 1458 | 17.1 | 520 | | | 1353 | 18.0 | 550 | | | | | | |
| | | | | | | 2339 | 18.7 | 570 | | | 2021 | 11.2 | 340 | | | 1903 | 10.5 | 320 | | | 2019 | 12.5 | 380 | | | 1937 | 12.1 | 370 | | | | | | |
| 6 Th | 0045 | 17.7 | 540 | | 21 F | 0601 | 12.5 | 380 | | 6 Su | 0234 | 18.0 | 550 | | 21 M | 0118 | 19.4 | 590 | | 6 Tu | 0208 | 17.7 | 540 | | 21 W | 0121 | 19.0 | 580 | | 21 Th | 0121 | 19.0 | 580 | |
| | 0754 | 12.1 | 370 | | | 1101 | 15.4 | 470 | | | 0945 | 8.5 | 260 | | | 0825 | 8.5 | 260 | | | 0933 | 7.9 | 240 | | | 0848 | 6.6 | 200 | | | | | | |
| | 1328 | 15.1 | 460 | | | 1819 | 9.8 | 300 | | | 1547 | 18.0 | 550 | | | 1436 | 17.7 | 540 | | | 1605 | 18.4 | 560 | | | 1526 | 19.4 | 590 | | | | | | |
| | 1947 | 9.8 | 300 | | | | | | | | 2138 | 10.8 | 330 | | | 2032 | 10.5 | 320 | | | 2140 | 12.1 | 370 | | | 2109 | 12.1 | 370 | | | | | | |
| 7 F | 0231 | 17.7 | 540 | | 22 Sa | 0059 | 18.0 | 550 | | 7 M | 0333 | 18.7 | 570 | | 22 Tu | 0227 | 19.7 | 600 | | 7 W | 0314 | 17.7 | 540 | | 22 Th | 0238 | 19.0 | 580 | | 22 F | 0238 | 19.0 | 580 | |
| | 0941 | 10.5 | 320 | | | 0755 | 11.5 | 350 | | | 1029 | 7.2 | 220 | | | 0929 | 6.6 | 200 | | | 1020 | 6.9 | 210 | | | 0954 | 4.9 | 150 | | | | | | |
| | 1520 | 16.4 | 500 | | | 1335 | 15.4 | 470 | | | 1635 | 19.4 | 590 | | | 1550 | 20.0 | 610 | | | 1654 | 20.0 | 610 | | | 1638 | 21.0 | 640 | | | | | | |
| | 2124 | 9.5 | 290 | | | 1959 | 9.8 | 300 | | | 2232 | 10.2 | 310 | | | 2146 | 10.2 | 310 | | | 2240 | 11.5 | 350 | | | 2224 | 11.5 | 350 | | | | | | |
| 8 Sa | 0347 | 18.7 | 570 | | 23 Su | 0225 | 18.7 | 570 | | 8 Tu | 0416 | 19.4 | 590 | | 23 W | 0326 | 20.3 | 620 | | 8 Th | 0403 | 18.4 | 560 | | 23 F | 0346 | 19.7 | 600 | | 23 Sa | 0346 | 19.7 | 600 | |
| | 1034 | 8.5 | 260 | | | 0917 | 9.5 | 290 | | | 1103 | 6.2 | 190 | | | 1023 | 4.6 | 140 | | | 1058 | 5.9 | 180 | | | 1052 | 3.6 | 110 | | | | | | |
| | 1616 | 18.4 | 560 | | | 1514 | 17.4 | 530 | | | 1716 | 21.0 | 640 | | | 1650 | 22.0 | 670 | | | 1734 | 21.3 | 650 | | | 1736 | 23.0 | 700 | | | | | | |
| | 2226 | 8.9 | 270 | | | 2124 | 8.9 | 270 | | | 2313 | 9.5 | 290 | | | 2244 | 9.2 | 280 | | | 2323 | 10.8 | 330 | | | 2324 | 10.5 | 320 | | | | | | |
| 9 Su | 0435 | 20.0 | 610 | | 24 M | 0329 | 20.0 | 610 | | 9 W | 0449 | 20.0 | 610 | | 24 Th | 0416 | 21.3 | 650 | | 9 F | 0442 | 19.0 | 580 | | 24 Sa | 0442 | 20.3 | 620 | | 24 Su | 0442 | 20.3 | 620 | |
| | 1110 | 7.2 | 220 | | | 1009 | 7.2 | 220 | | | 1132 | 4.9 | 150 | | | 1110 | 2.6 | 80 | | | 1134 | 4.9 | 150 | | | 1143 | 2.6 | 80 | | | | | | |
| | 1700 | 20.0 | 610 | | | 1614 | 20.0 | 610 | | | 1753 | 22.0 | 670 | | | 1743 | 24.0 | 730 | | | 1809 | 22.3 | 680 | | | 1827 | 24.3 | 740 | | | | | | |
| | 2309 | 7.9 | 240 | | | 2223 | 7.9 | 240 | | | 2346 | 8.9 | 270 | | | 2334 | 8.5 | 260 | | | 2357 | 10.2 | 310 | | | | | | | | | | | |
| 10 M | 0510 | 20.7 | 630 | | 25 Tu | 0418 | 21.3 | 650 | | 10 Th | 0519 | 20.3 | 620 | | 25 F | 0501 | 22.0 | 670 | | 10 Sa | 0517 | 19.7 | 600 | | 25 Su | 0517 | 19.7 | 600 | | | | | | |
| | 1141 | 5.9 | 180 | | | 1055 | 4.9 | 150 | | | 1200 | 4.3 | 130 | | | 1155 | 1.3 | 40 | | | 1207 | 3.9 | 120 | | | 1228 | 2.0 | 60 | | | | | | |
| | 1738 | 21.3 | 650 | | | 1706 | 22.3 | 680 | | | 1827 | 23.0 | 700 | | | 1832 | 24.9 | 760 | | | 1844 | 23.0 | 700 | | | 1912 | 24.9 | 760 | | | | | | |
| | 2343 | 7.2 | 220 | | | 2313 | 6.9 | 210 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 Tu | 0538 | 21.3 | 650 | | 26 W | 0458 | 22.6 | 690 | | 11 F | 0016 | 8.5 | 260 | | 26 Sa | 0019 | 8.2 | 250 | | 11 Su | 0027 | 9.5 | 290 | | 26 M | 0102 | 8.5 | 260 | | | | | | |
| | 1207 | 4.9 | 150 | | | 1136 | 2.6 | 80 | | | 0546 | 21.0 | 640 | | | 0545 | 22.6 | 690 | | | 0552 | 20.3 | 620 | | | 0620 | 22.0 | 670 | | | | | | |
| | 1813 | 22.3 | 680 | | | 1755 | 24.3 | 740 | | | 1228 | 3.6 | 110 | | | 1237 | 0.7 | 20 | | | 1239 | 3.6 | 110 | | | 1310 | 1.6 | 50 | | | | | | |
| | | | | | | 2355 | 6.2 | 190 | | | 1859 | 23.6 | 720 | | | 1917 | 25.6 | 780 | | | 1917 | 23.6 | 720 | | | 1952 | 25.3 | 770 | | | | | | |
| 12 W | 0013 | 6.9 | 210 | | 27 Th | 0536 | 23.3 | 710 | | 12 Sa | 0043 | 8.2 | 250 | | 27 Su | 0103 | 7.9 | 240 | | 12 M | 0058 | 9.2 | 280 | | 27 Tu | 0146 | 7.9 | 240 | | | | | | |
| | 0602 | 21.7 | 660 | | | 1217 | 1.0 | 30 | | | 0615 | 21.3 | 650 | | | 0627 | 22.6 | 690 | | | 0626 | 20.7 | 630 | | | 0706 | 22.0 | 670 | | | | | | |
| | 1232 | 3.9 | 120 | | | 1841 | 25.6 | 780 | | | 1257 | 3.3 | 100 | | | 1318 | 0.7 | 20 | | | 1312 | 3.3 | 100 | | | 1350 | 2.3 | 70 | | | | | | |
| | 1845 | 23.0 | 700 | | | | | | | | 1929 | 23.6 | 720 | | | 1959 | 25.6 | 780 | | | 1949 | 24.0 | 730 | | | 2029 | 25.3 | 770 | | | | | | |
| 13 Th | 0039 | 6.9 | 210 | | 28 F | 0036 | 6.2 | 190 | | 13 Su | 0110 | 8.2 | 250 | | 28 M | 0147 | 7.9 | 240 | | 13 Tu | 0131 | 8.9 | 270 | | 28 W | 0229 | 7.5 | 230 | | | | | | |
| | 0624 | 22.0 | 670 | | | 0612 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Townsville, Australia, 2011

Times and Heights of High and Low Waters

| January | | | | February | | | | March | | | | | | | | | | | | | | | | | |
|-----------------|--------|------|------|----------|--|-----------------|--------|-------|------|-----------------|------|------|--------|-----------------|------|------|------|-----------------|------|------|------|-----------------|------|------|-----|
| Time | Height | | Time | Height | | Time | Height | | Time | Height | | Time | Height | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | | |
| 1 Sa | 0103 | 2.0 | 60 | | | 1 Tu | 0826 | 11.8 | 360 | 16 W | 0131 | 1.6 | 50 | 1 Tu | 0126 | 2.6 | 80 | 16 W | 0038 | 3.0 | 90 | | | | |
| | 0732 | 11.2 | 340 | | | | 0201 | 2.0 | 60 | | 0753 | 12.5 | 380 | | 0737 | 11.5 | 350 | | 0652 | 11.8 | 360 | | | | |
| | 1406 | 3.6 | 110 | | | | 1505 | 3.6 | 110 | | 1426 | 3.3 | 100 | | 1415 | 3.3 | 100 | | 1329 | 3.3 | 100 | 1329 | 3.3 | 100 | |
| | 1905 | 8.9 | 270 | | | | 2012 | 9.2 | 280 | | 1938 | 9.8 | 300 | | 1932 | 9.5 | 290 | | 1852 | 9.8 | 300 | 1852 | 9.8 | 300 | |
| 2 Su | 0136 | 1.6 | 50 | | | 2 W | 0221 | 2.0 | 60 | 17 Th | 0202 | 1.3 | 40 | 2 W | 0149 | 2.6 | 80 | 17 Th | 0111 | 2.0 | 60 | 17 Th | 0721 | 12.5 | 380 |
| | 0807 | 11.5 | 350 | | | | 0854 | 11.8 | 360 | | 0825 | 12.8 | 390 | | 0802 | 11.5 | 350 | | 0721 | 12.5 | 380 | | | | |
| | 1446 | 3.6 | 110 | | | | 1531 | 3.6 | 110 | | 1455 | 3.0 | 90 | | 1439 | 3.6 | 110 | | 1356 | 2.6 | 80 | | 1356 | 2.6 | 80 |
| | 1944 | 8.9 | 270 | | | | 2041 | 9.5 | 290 | | 2017 | 10.5 | 320 | | 1958 | 9.8 | 300 | | 1926 | 10.5 | 320 | | 1926 | 10.5 | 320 |
| 3 M | 0206 | 1.3 | 40 | | | 3 Th | 0240 | 2.0 | 60 | 18 F | 0236 | 1.0 | 30 | 3 Th | 0206 | 2.6 | 80 | 18 F | 0145 | 1.6 | 50 | 18 F | 0754 | 12.8 | 390 |
| | 0841 | 11.8 | 360 | | | | 0921 | 11.5 | 350 | | 0900 | 13.1 | 400 | | 0826 | 11.2 | 340 | | 0754 | 12.8 | 390 | | | | |
| | 1523 | 3.6 | 110 | | | | 1553 | 3.9 | 120 | | 1528 | 2.6 | 80 | | 1457 | 3.6 | 110 | | 1424 | 2.0 | 60 | | 1424 | 2.0 | 60 |
| | 2021 | 8.9 | 270 | | | | 2109 | 9.2 | 280 | | 2100 | 10.8 | 330 | | 2024 | 9.8 | 300 | | 2006 | 11.5 | 350 | | 2006 | 11.5 | 350 |
| 4 Tu | 0232 | 1.6 | 50 | | | 4 F | 0300 | 2.6 | 80 | 19 Sa | 0312 | 1.3 | 40 | 4 F | 0221 | 3.0 | 90 | 19 Sa | 0222 | 1.3 | 40 | 19 Sa | 0829 | 12.8 | 390 |
| | 0915 | 11.8 | 360 | | | | 0948 | 11.2 | 340 | | 0937 | 13.1 | 400 | | 0849 | 11.2 | 340 | | 0829 | 12.8 | 390 | | | | |
| | 1558 | 3.9 | 120 | | | | 1613 | 4.3 | 130 | | 1602 | 2.6 | 80 | | 1512 | 3.6 | 110 | | 1455 | 1.6 | 50 | | 1455 | 1.6 | 50 |
| | 2056 | 8.9 | 270 | | | | 2138 | 9.2 | 280 | | 2146 | 10.8 | 330 | | 2051 | 9.8 | 300 | | 2048 | 11.8 | 360 | | 2048 | 11.8 | 360 |
| 5 W | 0258 | 1.6 | 50 | | | 5 Sa | 0322 | 3.0 | 90 | 20 Su | 0352 | 2.0 | 60 | 5 Sa | 0239 | 3.0 | 90 | 20 Su | 0302 | 2.0 | 60 | 20 Su | 0906 | 12.5 | 380 |
| | 0949 | 11.5 | 350 | | | | 1013 | 10.5 | 320 | | 1016 | 12.1 | 370 | | 0910 | 10.8 | 330 | | 0906 | 12.5 | 380 | | | | |
| | 1632 | 4.3 | 130 | | | | 1635 | 4.6 | 140 | | 1642 | 2.6 | 80 | | 1525 | 3.9 | 120 | | 1527 | 1.6 | 50 | | 1527 | 1.6 | 50 |
| | 2131 | 8.5 | 260 | | | | 2209 | 8.5 | 260 | | 2235 | 10.5 | 320 | | 2117 | 9.8 | 300 | | 2133 | 11.8 | 360 | | 2133 | 11.8 | 360 |
| 6 Th | 0324 | 2.3 | 70 | | | 6 Su | 0344 | 3.6 | 110 | 21 M | 0441 | 3.0 | 90 | 6 Su | 0259 | 3.6 | 110 | 21 M | 0348 | 2.6 | 80 | 21 M | 0945 | 11.5 | 350 |
| | 1022 | 11.2 | 340 | | | | 1037 | 9.8 | 300 | | 1058 | 11.2 | 340 | | 0929 | 10.2 | 310 | | 0945 | 11.5 | 350 | | | | |
| | 1708 | 4.6 | 140 | | | | 1700 | 4.9 | 150 | | 1728 | 3.3 | 100 | | 1538 | 3.9 | 120 | | 1603 | 2.0 | 60 | | 1603 | 2.0 | 60 |
| | 2205 | 8.2 | 250 | | | | 2244 | 8.2 | 250 | | 2329 | 9.8 | 300 | | 2146 | 9.5 | 290 | | 2222 | 11.5 | 350 | | 2222 | 11.5 | 350 |
| 7 F | 0350 | 3.0 | 90 | | | 7 M | 0404 | 4.6 | 140 | 22 Tu | 0553 | 4.6 | 140 | 7 M | 0320 | 4.3 | 130 | 22 Tu | 0447 | 3.6 | 110 | 22 Tu | 1028 | 10.5 | 320 |
| | 1054 | 10.5 | 320 | | | | 1058 | 9.2 | 280 | | 1143 | 9.8 | 300 | | 0945 | 9.5 | 290 | | 1028 | 10.5 | 320 | | | | |
| | 1746 | 4.9 | 150 | | | | 1732 | 5.2 | 160 | | 1828 | 3.9 | 120 | | 1550 | 4.3 | 130 | | 1644 | 2.6 | 80 | | 1644 | 2.6 | 80 |
| | 2242 | 7.5 | 230 | | | | 2327 | 7.5 | 230 | | | | | | 2218 | 9.2 | 280 | | 2315 | 10.8 | 330 | | 2315 | 10.8 | 330 |
| 8 Sa | 0415 | 3.6 | 110 | | | 8 Tu | 0422 | 5.2 | 160 | 23 W | 0038 | 9.2 | 280 | 8 Tu | 0340 | 4.9 | 150 | 23 W | 0604 | 4.9 | 150 | 23 W | 1115 | 8.9 | 270 |
| | 1127 | 9.8 | 300 | | | | 1113 | 8.2 | 250 | | 0739 | 5.6 | 170 | | 0955 | 8.9 | 270 | | 1115 | 8.9 | 270 | | | | |
| | 1835 | 5.2 | 160 | | | | 1839 | 5.6 | 170 | | 1241 | 8.2 | 250 | | 1601 | 4.6 | 140 | | 1737 | 3.6 | 110 | | 1737 | 3.6 | 110 |
| | 2327 | 7.2 | 220 | | | | | | | | 1955 | 4.6 | 140 | | 2255 | 8.5 | 260 | | 2255 | 8.5 | 260 | | | | |
| 9 Su | 0441 | 4.3 | 130 | | | 9 W | 0031 | 7.2 | 220 | 24 Th | 0302 | 8.9 | 270 | 9 W | 0358 | 5.6 | 170 | 24 Th | 0020 | 9.8 | 300 | 24 Th | 0747 | 5.6 | 170 |
| | 1202 | 9.2 | 280 | | | | 0435 | 6.2 | 190 | | 0955 | 5.9 | 180 | | 1005 | 8.2 | 250 | | 1217 | 7.5 | 230 | | 1217 | 7.5 | 230 |
| | 1944 | 5.2 | 160 | | | | 1117 | 7.5 | 230 | | 1439 | 7.5 | 230 | | 1613 | 4.9 | 150 | | 1859 | 4.3 | 130 | | 1859 | 4.3 | 130 |
| | | | | | | | 2017 | 5.6 | 170 | | 2148 | 4.6 | 140 | | 2343 | 8.2 | 250 | | | | | | | | |
| 10 M | 0030 | 6.6 | 200 | | | 10 Th | 0634 | 7.2 | 220 | 25 F | 0506 | 9.5 | 290 | 10 Th | 0415 | 6.6 | 200 | 25 F | 0223 | 9.2 | 280 | 25 F | 0948 | 5.2 | 160 |
| | 0507 | 5.2 | 160 | | | | 2222 | 5.2 | 160 | | 1134 | 4.9 | 150 | | 1011 | 7.5 | 230 | | 0948 | 5.2 | 160 | | | | |
| | 1244 | 8.2 | 250 | | | | | | | | 1649 | 7.5 | 230 | | 1623 | 5.2 | 160 | | 1433 | 6.9 | 210 | | 1433 | 6.9 | 210 |
| | 2112 | 5.2 | 160 | | | | | | | | 2315 | 3.9 | 120 | | | | 2107 | | 4.9 | 150 | 2107 | | 4.9 | 150 | |
| 11 Tu | 0230 | 6.6 | 200 | | | 11 F | 0604 | 8.2 | 250 | 26 Sa | 0604 | 10.5 | 320 | 11 F | 0102 | 7.5 | 230 | 26 Sa | 0431 | 9.8 | 300 | 26 Sa | 1115 | 4.6 | 140 |
| | 0541 | 6.2 | 190 | | | | 1230 | 6.2 | 190 | | 1231 | 4.3 | 130 | | 0427 | 7.2 | 220 | | 1115 | 4.6 | 140 | | | | |
| | 1346 | 7.5 | 230 | | | | 1714 | 6.6 | 200 | | 1754 | 8.2 | 250 | | 0602 | 7.2 | 220 | | 1636 | 7.2 | 220 | | 1636 | 7.2 | 220 |
| | 2225 | 4.9 | 150 | | | | 2319 | 4.9 | 150 | | | | | | 1628 | 5.9 | 180 | | 2247 | 4.6 | 140 | | 2247 | 4.6 | 140 |
| 12 W | 0528 | 7.2 | 220 | | | 12 Sa | 0612 | 8.9 | 270 | 27 Su | 0013 | 3.3 | 100 | 12 Sa | 0524 | 8.2 | 250 | 27 Su | 0533 | 10.2 | 310 | 27 Su | 1207 | 3.9 | 120 |
| | 1054 | 6.6 | 200 | | | | 1243 | 5.6 | 170 | | 0641 | 10.8 | 330 | | 1235 | 6.2 | 190 | | 1207 | 3.9 | 120 | | | | |
| | 1536 | 7.2 | 220 | | | | 1748 | 7.2 | 220 | | 1312 | 3.6 | 110 | | 1739 | 6.2 | 190 | | 1738 | 7.9 | 240 | | 1738 | 7.9 | 240 |
| | 2315 | 4.3 | 130 | | | | 2358 | 3.9 | 120 | | 1833 | 8.5 | 260 | | 2230 | 5.2 | 160 | | 2350 | 3.9 | 120 | | 2350 | 3.9 | 120 |
| 13 Th | 0603 | 8.2 | 250 | | | 13 Su | 0633 | 9.8 | 300 | 28 M | 0054 | 3.0 | 90 | 13 Su | 0535 | 8.9 | 270 | 28 M | 0612 | 10.5 | 320 | 28 M | 1247 | 3.6 | 110 |
| | 1209 | 6.2 | 190 | | | | 1305 | 4.9 | 150 | | 0711 | 11.2 | 340 | | 1220 | 5.2 | 160 | | 1247 | 3.6 | 110 | | | | |
| | 1659 | 7.2 | 220 | | | | 1810 | 7.5 | 230 | | 1347 | 3.6 | 110 | | 1738 | 6.9 | 210 | | 1817 | 8.5 | 260 | | 1817 | 8.5 | 260 |
| | 2351 | 3.9 | 120 | | | | | | | | 1904 | 9.2 | 280 | | 2324 | 4.6 | 140 | | | | | | | | |
| 14 F | 0628 | 8.9 | 270 | | | 14 M | 0030 | 3.3 | 100 | 29 Tu | 0558 | 9.8 | 300 | 14 M | 0558 | 9.8 | 300 | 29 Tu | 0035 | 3.6 | 110 | 29 Tu | 0642 | 10.8 | 330 |
| | 1248 | 5.6 | 170 | | | | 0657 | 10.5 | 320 | | 1238 | 4.6 | 140 | | 1238 | 4.6 | 140 | | 0642 | 10.8 | 330 | | | | |
| | 1742 | 7.5 | 230 | | | | 1330 | 4.6 | 140 | | 1758 | 7.9 | 240 | | 1758 | 7.9 | 240 | | 1320 | 3.3 | 100 | | 1320 | 3.3 | 100 |
| | | | | | | | 1835 | 8.5 | 260 | | | | | | | | 1848 | | 9.2 | 280 | 1848 | | 9.2 | 280 | |
| 15 Sa | 0021 | 3.3 | 100 | | | 15 Tu | 0101 | 2.6 | 80 | 30 W | 0004 | 3.6 | 110 | 15 Tu | 0004 | 3.6 | 110 | 30 W | 0108 | 3.6 | 110 | 30 W | 0707 | 10.8 | 330 |
| | 0653 | 9.5 | 290 | | | | 0723 | 11.5 | 350 | | 0624 | 10.8 | 330 | | 0624 | 10.8 | 330 | | 0707 | 10.8 | 330 | | | | |
| | 1319 | 5.2 | 160 | | | | 1357 | 3.9 | 120 | | 1302 | 3.9 | 120 | | 1302 | 3.9 | 120 | | 1347 | 3.3 | 100 | | 1347 | 3.3 | 100 |
| | 1811 | 7.9 | 240 | | | | 1904 | | | | | | | | | | | | | | | | | | |

Townsville, Australia, 2011

Times and Heights of High and Low Waters

| April | | | | May | | | | June | | | | | | | | | | | | | | | |
|-----------------|--------|------|------|-----------------|------|------|--------|-----------------|------|--------|-----|-----------------|--------|------|-----|-----------------|------|------|-----|-----------------|------|------|-----|
| Time | Height | | Time | Height | | Time | Height | | Time | Height | | Time | Height | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | |
| 1 F | 0151 | 3.6 | 110 | 16 Sa | 0133 | 2.3 | 70 | 1 Su | 0204 | 4.6 | 140 | 16 M | 0218 | 3.0 | 90 | 1 W | 0305 | 4.9 | 150 | 16 Th | 0357 | 3.3 | 100 |
| | 0752 | 10.5 | 320 | | 0721 | 12.1 | 370 | | 0734 | 9.2 | 280 | | 0735 | 10.5 | 320 | | 0747 | 8.2 | 250 | | 0856 | 8.9 | 270 |
| | 1423 | 3.3 | 100 | | 1354 | 1.6 | 50 | | 1404 | 3.0 | 90 | | 1404 | 1.0 | 30 | | 1422 | 2.6 | 80 | | 1510 | 1.3 | 40 |
| | 2009 | 9.8 | 300 | | 1955 | 11.8 | 360 | | 2024 | 10.2 | 310 | | 2034 | 12.1 | 370 | | 2114 | 10.5 | 320 | | 2154 | 11.8 | 360 |
| 2 Sa | 0208 | 3.6 | 110 | 17 Su | 0215 | 2.3 | 70 | 2 M | 0228 | 4.6 | 140 | 17 Tu | 0307 | 3.3 | 100 | 2 Th | 0340 | 4.9 | 150 | 17 F | 0443 | 3.6 | 110 |
| | 0812 | 10.2 | 310 | | 0758 | 11.8 | 360 | | 0749 | 8.9 | 270 | | 0818 | 10.2 | 310 | | 0817 | 7.9 | 240 | | 0943 | 8.5 | 260 |
| | 1435 | 3.3 | 100 | | 1425 | 1.3 | 40 | | 1417 | 3.0 | 90 | | 1441 | 1.0 | 30 | | 1450 | 2.6 | 80 | | 1547 | 2.0 | 60 |
| | 2035 | 10.2 | 310 | | 2039 | 12.1 | 370 | | 2052 | 10.2 | 310 | | 2119 | 12.5 | 380 | | 2148 | 10.5 | 320 | | 2235 | 11.5 | 350 |
| 3 Su | 0226 | 3.9 | 120 | 18 M | 0302 | 2.6 | 80 | 3 Tu | 0255 | 4.9 | 150 | 18 W | 0359 | 3.3 | 100 | 3 F | 0421 | 4.9 | 150 | 18 Sa | 0533 | 3.9 | 120 |
| | 0829 | 9.8 | 300 | | 0838 | 11.5 | 350 | | 0807 | 8.5 | 260 | | 0905 | 9.5 | 290 | | 0855 | 7.9 | 240 | | 1030 | 7.9 | 240 |
| | 1446 | 3.3 | 100 | | 1459 | 1.3 | 40 | | 1434 | 3.0 | 90 | | 1521 | 1.3 | 40 | | 1524 | 2.6 | 80 | | 1624 | 2.6 | 80 |
| | 2102 | 10.2 | 310 | | 2125 | 12.1 | 370 | | 2122 | 10.2 | 310 | | 2205 | 12.1 | 370 | | 2227 | 10.5 | 320 | | 2315 | 10.8 | 330 |
| 4 M | 0247 | 4.3 | 130 | 19 Tu | 0354 | 3.3 | 100 | 4 W | 0326 | 4.9 | 150 | 19 Th | 0456 | 3.9 | 120 | 4 Sa | 0510 | 4.9 | 150 | 19 Su | 0628 | 4.3 | 130 |
| | 0843 | 9.5 | 290 | | 0920 | 10.5 | 320 | | 0829 | 8.2 | 250 | | 0953 | 8.5 | 260 | | 0942 | 7.5 | 230 | | 1120 | 7.5 | 230 |
| | 1459 | 3.3 | 100 | | 1536 | 1.6 | 50 | | 1455 | 3.0 | 90 | | 1603 | 2.0 | 60 | | 1604 | 3.0 | 90 | | 1701 | 3.3 | 100 |
| | 2132 | 9.8 | 300 | | 2213 | 11.8 | 360 | | 2157 | 10.2 | 310 | | 2253 | 11.5 | 350 | | 2310 | 10.5 | 320 | | 2357 | 9.8 | 300 |
| 5 Tu | 0309 | 4.6 | 140 | 20 W | 0456 | 3.9 | 120 | 5 Th | 0407 | 5.2 | 160 | 20 F | 0558 | 4.3 | 130 | 5 Su | 0609 | 4.9 | 150 | 20 M | 0731 | 4.6 | 140 |
| | 0858 | 8.9 | 270 | | 1006 | 9.5 | 290 | | 0855 | 7.9 | 240 | | 1047 | 7.9 | 240 | | 1044 | 7.2 | 220 | | 1217 | 6.9 | 210 |
| | 1514 | 3.6 | 110 | | 1618 | 2.3 | 70 | | 1519 | 3.3 | 100 | | 1649 | 3.0 | 90 | | 1655 | 3.3 | 100 | | 1740 | 4.3 | 130 |
| | 2204 | 9.8 | 300 | | 2304 | 11.2 | 340 | | 2235 | 9.8 | 300 | | 2343 | 10.8 | 330 | | 2359 | 10.2 | 310 | | 2359 | 10.2 | 310 |
| 6 W | 0332 | 5.2 | 160 | 21 Th | 0608 | 4.9 | 150 | 6 F | 0510 | 5.6 | 170 | 21 Sa | 0711 | 4.6 | 140 | 6 M | 0717 | 4.9 | 150 | 21 Tu | 0041 | 9.2 | 280 |
| | 0914 | 8.5 | 260 | | 1058 | 8.2 | 250 | | 0929 | 7.5 | 230 | | 1148 | 7.2 | 220 | | 1200 | 6.9 | 210 | | 0839 | 4.6 | 140 |
| | 1529 | 3.9 | 120 | | 1708 | 3.3 | 100 | | 1550 | 3.6 | 110 | | 1739 | 3.6 | 110 | | 1802 | 3.9 | 120 | | 1334 | 6.6 | 200 |
| | 2241 | 9.5 | 290 | | 2322 | 9.5 | 290 | | 2322 | 9.5 | 290 | | 2322 | 9.5 | 290 | | 2322 | 9.5 | 290 | | 1830 | 4.9 | 150 |
| 7 Th | 0357 | 5.9 | 180 | 22 F | 0004 | 10.5 | 320 | 7 Sa | 0627 | 5.9 | 180 | 22 Su | 0040 | 9.8 | 300 | 7 Tu | 0054 | 9.8 | 300 | 22 W | 0138 | 8.5 | 260 |
| | 0933 | 7.9 | 240 | | 0738 | 5.2 | 160 | | 1013 | 6.9 | 210 | | 0827 | 4.6 | 140 | | 0830 | 4.6 | 140 | | 0946 | 4.3 | 130 |
| | 1547 | 4.3 | 130 | | 1205 | 7.2 | 220 | | 1633 | 4.3 | 130 | | 1310 | 6.9 | 210 | | 1326 | 6.9 | 210 | | 1514 | 6.6 | 200 |
| | 2328 | 8.9 | 270 | | 1814 | 4.3 | 130 | | 1814 | 4.3 | 130 | | 1839 | 4.6 | 140 | | 1927 | 4.6 | 140 | | 2006 | 5.9 | 180 |
| 8 F | 0617 | 6.6 | 200 | 23 Sa | 0130 | 9.8 | 300 | 8 Su | 0018 | 9.2 | 280 | 23 M | 0156 | 9.2 | 280 | 8 W | 0202 | 9.5 | 290 | 23 Th | 0258 | 7.9 | 240 |
| | 0952 | 7.2 | 220 | | 0914 | 4.9 | 150 | | 0805 | 5.9 | 180 | | 0940 | 4.6 | 140 | | 0936 | 3.9 | 120 | | 1044 | 4.3 | 130 |
| | 1608 | 4.9 | 150 | | 1402 | 6.6 | 200 | | 1148 | 6.2 | 190 | | 1450 | 6.9 | 210 | | 1512 | 7.2 | 220 | | 1649 | 7.2 | 220 |
| | | | | | 2000 | 4.9 | 150 | | 1810 | 4.9 | 150 | | 2024 | 5.2 | 160 | | 2103 | 4.9 | 150 | | 2301 | 5.9 | 180 |
| 9 Sa | 0033 | 8.5 | 260 | 24 Su | 0326 | 9.5 | 290 | 9 M | 0132 | 9.2 | 280 | 24 Tu | 0324 | 8.9 | 270 | 9 Th | 0316 | 9.5 | 290 | 24 F | 0421 | 7.5 | 230 |
| | 1642 | 5.2 | 160 | | 1034 | 4.6 | 140 | | 0941 | 5.2 | 160 | | 1043 | 4.3 | 130 | | 1031 | 3.3 | 100 | | 1128 | 3.6 | 110 |
| | | | | | 1552 | 6.9 | 210 | | 1406 | 6.2 | 190 | | 1615 | 7.2 | 220 | | 1632 | 7.9 | 240 | | 1753 | 7.9 | 240 |
| | | | | | 2156 | 4.9 | 150 | | 2008 | 4.9 | 150 | | 2216 | 5.2 | 160 | | 2233 | 4.9 | 150 | | 2233 | 4.9 | 150 |
| 10 Su | 0239 | 8.5 | 260 | 25 M | 0444 | 9.8 | 300 | 10 Tu | 0307 | 9.2 | 280 | 25 W | 0432 | 8.9 | 270 | 10 F | 0418 | 9.5 | 290 | 25 Sa | 0017 | 5.6 | 170 |
| | 1119 | 5.9 | 180 | | 1130 | 3.9 | 120 | | 1035 | 4.6 | 140 | | 1131 | 3.6 | 110 | | 1118 | 3.0 | 90 | | 0519 | 7.5 | 230 |
| | 1551 | 6.2 | 190 | | 1703 | 7.5 | 230 | | 1602 | 6.9 | 210 | | 1720 | 7.5 | 230 | | 1732 | 8.9 | 270 | | 1203 | 3.3 | 100 |
| | 2108 | 5.2 | 160 | | 2312 | 4.6 | 140 | | 2145 | 4.9 | 150 | | 2332 | 5.2 | 160 | | 2348 | 4.6 | 140 | | 1833 | 8.5 | 260 |
| 11 M | 0426 | 9.2 | 280 | 26 Tu | 0530 | 9.8 | 300 | 11 W | 0412 | 9.8 | 300 | 26 Th | 0520 | 8.9 | 270 | 11 Sa | 0510 | 9.5 | 290 | 26 Su | 0102 | 5.2 | 160 |
| | 1134 | 4.9 | 150 | | 1212 | 3.6 | 110 | | 1115 | 3.9 | 120 | | 1208 | 3.6 | 110 | | 1200 | 2.3 | 70 | | 0555 | 7.5 | 230 |
| | 1656 | 6.9 | 210 | | 1751 | 8.2 | 250 | | 1658 | 7.9 | 240 | | 1807 | 8.2 | 250 | | 1822 | 9.8 | 300 | | 1233 | 3.3 | 100 |
| | 2238 | 4.9 | 150 | | 2256 | 4.3 | 130 | | 2256 | 4.3 | 130 | | 2256 | 4.3 | 130 | | 2256 | 4.3 | 130 | | 1904 | 9.2 | 280 |
| 12 Tu | 0509 | 9.8 | 300 | 27 W | 0006 | 4.6 | 140 | 12 Th | 0458 | 10.2 | 310 | 27 F | 0026 | 5.2 | 160 | 12 Su | 0047 | 3.9 | 120 | 27 M | 0135 | 4.9 | 150 |
| | 1200 | 4.3 | 130 | | 0605 | 9.8 | 300 | | 1151 | 3.0 | 90 | | 0555 | 8.5 | 260 | | 0556 | 9.5 | 290 | | 0622 | 7.5 | 230 |
| | 1730 | 7.9 | 240 | | 1246 | 3.3 | 100 | | 1743 | 8.9 | 270 | | 1238 | 3.3 | 100 | | 1239 | 1.6 | 50 | | 1258 | 3.0 | 90 |
| | 2331 | 3.9 | 120 | | 1827 | 8.9 | 270 | | 2353 | 3.9 | 120 | | 1845 | 8.9 | 270 | | 1907 | 10.8 | 330 | | 1932 | 9.5 | 290 |
| 13 W | 0543 | 10.8 | 330 | 28 Th | 0045 | 4.3 | 130 | 13 F | 0539 | 10.5 | 320 | 28 Sa | 0105 | 4.9 | 150 | 13 M | 0139 | 3.6 | 110 | 28 Tu | 0203 | 4.9 | 150 |
| | 1228 | 3.6 | 110 | | 0632 | 9.8 | 300 | | 1225 | 2.3 | 70 | | 0622 | 8.5 | 260 | | 0640 | 9.2 | 280 | | 0644 | 7.5 | 230 |
| | 1802 | 8.9 | 270 | | 1313 | 3.3 | 100 | | 1825 | 9.8 | 300 | | 1302 | 3.0 | 90 | | 1316 | 1.3 | 40 | | 1322 | 2.6 | 80 |
| | | | | | 1859 | 9.2 | 280 | | 1859 | 9.2 | 280 | | 1916 | 9.2 | 280 | | 1949 | 11.5 | 350 | | 2000 | 10.2 | 310 |
| 14 Th | 0013 | 3.3 | 100 | 29 F | 0116 | 4.3 | 130 | 14 Sa | 0043 | 3.3 | 100 | 29 Su | 0137 | 4.9 | 150 | 14 Tu | 0226 | 3.3 | 100 | 29 W | 0231 | 4.6 | 140 |
| | 0614 | 11.5 | 350 | | 0656 | 9.8 | 300 | | 0616 | 10.8 | 330 | | 0643 | 8.2 | 250 | | 0725 | 9.2 | 280 | | 0708 | 7.5 | 230 |
| | 1257 | 2.6 | 80 | | 1335 | 3.3 | 100 | | 1257 | 1.6 | 50 | | 1322 | 3.0 | 90 | | 1354 | 1.0 | 30 | | 1347 | 2.3 | 70 |
| | 1837 | 9.8 | 300 | | 1929 | 9.5 | 290 | | 1907 | 10.8 | 330 | | 1945 | 9.8 | 300 | | 2031 | 11.8 | 360 | | 2029 | 10.5 | 320 |
| 15 F | 0053 | 2.6 | 80 | 30 Sa | 0142 | 4.3 | 130 | 15 Su | 0131 | 3.3 | 100 | 30 M | 0206 | 4.9 | 150 | 15 W | 0311 | 3.3 | 100 | 30 Th | 0300 | 4.3 | 130 |
| | 0647 | 11.8 | 360 | | 0717 | 9.5 | 290 | | 0654 | 10.8 | 330 | | 0702 | 8.2 | 250 | | 0810 | 9.2 | 280 | | 0737 | 7.9 | 240 |
| | 1325 | 2.0 | 60 | | 1351 | 3.0 | 90 | | 1330 | 1.3 | 40 | | 1340 | 3.0 | 90 | | 1432 | 1.0 | 30 | | 1414 | 2.0 | 60 |
| | 1914 | 10 | | | | | | | | | | | | | | | | | | | | | |

Townsville, Australia, 2011

Times and Heights of High and Low Waters

| July | | | | August | | | | September | | | | | | | | | | | | | | | | | | |
|-----------------|------|--------|-----|-----------------|------|--------|-----|-----------------|------|--------|-----|-----------------|------|--------|-----|-----------------|------|------|-----|-----------------|------|------|-----|------|-----|-----|
| Time | | Height | | Time | | Height | | Time | | Height | | Time | | Height | | | | | | | | | | | | |
| h | m | ft | cm | h | m | ft | cm | h | m | ft | cm | h | m | ft | cm | | | | | | | | | | | |
| 1 F | 0331 | 4.3 | 130 | 16 Sa | 0418 | 3.3 | 100 | 1 M | 0416 | 3.0 | 90 | 16 Tu | 0428 | 3.6 | 110 | 1 Th | 0458 | 2.3 | 70 | 16 F | 0348 | 3.9 | 120 | | | |
| | 0813 | 8.2 | 250 | | 0924 | 8.5 | 260 | | 0937 | 9.2 | 280 | | 1009 | 8.2 | 250 | | 1107 | 9.5 | 290 | | 1058 | 7.9 | 240 | | | |
| | 1446 | 2.0 | 60 | | 1524 | 2.0 | 60 | | 1546 | 1.6 | 50 | | 1540 | 3.3 | 100 | | 1732 | 3.6 | 110 | | 1732 | 3.6 | 110 | 1550 | 5.2 | 160 |
| | 2134 | 11.2 | 340 | | 2209 | 11.2 | 340 | | 2223 | 11.5 | 350 | | 2226 | 9.2 | 280 | | 2247 | 8.5 | 260 | | 2315 | 9.5 | 290 | 2147 | 7.5 | 230 |
| 2 Sa | 0407 | 3.9 | 120 | 17 Su | 0454 | 3.6 | 110 | 2 Tu | 0456 | 3.0 | 90 | 17 W | 0452 | 3.9 | 120 | 2 F | 0557 | 3.0 | 90 | 17 Sa | 0357 | 4.3 | 130 | | | |
| | 0856 | 8.2 | 250 | | 1004 | 8.2 | 250 | | 1028 | 8.9 | 270 | | 1048 | 7.9 | 240 | | 1213 | 8.9 | 270 | | 1153 | 7.5 | 230 | | | |
| | 1521 | 2.0 | 60 | | 1552 | 2.3 | 70 | | 1631 | 2.3 | 70 | | 1602 | 4.3 | 130 | | 1904 | 4.9 | 150 | | 1607 | 6.2 | 190 | | | |
| | 2211 | 11.5 | 350 | | 2242 | 10.5 | 320 | | 2303 | 11.2 | 340 | | 2247 | 8.5 | 260 | | 2247 | 8.5 | 260 | | 2142 | 6.9 | 210 | | | |
| 3 Su | 0449 | 3.9 | 120 | 18 M | 0532 | 3.9 | 120 | 3 W | 0546 | 3.0 | 90 | 18 Th | 0525 | 4.6 | 140 | 3 Sa | 0009 | 8.2 | 250 | 18 Su | 0401 | 4.6 | 140 | | | |
| | 0947 | 8.2 | 250 | | 1044 | 7.9 | 240 | | 1125 | 8.5 | 260 | | 1136 | 7.2 | 220 | | 0717 | 3.3 | 100 | | 1323 | 7.2 | 220 | | | |
| | 1601 | 2.3 | 70 | | 1619 | 3.3 | 100 | | 1730 | 3.3 | 100 | | 1621 | 5.2 | 160 | | 1401 | 8.5 | 260 | | 1401 | 8.5 | 260 | | | |
| | 2250 | 11.2 | 340 | | 2313 | 9.8 | 300 | | 2346 | 10.2 | 310 | | 2300 | 7.5 | 230 | | 2102 | 4.9 | 150 | | 2102 | 4.9 | 150 | | | |
| 4 M | 0536 | 3.9 | 120 | 19 Tu | 0616 | 4.3 | 130 | 4 Th | 0646 | 3.3 | 100 | 19 F | 0628 | 4.9 | 150 | 4 Su | 0139 | 6.9 | 210 | 19 M | 0333 | 5.2 | 160 | | | |
| | 1043 | 7.9 | 240 | | 1130 | 7.2 | 220 | | 1231 | 8.2 | 250 | | 1240 | 6.9 | 210 | | 0859 | 3.6 | 110 | | 1711 | 7.5 | 230 | | | |
| | 1647 | 2.6 | 80 | | 1647 | 3.9 | 120 | | 1855 | 4.6 | 140 | | 1637 | 5.9 | 180 | | 1611 | 8.9 | 270 | | 1611 | 8.9 | 270 | | | |
| | 2333 | 10.8 | 330 | | 2344 | 8.9 | 270 | | 2046 | 5.2 | 160 | | 2251 | 6.9 | 210 | | 2254 | 4.6 | 140 | | 2254 | 4.6 | 140 | | | |
| 5 Tu | 0632 | 3.9 | 120 | 20 W | 0713 | 4.6 | 140 | 5 F | 0038 | 8.9 | 270 | 20 Sa | 0805 | 4.9 | 150 | 5 M | 0407 | 6.9 | 210 | 20 Tu | 0042 | 5.2 | 160 | | | |
| | 1145 | 7.5 | 230 | | 1227 | 6.9 | 210 | | 0759 | 3.6 | 110 | | 1758 | 6.9 | 210 | | 1030 | 3.3 | 100 | | 0546 | 5.9 | 180 | | | |
| | 1744 | 3.3 | 100 | | 1716 | 4.9 | 150 | | 2046 | 5.2 | 160 | | 2046 | 5.2 | 160 | | 1726 | 9.8 | 300 | | 1018 | 4.6 | 140 | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | 1724 | 8.5 | 260 |
| 6 W | 0020 | 10.2 | 310 | 21 Th | 0018 | 8.2 | 250 | 6 Sa | 0153 | 7.9 | 240 | 21 Su | 1000 | 4.6 | 140 | 6 Tu | 0001 | 3.6 | 110 | 21 W | 0021 | 4.6 | 140 | | | |
| | 0736 | 3.9 | 120 | | 0831 | 4.6 | 140 | | 0923 | 3.3 | 100 | | 1748 | 7.5 | 230 | | 0522 | 7.5 | 230 | | 0542 | 6.2 | 190 | | | |
| | 1256 | 7.5 | 230 | | 1355 | 6.6 | 200 | | 1618 | 8.5 | 260 | | | | | | 1134 | 2.6 | 80 | | 1108 | 3.9 | 120 | | | |
| | 1902 | 4.3 | 130 | | 1807 | 5.9 | 180 | | 2249 | 4.9 | 150 | | | | | | 1812 | 10.5 | 320 | | 1744 | 9.2 | 280 | | | |
| 7 Th | 0116 | 9.5 | 290 | 22 F | 0103 | 7.2 | 220 | 7 Su | 0352 | 7.2 | 220 | 22 M | 0049 | 5.6 | 170 | 7 W | 0047 | 3.0 | 90 | 22 Th | 0031 | 4.3 | 130 | | | |
| | 0845 | 3.6 | 110 | | 0947 | 4.6 | 140 | | 1041 | 3.0 | 90 | | 0536 | 6.2 | 190 | | 0608 | 7.9 | 240 | | 0553 | 6.9 | 210 | | | |
| | 1436 | 7.5 | 230 | | 1623 | 6.9 | 210 | | 1737 | 9.5 | 290 | | 1100 | 4.3 | 130 | | 1224 | 2.3 | 70 | | 1144 | 3.3 | 100 | | | |
| | 2041 | 4.9 | 150 | | 2302 | 6.2 | 190 | | | | | | 1802 | 8.2 | 250 | | 1848 | 10.8 | 330 | | 1808 | 9.8 | 300 | | | |
| 8 F | 0227 | 8.9 | 270 | 23 Sa | 0252 | 6.6 | 200 | 8 M | 0008 | 4.3 | 130 | 23 Tu | 0050 | 4.9 | 150 | 8 Th | 0125 | 2.6 | 80 | 23 F | 0050 | 3.6 | 110 | | | |
| | 0953 | 3.3 | 100 | | 1047 | 4.3 | 130 | | 0516 | 7.5 | 230 | | 0555 | 6.6 | 200 | | 0643 | 8.5 | 260 | | 0611 | 7.9 | 240 | | | |
| | 1619 | 8.2 | 250 | | 1750 | 7.5 | 230 | | 1143 | 2.6 | 80 | | 1141 | 3.6 | 110 | | 1302 | 2.0 | 60 | | 1217 | 2.6 | 80 | | | |
| | 2232 | 4.9 | 150 | | | | | | 1828 | 10.2 | 310 | | 1824 | 9.2 | 280 | | 1918 | 10.8 | 330 | | 1833 | 10.5 | 320 | | | |
| 9 Sa | 0352 | 8.2 | 250 | 24 Su | 0028 | 5.9 | 180 | 9 Tu | 0100 | 3.6 | 110 | 24 W | 0105 | 4.6 | 140 | 9 F | 0156 | 2.6 | 80 | 24 Sa | 0113 | 3.0 | 90 | | | |
| | 1054 | 3.0 | 90 | | 0504 | 6.6 | 200 | | 0609 | 7.9 | 240 | | 0611 | 6.9 | 210 | | 0713 | 8.9 | 270 | | 0635 | 8.5 | 260 | | | |
| | 1733 | 9.2 | 280 | | 1132 | 3.9 | 120 | | 1232 | 2.0 | 60 | | 1214 | 3.0 | 90 | | 1331 | 2.0 | 60 | | 1250 | 2.0 | 60 | | | |
| | 2358 | 4.6 | 140 | | 1822 | 8.5 | 260 | | 1906 | 10.8 | 330 | | 1846 | 9.8 | 300 | | 1944 | 10.8 | 330 | | 1901 | 11.2 | 340 | | | |
| 10 Su | 0502 | 8.2 | 250 | 25 M | 0101 | 5.2 | 160 | 10 W | 0142 | 3.0 | 90 | 25 Th | 0124 | 3.9 | 120 | 10 Sa | 0224 | 2.6 | 80 | 25 Su | 0138 | 2.3 | 70 | | | |
| | 1147 | 2.3 | 70 | | 0551 | 6.9 | 210 | | 0649 | 8.2 | 250 | | 0628 | 7.5 | 230 | | 0742 | 9.2 | 280 | | 0705 | 9.5 | 290 | | | |
| | 1828 | 9.8 | 300 | | 1207 | 3.3 | 100 | | 1311 | 1.6 | 50 | | 1243 | 2.6 | 80 | | 1353 | 2.3 | 70 | | 1322 | 1.6 | 50 | | | |
| | | | | | 1848 | 9.2 | 280 | | 1939 | 11.2 | 340 | | 1911 | 10.5 | 320 | | 2010 | 10.8 | 330 | | 1930 | 11.8 | 360 | | | |
| 11 M | 0058 | 3.9 | 120 | 26 Tu | 0126 | 4.9 | 150 | 11 Th | 0217 | 3.0 | 90 | 26 F | 0147 | 3.6 | 110 | 11 Su | 0246 | 2.6 | 80 | 26 M | 0203 | 1.6 | 50 | | | |
| | 0558 | 8.2 | 250 | | 0617 | 6.9 | 210 | | 0723 | 8.5 | 260 | | 0651 | 8.2 | 250 | | 0811 | 9.2 | 280 | | 0741 | 10.5 | 320 | | | |
| | 1233 | 2.0 | 60 | | 1237 | 3.0 | 90 | | 1343 | 1.6 | 50 | | 1312 | 2.0 | 60 | | 1411 | 2.6 | 80 | | 1358 | 1.3 | 40 | | | |
| | 1911 | 10.8 | 330 | | 1913 | 9.5 | 290 | | 2009 | 11.5 | 350 | | 1937 | 11.2 | 340 | | 2035 | 10.5 | 320 | | 2003 | 11.8 | 360 | | | |
| 12 Tu | 0146 | 3.6 | 110 | 27 W | 0150 | 4.6 | 140 | 12 F | 0249 | 2.6 | 80 | 27 Sa | 0211 | 3.0 | 90 | 12 M | 0302 | 3.0 | 90 | 27 Tu | 0231 | 1.3 | 40 | | | |
| | 0643 | 8.5 | 260 | | 0638 | 7.2 | 220 | | 0756 | 8.9 | 270 | | 0720 | 8.9 | 270 | | 0840 | 9.2 | 280 | | 0822 | 10.8 | 330 | | | |
| | 1313 | 1.6 | 50 | | 1304 | 2.6 | 80 | | 1410 | 1.6 | 50 | | 1342 | 1.3 | 40 | | 1430 | 3.0 | 90 | | 1438 | 1.6 | 50 | | | |
| | 1949 | 11.5 | 350 | | 1939 | 10.2 | 310 | | 2039 | 11.5 | 350 | | 2006 | 11.8 | 360 | | 2058 | 9.8 | 300 | | 2040 | 11.8 | 360 | | | |
| 13 W | 0227 | 3.3 | 100 | 28 Th | 0214 | 3.9 | 120 | 13 Sa | 0317 | 3.0 | 90 | 28 Su | 0238 | 2.6 | 80 | 13 Tu | 0317 | 3.0 | 90 | 28 W | 0301 | 1.0 | 30 | | | |
| | 0725 | 8.5 | 260 | | 0702 | 7.9 | 240 | | 0829 | 8.9 | 270 | | 0755 | 9.5 | 290 | | 0910 | 8.9 | 270 | | 0908 | 11.2 | 340 | | | |
| | 1349 | 1.3 | 40 | | 1332 | 2.0 | 60 | | 1433 | 1.6 | 50 | | 1414 | 1.0 | 30 | | 1450 | 3.3 | 100 | | 1526 | 2.0 | 60 | | | |
| | 2024 | 11.8 | 360 | | 2007 | 10.8 | 330 | | 2108 | 11.2 | 340 | | 2038 | 12.1 | 370 | | 2118 | 9.5 | 290 | | 2119 | 11.2 | 340 | | | |
| 14 Th | 0306 | 3.0 | 90 | 29 F | 0241 | 3.6 | 110 | 14 Su | 0343 | 3.0 | 90 | 29 M | 0306 | 2.0 | 60 | 14 W | 0328 | 3.3 | 100 | 29 Th | 0336 | 1.3 | 40 | | | |
| | 0806 | 8.9 | 270 | | 0731 | 8.2 | 250 | | 0902 | 8.9 | 270 | | 0836 | 9.8 | 300 | | 0941 | 8.9 | 270 | | 0958 | 10.8 | 330 | | | |
| | 1423 | 1.3 | 40 | | 1401 | 1.6 | 50 | | 1455 | 2.0 | 60 | | 1450 | 1.0 | 30 | | 1511 | 3.9 | 120 | | 1626 | 3.0 | 90 | | | |
| | 2100 | 11.8 | 360 | | 2037 | 11.5 | 350 | | 2136 | 10.8 | 330 | | 2113 | 12.1 | 370 | | 2133 | 8.9 | 270 | | 2202 | 9.8 | 300 | | | |
| 15 F | 0342 | 3.0 | 90 | 30 Sa | 0309 | 3.3 | 100 | 15 M | 0406 | 3.3 | 100 | 30 Tu | 0337 | 2.0 | 60 | 15 Th | 0338 | 3.6 | 110 | 30 F | 0417 | 1.6 | 50 | | | |
| | 0846 | 8.9 | 270 | | 0807 | 8.5 | 260 | | 0935 | 8.5 | 260 | | 0921 | 10.2 | 310 | | 1017 | 8.2 | 250 | | 1054 | 10.2 | 310 | | | |
| | 1454 | 1.3 | 40 | | 1432 | 1.3 | 40 | | 1517 | 2.6 | 80 | | 1531 | 1.6 | 50 | | 1531 | 4.6 | 140 | | 1741 | 3.9 | 120 | | | |
| | 2135 | 11.5 | 350 | | 2109 | 11.8 | | | | | | | | | | | | | | | | | | | | |

Townsville, Australia, 2011

Times and Heights of High and Low Waters

| October | | | | November | | | | December | | | | | | | | | | | | | | | |
|-----------------|--------|------|----------------|-----------------|------|------|--------|-----------------|------|--------|-----|-----------------|--------|------|-----|-----------------|------|------|-----|-----------------|------|------|-----|
| Time | Height | | Time | Height | | Time | Height | | Time | Height | | Time | Height | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | |
| 1 Sa | 0514 | 2.6 | 80 | 16 Su | 0328 | 3.9 | 120 | 1 Tu | 0122 | 6.6 | 200 | 16 W | 0446 | 4.6 | 140 | 1 Th | 0220 | 6.6 | 200 | 16 F | 0031 | 6.6 | 200 |
| | 1158 | 9.5 | 290 | | 1127 | 8.2 | 250 | | 0742 | 3.9 | 120 | | 1311 | 8.5 | 260 | | 0817 | 4.9 | 150 | | 0634 | 4.6 | 140 |
| | 1911 | 4.6 | 140 | | 1825 | 6.2 | 190 | | 1447 | 9.5 | 290 | | 2133 | 5.2 | 160 | | 1456 | 9.2 | 280 | | 1325 | 9.2 | 280 |
| | 2352 | 7.2 | 220 | | 2123 | 6.6 | 200 | | 2158 | 3.9 | 120 | | | | | | 2218 | 3.9 | 120 | | 2105 | 4.6 | 140 |
| 2 Su | 0638 | 3.3 | 100 | 17 M | 0340 | 4.3 | 130 | 2 W | 0324 | 6.6 | 200 | 17 Th | 0118 | 5.6 | 170 | 2 F | 0358 | 6.9 | 210 | 17 Sa | 0227 | 6.6 | 200 |
| | 1340 | 9.2 | 280 | | 1233 | 7.9 | 240 | | 0926 | 4.3 | 130 | | 0744 | 4.9 | 150 | | 0957 | 4.9 | 150 | | 0825 | 4.9 | 150 |
| | 2102 | 4.6 | 140 | | | | | | 1609 | 9.5 | 290 | | 1439 | 8.9 | 270 | | 1611 | 8.9 | 270 | | 1437 | 9.2 | 280 |
| 3 M | 0144 | 6.6 | 200 | 18 Tu | 0339 | 4.9 | 150 | 3 Th | 0441 | 7.2 | 220 | 18 F | 0359 | 6.2 | 190 | 3 Sa | 0510 | 7.5 | 230 | 18 Su | 0413 | 7.5 | 230 |
| | 0830 | 3.6 | 110 | | 1441 | 7.9 | 240 | | 1042 | 3.9 | 120 | | 0922 | 4.9 | 150 | | 1115 | 4.9 | 150 | | 1001 | 4.9 | 150 |
| | 1542 | 9.2 | 280 | | 2344 | 5.2 | 160 | | 1705 | 9.5 | 290 | | 1547 | 9.2 | 280 | | 1706 | 8.9 | 270 | | 1547 | 9.2 | 280 |
| | 2235 | 3.9 | 120 | | | | | | 2351 | 3.0 | 90 | | 2301 | 3.6 | 110 | | 2358 | 3.0 | 90 | | 2258 | 3.3 | 100 |
| 4 Tu | 0359 | 6.6 | 200 | 19 W | 0515 | 5.6 | 170 | 4 F | 0533 | 7.9 | 240 | 19 Sa | 0450 | 7.2 | 220 | 4 Su | 0600 | 8.2 | 250 | 19 M | 0515 | 8.5 | 260 |
| | 1006 | 3.6 | 110 | | 0902 | 4.9 | 150 | | 1141 | 3.9 | 120 | | 1032 | 4.3 | 130 | | 1213 | 4.9 | 150 | | 1117 | 4.6 | 140 |
| | 1656 | 9.8 | 300 | | 1611 | 8.5 | 260 | | 1745 | 9.5 | 290 | | 1634 | 9.5 | 290 | | 1746 | 8.5 | 260 | | 1644 | 9.2 | 280 |
| | 2337 | 3.3 | 100 | | 2332 | 4.6 | 140 | | | | | | 2334 | 3.0 | 90 | | | | | | 2341 | 2.6 | 80 |
| 5 W | 0509 | 7.5 | 230 | 20 Th | 0506 | 6.2 | 190 | 5 Sa | 0029 | 2.6 | 80 | 20 Su | 0529 | 8.2 | 250 | 5 M | 0032 | 3.0 | 90 | 20 Tu | 0603 | 9.5 | 290 |
| | 1115 | 3.3 | 100 | | 1021 | 4.3 | 130 | | 0612 | 8.5 | 260 | | 1128 | 3.9 | 120 | | 0637 | 8.9 | 270 | | 1219 | 4.3 | 130 |
| | 1744 | 10.2 | 310 | | 1651 | 9.2 | 280 | | 1817 | 9.5 | 290 | | 1714 | 9.8 | 300 | | 1257 | 4.9 | 150 | | 1733 | 9.5 | 290 |
| | | | | | 2349 | 3.9 | 120 | | | | | | | | | | 1819 | 8.5 | 260 | | | | |
| 6 Th | 0022 | 2.6 | 80 | 21 F | 0524 | 7.2 | 220 | 6 Su | 0100 | 2.6 | 80 | 21 M | 0007 | 2.3 | 70 | 6 Tu | 0059 | 2.6 | 80 | 21 W | 0021 | 2.0 | 60 |
| | 0554 | 8.2 | 250 | | 1110 | 3.6 | 110 | | 0646 | 9.2 | 280 | | 0607 | 9.5 | 290 | | 0709 | 9.5 | 290 | | 0646 | 10.8 | 330 |
| | 1205 | 3.0 | 90 | | 1723 | 9.8 | 300 | | 1304 | 3.9 | 120 | | 1218 | 3.3 | 100 | | 1332 | 4.6 | 140 | | 1311 | 3.6 | 110 |
| | 1819 | 10.5 | 320 | | | | | | 1844 | 9.2 | 280 | | 1751 | 10.2 | 310 | | 1845 | 8.2 | 250 | | 1818 | 9.5 | 290 |
| 7 F | 0059 | 2.6 | 80 | 22 Sa | 0013 | 3.0 | 90 | 7 M | 0125 | 2.3 | 70 | 22 Tu | 0038 | 1.6 | 50 | 7 W | 0121 | 2.6 | 80 | 22 Th | 0058 | 1.3 | 40 |
| | 0628 | 8.5 | 260 | | 0550 | 8.2 | 250 | | 0717 | 9.5 | 290 | | 0645 | 10.5 | 320 | | 0737 | 9.8 | 300 | | 0726 | 11.5 | 350 |
| | 1245 | 3.0 | 90 | | 1151 | 3.3 | 100 | | 1334 | 3.9 | 120 | | 1306 | 3.0 | 90 | | 1403 | 4.6 | 140 | | 1359 | 3.3 | 100 |
| | 1849 | 10.5 | 320 | | 1753 | 10.5 | 320 | | 1907 | 9.2 | 280 | | 1830 | 10.5 | 320 | | 1905 | 8.2 | 250 | | 1903 | 9.5 | 290 |
| 8 Sa | 0129 | 2.3 | 70 | 23 Su | 0039 | 2.3 | 70 | 8 Tu | 0143 | 2.3 | 70 | 23 W | 0109 | 1.0 | 30 | 8 Th | 0139 | 2.6 | 80 | 23 F | 0135 | 1.0 | 30 |
| | 0659 | 9.2 | 280 | | 0619 | 9.2 | 280 | | 0746 | 9.5 | 290 | | 0726 | 11.2 | 340 | | 0805 | 10.2 | 310 | | 0807 | 12.1 | 370 |
| | 1316 | 3.0 | 90 | | 1229 | 2.6 | 80 | | 1400 | 4.3 | 130 | | 1353 | 3.0 | 90 | | 1430 | 4.6 | 140 | | 1445 | 3.3 | 100 |
| | 1915 | 10.2 | 310 | | 1824 | 10.8 | 330 | | 1927 | 8.9 | 270 | | 1910 | 10.5 | 320 | | 1923 | 8.2 | 250 | | 1948 | 9.5 | 290 |
| 9 Su | 0154 | 2.3 | 70 | 24 M | 0105 | 1.6 | 50 | 9 W | 0157 | 2.6 | 80 | 24 Th | 0142 | 0.7 | 20 | 9 F | 0156 | 2.3 | 70 | 24 Sa | 0211 | 0.7 | 20 |
| | 0728 | 9.2 | 280 | | 0652 | 10.2 | 310 | | 0814 | 9.8 | 300 | | 0809 | 11.8 | 360 | | 0833 | 10.2 | 310 | | 0848 | 12.5 | 380 |
| | 1340 | 3.0 | 90 | | 1309 | 2.3 | 70 | | 1424 | 4.3 | 130 | | 1443 | 3.0 | 90 | | 1458 | 4.9 | 150 | | 1530 | 3.0 | 90 |
| | 1938 | 9.8 | 300 | | 1856 | 11.2 | 340 | | 1943 | 8.5 | 260 | | 1954 | 10.2 | 310 | | 1944 | 7.9 | 240 | | 2033 | 9.5 | 290 |
| 10 M | 0213 | 2.6 | 80 | 25 Tu | 0132 | 1.0 | 30 | 10 Th | 0209 | 2.6 | 80 | 25 F | 0218 | 0.3 | 10 | 10 Sa | 0215 | 2.3 | 70 | 25 Su | 0249 | 0.7 | 20 |
| | 0756 | 9.5 | 290 | | 0730 | 10.8 | 330 | | 0842 | 9.8 | 300 | | 0854 | 12.1 | 370 | | 0902 | 10.5 | 320 | | 0930 | 12.5 | 380 |
| | 1359 | 3.3 | 100 | | 1350 | 2.0 | 60 | | 1451 | 4.6 | 140 | | 1534 | 3.0 | 90 | | 1528 | 4.9 | 150 | | 1616 | 3.3 | 100 |
| | 1959 | 9.5 | 290 | | 1932 | 11.2 | 340 | | 1959 | 8.2 | 250 | | 2040 | 9.5 | 290 | | 2008 | 7.9 | 240 | | 2119 | 9.2 | 280 |
| 11 Tu | 0225 | 2.6 | 80 | 26 W | 0201 | 0.7 | 20 | 11 F | 0224 | 2.6 | 80 | 26 Sa | 0257 | 0.7 | 20 | 11 Su | 0239 | 2.3 | 70 | 26 M | 0326 | 1.0 | 30 |
| | 0824 | 9.5 | 290 | | 0813 | 11.5 | 350 | | 0912 | 9.8 | 300 | | 0941 | 12.1 | 370 | | 0935 | 10.5 | 320 | | 1012 | 12.1 | 370 |
| | 1418 | 3.6 | 110 | | 1437 | 2.3 | 70 | | 1523 | 4.9 | 150 | | 1629 | 3.3 | 100 | | 1604 | 4.9 | 150 | | 1703 | 3.6 | 110 |
| | 2017 | 9.2 | 280 | | 2012 | 10.8 | 330 | | 2018 | 7.9 | 240 | | 2129 | 8.9 | 270 | | 2039 | 7.9 | 240 | | 2204 | 8.9 | 270 |
| 12 W | 0235 | 2.6 | 80 | 27 Th | 0234 | 0.7 | 20 | 12 Sa | 0243 | 2.6 | 80 | 27 Su | 0340 | 1.3 | 40 | 12 M | 0305 | 2.6 | 80 | 27 Tu | 0402 | 2.0 | 60 |
| | 0853 | 9.5 | 290 | | 0900 | 11.8 | 360 | | 0946 | 9.5 | 290 | | 1030 | 11.8 | 360 | | 1011 | 10.5 | 320 | | 1054 | 11.5 | 350 |
| | 1439 | 3.9 | 120 | | 1531 | 2.6 | 80 | | 1604 | 5.2 | 160 | | 1729 | 3.6 | 110 | | 1648 | 4.9 | 150 | | 1755 | 3.9 | 120 |
| | 2032 | 8.9 | 270 | | 2055 | 10.2 | 310 | | 2041 | 7.5 | 230 | | 2222 | 8.2 | 250 | | 2115 | 7.5 | 230 | | 2251 | 8.2 | 250 |
| 13 Th | 0246 | 3.0 | 90 | 28 F | 0311 | 0.7 | 20 | 13 Su | 0304 | 3.0 | 90 | 28 M | 0425 | 2.0 | 60 | 13 Tu | 0336 | 3.0 | 90 | 28 W | 0437 | 3.0 | 90 |
| | 0924 | 9.2 | 280 | | 0949 | 11.5 | 350 | | 1024 | 9.5 | 290 | | 1122 | 11.2 | 340 | | 1050 | 10.2 | 310 | | 1136 | 10.5 | 320 |
| | 1502 | 4.6 | 140 | | 1632 | 3.3 | 100 | | 1702 | 5.6 | 170 | | 1836 | 4.3 | 130 | | 1740 | 5.2 | 160 | | 1854 | 4.6 | 140 |
| | 2046 | 8.2 | 250 | | 2141 | 9.2 | 280 | | 2108 | 6.9 | 210 | | 2320 | 7.5 | 230 | | 2201 | 7.2 | 220 | | 2343 | 7.5 | 230 |
| 14 F | 0300 | 3.0 | 90 | 29 Sa | 0353 | 1.3 | 40 | 14 M | 0328 | 3.3 | 100 | 29 Tu | 0517 | 3.0 | 90 | 14 W | 0411 | 3.3 | 100 | 29 Th | 0514 | 3.9 | 120 |
| | 0957 | 8.9 | 270 | | 1042 | 11.2 | 340 | | 1109 | 9.2 | 280 | | 1219 | 10.2 | 310 | | 1135 | 9.8 | 300 | | 1222 | 9.5 | 290 |
| | 1526 | 4.9 | 150 | | 1742 | 3.9 | 120 | | 1812 | 5.9 | 180 | | 1951 | 4.3 | 130 | | 1841 | 5.2 | 160 | | 2004 | 4.6 | 140 |
| | 2059 | 7.5 | 230 | | 2235 | 8.2 | 250 | | 2142 | 6.6 | 200 | | | | | | 2306 | 6.9 | 210 | | | | |
| 15 Sa | 0314 | 3.3 | 100 | 30 Su | 0446 | 2.3 | 70 | 15 Tu | 0357 | 3.9 | 120 | 30 W | 0033 | 6.9 | 210 | 15 Th | 0459 | 3.9 | 120 | 30 F | 0052 | 6.9 | 210 |
| | 1037 | 8.5 | 260 | | 1143 | 10.5 | 320 | | 1203 | 8.9 | 270 | | 0624 | 3.9 | 120 | | 1226 | 9.5 | 290 | | 0602 | 4.9 | 150 |
| | 1555 | 5.6 | 170 | | 1904 | 4.3 | 130 | | 1946 | 5.6 | 170 | | 1330 | 9.5 | 290 | | 1952 | 4.9 | 150 | | 1316 | 8.9 | 270 |
| | 2114 | 7.2 | 220 | | 2339 | 7.2 | 220 | | 2236 | 5.9 | 180 | | 2108 | 4.3 | 130 | | | | | | 2121 | 4.6 | 140 |
| | | | 31 M | 0559 | 3.3 | 100 | | | | | | | | | | | | | | | | | |
| | | | | 1302 | 9.8 | 300 | | | | | | | | | | | | | | | | | |

Brisbane Bar, Australia, 2011

Times and Heights of High and Low Waters

| July | | | | August | | | | September | | | | | | |
|-----------------|--------|---------|-----------------|--------|---------|-----------------|--------|-----------|-----------------|--------|---------|-----------------|--------|---------|
| Time | Height | | Time | Height | | Time | Height | | Time | Height | | Time | Height | |
| | h m | ft cm | | h m | ft cm | | h m | ft cm | | h m | ft cm | | h m | ft cm |
| 1 F | 0347 | 1.6 50 | 16 Sa | 0438 | 1.3 40 | 1 M | 0451 | 1.0 30 | 16 Tu | 0506 | 1.3 40 | 1 Th | 0539 | 0.7 20 |
| | 0912 | 5.9 180 | | 1007 | 5.9 180 | | 1030 | 6.6 200 | | 1054 | 6.6 200 | | 1145 | 7.5 230 |
| | 1519 | 1.0 30 | | 1604 | 1.0 30 | | 1636 | 0.7 20 | | 1656 | 1.3 40 | | 1802 | 1.0 30 |
| ● | 2150 | 8.2 250 | | 2232 | 8.2 250 | | 2251 | 8.2 250 | | 2304 | 7.2 220 | | 2351 | 7.2 220 |
| 2 Sa | 0430 | 1.6 50 | 17 Su | 0514 | 1.3 40 | 2 Tu | 0532 | 1.0 30 | 17 W | 0532 | 1.3 40 | 2 F | 0617 | 0.7 20 |
| | 0957 | 5.9 180 | | 1046 | 5.9 180 | | 1116 | 6.6 200 | | 1127 | 6.6 200 | | 1233 | 7.2 220 |
| | 1601 | 1.0 30 | | 1641 | 1.3 40 | | 1722 | 1.0 30 | | 1729 | 1.6 50 | | 1854 | 1.6 50 |
| | 2230 | 8.2 250 | | 2306 | 7.9 240 | | 2332 | 8.2 250 | | 2332 | 6.9 210 | | | |
| 3 Su | 0513 | 1.6 50 | 18 M | 0546 | 1.6 50 | 3 W | 0610 | 1.0 30 | 18 Th | 0559 | 1.3 40 | 3 Sa | 0036 | 6.6 200 |
| | 1043 | 6.2 190 | | 1122 | 6.2 190 | | 1203 | 6.9 210 | | 1203 | 6.6 200 | | 0657 | 1.0 30 |
| | 1644 | 1.0 30 | | 1716 | 1.6 50 | | 1809 | 1.3 40 | | 1804 | 2.0 60 | | 1327 | 7.2 220 |
| | 2311 | 8.2 250 | | 2338 | 7.5 230 | | | | | | | | 1954 | 2.0 60 |
| 4 M | 0555 | 1.3 40 | 19 Tu | 0615 | 1.6 50 | 4 Th | 0013 | 7.5 230 | 19 F | 0001 | 6.6 200 | 4 Su | 0128 | 5.6 170 |
| | 1130 | 6.2 190 | | 1159 | 6.2 190 | | 0648 | 1.0 30 | | 0628 | 1.3 40 | | 0743 | 1.3 40 |
| | 1729 | 1.0 30 | | 1751 | 2.0 60 | | 1252 | 6.9 210 | | 1241 | 6.2 190 | | 1429 | 6.9 210 |
| | 2352 | 8.2 250 | | | | | 1900 | 1.6 50 | | 1843 | 2.3 70 | | 2109 | 2.3 70 |
| 5 Tu | 0636 | 1.3 40 | 20 W | 0009 | 7.2 220 | 5 F | 0057 | 6.9 210 | 20 Sa | 0033 | 5.9 180 | 5 M | 0236 | 4.9 150 |
| | 1219 | 6.2 190 | | 0645 | 1.6 50 | | 0729 | 1.0 30 | | 0702 | 1.6 50 | | 0843 | 1.6 50 |
| | 1816 | 1.3 40 | | 1238 | 6.2 190 | | 1347 | 6.9 210 | | 1324 | 6.2 190 | | 1543 | 6.9 210 |
| | | | | 1829 | 2.0 60 | | 1958 | 2.0 60 | | 1928 | 2.6 80 | ○ | 2236 | 2.3 70 |
| 6 W | 0034 | 7.9 240 | 21 Th | 0040 | 6.6 200 | 6 Sa | 0146 | 6.2 190 | 21 Su | 0109 | 5.6 170 | 6 Tu | 0404 | 4.9 150 |
| | 0718 | 1.3 40 | | 0716 | 1.6 50 | | 0816 | 1.3 40 | | 0740 | 2.0 60 | | 1001 | 2.0 60 |
| | 1311 | 6.2 190 | | 1320 | 5.9 180 | ○ | 1451 | 6.9 210 | | 1416 | 6.2 190 | | 1700 | 6.9 210 |
| | 1908 | 1.6 50 | | 1912 | 2.6 80 | | 2111 | 2.6 80 | | 2027 | 3.0 90 | | 2355 | 2.3 70 |
| 7 Th | 0120 | 7.5 230 | 22 F | 0115 | 6.2 190 | 7 Su | 0248 | 5.6 170 | 22 M | 0159 | 4.9 150 | 7 W | 0529 | 4.9 150 |
| | 0802 | 1.3 40 | | 0753 | 2.0 60 | | 0913 | 1.3 40 | | 0832 | 2.0 60 | | 1122 | 2.0 60 |
| | 1408 | 6.2 190 | | 1409 | 5.9 180 | | 1604 | 6.9 210 | ○ | 1524 | 5.9 180 | | 1808 | 7.2 220 |
| | 2008 | 2.0 60 | | 2004 | 3.0 90 | | 2237 | 2.6 80 | | 2148 | 3.0 90 | | | |
| 8 F | 0210 | 6.9 210 | 23 Sa | 0156 | 5.9 180 | 8 M | 0406 | 5.2 160 | 23 Tu | 0316 | 4.6 140 | 8 Th | 0056 | 2.0 60 |
| | 0851 | 1.3 40 | | 0837 | 2.0 60 | | 1021 | 1.6 50 | | 0942 | 2.0 60 | | 0635 | 5.2 160 |
| | 1513 | 6.6 200 | ○ | 1509 | 5.9 180 | | 1720 | 6.9 210 | | 1640 | 6.2 190 | | 1231 | 1.6 50 |
| ○ | 2119 | 2.3 70 | | 2111 | 3.0 90 | | | | | 2319 | 3.0 90 | | 1904 | 7.2 220 |
| 9 Sa | 0309 | 6.6 200 | 24 Su | 0252 | 5.2 160 | 9 Tu | 0004 | 2.3 70 | 24 W | 0447 | 4.9 150 | 9 F | 0145 | 1.6 50 |
| | 0946 | 1.3 40 | | 0932 | 2.0 60 | | 0529 | 5.2 160 | | 1058 | 2.0 60 | | 0726 | 5.9 180 |
| | 1625 | 6.9 210 | | 1619 | 6.2 190 | | 1134 | 1.6 50 | | 1749 | 6.6 200 | | 1328 | 1.3 40 |
| | 2240 | 2.6 80 | | 2235 | 3.3 100 | | 1828 | 7.2 220 | | | | | 1949 | 7.5 230 |
| 10 Su | 0418 | 5.9 180 | 25 M | 0404 | 4.9 150 | 10 W | 0113 | 2.0 60 | 25 Th | 0031 | 2.3 70 | 10 Sa | 0226 | 1.3 40 |
| | 1047 | 1.3 40 | | 1035 | 2.0 60 | | 0642 | 5.2 160 | | 0600 | 4.9 150 | | 0809 | 6.2 190 |
| | 1736 | 7.2 220 | | 1728 | 6.6 200 | | 1243 | 1.3 40 | | 1205 | 1.6 50 | | 1414 | 1.3 40 |
| | | | | 2355 | 3.0 90 | | 1925 | 7.5 230 | | 1846 | 7.2 220 | | 2029 | 7.5 230 |
| 11 M | 0004 | 2.3 70 | 26 Tu | 0519 | 4.9 150 | 11 Th | 0208 | 1.6 50 | 26 F | 0127 | 2.0 60 | 11 Su | 0301 | 1.3 40 |
| | 0532 | 5.6 170 | | 1138 | 2.0 60 | | 0740 | 5.6 170 | | 0659 | 5.6 170 | | 0847 | 6.2 190 |
| | 1151 | 1.3 40 | | 1827 | 6.9 210 | | 1341 | 1.3 40 | | 1304 | 1.3 40 | | 1454 | 1.3 40 |
| | 1840 | 7.5 230 | | | | | 2013 | 7.9 240 | | 1936 | 7.5 230 | | 2103 | 7.2 220 |
| 12 Tu | 0118 | 2.0 60 | 27 W | 0100 | 2.6 80 | 12 F | 0255 | 1.3 40 | 27 Sa | 0215 | 1.6 50 | 12 M | 0333 | 1.0 30 |
| | 0642 | 5.6 170 | | 0624 | 5.2 160 | | 0828 | 5.9 180 | | 0751 | 5.9 180 | | 0921 | 6.6 200 |
| | 1253 | 1.3 40 | | 1236 | 1.6 50 | | 1430 | 1.0 30 | | 1358 | 1.0 30 | | 1530 | 1.3 40 |
| | 1938 | 7.9 240 | | 1918 | 7.2 220 | | 2055 | 7.9 240 | | 2021 | 8.2 250 | ○ | 2134 | 7.2 220 |
| 13 W | 0220 | 1.6 50 | 28 Th | 0154 | 2.0 60 | 13 Sa | 0334 | 1.3 40 | 28 Su | 0300 | 1.0 30 | 13 Tu | 0400 | 1.0 30 |
| | 0744 | 5.6 170 | | 0719 | 5.6 170 | | 0909 | 5.9 180 | | 0839 | 6.2 190 | | 0954 | 6.6 200 |
| | 1349 | 1.0 30 | | 1328 | 1.3 40 | | 1512 | 1.0 30 | | 1448 | 0.7 20 | | 1604 | 1.3 40 |
| | 2029 | 8.2 250 | | 2004 | 7.9 240 | | 2132 | 7.9 240 | | 2105 | 8.2 250 | | 2203 | 6.9 210 |
| 14 Th | 0312 | 1.6 50 | 29 F | 0242 | 1.6 50 | 14 Su | 0409 | 1.3 40 | 29 M | 0343 | 1.0 30 | 14 W | 0426 | 1.0 30 |
| | 0839 | 5.9 180 | | 0809 | 5.9 180 | | 0946 | 6.2 190 | | 0926 | 6.6 200 | | 1025 | 6.9 210 |
| | 1440 | 1.0 30 | | 1417 | 1.0 30 | ○ | 1548 | 1.0 30 | ● | 1538 | 0.7 20 | | 1637 | 1.3 40 |
| | 2114 | 8.2 250 | | 2048 | 8.2 250 | | 2205 | 7.5 230 | | 2146 | 8.2 250 | | 2231 | 6.9 210 |
| 15 F | 0358 | 1.3 40 | 30 Sa | 0327 | 1.3 40 | 15 M | 0439 | 1.3 40 | 30 Tu | 0423 | 0.7 20 | 15 Th | 0452 | 1.0 30 |
| | 0925 | 5.9 180 | | 0856 | 5.9 180 | | 1021 | 6.2 190 | | 1011 | 7.2 220 | | 1058 | 6.9 210 |
| | 1524 | 1.0 30 | | 1504 | 0.7 20 | | 1623 | 1.3 40 | | 1625 | 0.7 20 | | 1710 | 1.6 50 |
| ○ | 2154 | 8.2 250 | | 2130 | 8.2 250 | | 2235 | 7.5 230 | | 2228 | 8.2 250 | | 2259 | 6.6 200 |
| | | | 31 Su | 0410 | 1.3 40 | | | | 31 W | 0501 | 0.7 20 | | | |
| | | | | 0943 | 6.2 190 | | | | | 1058 | 7.2 220 | | | |
| | | | ● | 1550 | 0.7 20 | | | | | 1713 | 0.7 20 | | | |
| | | | | 2211 | 8.5 260 | | | | | 2309 | 7.5 230 | | | |

Time meridian 150° E. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
 Heights are referred to the chart datum of soundings.

Brisbane Bar, Australia, 2011

Times and Heights of High and Low Waters

| October | | | November | | | December | | | | | | | | | | | | | | | | | |
|-----------------|--------|-----|----------|-----------------|------|----------|--------|-----------------|------|--------|-----|-----------------|------|-----|-----|-----------------|------|-----|-----|-----------------|------|-----|-----|
| Time | Height | | Time | Height | | Time | Height | | Time | Height | | | | | | | | | | | | | |
| | h | m | | h | m | | h | m | | h | m | | | | | | | | | | | | |
| 1 Sa | 0546 | 0.7 | 20 | 16 Su | 0515 | 1.3 | 40 | 1 Tu | 0104 | 5.2 | 160 | 16 W | 0008 | 5.2 | 160 | 1 Th | 0137 | 5.2 | 160 | 16 F | 0051 | 5.6 | 170 |
| | 1214 | 7.9 | 240 | | 1143 | 7.2 | 220 | | 0651 | 1.6 | 50 | | 0607 | 1.6 | 50 | | 0718 | 2.0 | 60 | | 0646 | 1.6 | 50 |
| | 1850 | 1.6 | 50 | | 1805 | 2.0 | 60 | | 1339 | 7.2 | 220 | | 1246 | 7.2 | 220 | | 1355 | 6.9 | 210 | | 1313 | 7.5 | 230 |
| 2 Su | 0021 | 5.9 | 180 | 17 M | 0547 | 1.3 | 40 | 2 W | 0209 | 4.9 | 150 | 17 Th | 0101 | 5.2 | 160 | 2 F | 0236 | 5.2 | 160 | 17 Sa | 0148 | 5.9 | 180 |
| | 0627 | 1.0 | 30 | | 1221 | 6.9 | 210 | | 0749 | 2.0 | 60 | | 0657 | 2.0 | 60 | | 0817 | 2.6 | 80 | | 0743 | 2.0 | 60 |
| | 1307 | 7.5 | 230 | | 1847 | 2.3 | 70 | | 1438 | 6.9 | 210 | | 1335 | 7.2 | 220 | | 1445 | 6.6 | 200 | | 1403 | 7.2 | 220 |
| 3 M | 0117 | 5.2 | 160 | 18 Tu | 0017 | 5.2 | 160 | 3 Th | 0324 | 4.9 | 150 | 18 F | 0206 | 5.2 | 160 | 3 Sa | 0344 | 5.6 | 170 | 18 Su | 0255 | 5.9 | 180 |
| | 0715 | 1.3 | 40 | | 0625 | 1.6 | 50 | | 0902 | 2.3 | 70 | | 0800 | 2.0 | 60 | | 0927 | 2.6 | 80 | | 0851 | 2.3 | 70 |
| | 1406 | 7.2 | 220 | | 1306 | 6.9 | 210 | | 1540 | 6.6 | 200 | | 1433 | 6.9 | 210 | | 1540 | 6.2 | 190 | | 1500 | 6.9 | 210 |
| 4 Tu | 0228 | 4.9 | 150 | 19 W | 0109 | 4.9 | 150 | 4 F | 0437 | 5.2 | 160 | 19 Sa | 0324 | 5.2 | 160 | 4 Su | 0451 | 5.9 | 180 | 19 M | 0408 | 6.2 | 190 |
| | 0817 | 2.0 | 60 | | 0715 | 2.0 | 60 | | 1021 | 2.6 | 80 | | 0915 | 2.3 | 70 | | 1042 | 3.0 | 90 | | 1009 | 2.3 | 70 |
| | 1514 | 6.9 | 210 | | 1401 | 6.6 | 200 | | 1644 | 6.6 | 200 | | 1537 | 6.9 | 210 | | 1639 | 5.9 | 180 | | 1604 | 6.6 | 200 |
| 5 W | 0354 | 4.9 | 150 | 20 Th | 0222 | 4.9 | 150 | 5 Sa | 0539 | 5.6 | 170 | 20 Su | 0439 | 5.9 | 180 | 5 M | 0549 | 6.2 | 190 | 20 Tu | 0520 | 6.6 | 200 |
| | 0938 | 2.3 | 70 | | 0822 | 2.3 | 70 | | 1132 | 2.3 | 70 | | 1033 | 2.0 | 60 | | 1151 | 2.6 | 80 | | 1129 | 2.3 | 70 |
| | 1628 | 6.6 | 200 | | 1509 | 6.6 | 200 | | 1741 | 6.2 | 190 | | 1642 | 6.9 | 210 | | 1736 | 5.9 | 180 | | 1713 | 6.2 | 190 |
| 6 Th | 0512 | 5.2 | 160 | 21 F | 0352 | 4.9 | 150 | 6 Su | 0020 | 1.6 | 50 | 21 M | 0546 | 6.6 | 200 | 6 Tu | 0009 | 1.6 | 50 | 21 W | 0625 | 7.2 | 220 |
| | 1101 | 2.0 | 60 | | 0945 | 2.3 | 70 | | 0630 | 6.2 | 190 | | 1148 | 2.0 | 60 | | 0639 | 6.6 | 200 | | 1247 | 2.0 | 60 |
| | 1734 | 6.6 | 200 | | 1619 | 6.9 | 210 | | 1231 | 2.3 | 70 | | 1744 | 6.9 | 210 | | 1250 | 2.6 | 80 | | 1819 | 6.2 | 190 |
| 7 F | 0022 | 1.6 | 50 | 22 Sa | 0510 | 5.6 | 170 | 7 M | 0102 | 1.3 | 40 | 22 Tu | 0023 | 1.0 | 30 | 7 W | 0053 | 1.3 | 40 | 22 Th | 0046 | 1.0 | 30 |
| | 0613 | 5.6 | 170 | | 1103 | 2.0 | 60 | | 0713 | 6.6 | 200 | | 0644 | 7.2 | 220 | | 0723 | 6.9 | 210 | | 0724 | 7.9 | 240 |
| | 1209 | 2.0 | 60 | | 1724 | 7.2 | 220 | | 1322 | 2.0 | 60 | | 1258 | 1.6 | 50 | | 1342 | 2.3 | 70 | | 1356 | 2.0 | 60 |
| 8 Sa | 0109 | 1.3 | 40 | 23 Su | 0011 | 1.3 | 40 | 8 Tu | 0138 | 1.0 | 30 | 23 W | 0116 | 0.7 | 20 | 8 Th | 0134 | 1.3 | 40 | 23 F | 0142 | 0.7 | 20 |
| | 0702 | 5.9 | 180 | | 0612 | 6.2 | 190 | | 0752 | 6.9 | 210 | | 0738 | 7.5 | 230 | | 0803 | 7.2 | 220 | | 0818 | 8.2 | 250 |
| | 1304 | 1.6 | 50 | | 1212 | 1.6 | 50 | | 1407 | 2.0 | 60 | | 1403 | 1.3 | 40 | | 1428 | 2.0 | 60 | | 1457 | 1.6 | 50 |
| 9 Su | 0147 | 1.3 | 40 | 24 M | 0104 | 1.0 | 30 | 9 W | 0212 | 1.0 | 30 | 24 Th | 0204 | 0.7 | 20 | 9 F | 0212 | 1.0 | 30 | 24 Sa | 0234 | 0.7 | 20 |
| | 0744 | 6.6 | 200 | | 0706 | 6.6 | 200 | | 0828 | 7.2 | 220 | | 0829 | 8.2 | 250 | | 0841 | 7.5 | 230 | | 0907 | 8.5 | 260 |
| | 1350 | 1.6 | 50 | | 1316 | 1.3 | 40 | | 1448 | 1.6 | 50 | | 1502 | 1.3 | 40 | | 1511 | 2.0 | 60 | | 1552 | 1.3 | 40 |
| 10 M | 0222 | 1.0 | 30 | 25 Tu | 0151 | 0.7 | 20 | 10 Th | 0244 | 1.0 | 30 | 25 F | 0251 | 0.3 | 10 | 10 Sa | 0248 | 1.0 | 30 | 25 Su | 0321 | 0.7 | 20 |
| | 0820 | 6.6 | 200 | | 0757 | 7.2 | 220 | | 0903 | 7.5 | 230 | | 0919 | 8.5 | 260 | | 0919 | 7.9 | 240 | | 0954 | 8.5 | 260 |
| | 1432 | 1.6 | 50 | | 1415 | 1.0 | 30 | | 1528 | 1.6 | 50 | | 1558 | 1.0 | 30 | | 1551 | 2.0 | 60 | | 1640 | 1.3 | 40 |
| 11 Tu | 0253 | 1.0 | 30 | 26 W | 0236 | 0.3 | 10 | 11 F | 0315 | 1.0 | 30 | 26 Sa | 0336 | 0.3 | 10 | 11 Su | 0324 | 1.0 | 30 | 26 M | 0405 | 0.7 | 20 |
| | 0855 | 6.9 | 210 | | 0846 | 7.9 | 240 | | 1605 | 1.6 | 50 | | 1006 | 8.5 | 260 | | 0955 | 7.9 | 240 | | 1038 | 8.5 | 260 |
| | 1509 | 1.3 | 40 | | 1512 | 1.0 | 30 | | 2136 | 5.9 | 180 | | 1651 | 1.0 | 30 | | 1630 | 2.0 | 60 | | 1724 | 1.3 | 40 |
| 12 W | 0321 | 1.0 | 30 | 27 Th | 0318 | 0.3 | 10 | 12 Sa | 0347 | 1.0 | 30 | 27 Su | 0418 | 0.7 | 20 | 12 M | 0400 | 1.0 | 30 | 27 Tu | 0447 | 1.0 | 30 |
| | 0928 | 7.2 | 220 | | 0933 | 8.2 | 250 | | 1013 | 7.5 | 230 | | 1054 | 8.5 | 260 | | 1032 | 7.9 | 240 | | 1119 | 8.2 | 250 |
| | 1545 | 1.6 | 50 | | 1605 | 1.0 | 30 | | 1642 | 1.6 | 50 | | 1741 | 1.3 | 40 | | 1709 | 1.6 | 50 | | 1805 | 1.3 | 40 |
| 13 Th | 0348 | 1.0 | 30 | 28 F | 0359 | 0.3 | 10 | 13 Su | 0418 | 1.0 | 30 | 28 M | 0501 | 1.0 | 30 | 13 Tu | 0437 | 1.0 | 30 | 28 W | 0527 | 1.3 | 40 |
| | 1000 | 7.2 | 220 | | 1021 | 8.2 | 250 | | 1048 | 7.5 | 230 | | 1139 | 8.2 | 250 | | 1110 | 7.9 | 240 | | 1158 | 7.9 | 240 |
| | 1620 | 1.6 | 50 | | 1657 | 1.0 | 30 | | 1718 | 2.0 | 60 | | 1829 | 1.3 | 40 | | 1748 | 2.0 | 60 | | 1843 | 1.6 | 50 |
| 14 F | 0416 | 1.0 | 30 | 29 Sa | 0439 | 0.3 | 10 | 14 M | 0451 | 1.3 | 40 | 29 Tu | 0544 | 1.3 | 40 | 14 W | 0515 | 1.3 | 40 | 29 Th | 0016 | 5.9 | 180 |
| | 1033 | 7.2 | 220 | | 1109 | 8.2 | 250 | | 1124 | 7.5 | 230 | | 1224 | 7.9 | 240 | | 1148 | 7.9 | 240 | | 0607 | 1.6 | 50 |
| | 1654 | 1.6 | 50 | | 1750 | 1.3 | 40 | | 1756 | 2.0 | 60 | | 1916 | 1.6 | 50 | | 1828 | 1.6 | 50 | | 1235 | 7.5 | 230 |
| 15 Sa | 0444 | 1.0 | 30 | 30 Su | 0520 | 0.7 | 20 | 15 Tu | 0527 | 1.3 | 40 | 30 W | 0044 | 5.6 | 170 | 15 Th | 0001 | 5.9 | 180 | 30 F | 0059 | 5.9 | 180 |
| | 1107 | 7.2 | 220 | | 1157 | 8.2 | 250 | | 1203 | 7.2 | 220 | | 0629 | 1.6 | 50 | | 0558 | 1.3 | 40 | | 0647 | 2.0 | 60 |
| | 1729 | 2.0 | 60 | | 1843 | 1.3 | 40 | | 1838 | 2.0 | 60 | | 1309 | 7.5 | 230 | | 1228 | 7.5 | 230 | | 1312 | 6.9 | 210 |
| 31 M | 2303 | 5.9 | 180 | 31 M | 0009 | 5.6 | 170 | 31 M | 0603 | 1.0 | 30 | 31 M | 2003 | 2.0 | 60 | 31 M | 1910 | 1.6 | 50 | 31 M | 1954 | 2.0 | 60 |
| | | | | | 1247 | 7.5 | 230 | | | | | | | | | | | | | | | | |
| | | | | | 1940 | 1.6 | 50 | | | | | | | | | | | | | | | | |

Time meridian 150° E. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to the chart datum of soundings.

Sydney, Australia, 2011

Times and Heights of High and Low Waters

| January | | | | February | | | | March | | | | | | | | | | | | | |
|-----------------|--------|-----|------|----------|------|-----------------|--------|-------|------|-----------------|------|------|--------|-----------------|------|-----|------|-----------------|------|-----|-----|
| Time | Height | | Time | Height | | Time | Height | | Time | Height | | Time | Height | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | |
| 1 Sa | 0534 | 5.6 | 170 | | | 1 Tu | 0030 | 1.6 | 50 | 16 W | 0622 | 5.9 | 180 | 1 Tu | 0600 | 5.2 | 160 | | | | |
| | 1225 | 1.3 | 40 | | | | 0705 | 5.6 | 170 | | 1305 | 1.0 | 30 | | 1243 | 1.3 | 40 | 16 W | 0500 | 5.2 | 160 |
| | 1813 | 3.9 | 120 | | | | 1347 | 1.0 | 30 | | 1902 | 4.6 | 140 | | 1840 | 4.3 | 130 | | 1143 | 1.3 | 40 |
| | 2347 | 1.6 | 50 | | | | 1940 | 4.3 | 130 | | | | | | | | 1747 | | 4.6 | 140 | |
| | | | | | | | | | | | | | 2330 | 1.6 | 50 | | | | | | |
| 2 Su | 0629 | 5.9 | 180 | | | 2 W | 0115 | 1.6 | 50 | 17 Th | 0043 | 1.3 | 40 | 2 W | 0018 | 1.6 | 50 | 17 Th | 0555 | 5.9 | 180 |
| | 1317 | 1.0 | 30 | | | | 0746 | 5.6 | 170 | | 0711 | 6.2 | 190 | | 0645 | 5.2 | 160 | | 1230 | 1.0 | 30 |
| | 1908 | 4.3 | 130 | | | | 1423 | 1.0 | 30 | | 1348 | 0.7 | 20 | | 1319 | 1.3 | 40 | | 1836 | 4.9 | 150 |
| | | | | | 2017 | | 4.3 | 130 | 1947 | | 4.9 | 150 | 1917 | | 4.6 | 140 | | | | | |
| 3 M | 0038 | 1.6 | 50 | | | 3 Th | 0155 | 1.3 | 40 | 18 F | 0133 | 1.0 | 30 | 3 Th | 0101 | 1.6 | 50 | 18 F | 0027 | 1.3 | 40 |
| | 0717 | 5.9 | 180 | | | | 0824 | 5.6 | 170 | | 0759 | 6.2 | 190 | | 0724 | 5.2 | 160 | | 0646 | 5.9 | 180 |
| | 1403 | 1.0 | 30 | | | | 1456 | 1.0 | 30 | | 1430 | 0.3 | 10 | | 1351 | 1.3 | 40 | | 1315 | 0.7 | 20 |
| | 1955 | 4.3 | 130 | | | | 2053 | 4.6 | 140 | | 2033 | 5.2 | 160 | | 1951 | 4.6 | 140 | | 1922 | 5.2 | 160 |
| 4 Tu | 0125 | 1.6 | 50 | | | 4 F | 0233 | 1.3 | 40 | 19 Sa | 0225 | 0.7 | 20 | 4 F | 0140 | 1.6 | 50 | 19 Sa | 0120 | 1.0 | 30 |
| | 0802 | 5.9 | 180 | | | | 0859 | 5.6 | 170 | | 0846 | 6.2 | 190 | | 0759 | 5.2 | 160 | | 0736 | 6.2 | 190 |
| | 1445 | 1.0 | 30 | | | | 1527 | 1.0 | 30 | | 1513 | 0.3 | 10 | | 1421 | 1.3 | 40 | | 1358 | 0.7 | 20 |
| | 2038 | 4.3 | 130 | | | | 2127 | 4.6 | 140 | | 2119 | 5.2 | 160 | | 2024 | 4.9 | 150 | | 2008 | 5.6 | 170 |
| 5 W | 0209 | 1.6 | 50 | | | 5 Sa | 0310 | 1.3 | 40 | 20 Su | 0317 | 0.7 | 20 | 5 Sa | 0216 | 1.3 | 40 | 20 Su | 0214 | 0.7 | 20 |
| | 0844 | 5.9 | 180 | | | | 0931 | 5.6 | 170 | | 0935 | 6.2 | 190 | | 0831 | 5.2 | 160 | | 0827 | 5.9 | 180 |
| | 1523 | 1.0 | 30 | | | | 1556 | 1.0 | 30 | | 1555 | 0.3 | 10 | | 1449 | 1.3 | 40 | | 1441 | 0.7 | 20 |
| | 2118 | 4.3 | 130 | | | | 2200 | 4.6 | 140 | | 2206 | 5.6 | 170 | | 2055 | 4.9 | 150 | | 2054 | 5.9 | 180 |
| 6 Th | 0250 | 1.6 | 50 | | | 6 Su | 0347 | 1.6 | 50 | 21 M | 0412 | 0.7 | 20 | 6 Su | 0252 | 1.3 | 40 | 21 M | 0307 | 0.7 | 20 |
| | 0921 | 5.9 | 180 | | | | 1003 | 5.2 | 160 | | 1024 | 5.9 | 180 | | 0904 | 5.2 | 160 | | 0917 | 5.9 | 180 |
| | 1600 | 1.0 | 30 | | | | 1625 | 1.3 | 40 | | 1637 | 0.7 | 20 | | 1516 | 1.3 | 40 | | 1523 | 0.7 | 20 |
| | 2157 | 4.3 | 130 | | | | 2233 | 4.6 | 140 | | 2254 | 5.6 | 170 | | 2126 | 4.9 | 150 | | 2141 | 6.2 | 190 |
| 7 F | 0330 | 1.6 | 50 | | | 7 M | 0426 | 1.6 | 50 | 22 Tu | 0508 | 1.0 | 30 | 7 M | 0329 | 1.3 | 40 | 22 Tu | 0402 | 0.7 | 20 |
| | 0958 | 5.6 | 170 | | | | 1036 | 4.9 | 150 | | 1115 | 5.2 | 160 | | 0937 | 4.9 | 150 | | 1009 | 5.2 | 160 |
| | 1633 | 1.0 | 30 | | | | 1654 | 1.3 | 40 | | 1721 | 1.0 | 30 | | 1544 | 1.3 | 40 | | 1607 | 1.0 | 30 |
| | 2234 | 4.3 | 130 | | | | 2309 | 4.6 | 140 | | 2345 | 5.6 | 170 | | 2158 | 4.9 | 150 | | 2230 | 6.2 | 190 |
| 8 Sa | 0410 | 1.6 | 50 | | | 8 Tu | 0507 | 1.6 | 50 | 23 W | 0608 | 1.0 | 30 | 8 Tu | 0406 | 1.3 | 40 | 23 W | 0459 | 1.0 | 30 |
| | 1032 | 5.2 | 160 | | | | 1111 | 4.6 | 140 | | 1209 | 4.6 | 140 | | 1011 | 4.9 | 150 | | 1102 | 4.9 | 150 |
| | 1706 | 1.3 | 40 | | | | 1725 | 1.6 | 50 | | 1807 | 1.3 | 40 | | 1613 | 1.3 | 40 | | 1652 | 1.3 | 40 |
| | 2312 | 4.3 | 130 | | | | 2347 | 4.6 | 140 | | | | | | | | 2319 | | 5.9 | 180 | |
| 9 Su | 0450 | 2.0 | 60 | | | 9 W | 0552 | 2.0 | 60 | 24 Th | 0039 | 5.2 | 160 | 9 W | 0445 | 1.6 | 50 | 24 Th | 0559 | 1.0 | 30 |
| | 1107 | 4.9 | 150 | | | | 1149 | 4.3 | 130 | | 0715 | 1.3 | 40 | | 1046 | 4.6 | 140 | | 1158 | 4.6 | 140 |
| | 1739 | 1.3 | 40 | | | | 1759 | 1.6 | 50 | | 1308 | 4.3 | 130 | | 1643 | 1.6 | 50 | | 1740 | 1.6 | 50 |
| | 2351 | 4.3 | 130 | | | | | | | | 1859 | 1.6 | 50 | | 2307 | 4.9 | 150 | | | | |
| 10 M | 0535 | 2.0 | 60 | | | 10 Th | 0030 | 4.6 | 140 | 25 F | 0140 | 5.2 | 160 | 10 Th | 0529 | 1.6 | 50 | 25 F | 0014 | 5.6 | 170 |
| | 1144 | 4.9 | 150 | | | | 0644 | 2.0 | 60 | | 0829 | 1.6 | 50 | | 1126 | 4.3 | 130 | | 0703 | 1.3 | 40 |
| | 1814 | 1.6 | 50 | | | | 1235 | 3.9 | 120 | | 1419 | 3.9 | 120 | | 1716 | 2.0 | 60 | | 1258 | 3.9 | 120 |
| | | | | | | | 1839 | 2.0 | 60 | | 2001 | 2.0 | 60 | | 2348 | 4.9 | 150 | | 1833 | 2.0 | 60 |
| 11 Tu | 0034 | 4.3 | 130 | | | 11 F | 0120 | 4.6 | 140 | 26 Sa | 0248 | 4.9 | 150 | 11 F | 0617 | 2.0 | 60 | 26 Sa | 0113 | 5.2 | 160 |
| | 0624 | 2.3 | 70 | | | | 0746 | 2.3 | 70 | | 0948 | 1.6 | 50 | | 1211 | 3.9 | 120 | | 0813 | 1.6 | 50 |
| | 1225 | 4.6 | 140 | | | | 1332 | 3.6 | 110 | | 1543 | 3.6 | 110 | | 1757 | 2.0 | 60 | | 1408 | 3.9 | 120 |
| | 1852 | 1.6 | 50 | | | | 1930 | 2.0 | 60 | | 2115 | 2.3 | 70 | | | | 1938 | | 2.3 | 70 | |
| 12 W | 0123 | 4.6 | 140 | | | 12 Sa | 0219 | 4.6 | 140 | 27 Su | 0401 | 4.9 | 150 | 12 Sa | 0036 | 4.9 | 150 | 27 Su | 0220 | 4.9 | 150 |
| | 0722 | 2.3 | 70 | | | | 0903 | 2.3 | 70 | | 1100 | 1.6 | 50 | | 0716 | 2.0 | 60 | | 0923 | 2.0 | 60 |
| | 1315 | 4.3 | 130 | | | | 1445 | 3.6 | 110 | | 1659 | 3.6 | 110 | | 1306 | 3.6 | 110 | | 1525 | 3.9 | 120 |
| | 1936 | 2.0 | 60 | | | | 2035 | 2.3 | 70 | | 2227 | 2.0 | 60 | | 1848 | 2.3 | 70 | | 2053 | 2.3 | 70 |
| 13 Th | 0216 | 4.6 | 140 | | | 13 Su | 0326 | 4.9 | 150 | 28 M | 0507 | 5.2 | 160 | 13 Su | 0135 | 4.9 | 150 | 28 M | 0332 | 4.9 | 150 |
| | 0830 | 2.3 | 70 | | | | 1021 | 2.0 | 60 | | 1158 | 1.6 | 50 | | 0829 | 2.0 | 60 | | 1026 | 2.0 | 60 |
| | 1415 | 3.9 | 120 | | | | 1609 | 3.6 | 110 | | 1756 | 3.9 | 120 | | 1418 | 3.6 | 110 | | 1634 | 3.9 | 120 |
| | 2029 | 2.0 | 60 | | | | 2148 | 2.0 | 60 | | 2328 | 2.0 | 60 | | 1958 | 2.3 | 70 | | 2206 | 2.3 | 70 |
| 14 F | 0313 | 4.6 | 140 | | | 14 M | 0430 | 4.9 | 150 | 29 Sa | 0430 | 4.9 | 150 | 14 M | 0245 | 4.9 | 150 | 29 Tu | 0437 | 4.9 | 150 |
| | 0947 | 2.3 | 70 | | | | 1126 | 1.6 | 50 | | 1126 | 1.6 | 50 | | 0944 | 2.0 | 60 | | 1119 | 1.6 | 50 |
| | 1529 | 3.6 | 110 | | | | 1719 | 3.9 | 120 | | 1719 | 3.9 | 120 | | 1542 | 3.6 | 110 | | 1727 | 4.3 | 130 |
| | 2126 | 2.0 | 60 | | | | 2253 | 2.0 | 60 | | | | | | 2117 | 2.3 | 70 | | 2309 | 2.3 | 70 |
| 15 Sa | 0411 | 4.9 | 150 | | | 15 Tu | 0530 | 5.2 | 160 | 30 Su | 0530 | 5.2 | 160 | 15 Tu | 0356 | 4.9 | 150 | 30 W | 0530 | 4.9 | 150 |
| | 1100 | 2.0 | 60 | | | | 1218 | 1.3 | 40 | | 1218 | 1.3 | 40 | | 1048 | 1.6 | 50 | | 1201 | 1.6 | 50 |
| | 1641 | 3.6 | 110 | | | | 1814 | 4.3 | 130 | | 1814 | 4.3 | 130 | | 1652 | 3.9 | 120 | | 1809 | 4.6 | 140 |
| | 2225 | 2.0 | 60 | | | | 2350 | 1.6 | 50 | | | | | | 2230 | 2.0 | 60 | | | | |
| 16 Su | 0506 | 5.2 | 160 | | | 16 M | 0618 | 5.6 | 170 | 31 Th | 0000 | 2.0 | 60 | 31 Th | 0000 | 2.0 | 60 | | | | |
| | 1158 | 1.6 | 50 | | | | 1307 | 1.3 | 40 | | 1307 | 1.3 | 40 | | 0614 | 4.9 | 150 | 0614 | 4.9 | 150 | |
| | 1744 | 3.9 | 120 | | | | 1859 | 4.3 | 130 | | 1859 | 4.3 | 130 | | 1238 | 1.6 | 50 | 1238 | 1.6 | 50 | |
| 2319 | 2.0 | 60 | | | | | | | | | | | 1846 | | 4.6 | 140 | 1846 | 4.6 | 140 | | |

Time meridian 150° E. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to the chart datum of soundings.

Sydney, Australia, 2011

Times and Heights of High and Low Waters

| July | | | | August | | | | September | | | | | | | | | | | | | | | | | | | | | |
|-----------------|--------|-----|-----|--------|-----------------|------|-----|-----------|--------|-----------------|------|------|--------|----|-----------------|------|-----|-----|----|-----------------|------|-----|-----|--|-----------------|------|-----|-----|--|
| Time | Height | | | Time | Height | | | Time | Height | | | Time | Height | | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | |
| 1 F | 0216 | 1.3 | 40 | | 16 Sa | 0304 | 1.0 | 30 | | 1 M | 0915 | 4.9 | 150 | | 16 Tu | 0339 | 1.0 | 30 | | 1 Th | 0407 | 0.7 | 20 | | 16 F | 0355 | 1.3 | 40 | |
| | 0808 | 4.3 | 130 | | | 0900 | 4.6 | 140 | | | 1500 | 1.0 | 30 | | | 0945 | 4.6 | 140 | | | 1024 | 5.6 | 170 | | | 1015 | 4.9 | 150 | |
| | 1342 | 1.6 | 50 | | | 1435 | 1.6 | 50 | | | 2124 | 6.2 | 190 | | | 1535 | 1.3 | 40 | | | 1637 | 0.7 | 20 | | | 1631 | 1.3 | 40 | |
| | 2015 | 6.2 | 190 | | | 2106 | 5.9 | 180 | | | | | | | | 2149 | 5.2 | 160 | | | 2245 | 5.2 | 160 | | | 2230 | 4.3 | 130 | |
| 2 Sa | 0257 | 1.0 | 30 | | 17 Su | 0343 | 1.0 | 30 | | 2 Tu | 0355 | 0.7 | 20 | | 17 W | 0408 | 1.0 | 30 | | 2 F | 0451 | 0.7 | 20 | | 17 Sa | 0427 | 1.6 | 50 | |
| | 0852 | 4.6 | 140 | | | 0942 | 4.6 | 140 | | | 1001 | 4.9 | 150 | | | 1019 | 4.6 | 140 | | | 1115 | 5.6 | 170 | | | 1052 | 4.9 | 150 | |
| | 1427 | 1.6 | 50 | | | 1518 | 1.6 | 50 | | | 1552 | 1.0 | 30 | | | 1615 | 1.6 | 50 | | | 1736 | 1.0 | 30 | | | 1714 | 1.6 | 50 | |
| | 2059 | 6.2 | 190 | | | 2145 | 5.9 | 180 | | | 2211 | 5.9 | 180 | | | 2222 | 4.9 | 150 | | | 2339 | 4.6 | 140 | | | 2311 | 3.9 | 120 | |
| 3 Su | 0339 | 1.0 | 30 | | 18 M | 0419 | 1.0 | 30 | | 3 W | 0437 | 0.7 | 20 | | 18 Th | 0438 | 1.3 | 40 | | 3 Sa | 0539 | 1.0 | 30 | | 18 Su | 0501 | 1.6 | 50 | |
| | 0937 | 4.6 | 140 | | | 1021 | 4.6 | 140 | | | 1049 | 5.2 | 160 | | | 1055 | 4.6 | 140 | | | 1209 | 5.6 | 170 | | | 1133 | 4.9 | 150 | |
| | 1514 | 1.6 | 50 | | | 1601 | 1.6 | 50 | | | 1646 | 1.0 | 30 | | | 1656 | 1.6 | 50 | | | 1842 | 1.3 | 40 | | | 1802 | 1.6 | 50 | |
| | 2143 | 6.2 | 190 | | | 2221 | 5.6 | 170 | | | 2300 | 5.6 | 170 | | | 2258 | 4.6 | 140 | | | | | | | 2357 | 3.9 | 120 | | |
| 4 M | 0421 | 1.0 | 30 | | 19 Tu | 0453 | 1.3 | 40 | | 4 Th | 0521 | 0.7 | 20 | | 19 F | 0510 | 1.3 | 40 | | 4 Su | 0039 | 4.3 | 130 | | 19 M | 0544 | 2.0 | 60 | |
| | 1024 | 4.6 | 140 | | | 1100 | 4.6 | 140 | | | 1140 | 5.2 | 160 | | | 1133 | 4.6 | 140 | | | 0631 | 1.3 | 40 | | | 1220 | 4.6 | 140 | |
| | 1603 | 1.6 | 50 | | | 1642 | 2.0 | 60 | | | 1745 | 1.3 | 40 | | | 1741 | 2.0 | 60 | | | 1309 | 5.2 | 160 | | | 1900 | 2.0 | 60 | |
| | 2228 | 6.2 | 190 | | | 2256 | 5.2 | 160 | | | 2351 | 5.2 | 160 | | | 2337 | 4.3 | 130 | | | 1956 | 1.3 | 40 | | | | | | |
| 5 Tu | 0506 | 1.0 | 30 | | 20 W | 0527 | 1.3 | 40 | | 5 F | 0607 | 1.0 | 30 | | 20 Sa | 0545 | 1.6 | 50 | | 5 M | 0148 | 3.9 | 120 | | 20 Tu | 0052 | 3.6 | 110 | |
| | 1114 | 4.6 | 140 | | | 1140 | 4.6 | 140 | | | 1233 | 5.2 | 160 | | | 1216 | 4.6 | 140 | | | 0733 | 1.6 | 50 | | | 0635 | 2.0 | 60 | |
| | 1657 | 1.6 | 50 | | | 1726 | 2.0 | 60 | | | 1848 | 1.6 | 50 | | | 1832 | 2.0 | 60 | | | 1416 | 5.2 | 160 | | | 1317 | 4.6 | 140 | |
| | 2315 | 5.9 | 180 | | | 2332 | 4.9 | 150 | | | | | | | | | | | | | 2115 | 1.6 | 50 | | | 2010 | 2.0 | 60 | |
| 6 W | 0551 | 1.0 | 30 | | 21 Th | 0600 | 1.6 | 50 | | 6 Sa | 0048 | 4.6 | 140 | | 21 Su | 0023 | 3.9 | 120 | | 6 Tu | 0309 | 3.6 | 110 | | 21 W | 0201 | 3.6 | 110 | |
| | 1205 | 4.9 | 150 | | | 1221 | 4.6 | 140 | | | 0658 | 1.3 | 40 | | | 0626 | 2.0 | 60 | | | 0845 | 2.0 | 60 | | | 0741 | 2.0 | 60 | |
| | 1754 | 1.6 | 50 | | | 1814 | 2.3 | 70 | | | 1332 | 5.2 | 160 | | | 1306 | 4.6 | 140 | | | 1530 | 4.9 | 150 | | | 1423 | 4.6 | 140 | |
| | | | | | | | | | | | 2002 | 1.6 | 50 | | | 1934 | 2.3 | 70 | | | 2228 | 1.3 | 40 | | | 2122 | 2.0 | 60 | |
| 7 Th | 0006 | 5.6 | 170 | | 22 F | 0013 | 4.6 | 140 | | 7 Su | 0155 | 4.3 | 130 | | 22 M | 0120 | 3.6 | 110 | | 7 W | 0425 | 3.6 | 110 | | 22 Th | 0318 | 3.6 | 110 | |
| | 0639 | 1.0 | 30 | | | 0638 | 1.6 | 50 | | | 0755 | 1.6 | 50 | | | 0717 | 2.0 | 60 | | | 0957 | 2.0 | 60 | | | 0856 | 2.0 | 60 | |
| | 1300 | 4.9 | 150 | | | 1307 | 4.6 | 140 | | | 1437 | 5.2 | 160 | | | 1403 | 4.6 | 140 | | | 1638 | 5.2 | 160 | | | 1532 | 4.9 | 150 | |
| | 1857 | 2.0 | 60 | | | 1910 | 2.3 | 70 | | | 2123 | 1.6 | 50 | | | 2050 | 2.3 | 70 | | | 2328 | 1.3 | 40 | | | 2225 | 1.6 | 50 | |
| 8 F | 0102 | 4.9 | 150 | | 23 Sa | 0101 | 4.3 | 130 | | 8 M | 0312 | 3.9 | 120 | | 23 Tu | 0231 | 3.6 | 110 | | 8 Th | 0525 | 3.9 | 120 | | 23 F | 0427 | 3.9 | 120 | |
| | 0729 | 1.3 | 40 | | | 0721 | 2.0 | 60 | | | 0900 | 1.6 | 50 | | | 0821 | 2.0 | 60 | | | 1101 | 1.6 | 50 | | | 1005 | 2.0 | 60 | |
| | 1357 | 4.9 | 150 | | | 1359 | 4.6 | 140 | | | 1545 | 5.2 | 160 | | | 1508 | 4.6 | 140 | | | 1735 | 5.2 | 160 | | | 1634 | 4.9 | 150 | |
| | 2008 | 2.0 | 60 | | | 2016 | 2.3 | 70 | | | 2240 | 1.6 | 50 | | | 2205 | 2.0 | 60 | | | | | | | | 2316 | 1.3 | 40 | |
| 9 Sa | 0207 | 4.6 | 140 | | 24 Su | 0201 | 3.9 | 120 | | 9 Tu | 0430 | 3.9 | 120 | | 24 W | 0350 | 3.6 | 110 | | 9 F | 0015 | 1.3 | 40 | | 24 Sa | 0520 | 4.3 | 130 | |
| | 0822 | 1.3 | 40 | | | 0811 | 2.0 | 60 | | | 1006 | 1.6 | 50 | | | 0930 | 2.0 | 60 | | | 0613 | 4.3 | 130 | | | 1105 | 1.6 | 50 | |
| | 1458 | 5.2 | 160 | | | 1455 | 4.6 | 140 | | | 1652 | 5.2 | 160 | | | 1613 | 4.9 | 150 | | | 1155 | 1.6 | 50 | | | 1729 | 5.2 | 160 | |
| | 2126 | 2.0 | 60 | | | 2132 | 2.3 | 70 | | | 2345 | 1.3 | 40 | | | 2307 | 1.6 | 50 | | | 1822 | 5.2 | 160 | | | | | | |
| 10 Su | 0318 | 4.3 | 130 | | 25 M | 0312 | 3.6 | 110 | | 10 W | 0536 | 3.9 | 120 | | 25 Th | 0458 | 3.6 | 110 | | 10 Sa | 0055 | 1.0 | 30 | | 25 Su | 0001 | 1.0 | 30 | |
| | 0919 | 1.6 | 50 | | | 0908 | 2.0 | 60 | | | 1108 | 1.6 | 50 | | | 1032 | 2.0 | 60 | | | 0654 | 4.6 | 140 | | | 0608 | 4.6 | 140 | |
| | 1600 | 5.6 | 170 | | | 1554 | 4.9 | 150 | | | 1750 | 5.6 | 170 | | | 1709 | 5.2 | 160 | | | 1242 | 1.3 | 40 | | | 1200 | 1.0 | 30 | |
| | 2243 | 1.6 | 50 | | | 2244 | 2.0 | 60 | | | | | | | | 2357 | 1.3 | 40 | | | 1902 | 5.2 | 160 | | | 1819 | 5.6 | 170 | |
| 11 M | 0431 | 4.3 | 130 | | 26 Tu | 0423 | 3.6 | 110 | | 11 Th | 0038 | 1.3 | 40 | | 26 F | 0550 | 3.9 | 120 | | 11 Su | 0129 | 1.0 | 30 | | 26 M | 0045 | 0.7 | 20 | |
| | 1018 | 1.6 | 50 | | | 1006 | 2.0 | 60 | | | 0630 | 4.3 | 130 | | | 1128 | 1.6 | 50 | | | 0730 | 4.6 | 140 | | | 0653 | 4.9 | 150 | |
| | 1702 | 5.6 | 170 | | | 1650 | 4.9 | 150 | | | 1204 | 1.6 | 50 | | | 1800 | 5.6 | 170 | | | 1323 | 1.3 | 40 | | | 1252 | 0.7 | 20 | |
| | 2351 | 1.3 | 40 | | | 2342 | 2.0 | 60 | | | 1841 | 5.6 | 170 | | | | | | | | 1939 | 5.2 | 160 | | | 1907 | 5.9 | 180 | |
| 12 Tu | 0539 | 4.3 | 130 | | 27 W | 0525 | 3.9 | 120 | | 12 F | 0122 | 1.0 | 30 | | 27 Sa | 0040 | 1.0 | 30 | | 12 M | 0200 | 1.0 | 30 | | 27 Tu | 0127 | 0.3 | 10 | |
| | 1116 | 1.6 | 50 | | | 1100 | 2.0 | 60 | | | 0715 | 4.3 | 130 | | | 0636 | 4.3 | 130 | | | 0804 | 4.9 | 150 | | | 0738 | 5.6 | 170 | |
| | 1800 | 5.9 | 180 | | | 1741 | 5.2 | 160 | | | 1253 | 1.3 | 40 | | | 1218 | 1.3 | 40 | | | 1400 | 1.3 | 40 | | | 1345 | 0.7 | 20 | |
| | | | | | | | | | | | 1925 | 5.9 | 180 | | | 1846 | 5.9 | 180 | | | 2014 | 5.2 | 160 | | | 1957 | 5.9 | 180 | |
| 13 W | 0048 | 1.3 | 40 | | 28 Th | 0030 | 1.6 | 50 | | 13 Sa | 0201 | 1.0 | 30 | | 28 Su | 0121 | 0.7 | 20 | | 13 Tu | 022 | | | | | | | | |

Port Phillip, Point Lonsdale, Australia, 2011

Times and Heights of High and Low Waters

| July | | | August | | | | | | September | | | | | | | | | | | | | | |
|-----------------|--------|-----|--------|-----------------|--------|-----|-----|-----------------|-----------|-----|-----|-----------------|--------|-----|-----|-----------------|------|-----|-----|-----------------|------|-----|-----|
| Time | Height | | | Time | Height | | | Time | Height | | | Time | Height | | | | | | | | | | |
| | h | m | cm | h | m | ft | cm | h | m | ft | cm | h | m | ft | cm | h | m | ft | cm | | | | |
| 1 F | 0446 | 1.3 | 40 | 16 Sa | 0539 | 1.0 | 30 | 1 M | 0003 | 4.3 | 130 | 16 Tu | 0115 | 4.6 | 140 | 1 Th | 0146 | 5.2 | 160 | 16 F | 0225 | 4.9 | 150 |
| | 1205 | 4.9 | 150 | | 1253 | 5.2 | 160 | | 0557 | 1.3 | 40 | | 0709 | 1.3 | 40 | | 0723 | 1.3 | 40 | | 0805 | 1.6 | 50 |
| | 1731 | 3.0 | 90 | | 1817 | 2.6 | 80 | | 1311 | 4.9 | 150 | | 1358 | 4.9 | 150 | | 1406 | 5.2 | 160 | | 1422 | 4.9 | 150 |
| ● | 2328 | 4.3 | 130 | | | | | | 1843 | 2.3 | 70 | | 1945 | 1.6 | 50 | | 1952 | 1.0 | 30 | | 2023 | 1.0 | 30 |
| 2 Sa | 0540 | 1.3 | 40 | 17 Su | 0028 | 4.6 | 140 | 2 Tu | 0103 | 4.6 | 140 | 17 W | 0203 | 4.6 | 140 | 2 F | 0238 | 5.2 | 160 | 17 Sa | 0258 | 4.9 | 150 |
| | 1254 | 5.2 | 160 | | 0635 | 1.0 | 30 | | 0649 | 1.0 | 30 | | 0751 | 1.3 | 40 | | 0812 | 1.3 | 40 | | 0838 | 1.6 | 50 |
| | 1825 | 3.0 | 90 | | 1344 | 5.2 | 160 | | 1355 | 5.2 | 160 | | 1430 | 4.9 | 150 | | 1446 | 5.2 | 160 | | 1452 | 4.9 | 150 |
| | | | | | 1915 | 2.3 | 70 | | 1931 | 2.0 | 60 | | 2024 | 1.6 | 50 | | 2040 | 0.7 | 20 | | 2056 | 1.0 | 30 |
| 3 Su | 0026 | 4.6 | 140 | 18 M | 0124 | 4.6 | 140 | 3 W | 0158 | 4.9 | 150 | 18 Th | 0245 | 4.9 | 150 | 3 Sa | 0328 | 5.6 | 170 | 18 Su | 0330 | 4.9 | 150 |
| | 0627 | 1.3 | 40 | | 0725 | 1.3 | 40 | | 0739 | 1.0 | 30 | | 0829 | 1.6 | 50 | | 0858 | 1.3 | 40 | | 0912 | 1.6 | 50 |
| | 1339 | 5.2 | 160 | | 1428 | 5.2 | 160 | | 1436 | 5.2 | 160 | | 1500 | 4.9 | 150 | | 1527 | 5.2 | 160 | | 1524 | 4.9 | 150 |
| | 1912 | 2.6 | 80 | | 2006 | 2.0 | 60 | | 2018 | 1.6 | 50 | | 2059 | 1.3 | 40 | | 2127 | 0.3 | 10 | | 2129 | 1.0 | 30 |
| 4 M | 0119 | 4.6 | 140 | 19 Tu | 0215 | 4.6 | 140 | 4 Th | 0249 | 5.2 | 160 | 19 F | 0322 | 4.9 | 150 | 4 Su | 0417 | 5.2 | 160 | 19 M | 0402 | 4.9 | 150 |
| | 0711 | 1.0 | 30 | | 0810 | 1.3 | 40 | | 0827 | 1.3 | 40 | | 0902 | 1.6 | 50 | | 0943 | 1.6 | 50 | | 0945 | 1.6 | 50 |
| | 1422 | 5.6 | 170 | | 1505 | 5.2 | 160 | | 1515 | 5.6 | 170 | | 1529 | 4.9 | 150 | | 1607 | 5.2 | 160 | | 1557 | 4.6 | 140 |
| | 1956 | 2.3 | 70 | | 2050 | 2.0 | 60 | | 2104 | 1.3 | 40 | | 2131 | 1.3 | 40 | | 2214 | 0.3 | 10 | | 2201 | 1.0 | 30 |
| 5 Tu | 0210 | 4.9 | 150 | 20 W | 0300 | 4.9 | 150 | 5 F | 0339 | 5.2 | 160 | 20 Sa | 0357 | 4.9 | 150 | 5 M | 0507 | 5.2 | 160 | 20 Tu | 0438 | 4.9 | 150 |
| | 0755 | 1.0 | 30 | | 0851 | 1.3 | 40 | | 0914 | 1.3 | 40 | | 0936 | 1.6 | 50 | | 1028 | 1.6 | 50 | | 1019 | 2.0 | 60 |
| | 1502 | 5.6 | 170 | | 1538 | 5.2 | 160 | | 1553 | 5.2 | 160 | | 1558 | 4.9 | 150 | | 1648 | 4.9 | 150 | | 1630 | 4.6 | 140 |
| | 2040 | 2.0 | 60 | | 2130 | 1.6 | 50 | | 2150 | 1.0 | 30 | | 2204 | 1.3 | 40 | ● | 2300 | 0.7 | 20 | ○ | 2233 | 1.0 | 30 |
| 6 W | 0258 | 4.9 | 150 | 21 Th | 0344 | 4.6 | 140 | 6 Sa | 0430 | 5.2 | 160 | 21 Su | 0431 | 4.9 | 150 | 6 Tu | 0600 | 4.9 | 150 | 21 W | 0517 | 4.6 | 140 |
| | 0840 | 1.3 | 40 | | 0928 | 1.6 | 50 | | 1000 | 1.6 | 50 | | 1011 | 2.0 | 60 | | 1112 | 2.0 | 60 | | 1053 | 2.0 | 60 |
| | 1541 | 5.6 | 170 | | 1607 | 5.2 | 160 | ○ | 1631 | 5.2 | 160 | | 1628 | 4.9 | 150 | | 1733 | 4.9 | 150 | | 1706 | 4.6 | 140 |
| | 2124 | 1.6 | 50 | | 2205 | 1.6 | 50 | | 2236 | 0.7 | 20 | | 2237 | 1.0 | 30 | | 2347 | 0.7 | 20 | | 2306 | 1.0 | 30 |
| 7 Th | 0346 | 4.9 | 150 | 22 F | 0424 | 4.6 | 140 | 7 Su | 0522 | 5.2 | 160 | 22 M | 0509 | 4.6 | 140 | 7 W | 0659 | 4.6 | 140 | 22 Th | 0601 | 4.6 | 140 |
| | 0926 | 1.3 | 40 | | 1003 | 2.0 | 60 | | 1045 | 2.0 | 60 | | 1045 | 2.0 | 60 | | 1158 | 2.0 | 60 | | 1128 | 2.3 | 70 |
| | 1618 | 5.6 | 170 | | 1635 | 5.2 | 160 | | 1711 | 5.2 | 160 | ○ | 1700 | 4.9 | 150 | | 1823 | 4.6 | 140 | | 1745 | 4.3 | 130 |
| | 2208 | 1.3 | 40 | | 2240 | 1.6 | 50 | | 2322 | 0.7 | 20 | | 2311 | 1.3 | 40 | | | | | | 2341 | 1.3 | 40 |
| 8 F | 0436 | 4.9 | 150 | 23 Sa | 0504 | 4.6 | 140 | 8 M | 0619 | 4.9 | 150 | 23 Tu | 0550 | 4.6 | 140 | 8 Th | 0037 | 1.0 | 30 | 23 F | 0652 | 4.3 | 130 |
| | 1013 | 1.6 | 50 | | 1039 | 2.0 | 60 | | 1130 | 2.0 | 60 | | 1121 | 2.3 | 70 | | 0800 | 4.6 | 140 | | 1207 | 2.3 | 70 |
| ○ | 1655 | 5.2 | 160 | ○ | 1704 | 4.9 | 150 | | 1753 | 4.9 | 150 | | 1735 | 4.6 | 140 | | 1249 | 2.3 | 70 | | 1833 | 4.3 | 130 |
| | 2253 | 1.3 | 40 | | 2314 | 1.3 | 40 | | | | | | 2345 | 1.3 | 40 | | 1924 | 4.3 | 130 | | | | |
| 9 Sa | 0530 | 4.9 | 150 | 24 Su | 0545 | 4.6 | 140 | 9 Tu | 0009 | 1.0 | 30 | 24 W | 0637 | 4.6 | 140 | 9 F | 0134 | 1.3 | 40 | 24 Sa | 0025 | 1.3 | 40 |
| | 1100 | 2.0 | 60 | | 1115 | 2.3 | 70 | | 0721 | 4.9 | 150 | | 1158 | 2.3 | 70 | | 0903 | 4.3 | 130 | | 0750 | 4.3 | 130 |
| | 1733 | 5.2 | 160 | | 1736 | 4.9 | 150 | | 1217 | 2.3 | 70 | | 1814 | 4.6 | 140 | | 1353 | 2.6 | 80 | | 1256 | 2.3 | 70 |
| | 2339 | 1.0 | 30 | | 2348 | 1.3 | 40 | | 1842 | 4.9 | 150 | | | | | | 2041 | 4.3 | 130 | | 1935 | 3.9 | 120 |
| 10 Su | 0631 | 4.9 | 150 | 25 M | 0631 | 4.6 | 140 | 10 W | 0100 | 1.0 | 30 | 25 Th | 0021 | 1.3 | 40 | 10 Sa | 0243 | 1.6 | 50 | 25 Su | 0121 | 1.3 | 40 |
| | 1147 | 2.3 | 70 | | 1153 | 2.6 | 80 | | 0825 | 4.6 | 140 | | 0731 | 4.3 | 130 | | 1004 | 4.3 | 130 | | 0855 | 4.3 | 130 |
| | 1815 | 4.9 | 150 | | 1811 | 4.6 | 140 | | 1309 | 2.6 | 80 | | 1239 | 2.6 | 80 | | 1517 | 2.6 | 80 | | 1400 | 2.3 | 70 |
| | | | | | | | | | 1938 | 4.6 | 140 | | 1900 | 4.3 | 130 | | 2200 | 3.9 | 120 | | 2053 | 3.9 | 120 |
| 11 M | 0027 | 1.0 | 30 | 26 Tu | 0025 | 1.3 | 40 | 11 Th | 0158 | 1.3 | 40 | 26 F | 0105 | 1.3 | 40 | 11 Su | 0359 | 1.6 | 50 | 26 M | 0231 | 1.6 | 50 |
| | 0738 | 4.9 | 150 | | 0723 | 4.6 | 140 | | 0929 | 4.6 | 140 | | 0834 | 4.3 | 130 | | 1104 | 4.3 | 130 | | 1001 | 4.3 | 130 |
| | 1237 | 2.6 | 80 | | 1233 | 2.6 | 80 | | 1413 | 2.6 | 80 | | 1330 | 3.0 | 90 | | 1642 | 2.3 | 70 | | 1516 | 2.0 | 60 |
| | 1903 | 4.9 | 150 | | 1850 | 4.6 | 140 | | 2047 | 4.3 | 130 | | 1958 | 4.3 | 130 | | 2310 | 4.3 | 130 | | 2219 | 4.3 | 130 |
| 12 Tu | 0119 | 1.0 | 30 | 27 W | 0105 | 1.3 | 40 | 12 F | 0307 | 1.3 | 40 | 27 Sa | 0200 | 1.3 | 40 | 12 M | 0507 | 1.6 | 50 | 27 Tu | 0351 | 1.6 | 50 |
| | 0845 | 4.9 | 150 | | 0820 | 4.3 | 130 | | 1032 | 4.6 | 140 | | 0942 | 4.3 | 130 | | 1157 | 4.6 | 140 | | 1102 | 4.3 | 130 |
| | 1331 | 2.6 | 80 | | 1319 | 3.0 | 90 | | 1533 | 3.0 | 90 | | 1437 | 3.0 | 90 | | 1746 | 2.0 | 60 | | 1633 | 1.6 | 50 |
| | 1959 | 4.9 | 150 | | 1937 | 4.3 | 130 | | 2204 | 4.3 | 130 | | 2111 | 3.9 | 120 | ○ | | | | ● | 2334 | 4.6 | 140 |
| 13 W | 0218 | 1.0 | 30 | 28 Th | 0151 | 1.6 | 50 | 13 Sa | 0420 | 1.3 | 40 | 28 Su | 0308 | 1.3 | 40 | 13 Tu | 0012 | 4.3 | 130 | 28 W | 0508 | 1.6 | 50 |
| | 0950 | 4.9 | 150 | | 0922 | 4.3 | 130 | | 1134 | 4.6 | 140 | | 1046 | 4.3 | 130 | | 0604 | 1.6 | 50 | | 1158 | 4.6 | 140 |
| | 1437 | 3.0 | 90 | | 1415 | 3.0 | 90 | | 1656 | 2.6 | 80 | | 1554 | 2.6 | 80 | | 1243 | 4.6 | 140 | | 1738 | 1.3 | 40 |
| | 2104 | 4.6 | 140 | | 2033 | 4.3 | 130 | | 2315 | 4.3 | 130 | | 2232 | 4.3 | 130 | | 1834 | 1.6 | 50 | | | | |
| 14 Th | 0327 | 1.3 | 40 | 29 F | 0248 | 1.6 | 50 | 14 Su | 0525 | 1.3 | 40 | 29 M | 0422 | 1.3 | 40 | 14 W | 0104 | 4.6 | 140 | 29 Th | 0037 | 4.9 | 150 |
| | 1054 | 4.9 | 150 | | 1027 | 4.6 | 140 | | 1230 | 4.9 | 150 | | 1145 | 4.6 | 140 | | 0651 | 1.6 | 50 | | 0613 | 1.6 | 50 |
| | 1553 | 3.0 | 90 | | 1525 | 3.3 | 100 | | 1806 | 2.3 | 70 | | 1709 | 2.3 | 70 | | 1320 | 4.6 | 140 | | 1247 | 4.9 | 150 |
| | 2216 | 4.6 | 140 | | 2 | | | | | | | | | | | | | | | | | | |

Port Phillip, Point Lonsdale, Australia, 2011

Times and Heights of High and Low Waters

| October | | | | November | | | | December | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|--------|-----|-----|----------|-----------------|------|-----|----------|--------|-----------------|------|------|--------|----|-----------------|------|-----|-----|----|-----------------|------|-----|-----|--|-----------------|------|-----|-----|--|-----------------|------|-----|----|--|
| Time | Height | | | Time | Height | | | Time | Height | | | Time | Height | | | | | | | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | | | | | | |
| 1 Sa | 0225 | 5.6 | 170 | | 16 Su | 0232 | 5.2 | 160 | | 1 Tu | 0344 | 5.6 | 170 | | 16 W | 0319 | 5.2 | 160 | | 1 Th | 0411 | 5.2 | 160 | | 16 F | 0339 | 5.2 | 160 | | | | | | |
| | 0754 | 1.3 | 40 | | | 0815 | 1.6 | 50 | | | 0908 | 1.6 | 50 | | | 0902 | 2.0 | 60 | | | 0944 | 1.3 | 40 | | | 0922 | 1.6 | 50 | | | | | | |
| | 1418 | 4.9 | 150 | | | 1420 | 4.6 | 140 | | | 1526 | 4.9 | 150 | | | 1509 | 4.6 | 140 | | | 1600 | 4.6 | 140 | | | 1535 | 4.6 | 140 | | | | | | |
| | 2014 | 0.3 | 10 | | | 2023 | 0.7 | 20 | | | 2128 | 0.3 | 10 | | | 2100 | 0.7 | 20 | | | 2155 | 1.0 | 30 | | | 2116 | 1.0 | 30 | | | | | | |
| 2 Su | 0314 | 5.6 | 170 | | 17 M | 0305 | 5.2 | 160 | | 2 W | 0430 | 5.2 | 160 | | 17 Th | 0356 | 5.2 | 160 | | 2 F | 0452 | 5.2 | 160 | | 17 Sa | 0415 | 5.2 | 160 | | 17 Su | 0400 | 1.3 | 40 | |
| | 0839 | 1.3 | 40 | | | 0848 | 1.6 | 50 | | | 0954 | 1.6 | 50 | | | 0937 | 1.6 | 50 | | | 1030 | 1.3 | 40 | | | 1000 | 1.3 | 40 | | | | | | |
| | 1501 | 5.2 | 160 | | | 1455 | 4.6 | 140 | | | 1613 | 4.6 | 140 | | | 1548 | 4.3 | 130 | | | 1649 | 4.3 | 130 | | | 1619 | 4.6 | 140 | | | | | | |
| | 2102 | 0.3 | 10 | | | 2056 | 0.7 | 20 | | | 2215 | 0.7 | 20 | | | 2132 | 1.0 | 30 | | | 2238 | 1.3 | 40 | | | 2156 | 1.0 | 30 | | | | | | |
| 3 M | 0400 | 5.6 | 170 | | 18 Tu | 0339 | 5.2 | 160 | | 3 Th | 0515 | 4.9 | 150 | | 18 F | 0432 | 4.9 | 150 | | 3 Sa | 0531 | 4.9 | 150 | | 18 Su | 0450 | 4.9 | 150 | | 18 Mo | 1039 | 1.3 | 40 | |
| | 0924 | 1.6 | 50 | | | 0922 | 1.6 | 50 | | | 1040 | 1.6 | 50 | | | 1012 | 1.6 | 50 | | | 1115 | 1.3 | 40 | | | 1039 | 1.3 | 40 | | | | | | |
| | 1545 | 4.9 | 150 | | | 1530 | 4.6 | 140 | | | 1701 | 4.6 | 140 | | | 1629 | 4.3 | 130 | | | 1745 | 4.3 | 130 | | | 1706 | 4.6 | 140 | | | | | | |
| | 2149 | 0.3 | 10 | | | 2129 | 1.0 | 30 | | | 2300 | 1.0 | 30 | | | 2207 | 1.0 | 30 | | | 2319 | 1.6 | 50 | | | 2240 | 1.3 | 40 | | | | | | |
| 4 Tu | 0448 | 5.2 | 160 | | 19 W | 0415 | 4.9 | 150 | | 4 F | 0603 | 4.9 | 150 | | 19 Sa | 0511 | 4.9 | 150 | | 4 Su | 0610 | 4.6 | 140 | | 19 M | 1121 | 1.0 | 30 | | | | | | |
| | 1009 | 1.6 | 50 | | | 0956 | 2.0 | 60 | | | 1128 | 1.6 | 50 | | | 1049 | 1.6 | 50 | | | 1200 | 1.3 | 40 | | | 1121 | 1.0 | 30 | | | | | | |
| | 1629 | 4.9 | 150 | | | 1606 | 4.6 | 140 | | | 1758 | 4.3 | 130 | | | 1714 | 4.3 | 130 | | | 1846 | 3.9 | 120 | | | 1800 | 4.3 | 130 | | | | | | |
| | 2237 | 0.7 | 20 | | | 2159 | 1.0 | 30 | | | 2345 | 1.3 | 40 | | | 2248 | 1.3 | 40 | | | | | | | | 2328 | 1.6 | 50 | | | | | | |
| 5 W | 0539 | 4.9 | 150 | | 20 Th | 0452 | 4.9 | 150 | | 5 Sa | 0653 | 4.6 | 140 | | 20 Su | 0551 | 4.6 | 140 | | 5 M | 0001 | 2.0 | 60 | | 20 Tu | 0608 | 4.9 | 150 | | | | | | |
| | 1054 | 1.6 | 50 | | | 1030 | 2.0 | 60 | | | 1219 | 1.6 | 50 | | | 1107 | 1.6 | 50 | | | 0649 | 4.6 | 140 | | | 1206 | 1.0 | 30 | | | | | | |
| | 1715 | 4.6 | 140 | | | 1644 | 4.3 | 130 | | | 1907 | 3.9 | 120 | | | 1830 | 4.3 | 130 | | | 1245 | 1.3 | 40 | | | 1904 | 4.3 | 130 | | | | | | |
| | 2324 | 1.0 | 30 | | | 2231 | 1.0 | 30 | | | | | | | | 2336 | 1.6 | 50 | | | 1952 | 3.9 | 120 | | | | | | | | | | | |
| 6 Th | 0632 | 4.6 | 140 | | 21 F | 0533 | 4.6 | 140 | | 6 Su | 0033 | 1.6 | 50 | | 21 M | 0636 | 4.6 | 140 | | 6 Tu | 0047 | 2.3 | 70 | | 21 W | 0019 | 2.0 | 60 | | | | | | |
| | 1141 | 2.0 | 60 | | | 1104 | 2.0 | 60 | | | 0744 | 4.3 | 130 | | | 1217 | 1.3 | 40 | | | 0730 | 4.3 | 130 | | | 0654 | 4.6 | 140 | | | | | | |
| | 1809 | 4.3 | 130 | | | 1726 | 4.3 | 130 | | | 1315 | 2.0 | 60 | | | 1914 | 4.3 | 130 | | | 1334 | 1.3 | 40 | | | 1258 | 1.0 | 30 | | | | | | |
| | | | | | | 2309 | 1.3 | 40 | | | 2024 | 3.9 | 120 | | | | | | | | 2055 | 3.9 | 120 | | | 2018 | 4.6 | 140 | | | | | | |
| 7 F | 0012 | 1.3 | 40 | | 22 Sa | 0618 | 4.6 | 140 | | 7 M | 0129 | 2.0 | 60 | | 22 Tu | 0032 | 2.0 | 60 | | 7 W | 0141 | 2.6 | 80 | | 22 Th | 0116 | 2.3 | 70 | | | | | | |
| | 0730 | 4.3 | 130 | | | 1145 | 2.0 | 60 | | | 0834 | 4.3 | 130 | | | 0727 | 4.6 | 140 | | | 0817 | 3.9 | 120 | | | 0748 | 4.6 | 140 | | | | | | |
| | 1232 | 2.0 | 60 | | | 1817 | 3.9 | 120 | | | 1420 | 1.6 | 50 | | | 1314 | 1.3 | 40 | | | 1430 | 1.3 | 40 | | | 1356 | 1.0 | 30 | | | | | | |
| | 1916 | 3.9 | 120 | | | 2355 | 1.3 | 40 | | | 2132 | 3.9 | 120 | | | 2033 | 4.3 | 130 | | | 2155 | 4.3 | 130 | | | 2131 | 4.6 | 140 | | | | | | |
| 8 Sa | 0105 | 1.6 | 50 | | 23 Su | 0710 | 4.3 | 130 | | 8 Tu | 0234 | 2.3 | 70 | | 23 W | 0138 | 2.3 | 70 | | 8 Th | 0245 | 2.6 | 80 | | 23 F | 0224 | 2.6 | 80 | | | | | | |
| | 0829 | 4.3 | 130 | | | 1232 | 2.0 | 60 | | | 0926 | 3.9 | 120 | | | 0826 | 4.3 | 130 | | | 0909 | 3.9 | 120 | | | 0851 | 4.3 | 130 | | | | | | |
| | 1337 | 2.0 | 60 | | | 1922 | 3.9 | 120 | | | 1528 | 1.6 | 50 | | | 1419 | 1.0 | 30 | | | 1530 | 1.3 | 40 | | | 1504 | 0.7 | 20 | | | | | | |
| | 2037 | 3.9 | 120 | | | | | | | | 2236 | 4.3 | 130 | | | 2152 | 4.6 | 140 | | | 2252 | 4.3 | 130 | | | 2240 | 4.9 | 150 | | | | | | |
| 9 Su | 0210 | 2.0 | 60 | | 24 M | 0052 | 1.6 | 50 | | 9 W | 0352 | 2.6 | 80 | | 24 Th | 0253 | 2.3 | 70 | | 9 F | 0402 | 3.0 | 90 | | 24 Sa | 0341 | 2.6 | 80 | | | | | | |
| | 0926 | 4.3 | 130 | | | 0808 | 4.3 | 130 | | | 1017 | 3.9 | 120 | | | 0930 | 4.3 | 130 | | | 1004 | 3.9 | 120 | | | 1002 | 4.3 | 130 | | | | | | |
| | 1457 | 2.0 | 60 | | | 1333 | 2.0 | 60 | | | 1628 | 1.6 | 50 | | | 1530 | 1.0 | 30 | | | 1630 | 1.3 | 40 | | | 1617 | 0.7 | 20 | | | | | | |
| | 2153 | 3.9 | 120 | | | 2044 | 4.3 | 130 | | | 2332 | 4.6 | 140 | | | 2300 | 4.9 | 150 | | | 2343 | 4.6 | 140 | | | 2344 | 4.9 | 150 | | | | | | |
| 10 M | 0324 | 2.0 | 60 | | 25 Tu | 0201 | 2.0 | 60 | | 10 Th | 0503 | 2.6 | 80 | | 25 F | 0413 | 2.6 | 80 | | 10 Sa | 0512 | 2.6 | 80 | | 25 Su | 0459 | 2.6 | 80 | | | | | | |
| | 1022 | 4.3 | 130 | | | 0913 | 4.3 | 130 | | | 1105 | 3.9 | 120 | | | 1036 | 4.3 | 130 | | | 1100 | 3.9 | 120 | | | 1114 | 4.3 | 130 | | | | | | |
| | 1613 | 2.0 | 60 | | | 1445 | 1.6 | 50 | | | 1718 | 1.3 | 40 | | | 1641 | 0.7 | 20 | | | 1723 | 1.0 | 30 | | | 1726 | 0.7 | 20 | | | | | | |
| | 2300 | 4.3 | 130 | | | 2208 | 4.3 | 130 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 Tu | 0439 | 2.0 | 60 | | 26 W | 0322 | 2.0 | 60 | | 11 F | 0020 | 4.6 | 140 | | 26 Sa | 0003 | 5.2 | 160 | | 11 Su | 0028 | 4.9 | 150 | | 26 M | 0043 | 5.2 | 160 | | | | | | |
| | 1113 | 4.3 | 130 | | | 1016 | 4.3 | 130 | | | 0557 | 2.3 | 70 | | | 0526 | 2.3 | 70 | | | 0606 | 2.6 | 80 | | | 0607 | 2.3 | 70 | | | | | | |
| | 1713 | 1.6 | 50 | | | 1600 | 1.3 | 40 | | | 1150 | 4.3 | 130 | | | 1140 | 4.6 | 140 | | | 1152 | 3.9 | 120 | | | 1218 | 4.6 | 140 | | | | | | |
| | 2359 | 4.3 | 130 | | | 2319 | 4.9 | 150 | | | 1801 | 1.0 | 30 | | | 1744 | 0.3 | 10 | | | 1809 | 1.0 | 30 | | | 1826 | 0.3 | 10 | | | | | | |
| 12 W | 0541 | 2.0 | 60 | | 27 Th | 0443 | 2.0 | 60 | | 12 Sa | 0100 | 4.9 | 150 | | 27 Su | 0100 | 5.6 | 170 | | 12 M | 0108 | 4.9 | 150 | | 27 Tu | 0137 | 5.2 | 160 | | | | | | |
| | 1159 | 4.3 | 130 | | | 1116 | 4.6 | 140 | | | 0640 | 2.3 | 70 | | | 0626 | 2.0 | 60 | | | 0649 | 2.3 | 70 | | | 0705 | 2.0 | 60 | | | | | | |
| | 1800 | 1.3 | 40 | | | 1708 | 0.7 | 20 | | | 1232 | 4.3 | 130 | | | 1238 | 4.6 | 140 | | | 1241 | 4.3 | 130 | | | 1316 | 4.6 | 140 | | | | | | |
| | | | | | | | | | | | 1841 | 1.0 | 30 | | | 1840 | 0.3 | 10 | | | 1849 | 1.0 | 30 | | | 1919 | 0.3 | 10 | | | | | | |
| 13 Th | 0046 | 4.6 | 140 | | 28 F | 0021 | 5.2 | 160 | | 13 Su | 0135 | 5.2 | 160 | | 28 M | 0152 | 5.6 | 170 | | 13 Tu | 0146 | 5.2 | 160 | | 28 W | 0226 | 5.2 | 160 | | | | | | |
| | 0629 | 2.0 | 60 | | | 0551 | 2.0 | 60 | | | 0716 | 2.0 | 60 | | | 0718 | 2.0 | 60 | | | 0730 | 2.0 | 60 | | | 0759 | 1.6 | 50 | | | | | | |
| | 1237 | 4.3 | 130 | | | 1213 | 4.6 | 140 | | | 1313 | 4.3 | 130 | | | 1332 | 4.9 | 150 | | | 1327 | 4.3 | 130 | | | 1410 | 4.6 | 140 | | | | | | |
| | 1839 | 1.0 | 30 | | | 1806 | 0.3 | 10 | | | 1918 | 0.7 | 20 | | | 1932 | 0.3 | 10 | | | 1928 | 0.7 | 20 | | | 2009 | 0.7 | 20 | | | | | | |
| 14 F | 0127 | 4.9 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Port Adelaide, Australia, 2011

Times and Heights of High and Low Waters

| January | | | | February | | | | March | | | | | | | | | | | | | | | |
|-----------------|--------|--------|-----|-----------------|--------|--------|-----|-----------------|--------|--------|-----|-----------------|--------|--------|-----|-----------------|--------|-----|-----|-----------------|--------|-----|-----|
| Time | | Height | | Time | | Height | | Time | | Height | | Time | | Height | | | | | | | | | |
| | h m | ft | cm | | h m | ft | cm | | h m | ft | cm | | h m | ft | cm | | | | | | | | |
| 1 Sa | 0111 | 6.2 | 190 | 16 Su | 0030 | 5.9 | 180 | 1 Tu | 0409 | 6.9 | 210 | 16 W | 0408 | 6.9 | 210 | 1 Tu | 0401 | 5.2 | 160 | 16 W | 0314 | 5.6 | 170 |
| | 1012 | 2.3 | 70 | | 1000 | 2.6 | 80 | | 1110 | 1.3 | 40 | | 1100 | 0.7 | 20 | | 1059 | 2.3 | 70 | | 1020 | 2.0 | 60 |
| | 1738 | 4.3 | 130 | | 1724 | 4.3 | 130 | | 1727 | 5.6 | 170 | | 1725 | 5.9 | 180 | | 1730 | 5.2 | 160 | | 1700 | 5.6 | 170 |
| | 1954 | 3.9 | 120 | | 2011 | 4.3 | 130 | | 2232 | 3.0 | 90 | | 2235 | 2.6 | 80 | | 2222 | 3.6 | 110 | | 2204 | 3.6 | 110 |
| 2 Su | 0258 | 6.6 | 200 | 17 M | 0301 | 6.6 | 200 | 2 W | 0438 | 7.5 | 230 | 17 Th | 0441 | 7.5 | 230 | 2 W | 0411 | 6.6 | 200 | 17 Th | 0358 | 6.6 | 200 |
| | 1039 | 1.6 | 50 | | 1032 | 1.6 | 50 | | 1124 | 1.0 | 30 | | 1120 | 0.3 | 10 | | 1050 | 1.3 | 40 | | 1033 | 1.0 | 30 |
| | 1708 | 4.6 | 140 | | 1706 | 4.9 | 150 | | 1729 | 5.9 | 180 | | 1735 | 6.2 | 190 | | 1705 | 5.9 | 180 | | 1656 | 6.2 | 190 |
| | 2124 | 3.6 | 110 | | 2138 | 3.6 | 110 | | 2253 | 2.3 | 70 | | 2300 | 2.0 | 60 | | 2234 | 2.6 | 80 | | 2228 | 2.3 | 70 |
| 3 M | 0350 | 7.2 | 220 | 18 Tu | 0357 | 7.2 | 220 | 3 Th | 0501 | 7.9 | 240 | 18 F | 0508 | 8.2 | 250 | 3 Th | 0433 | 7.2 | 220 | 18 F | 0430 | 7.5 | 230 |
| | 1105 | 1.0 | 30 | | 1102 | 1.0 | 30 | | 1136 | 0.7 | 20 | | 1139 | 0.3 | 10 | | 1101 | 1.0 | 30 | | 1052 | 0.7 | 20 |
| | 1715 | 4.9 | 150 | | 1723 | 5.6 | 170 | | 1737 | 6.2 | 190 | | 1745 | 6.6 | 200 | | 1708 | 6.6 | 200 | | 1706 | 6.9 | 210 |
| | 2205 | 3.0 | 90 | | 2220 | 3.0 | 90 | | ● 2312 | 1.6 | 50 | | ○ 2323 | 1.6 | 50 | | 2251 | 2.0 | 60 | | 2252 | 1.6 | 50 |
| 4 Tu | 0425 | 7.9 | 240 | 19 W | 0435 | 7.9 | 240 | 4 F | 0520 | 7.9 | 240 | 19 Sa | 0529 | 8.2 | 250 | 4 F | 0453 | 7.5 | 230 | 19 Sa | 0456 | 7.5 | 230 |
| | 1126 | 1.0 | 30 | | 1129 | 0.3 | 10 | | 1148 | 0.7 | 20 | | 1154 | 0.3 | 10 | | 1112 | 0.7 | 20 | | 1108 | 0.7 | 20 |
| | 1727 | 5.2 | 160 | | 1741 | 5.9 | 180 | | 1749 | 6.6 | 200 | | 1756 | 6.9 | 210 | | 1717 | 6.9 | 210 | | 1715 | 7.2 | 220 |
| | ● 2234 | 2.6 | 80 | | 2251 | 2.3 | 70 | | 2332 | 1.3 | 40 | | 2347 | 1.3 | 40 | | 2308 | 1.3 | 40 | | 2315 | 1.0 | 30 |
| 5 W | 0454 | 8.2 | 250 | 20 Th | 0505 | 8.2 | 250 | 5 Sa | 0539 | 7.9 | 240 | 20 Su | 0550 | 7.9 | 240 | 5 Sa | 0510 | 7.5 | 230 | 20 Su | 0516 | 7.5 | 230 |
| | 1143 | 0.7 | 20 | | 1152 | 0.3 | 10 | | 1202 | 0.7 | 20 | | 1207 | 0.7 | 20 | | 1122 | 0.7 | 20 | | 1120 | 1.0 | 30 |
| | 1739 | 5.9 | 180 | | 1757 | 5.9 | 180 | | 1805 | 6.9 | 210 | | 1810 | 7.2 | 220 | | 1727 | 7.2 | 220 | | 1724 | 7.5 | 230 |
| | 2300 | 2.0 | 60 | | ○ 2319 | 2.0 | 60 | | 2355 | 1.3 | 40 | | ● 2324 | 1.0 | 30 | | 2324 | 1.0 | 30 | | ○ 2336 | 1.0 | 30 |
| 6 Th | 0519 | 8.2 | 250 | 21 F | 0532 | 8.5 | 260 | 6 Su | 0600 | 7.9 | 240 | 21 M | 0614 | 1.0 | 30 | 6 Su | 0526 | 7.5 | 230 | 21 M | 0532 | 7.2 | 220 |
| | 1200 | 0.7 | 20 | | 1214 | 0.3 | 10 | | 1217 | 0.3 | 10 | | 1219 | 0.7 | 20 | | 1133 | 0.7 | 20 | | 1128 | 1.0 | 30 |
| | 1755 | 6.2 | 190 | | 1814 | 6.2 | 190 | | 1826 | 7.2 | 220 | | 1827 | 7.5 | 230 | | 1741 | 7.5 | 230 | | 1737 | 8.2 | 250 |
| | 2327 | 1.6 | 50 | | 2348 | 1.6 | 50 | | ● 2348 | 1.6 | 50 | | ○ 2344 | 1.0 | 30 | | 2344 | 1.0 | 30 | | ○ 2344 | 1.0 | 30 |
| 7 F | 0544 | 8.2 | 250 | 22 Sa | 0559 | 8.2 | 250 | 7 M | 0621 | 1.0 | 30 | 22 Tu | 0640 | 1.0 | 30 | 7 M | 0543 | 7.5 | 230 | 22 Tu | 0600 | 1.0 | 30 |
| | 1219 | 0.7 | 20 | | 1235 | 0.3 | 10 | | 0623 | 7.5 | 230 | | 0627 | 6.9 | 210 | | 1146 | 0.7 | 20 | | 0548 | 6.6 | 200 |
| | 1817 | 6.6 | 200 | | 1833 | 6.6 | 200 | | 1235 | 0.7 | 20 | | 1226 | 1.0 | 30 | | 1759 | 7.9 | 240 | | 1136 | 1.3 | 40 |
| | 2356 | 1.6 | 50 | | 1855 | 6.9 | 210 | | 1848 | 7.5 | 230 | | 1845 | 7.9 | 240 | | 1838 | 8.2 | 250 | | 1754 | 8.2 | 250 |
| 8 Sa | 0610 | 8.2 | 250 | 23 Su | 0619 | 1.3 | 40 | 8 Tu | 0649 | 1.3 | 40 | 23 W | 0702 | 1.3 | 40 | 8 Tu | 0608 | 1.0 | 30 | 23 W | 0624 | 1.0 | 30 |
| | 1239 | 0.7 | 20 | | 0625 | 7.9 | 240 | | 0645 | 7.2 | 220 | | 0640 | 6.2 | 190 | | 0603 | 7.2 | 220 | | 0602 | 6.2 | 190 |
| | 1843 | 6.6 | 200 | | 1252 | 0.7 | 20 | | 1252 | 0.7 | 20 | | 1229 | 1.0 | 30 | | 1202 | 0.7 | 20 | | 1143 | 1.3 | 40 |
| | | | | | 1855 | 6.9 | 210 | | 1910 | 7.5 | 230 | | 1902 | 8.2 | 250 | | 1819 | 8.2 | 250 | | 1813 | 8.5 | 260 |
| 9 Su | 0027 | 1.6 | 50 | 24 M | 0649 | 1.6 | 50 | 9 W | 0715 | 1.3 | 40 | 24 Th | 0719 | 1.6 | 50 | 9 W | 0632 | 1.0 | 30 | 24 Th | 0645 | 1.3 | 40 |
| | 0637 | 7.9 | 240 | | 0647 | 7.2 | 220 | | 0704 | 6.9 | 210 | | 0650 | 5.9 | 180 | | 0623 | 6.9 | 210 | | 0614 | 5.9 | 180 |
| | 1300 | 0.7 | 20 | | 1305 | 1.0 | 30 | | 1307 | 0.7 | 20 | | 1236 | 0.7 | 20 | | 1219 | 1.0 | 30 | | 1151 | 1.0 | 30 |
| | 1910 | 6.9 | 210 | | 1916 | 7.2 | 220 | | 1930 | 7.5 | 230 | | 1921 | 8.2 | 250 | | 1838 | 8.2 | 250 | | 1832 | 8.5 | 260 |
| 10 M | 0059 | 1.6 | 50 | 25 Tu | 0716 | 1.6 | 50 | 10 Th | 0723 | 6.6 | 200 | 25 F | 0702 | 5.6 | 170 | 10 Th | 0655 | 1.0 | 30 | 25 F | 0626 | 5.6 | 170 |
| | 0703 | 7.5 | 230 | | 0706 | 6.9 | 210 | | 1323 | 1.0 | 30 | | 1250 | 0.7 | 20 | | 1232 | 1.0 | 30 | | 1203 | 1.0 | 30 |
| | 1321 | 0.7 | 20 | | 1313 | 1.0 | 30 | | 1952 | 7.5 | 230 | | ○ 1941 | 7.9 | 240 | | 1857 | 8.2 | 250 | | 1851 | 8.2 | 250 |
| | 1937 | 6.9 | 210 | | 1936 | 7.2 | 220 | | | | | | | | | | | | | | | | |
| 11 Tu | 0131 | 2.0 | 60 | 26 W | 0721 | 2.0 | 60 | 11 F | 0802 | 2.0 | 60 | 26 Sa | 0712 | 5.2 | 160 | 11 F | 0716 | 1.3 | 40 | 26 Sa | 0712 | 2.0 | 60 |
| | 0728 | 6.9 | 210 | | 0721 | 6.2 | 190 | | 0744 | 5.9 | 180 | | 0712 | 5.2 | 160 | | 0658 | 6.2 | 190 | | 0641 | 5.6 | 170 |
| | 1342 | 1.0 | 30 | | 1320 | 1.0 | 30 | | 1339 | 1.3 | 40 | | 1306 | 1.0 | 30 | | 1246 | 1.0 | 30 | | 1223 | 1.0 | 30 |
| | 2006 | 7.2 | 220 | | ○ 1958 | 7.5 | 230 | | ○ 2018 | 7.5 | 230 | | 2003 | 7.2 | 220 | | 1916 | 8.2 | 250 | | ○ 1912 | 7.9 | 240 |
| 12 W | 0206 | 2.0 | 60 | 27 Th | 0721 | 2.3 | 70 | 12 Sa | 0803 | 2.3 | 70 | 27 Su | 0707 | 3.3 | 100 | 12 Sa | 0716 | 1.6 | 50 | 27 Su | 0716 | 5.9 | 180 |
| | 0754 | 6.6 | 200 | | 0737 | 5.6 | 170 | | 1351 | 2.0 | 60 | | 1310 | 1.6 | 50 | | 1302 | 1.3 | 40 | | 1245 | 1.3 | 40 |
| | 1403 | 1.3 | 40 | | 1331 | 1.0 | 30 | | 2048 | 6.9 | 210 | | 2014 | 6.2 | 190 | | 1939 | 7.9 | 240 | | 1934 | 7.2 | 220 |
| | ○ 2037 | 6.9 | 210 | | 2026 | 7.2 | 220 | | | | | | | | | | | | | | | | |
| 13 Th | 0247 | 2.6 | 80 | 28 F | 0747 | 4.9 | 150 | 13 Su | 0801 | 4.3 | 130 | 28 M | 0545 | 4.6 | 140 | 13 Su | 0735 | 5.2 | 160 | 28 M | 0709 | 4.9 | 150 |
| | 0822 | 5.9 | 180 | | 1343 | 1.3 | 40 | | 1337 | 2.6 | 80 | | 1216 | 2.3 | 70 | | 1316 | 1.6 | 50 | | 1258 | 2.3 | 70 |
| | 1426 | 1.6 | 50 | | 2058 | 6.9 | 210 | | 2127 | 5.9 | 180 | | 1907 | 5.2 | 160 | | ○ 2004 | 7.2 | 220 | | 1948 | 6.2 | 190 |
| | 2117 | 6.6 | 200 | | | | | | | | | | | | | | | | | | | | |
| 14 F | 0343 | 3.0 | 90 | 29 Sa | 0827 | 3.6 | 110 | 14 M | 1126 | 2.6 | 80 | 15 Tu | 0316 | 5.9 | 180 | 15 Tu | 1120 | 3.0 | 90 | 30 W | 0213 | 3.6 | 110 |
| | 0852 | 4.9 | 150 | | 0723 | 4.3 | 130 | | 1852 | 4.9 | 150 | | 1044 | 1.6 | 50 | | 1825 | 5.2 | 160 | | 0624 | 4.6 | 140 |
| | 1446 | 2.6 | 80 | | 1337 | 2.0 | 60 | | 2110 | 4.9 | 150 | | 1727 | 5.2 | 160 | | 2219 | 4.9 | 150 | | 1207 | 3.3 | 100 |
| | 2213 | 6.2 | 190 | | 2139 | 5.9 | 180 | | | | | | | | | | | | | | | | |
| 15 Sa | 0602 | 3.6 | 110 | 30 Su | 1208 | 2.3 | 70 | 15 Tu | 0316 | 5.9 | 180 | 31 M | 1107 | 2.0 | 60 | 31 Th | 0342 | 5.9 | 180 | | | | |
| | 0923 | 3.6 | 110 | | | | | | | | | | | | | | | | | | | | |
| | 1420 | 3.3 | 100 | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |

Time meridian 142° 30' E. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to the chart datum of soundings.

Port Adelaide, Australia, 2011

Times and Heights of High and Low Waters

| April | | | May | | | June | | | | | | | | | | | | | | | | | | | | |
|-----------------|--------|-----|------|-----------------|------|------|--------|-----------------|------|--------|-----|-----------------|------|-----|-----|-----------------|------|-----|-----|-----------------|------|-----|-----|------|-----|-----|
| Time | Height | | Time | Height | | Time | Height | | Time | Height | | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | | | |
| 1 F | 0406 | 6.9 | 210 | 16 Sa | 0405 | 6.9 | 210 | 1 Su | 0358 | 6.6 | 200 | 16 M | 0413 | 6.2 | 190 | 1 W | 0436 | 6.2 | 190 | 16 Th | 0506 | 5.6 | 170 | | | |
| | 1018 | 1.6 | 50 | | 1007 | 1.6 | 50 | | 0945 | 2.0 | 60 | | 0938 | 2.6 | 80 | | 0956 | 2.6 | 80 | | 1004 | 3.0 | 90 | | | |
| | 1629 | 7.2 | 220 | | 1621 | 7.5 | 230 | | 1602 | 8.2 | 250 | | 1557 | 8.2 | 250 | | 1621 | 8.9 | 270 | | 1637 | 8.9 | 270 | 2307 | 1.3 | 40 |
| | 2231 | 1.6 | 50 | | 2233 | 1.3 | 40 | | 2228 | 1.3 | 40 | | 2246 | 1.3 | 40 | | 2307 | 1.3 | 40 | | 2339 | 1.6 | 50 | | | |
| 2 Sa | 0430 | 7.2 | 220 | 17 Su | 0435 | 6.9 | 210 | 2 M | 0425 | 6.9 | 210 | 17 Tu | 0442 | 5.9 | 180 | 2 Th | 0502 | 6.2 | 190 | 17 F | 0523 | 5.6 | 170 | | | |
| | 1034 | 1.3 | 40 | | 1025 | 1.6 | 50 | | 1006 | 2.0 | 60 | | 0957 | 2.6 | 80 | | 1022 | 2.6 | 80 | | 1032 | 2.6 | 80 | | | |
| | 1643 | 7.5 | 230 | | 1636 | 7.9 | 240 | | 1623 | 8.5 | 260 | | 1620 | 8.5 | 260 | | 1649 | 8.9 | 270 | | 1649 | 8.9 | 270 | 1706 | 8.9 | 270 |
| | 2251 | 1.3 | 40 | | 2259 | 1.0 | 30 | | 2252 | 1.3 | 40 | | 2313 | 1.3 | 40 | | 2335 | 1.3 | 40 | | 2335 | 1.3 | 40 | | | |
| 3 Su | 0449 | 7.2 | 220 | 18 M | 0456 | 6.6 | 200 | 3 Tu | 0447 | 6.6 | 200 | 18 W | 0501 | 5.6 | 170 | 3 F | 0527 | 6.2 | 190 | 18 Sa | 0000 | 1.6 | 50 | | | |
| | 1046 | 1.3 | 40 | | 1037 | 2.0 | 60 | | 1023 | 2.0 | 60 | | 1013 | 2.6 | 80 | | 1050 | 2.3 | 70 | | 0542 | 5.9 | 180 | | | |
| | 1656 | 7.9 | 240 | | 1649 | 8.2 | 250 | | 1642 | 8.5 | 260 | | 1643 | 8.9 | 270 | | 1717 | 9.2 | 280 | | 1103 | 2.6 | 80 | | | |
| | 2309 | 1.0 | 30 | | 2323 | 1.0 | 30 | | 2315 | 1.0 | 30 | | 2339 | 1.3 | 40 | | 2339 | 1.3 | 40 | | 1735 | 8.9 | 270 | | | |
| 4 M | 0506 | 7.2 | 220 | 19 Tu | 0513 | 6.2 | 190 | 4 W | 0508 | 6.6 | 200 | 19 Th | 0518 | 5.6 | 170 | 4 Sa | 0005 | 1.3 | 40 | 19 Su | 0022 | 1.6 | 50 | | | |
| | 1058 | 1.3 | 40 | | 1046 | 2.0 | 60 | | 1042 | 2.0 | 60 | | 1032 | 2.3 | 70 | | 0555 | 6.2 | 190 | | 0607 | 6.2 | 190 | | | |
| | 1711 | 8.2 | 250 | | 1705 | 8.5 | 260 | | 1703 | 8.9 | 270 | | 1709 | 9.2 | 280 | | 1120 | 2.3 | 70 | | 1136 | 2.3 | 70 | | | |
| | 2329 | 1.0 | 30 | | 2347 | 1.0 | 30 | | 2340 | 1.0 | 30 | | 1738 | 8.9 | 270 | | 1748 | 9.2 | 280 | | 1805 | 8.9 | 270 | | | |
| 5 Tu | 0524 | 6.9 | 210 | 20 W | 0527 | 5.9 | 180 | 5 Th | 0531 | 6.6 | 200 | 20 F | 0004 | 1.3 | 40 | 5 Su | 0036 | 1.3 | 40 | 20 M | 0044 | 1.6 | 50 | | | |
| | 1112 | 1.3 | 40 | | 1056 | 2.0 | 60 | | 1103 | 2.0 | 60 | | 0538 | 5.6 | 170 | | 0626 | 6.2 | 190 | | 0636 | 6.6 | 200 | | | |
| | 1729 | 8.5 | 260 | | 1726 | 8.9 | 270 | | 1728 | 8.9 | 270 | | 1057 | 2.3 | 70 | | 1151 | 2.3 | 70 | | 1211 | 2.3 | 70 | | | |
| | 2352 | 1.0 | 30 | | 1749 | 8.9 | 270 | | 1754 | 8.9 | 270 | | 1738 | 8.9 | 270 | | 1819 | 8.9 | 270 | | 1835 | 8.5 | 260 | | | |
| 6 W | 0544 | 6.9 | 210 | 21 Th | 0011 | 1.3 | 40 | 6 F | 0007 | 1.0 | 30 | 21 Sa | 0028 | 1.6 | 50 | 6 M | 0106 | 1.3 | 40 | 21 Tu | 0107 | 1.6 | 50 | | | |
| | 1129 | 1.3 | 40 | | 0543 | 5.9 | 180 | | 0555 | 6.2 | 190 | | 0602 | 5.9 | 180 | | 0657 | 6.2 | 190 | | 0709 | 6.6 | 200 | | | |
| | 1750 | 8.5 | 260 | | 1110 | 1.6 | 50 | | 1127 | 2.0 | 60 | | 1125 | 2.3 | 70 | | 1223 | 2.6 | 80 | | 1247 | 2.3 | 70 | | | |
| | | | | | 1749 | 8.9 | 270 | | 1754 | 8.9 | 270 | | 1807 | 8.9 | 270 | | 1849 | 8.5 | 260 | | 1904 | 8.2 | 250 | | | |
| 7 Th | 0017 | 1.0 | 30 | 22 F | 0033 | 1.6 | 50 | 7 Sa | 0035 | 1.3 | 40 | 22 Su | 0050 | 2.0 | 60 | 7 Tu | 0135 | 1.6 | 50 | 22 W | 0132 | 1.6 | 50 | | | |
| | 0605 | 6.6 | 200 | | 0601 | 5.6 | 170 | | 0621 | 6.2 | 190 | | 0630 | 5.9 | 180 | | 0729 | 6.2 | 190 | | 0744 | 6.9 | 210 | | | |
| | 1147 | 1.3 | 40 | | 1127 | 1.6 | 50 | | 1150 | 2.0 | 60 | | 1157 | 2.3 | 70 | | 1257 | 2.6 | 80 | | 1327 | 2.6 | 80 | | | |
| | 1811 | 8.5 | 260 | | 1813 | 8.9 | 270 | | 1820 | 8.9 | 270 | | 1836 | 8.5 | 260 | | 1920 | 8.2 | 250 | | 1936 | 7.5 | 230 | | | |
| 8 F | 0040 | 1.0 | 30 | 23 Sa | 0050 | 2.0 | 60 | 8 Su | 0102 | 1.3 | 40 | 23 M | 0112 | 2.0 | 60 | 8 W | 0204 | 2.0 | 60 | 23 Th | 0201 | 1.6 | 50 | | | |
| | 0624 | 6.2 | 190 | | 0620 | 5.6 | 170 | | 0645 | 5.9 | 180 | | 0701 | 6.2 | 190 | | 0807 | 6.2 | 190 | | 0824 | 6.9 | 210 | | | |
| | 1204 | 1.3 | 40 | | 1148 | 1.6 | 50 | | 1212 | 2.3 | 70 | | 1231 | 2.3 | 70 | | 1338 | 3.0 | 90 | | 1412 | 3.0 | 90 | | | |
| | 1831 | 8.5 | 260 | | 1837 | 8.5 | 260 | | 1845 | 8.5 | 260 | | 1906 | 7.9 | 240 | | 1956 | 7.5 | 230 | | 2012 | 7.2 | 220 | | | |
| 9 Sa | 0102 | 1.3 | 40 | 24 Su | 0106 | 2.0 | 60 | 9 M | 0129 | 1.6 | 50 | 24 Tu | 0137 | 2.0 | 60 | 9 Th | 0238 | 2.3 | 70 | 24 F | 0234 | 2.0 | 60 | | | |
| | 0643 | 6.2 | 190 | | 0643 | 5.6 | 170 | | 0713 | 5.9 | 180 | | 0739 | 6.2 | 190 | | 0856 | 6.2 | 190 | | 0911 | 6.9 | 210 | | | |
| | 1220 | 1.6 | 50 | | 1215 | 2.0 | 60 | | 1238 | 2.6 | 80 | | 1311 | 2.6 | 80 | | 1436 | 3.6 | 110 | | 1508 | 3.3 | 100 | | | |
| | 1852 | 8.5 | 260 | | 1902 | 7.9 | 240 | | 1914 | 8.2 | 250 | | 1939 | 7.5 | 230 | | 2041 | 6.6 | 200 | | 2055 | 6.2 | 190 | | | |
| 10 Su | 0125 | 1.6 | 50 | 25 M | 0129 | 2.3 | 70 | 10 Tu | 0201 | 2.0 | 60 | 25 W | 0212 | 2.3 | 70 | 10 F | 0321 | 2.6 | 80 | 25 Sa | 0314 | 2.6 | 80 | | | |
| | 0704 | 5.9 | 180 | | 0712 | 5.6 | 170 | | 0749 | 5.6 | 170 | | 0829 | 6.2 | 190 | | 1005 | 6.2 | 190 | | 1011 | 6.9 | 210 | | | |
| | 1238 | 1.6 | 50 | | 1247 | 2.3 | 70 | | 1309 | 3.0 | 90 | | 1402 | 3.3 | 100 | | 1614 | 3.9 | 120 | | 1630 | 3.9 | 120 | | | |
| | 1917 | 8.2 | 250 | | 1931 | 7.2 | 220 | | 1950 | 7.5 | 230 | | 2021 | 6.6 | 200 | | 2152 | 5.6 | 170 | | 2200 | 5.2 | 160 | | | |
| 11 M | 0154 | 2.0 | 60 | 26 Tu | 0201 | 2.6 | 80 | 11 W | 0248 | 2.6 | 80 | 26 Th | 0300 | 2.6 | 80 | 11 Sa | 0425 | 3.3 | 100 | 26 Su | 0409 | 3.3 | 100 | | | |
| | 0730 | 5.2 | 160 | | 0749 | 5.2 | 160 | | 0847 | 5.2 | 160 | | 0943 | 5.9 | 180 | | 1148 | 6.6 | 200 | | 1139 | 6.6 | 200 | | | |
| | 1258 | 2.3 | 70 | | 1320 | 3.0 | 90 | | 1351 | 3.6 | 110 | | 1523 | 3.9 | 120 | | 1916 | 3.9 | 120 | | 1911 | 3.9 | 120 | | | |
| | 1946 | 7.5 | 230 | | 2003 | 6.6 | 200 | | 2041 | 6.2 | 190 | | 2128 | 5.9 | 180 | | 2128 | 5.9 | 180 | | 2128 | 5.9 | 180 | | | |
| 12 Tu | 0235 | 3.0 | 90 | 27 W | 0251 | 3.3 | 100 | 12 Th | 0418 | 3.3 | 100 | 27 F | 0417 | 3.3 | 100 | 12 Su | 0028 | 4.9 | 150 | 27 M | 0023 | 4.9 | 150 | | | |
| | 0757 | 4.6 | 140 | | 0904 | 4.6 | 140 | | 1131 | 4.9 | 150 | | 1146 | 5.9 | 180 | | 0620 | 3.6 | 110 | | 0554 | 3.6 | 110 | | | |
| | 1305 | 3.0 | 90 | | 1346 | 4.3 | 130 | | 1702 | 4.6 | 140 | | 1838 | 4.3 | 130 | | 1335 | 6.9 | 210 | | 1330 | 6.9 | 210 | | | |
| | 2018 | 6.2 | 190 | | 2053 | 5.2 | 160 | | 2320 | 5.2 | 160 | | | | | | 2109 | 3.0 | 90 | | 2107 | 3.0 | 90 | | | |
| 13 W | 0940 | 3.6 | 110 | 28 Th | 0723 | 3.6 | 110 | 13 F | 0706 | 3.3 | 100 | 28 Sa | 0002 | 5.2 | 160 | 13 M | 0305 | 4.9 | 150 | 28 Tu | 0301 | 4.9 | 150 | | | |
| | 1743 | 4.9 | 150 | | 1450 | 5.2 | 160 | | 1409 | 5.9 | 180 | | 0628 | 3.3 | 100 | | 0758 | 3.6 | 110 | | 0758 | 3.6 | 110 | | | |
| | 2103 | 4.9 | 150 | | 2059 | 3.9 | 120 | | 2036 | 3.6 | 110 | | 1337 | 6.6 | 200 | | 1445 | 7.5 | 230 | | 1448 | 7.5 | 230 | | | |
| | | | | | | | | | | | | | 2040 | 3.3 | 100 | | 2204 | 2.3 | 70 | | 2200 | 2.3 | 70 | | | |
| 14 Th | 0202 | 5.2 | 160 | 29 F | 0227 | 5.2 | 160 | 14 Sa | 0224 | 5.6 | 170 | 29 Su | 0217 | 5.2 | 160 | 14 Tu | 0409 | 5.2 | 160 | 29 W | 0404 | 5.6 | 170 | | | |
| | 0914 | 2.6 | 80 | | 0844 | 3.0 | 90 | | 0826 | 3.0 | 90 | | 0801 | 3.3 | 100 | | 0857 | 3.6 | 110 | | 0904 | 3.6 | 110 | | | |
| | 1559 | 5.9 | 180 | | 1512 | 6.6 | 200 | | 1458 | 6.9 | 210 | | 1440 | 7.5 | 230 | | 1533 | 8.2 | 250 | | 1538 | 8.2 | 250 | | | |
| | 2131 | 3.3 | 100 | | 2133 | 3.0 | 90 | | 2133 | 2.3 | 70 | | 2131 | 2.6 | 80 | | 2244 | 1.6 | 50 | | 2237 | 1.6 | 50 | | | |
| 15 F | 0325 | 6.2 | 190 | 30 Sa | 0323 | 6.2 | 190 | 15 Su | 0333 | 5.9 | 180 | 30 M | 0324 | 5.9 | 180 | 15 W | 0444 | 5.2 | 160 | 30 Th | 0441 | 5.9 | 180 | | | |
| | 0943 | 2.0 | 60 | | 0919 | 2.3 | 70 | | 0909 | 2.6 | 80 | | 0853 | 3.0 | 90 | | 0935 | 3.3 | 100 | | 0946 | 3.3 | 100 | | | |
| | 1605 | 6.9 | 210 | | 1539 | 7.5 | 230 | | 1531 | 7.9 | 240 | | 1521 | 8.2 | 250 | | 1608 | 8.5 | 260 | | 1614 | 8.5 | 260 | | | |
| | 2203 | 2.3 | 70 | | 2202 | 2.0 | 60 | | 2213 | 1.6 | 50 | | 2208 | 2.0 | 60 | | 2315 | 1.6 | | | | | | | | |

Port Adelaide, Australia, 2011

Times and Heights of High and Low Waters

| July | | | | August | | | | September | | | | | | | | | | | | | | | | | | | | | |
|-----------------|----------------|--------|------|-----------------|----------------|-----------------|------|-----------------|----------------|--------|-----------------|-----------------|-----------------|--------|------|-----------------|-----------------|------|------|-----------------|-----------------|-----------------|------|-----|-----|----------------|------|-----|-----|
| Time | | Height | | Time | | Height | | Time | | Height | | Time | | Height | | | | | | | | | | | | | | | |
| h | m | ft | cm | h | m | ft | cm | h | m | ft | cm | h | m | ft | cm | | | | | | | | | | | | | | |
| 1 F | 0508 | 5.9 | 180 | 16 Sa | 0528 | 5.9 | 180 | 1 M | 0550 | 6.6 | 200 | 16 Tu | 0541 | 7.2 | 220 | 1 Th | 0602 | 7.5 | 230 | 16 F | 0555 | 8.2 | 250 | | | | | | |
| | 1019 | 3.0 | 90 | | 1045 | 2.6 | 80 | | 1125 | 2.0 | 60 | | 1134 | 1.6 | 50 | | 1216 | 1.3 | 40 | | 1209 | 1.3 | 40 | | | | | | |
| | 1645 | 8.9 | 270 | | 1708 | 8.5 | 260 | | 1739 | 8.9 | 270 | | 1741 | 8.2 | 250 | | 1808 | 7.2 | 220 | | 1804 | 7.2 | 220 | | | | | | |
| | 2336 | 1.3 | 40 | | 2352 | 1.3 | 40 | | | | | | 2358 | 1.0 | 30 | | | | | | 2358 | 1.3 | 40 | | | | | | |
| 2 Sa | 0533 | 6.2 | 190 | 17 Su | 0541 | 6.2 | 190 | 2 Tu | 0014 | 1.0 | 30 | 17 W | 0602 | 7.5 | 230 | 2 F | 0009 | 1.3 | 40 | 17 Sa | 0618 | 7.9 | 240 | | | | | | |
| | 1050 | 2.6 | 80 | | 1112 | 2.3 | 70 | | 0611 | 6.9 | 210 | | 1200 | 1.6 | 50 | | 0624 | 7.9 | 240 | | 1233 | 1.3 | 40 | | | | | | |
| | 1715 | 8.9 | 270 | | 1732 | 8.5 | 260 | | 1157 | 2.0 | 60 | | 1804 | 7.9 | 240 | | 1242 | 1.6 | 50 | | 1823 | 6.9 | 210 | | | | | | |
| 3 Su | 0003 | 1.0 | 30 | 18 M | 0007 | 1.3 | 40 | 3 W | 0035 | 1.0 | 30 | 18 Th | 0016 | 1.0 | 30 | 3 Sa | 0014 | 1.3 | 40 | 18 Su | 0014 | 1.3 | 40 | | | | | | |
| | 0558 | 6.2 | 190 | | 0600 | 6.6 | 200 | | 0635 | 7.2 | 220 | | 0628 | 7.5 | 230 | | 0643 | 7.9 | 240 | | 0638 | 7.9 | 240 | | | | | | |
| | 1122 | 2.3 | 70 | | 1141 | 2.0 | 60 | | 1229 | 2.0 | 60 | | 1229 | 1.6 | 50 | | 1302 | 2.0 | 60 | | 1255 | 1.6 | 50 | | | | | | |
| | 1746 | 8.9 | 270 | | 1757 | 8.5 | 260 | | 1832 | 7.9 | 240 | | 1828 | 7.5 | 230 | | 1834 | 6.2 | 190 | | 1840 | 6.6 | 200 | | | | | | |
| 4 M | 0031 | 1.0 | 30 | 19 Tu | 0026 | 1.3 | 40 | 4 Th | 0052 | 1.3 | 40 | 19 F | 0035 | 1.3 | 40 | 4 Su | 0019 | 1.3 | 40 | 19 M | 0029 | 1.6 | 50 | | | | | | |
| | 0626 | 6.6 | 200 | | 0626 | 6.9 | 210 | | 0659 | 7.2 | 220 | | 0652 | 7.9 | 240 | | 0702 | 7.9 | 240 | | 0657 | 7.9 | 240 | | | | | | |
| | 1158 | 2.3 | 70 | | 1212 | 2.0 | 60 | | 1300 | 2.0 | 60 | | 1257 | 2.0 | 60 | | 1316 | 2.3 | 70 | | 1316 | 2.0 | 60 | | | | | | |
| 5 Tu | 1817 | 8.9 | 270 | 1824 | 8.2 | 250 | 1853 | 7.2 | 220 | 1849 | 7.2 | 220 | 1844 | 5.9 | 180 | 1857 | 6.2 | 190 | | | | | | | | | | | |
| | 5 W | 0059 | 1.3 | 40 | 20 W | 0047 | 1.3 | 40 | 5 F | 0104 | 1.6 | 50 | 20 Sa | 0052 | 1.3 | 40 | 5 M | 0031 | 1.3 | 40 | 20 Tu | 0045 | 1.6 | 50 | | | | | |
| | | 0655 | 6.6 | 200 | | 0655 | 7.2 | 220 | | 0722 | 7.5 | 230 | | 0716 | 7.9 | 240 | | 0723 | 7.5 | 230 | | 0721 | 7.5 | 230 | | | | | |
| | | 1233 | 2.3 | 70 | | 1245 | 2.0 | 60 | | 1328 | 2.3 | 70 | | 1323 | 2.0 | 60 | | 1332 | 3.0 | 90 | | 1342 | 2.3 | 70 | | | | | |
| 1846 | 8.2 | 250 | 1850 | 7.9 | 240 | 1910 | 6.9 | 210 | 1909 | 6.9 | 210 | 1909 | 6.9 | 210 | 1854 | 5.6 | 170 | 1917 | 5.6 | 170 | | | | | | | | | |
| 6 W | 0123 | 1.3 | 40 | 21 Th | 0109 | 1.3 | 40 | 6 Sa | 0111 | 1.6 | 50 | 21 Su | 0109 | 1.3 | 40 | 6 Tu | 0047 | 1.6 | 50 | 21 W | 0103 | 2.0 | 60 | | | | | | |
| | 0725 | 6.9 | 210 | | 0725 | 7.5 | 230 | | 0745 | 7.5 | 230 | | 0739 | 7.5 | 230 | | 0745 | 7.2 | 220 | | 0749 | 7.2 | 220 | | | | | | |
| | 1308 | 2.6 | 80 | | 1318 | 2.3 | 70 | | 1354 | 2.6 | 80 | | 1349 | 2.3 | 70 | | 1352 | 3.3 | 100 | | 1417 | 3.0 | 90 | | | | | | |
| 7 Th | 1914 | 7.9 | 240 | 1917 | 7.5 | 230 | 1925 | 6.2 | 190 | 1925 | 6.2 | 190 | 1928 | 6.6 | 200 | 1850 | 5.2 | 160 | 1933 | 4.9 | 150 | | | | | | | | |
| | 7 F | 0143 | 1.6 | 50 | 22 F | 0131 | 1.3 | 40 | 7 Su | 0122 | 1.6 | 50 | 22 M | 0128 | 1.6 | 50 | 7 W | 0057 | 2.0 | 60 | 22 Th | 0111 | 3.0 | 90 | | | | | |
| | | 0754 | 6.9 | 210 | | 0755 | 7.5 | 230 | | 0812 | 7.5 | 230 | | 0805 | 7.5 | 230 | | 0803 | 6.2 | 190 | | 0822 | 6.2 | 190 | | | | | |
| | | 1345 | 2.6 | 80 | | 1353 | 2.6 | 80 | | 1424 | 3.0 | 90 | | 1421 | 3.0 | 90 | | 1359 | 4.3 | 130 | | 1359 | 4.3 | 130 | | | | | |
| 1941 | 7.2 | 220 | 1943 | 7.2 | 220 | 1939 | 5.6 | 170 | 1939 | 5.6 | 170 | 1949 | 5.9 | 180 | 1742 | 4.9 | 150 | 2329 | 3.3 | 100 | | | | | | | | | |
| 8 F | 0202 | 2.0 | 60 | 23 Sa | 0154 | 1.6 | 50 | 8 M | 0135 | 2.0 | 60 | 23 Tu | 0144 | 2.3 | 70 | 8 Th | 0014 | 3.0 | 90 | 23 F | 1431 | 5.6 | 170 | | | | | | |
| | 0827 | 7.2 | 220 | | 0827 | 7.5 | 230 | | 0844 | 7.2 | 220 | | 0837 | 6.9 | 210 | | 0709 | 5.2 | 160 | | 2146 | 2.6 | 80 | | | | | | |
| | 1427 | 3.0 | 90 | | 1431 | 3.0 | 90 | | 1503 | 3.9 | 120 | | 1506 | 3.6 | 110 | | 1120 | 4.9 | 150 | | 1120 | 4.9 | 150 | | | | | | |
| | 2010 | 6.6 | 200 | | 2011 | 6.6 | 200 | | 1932 | 4.9 | 150 | | 1958 | 4.9 | 150 | | 1549 | 5.6 | 170 | | 1549 | 5.6 | 170 | | | | | | |
| 9 Sa | 0222 | 2.3 | 70 | 24 Su | 0220 | 2.0 | 60 | 9 Tu | 0139 | 2.6 | 80 | 24 W | 0149 | 3.0 | 90 | 9 F | 2244 | 2.6 | 80 | 24 Sa | 0418 | 5.2 | 160 | | | | | | |
| | 0908 | 7.2 | 220 | | 0904 | 7.2 | 220 | | 0928 | 6.6 | 200 | | 0926 | 6.2 | 190 | | 0508 | 5.2 | 160 | | 0921 | 3.6 | 110 | | | | | | |
| | 1521 | 3.6 | 110 | | 1519 | 3.3 | 100 | | 2258 | 2.6 | 80 | | 2343 | 3.3 | 100 | | 1552 | 6.6 | 200 | | 1528 | 6.6 | 200 | | | | | | |
| | 2042 | 5.6 | 170 | | 2042 | 5.6 | 170 | | | | | | | | 2228 | | 2.0 | 60 | 2200 | | 1.6 | 50 | | | | | | | |
| 10 Su | 0244 | 2.6 | 80 | 25 M | 0246 | 2.6 | 80 | 10 W | 0033 | 3.0 | 90 | 25 Th | 1440 | 5.9 | 180 | 10 Sa | 0436 | 5.9 | 180 | 25 Su | 0416 | 6.2 | 190 | | | | | | |
| | 1002 | 6.9 | 210 | | 0953 | 6.9 | 210 | | 1456 | 5.9 | 180 | | 2217 | 2.6 | 80 | | 1008 | 2.6 | 80 | | 0954 | 2.3 | 70 | | | | | | |
| | 1659 | 3.9 | 120 | | 1641 | 3.9 | 120 | | 2258 | 2.6 | 80 | | | | 1613 | | 7.2 | 220 | 1603 | | 7.5 | 230 | | | | | | | |
| | 2114 | 4.6 | 140 | | 2119 | 4.6 | 140 | | | | | | | | 2238 | | 1.3 | 40 | 2222 | | 1.0 | 30 | | | | | | | |
| 11 M | 0258 | 3.3 | 100 | 26 Tu | 0307 | 3.3 | 100 | 11 Th | 0538 | 4.9 | 150 | 26 F | 0451 | 5.2 | 160 | 11 Su | 0439 | 6.6 | 200 | 26 M | 0431 | 6.9 | 210 | | | | | | |
| | 1136 | 6.6 | 200 | | 1127 | 6.6 | 200 | | 0933 | 4.3 | 130 | | 0925 | 3.9 | 120 | | 1028 | 2.0 | 60 | | 1022 | 1.6 | 50 | | | | | | |
| | 2158 | 3.6 | 110 | | 2133 | 3.6 | 110 | | 1552 | 6.9 | 210 | | 1541 | 7.2 | 220 | | 1633 | 7.5 | 230 | | 1631 | 7.9 | 240 | | | | | | |
| 12 Tu | 1420 | 6.9 | 210 | 27 W | 1432 | 6.9 | 210 | 12 F | 0508 | 5.6 | 170 | 27 Sa | 0449 | 5.9 | 180 | 12 M | 0450 | 7.2 | 220 | 27 Tu | 0444 | 7.2 | 220 | | | | | | |
| | 2228 | 2.6 | 80 | | 2211 | 2.6 | 80 | | 1010 | 3.3 | 100 | | 1004 | 3.0 | 90 | | 1045 | 1.3 | 40 | | 1047 | 1.0 | 30 | | | | | | |
| | 13 W | 0504 | 4.9 | | 150 | 28 Th | 0435 | | 5.2 | 160 | 13 Sa | | 0510 | 6.2 | 190 | | 28 Su | 0503 | 6.6 | | 200 | 13 Tu | 0501 | 7.5 | 230 | 28 W | 0456 | 7.5 | 230 |
| | | 0846 | 4.3 | | 130 | | 0905 | | 3.9 | 120 | | | 1034 | 2.6 | 80 | | | 1032 | 2.3 | | 70 | | 1102 | 1.3 | 40 | | 1111 | 1.0 | 30 |
| 1533 | 7.5 | 230 | 1538 | 7.5 | 230 | 1646 | 8.2 | 250 | 1644 | 8.2 | 250 | 1644 | 8.2 | 250 | 1706 | 7.9 | 240 | 1711 | 7.2 | 220 | | | | | | | | | |
| 2256 | 2.0 | 60 | 2242 | 1.6 | 50 | 2321 | 1.3 | 40 | 2313 | 1.0 | 30 | 2313 | 1.0 | 30 | 2310 | 1.0 | 30 | 2306 | 1.3 | 40 | | | | | | | | | |
| 14 Th | 0508 | 5.2 | 160 | 29 F | 0456 | 5.6 | 170 | 14 Su | 0517 | 6.6 | 200 | 29 M | 0515 | 6.9 | 210 | 14 W | 0515 | 7.5 | 230 | 29 Th | 0510 | 7.9 | 240 | | | | | | |
| | 0945 | 3.6 | 110 | | 0955 | 3.3 | 100 | | 1052 | 2.0 | 60 | | 1056 | 1.6 | 50 | | 1121 | 1.0 | 30 | | 1136 | 1.0 | 30 | | | | | | |
| | 1615 | 8.2 | 250 | | 1618 | 8.2 | 250 | | 1704 | 8.2 | 250 | | 1706 | 8.2 | 250 | | 1722 | 7.5 | 230 | | 1728 | 6.9 | 210 | | | | | | |
| | 2320 | 1.6 | 50 | | 2309 | 1.3 | 40 | | 2331 | 1.3 | 40 | | 2329 | 1.0 | 30 | | 2324 | 1.0 | 30 | | 2317 | 1.3 | 40 | | | | | | |
| 15 F | 0518 | 5.6 | 170 | 30 Sa | 0515 | 6.2 | 190 | 15 M | 0527 | 6.9 | 210 | 30 Tu | 0527 | 7.2 | 220 | 15 Th | 0534 | 7.9 | 240 | 30 F | 0529 | 8.2 | 250 | | | | | | |
| | 1019 | 3.0 | 90 | | 1028 | 3.0 | 90 | | 1111 | 1.6 | 50 | | 1120 | 1.3 | 40 | | 1144 | 1.0 | 30 | | 1201 | 1.0 | 30 | | | | | | |
| | 1644 | 8.5 | 260 | | 1648 | 8.5 | 26 | | | | | | | | | | | | | | | | | | | | | | |

Port Adelaide, Australia, 2011

Times and Heights of High and Low Waters

| October | | | | November | | | | December | | | | | | | | | | | | | | | | | | |
|-----------------|------|--------|----------------|-----------------|------|--------|-----|-----------------|------|--------|-----|-----------------|------|--------|-----|-----------------|------|-----|-----|-----------------|------|-----|-----|------|-----|-----|
| Time | | Height | | Time | | Height | | Time | | Height | | Time | | Height | | | | | | | | | | | | |
| | h m | ft | cm | | h m | ft | cm | | h m | ft | cm | | h m | ft | cm | | | | | | | | | | | |
| 1 Sa | 0551 | 8.2 | 250 | 16 Su | 0551 | 8.2 | 250 | 1 Tu | 0618 | 7.9 | 240 | 16 W | 0003 | 2.0 | 60 | 1 Th | 0017 | 2.0 | 60 | 16 F | 0047 | 2.0 | 60 | | | |
| | 1225 | 1.3 | 40 | | 1219 | 1.3 | 40 | | 1249 | 2.0 | 60 | | 0629 | 7.9 | 240 | | 0648 | 7.5 | 230 | | 0702 | 7.5 | 230 | | | |
| | 1758 | 5.9 | 180 | | 1808 | 6.2 | 190 | | 1826 | 5.2 | 160 | | 1309 | 1.3 | 40 | | 1316 | 1.6 | 50 | | 1338 | 1.3 | 40 | 1338 | 1.3 | 40 |
| | 2333 | 1.6 | 50 | | 2348 | 1.6 | 50 | | 2355 | 2.0 | 60 | | 1858 | 5.9 | 180 | | 1918 | 5.9 | 180 | | 1918 | 5.9 | 180 | 1944 | 6.2 | 190 |
| 2 Su | 0611 | 8.2 | 250 | 17 M | 0613 | 8.2 | 250 | 2 W | 0643 | 7.5 | 230 | 17 Th | 0028 | 2.3 | 70 | 2 F | 0055 | 2.3 | 70 | 17 Sa | 0124 | 2.3 | 70 | | | |
| | 1241 | 2.0 | 60 | | 1242 | 1.3 | 40 | | 1306 | 2.3 | 70 | | 0657 | 7.5 | 230 | | 0718 | 6.9 | 210 | | 0733 | 7.2 | 220 | | | |
| | 1809 | 5.6 | 170 | | 1827 | 6.2 | 190 | | 1852 | 5.2 | 160 | | 1337 | 1.6 | 50 | | 1342 | 1.6 | 50 | | 1406 | 1.3 | 40 | | | |
| | 2342 | 1.3 | 40 | | 2348 | 1.6 | 50 | | 2355 | 2.0 | 60 | | 1931 | 5.6 | 170 | | 2001 | 5.9 | 180 | | 2022 | 6.2 | 190 | | | |
| 3 M | 0631 | 7.9 | 240 | 18 Tu | 0005 | 1.6 | 50 | 3 Th | 0027 | 2.3 | 70 | 18 F | 0100 | 2.6 | 80 | 3 Sa | 0142 | 2.6 | 80 | 18 Su | 0211 | 2.6 | 80 | | | |
| | 1251 | 2.3 | 70 | | 0634 | 7.9 | 240 | | 0710 | 6.9 | 210 | | 0730 | 6.9 | 210 | | 0755 | 6.2 | 190 | | 0810 | 6.2 | 190 | | | |
| | 1821 | 5.6 | 170 | | 1304 | 1.6 | 50 | | 1332 | 2.6 | 80 | | 1415 | 2.0 | 60 | | 1420 | 2.0 | 60 | | 1437 | 2.0 | 60 | | | |
| | 2359 | 1.3 | 40 | | 1847 | 5.9 | 180 | | 1928 | 5.2 | 160 | | 2020 | 5.2 | 160 | | 2100 | 5.9 | 180 | | 2114 | 6.2 | 190 | | | |
| 4 Tu | 0650 | 7.5 | 230 | 19 W | 0024 | 2.0 | 60 | 4 F | 0104 | 3.0 | 90 | 19 Sa | 0146 | 3.3 | 100 | 4 Su | 0250 | 3.3 | 100 | 19 M | 0321 | 3.3 | 100 | | | |
| | 1304 | 2.6 | 80 | | 0658 | 7.5 | 230 | | 0742 | 5.9 | 180 | | 0817 | 6.2 | 190 | | 0845 | 5.2 | 160 | | 0859 | 5.2 | 160 | | | |
| | 1835 | 5.6 | 170 | | 1330 | 2.0 | 60 | | 1413 | 3.0 | 90 | | 1516 | 2.6 | 80 | | 1512 | 2.6 | 80 | | 1516 | 2.6 | 80 | | | |
| | | | | | 1912 | 5.6 | 170 | | 2029 | 4.9 | 150 | | 2156 | 4.9 | 150 | | 2235 | 5.6 | 170 | | 2229 | 5.9 | 180 | | | |
| 5 W | 0021 | 1.6 | 50 | 20 Th | 0047 | 2.3 | 70 | 5 Sa | 0149 | 3.9 | 120 | 20 Su | 0339 | 3.9 | 120 | 5 M | 0520 | 3.9 | 120 | 20 Tu | 0543 | 3.6 | 110 | | | |
| | 0713 | 6.9 | 210 | | 0728 | 7.2 | 220 | | 0828 | 4.9 | 150 | | 0955 | 4.9 | 150 | | 1039 | 4.6 | 140 | | 1033 | 4.3 | 130 | | | |
| | 1325 | 3.0 | 90 | | 1408 | 2.6 | 80 | | 1647 | 3.6 | 110 | | 1739 | 3.3 | 100 | | 1657 | 3.3 | 100 | | 1616 | 3.3 | 100 | | | |
| | 1847 | 5.2 | 160 | | 1944 | 4.9 | 150 | | | | | | | | | | | | | | | | | | | |
| 6 Th | 0040 | 2.3 | 70 | 21 F | 0107 | 3.0 | 90 | 6 Su | 0141 | 4.9 | 150 | 21 M | 0059 | 5.2 | 160 | 6 Tu | 0050 | 5.9 | 180 | 21 W | 0036 | 6.2 | 190 | | | |
| | 0730 | 6.2 | 190 | | 0808 | 6.2 | 190 | | 0833 | 3.6 | 110 | | 0749 | 3.3 | 100 | | 0824 | 3.0 | 90 | | 0854 | 2.6 | 80 | | | |
| | 1343 | 3.6 | 110 | | 1538 | 3.6 | 110 | | 1404 | 4.9 | 150 | | 1342 | 4.9 | 150 | | 1402 | 4.6 | 140 | | 1530 | 4.3 | 130 | | | |
| | 1818 | 4.6 | 140 | | | | | | 2013 | 3.0 | 90 | | 1947 | 3.0 | 90 | | 1932 | 3.3 | 100 | | 1930 | 3.6 | 110 | | | |
| 7 F | 0010 | 3.3 | 100 | 22 Sa | 1228 | 4.9 | 150 | 7 M | 0237 | 6.2 | 190 | 22 Tu | 0220 | 6.6 | 200 | 7 W | 0217 | 6.6 | 200 | 22 Th | 0224 | 6.6 | 200 | | | |
| | 0638 | 4.9 | 150 | | 2028 | 3.0 | 90 | | 0912 | 2.6 | 80 | | 0905 | 2.3 | 70 | | 0923 | 2.0 | 60 | | 0959 | 1.6 | 50 | | | |
| | 1145 | 4.6 | 140 | | | | | | 1507 | 5.6 | 170 | | 1514 | 5.6 | 170 | | 1524 | 5.2 | 160 | | 1629 | 4.9 | 150 | | | |
| | 1536 | 4.9 | 150 | | | | | | 2057 | 2.3 | 70 | | 2046 | 2.6 | 80 | | 2043 | 3.0 | 90 | | 2058 | 3.6 | 110 | | | |
| 8 Sa | 0411 | 5.2 | 160 | 23 Su | 0312 | 5.2 | 160 | 8 Tu | 0312 | 7.2 | 220 | 23 W | 0306 | 7.2 | 220 | 8 Th | 0308 | 7.5 | 230 | 23 F | 0325 | 7.2 | 220 | | | |
| | 0929 | 3.6 | 110 | | 0850 | 3.3 | 100 | | 0944 | 1.6 | 50 | | 0952 | 1.3 | 40 | | 1002 | 1.3 | 40 | | 1042 | 1.0 | 30 | | | |
| | 1523 | 5.9 | 180 | | 1453 | 5.9 | 180 | | 1544 | 6.2 | 190 | | 1603 | 5.9 | 180 | | 1606 | 5.6 | 170 | | 1703 | 4.9 | 150 | | | |
| | 2139 | 2.3 | 70 | | 2108 | 2.0 | 60 | | 2128 | 2.0 | 60 | | 2125 | 2.6 | 80 | | 2125 | 2.6 | 80 | | 2145 | 3.3 | 100 | | | |
| 9 Su | 0346 | 6.2 | 190 | 24 M | 0326 | 6.6 | 200 | 9 W | 0340 | 7.9 | 240 | 24 Th | 0340 | 7.9 | 240 | 9 F | 0345 | 7.9 | 240 | 24 Sa | 0406 | 7.9 | 240 | | | |
| | 0945 | 2.3 | 70 | | 0931 | 2.0 | 60 | | 1012 | 1.0 | 30 | | 1030 | 0.7 | 20 | | 1034 | 1.0 | 30 | | 1115 | 0.7 | 20 | | | |
| | 1546 | 6.6 | 200 | | 1539 | 6.6 | 200 | | 1613 | 6.6 | 200 | | 1638 | 5.9 | 180 | | 1638 | 5.9 | 180 | | 1724 | 5.2 | 160 | | | |
| | 2154 | 1.6 | 50 | | 2139 | 1.6 | 50 | | 2152 | 2.0 | 60 | | 2151 | 2.6 | 80 | | 2156 | 2.3 | 70 | | 2216 | 3.0 | 90 | | | |
| 10 M | 0359 | 6.9 | 210 | 25 Tu | 0350 | 7.2 | 220 | 10 Th | 0404 | 8.2 | 250 | 25 F | 0407 | 8.2 | 250 | 10 Sa | 0415 | 8.2 | 250 | 25 Su | 0437 | 8.2 | 250 | | | |
| | 1008 | 1.6 | 50 | | 1006 | 1.3 | 40 | | 1037 | 0.7 | 20 | | 1103 | 0.7 | 20 | | 1101 | 0.7 | 20 | | 1140 | 0.7 | 20 | | | |
| | 1610 | 7.2 | 220 | | 1613 | 6.9 | 210 | | 1637 | 6.6 | 200 | | 1703 | 5.6 | 170 | | 1703 | 5.9 | 180 | | 1737 | 5.2 | 160 | | | |
| | 2211 | 1.3 | 40 | | 2203 | 1.6 | 50 | | 2211 | 1.6 | 50 | | 2211 | 2.3 | 70 | | 2222 | 2.3 | 70 | | 2241 | 2.6 | 80 | | | |
| 11 Tu | 0416 | 7.5 | 230 | 26 W | 0410 | 7.9 | 240 | 11 F | 0426 | 8.2 | 250 | 26 Sa | 0432 | 8.5 | 260 | 11 Su | 0442 | 8.2 | 250 | 26 M | 0504 | 8.2 | 250 | | | |
| | 1029 | 1.0 | 30 | | 1036 | 0.7 | 20 | | 1101 | 0.7 | 20 | | 1130 | 0.7 | 20 | | 1127 | 0.7 | 20 | | 1159 | 1.0 | 30 | | | |
| | 1631 | 7.2 | 220 | | 1640 | 6.6 | 200 | | 1658 | 6.6 | 200 | | 1720 | 5.2 | 160 | | 1725 | 5.9 | 180 | | 1748 | 5.6 | 170 | | | |
| | 2225 | 1.3 | 40 | | 2220 | 1.6 | 50 | | 2230 | 1.6 | 50 | | 2230 | 2.3 | 70 | | 2247 | 2.0 | 60 | | 2306 | 2.0 | 60 | | | |
| 12 W | 0432 | 7.9 | 240 | 27 Th | 0427 | 8.2 | 250 | 12 Sa | 0449 | 8.5 | 260 | 27 Su | 0458 | 8.5 | 260 | 12 M | 0508 | 8.5 | 260 | 27 Tu | 0529 | 8.2 | 250 | | | |
| | 1049 | 1.0 | 30 | | 1103 | 0.7 | 20 | | 1124 | 0.7 | 20 | | 1155 | 1.0 | 30 | | 1152 | 0.7 | 20 | | 1216 | 1.0 | 30 | | | |
| | 1649 | 7.2 | 220 | | 1700 | 6.2 | 190 | | 1720 | 6.2 | 190 | | 1737 | 5.2 | 160 | | 1748 | 6.2 | 190 | | 1805 | 5.9 | 180 | | | |
| | 2238 | 1.3 | 40 | | 2232 | 2.0 | 60 | | 2252 | 1.6 | 50 | | 2252 | 2.0 | 60 | | 2315 | 2.0 | 60 | | 2334 | 2.0 | 60 | | | |
| 13 Th | 0448 | 8.2 | 250 | 28 F | 0444 | 8.5 | 260 | 13 Su | 0513 | 8.5 | 260 | 28 M | 0525 | 8.5 | 260 | 13 Tu | 0536 | 8.5 | 260 | 28 W | 0555 | 8.2 | 250 | | | |
| | 1108 | 0.7 | 20 | | 1128 | 0.7 | 20 | | 1150 | 0.7 | 20 | | 1218 | 1.0 | 30 | | 1219 | 0.7 | 20 | | 1233 | 1.0 | 30 | | | |
| | 1706 | 7.2 | 220 | | 1716 | 5.9 | 180 | | 1743 | 6.2 | 190 | | 1756 | 5.2 | 160 | | 1814 | 6.2 | 190 | | 1826 | 6.2 | 190 | | | |
| | 2253 | 1.3 | 40 | | 2244 | 2.0 | 60 | | 2315 | 1.6 | 50 | | 2317 | 2.0 | 60 | | 2345 | 2.0 | 60 | | | | | | | |
| 14 F | 0507 | 8.2 | 250 | 29 Sa | 0506 | 8.5 | 260 | 14 M | 0539 | 8.5 | 260 | 29 Tu | 0553 | 8.2 | 250 | 14 W | 0605 | 8.2 | 250 | 29 Th | 0005 | 1.6 | 50 | | | |
| | 1131 | 0.7 | 20 | | 1153 | 1.0 | 30 | | 1217 | 1.0 | 30 | | 1238 | 1.3 | 40 | | 1246 | 0.7 | 20 | | 0621 | 7.9 | 240 | | | |
| | 1727 | 6.9 | 210 | | 1732 | 5.6 | 170 | | 1807 | 6.2 | 190 | | 1819 | 5.6 | 170 | | 1843 | 6.2 | 190 | | 1251 | 1.0 | 30 | | | |
| | 2311 | 1.3 | 40 | | 2257 | 1.6 | 50 | | 2339 | 2.0 | 60 | | 2346 | 2.0 | 60 | | | | | | 1852 | 6.6 | 200 | | | |
| 15 Sa | 0529 | 8.2 | 250 | 30 Su | 0530 | 8.5 | 260 | 15 Tu | 0604 | 8.2 | 250 | 30 W | 0620 | 7.9 | 240 | 15 Th | 0015 | 2.0 | 60 | 30 F | 0037 | 1.6 | 50 | | | |
| | 1155 | 1.0 | 30 | | 1217 | 1.3 | 40 | | 1243 | 1.0 | 30 | | 1255 | 1.6 | 50 | | 0633 | 7.9 | 240 | | 0648 | 7.5 | 230 | | | |
| | 1748 | 6.6 | 200 | | 1749 | 5.6 | 170 | | 1832 | 5.9 | 180 | | 1845 | 5.9 | 180 | | 1313 | 1.0 | 30 | | 1310 | 1.0 | 30 | | | |
| | 2330 | 1.3 | 40 | | 2312 | 1.6 | 50 | | | | | | | | | | 1911 | 6.2 | 190 | | 1923 | 6.9 | 210 | | | |
| | | | 31 M | | | | | | | | | | | | | | | | | | | | | | | |

Port Lincoln, Australia, 2011

Times and Heights of High and Low Waters

| April | | | | May | | | | June | | | | | | | | | | | | | | | | | | |
|-----------------|--------|-----|------|-----------------|------|------|--------|-----------------|------|--------|-----|-----------------|--------|-----|-----|-----------------|------|-----|-----|-----------------|------|-----|-----|------|-----|-----|
| Time | Height | | Time | Height | | Time | Height | | Time | Height | | Time | Height | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | | | |
| 1 F | 0105 | 3.9 | 120 | 16 Sa | 0107 | 3.9 | 120 | 1 Su | 0105 | 3.6 | 110 | 16 M | 0131 | 3.0 | 90 | 1 W | 0159 | 3.0 | 90 | 16 Th | 0245 | 2.6 | 80 | | | |
| | 0726 | 1.0 | 30 | | 0722 | 1.3 | 40 | | 0652 | 1.6 | 50 | | 0623 | 2.0 | 60 | | 0643 | 2.0 | 60 | | 0621 | 2.0 | 60 | | | |
| | 1338 | 3.9 | 120 | | 1332 | 4.3 | 130 | | 1313 | 4.9 | 150 | | 1313 | 5.2 | 160 | | 1333 | 5.6 | 170 | | 1333 | 5.6 | 170 | 1354 | 5.9 | 180 |
| | 1937 | 1.3 | 40 | | 1946 | 1.3 | 40 | | 1948 | 1.3 | 40 | | 2016 | 1.3 | 40 | | 2038 | 1.3 | 40 | | 2038 | 1.3 | 40 | 2119 | 1.3 | 40 |
| 2 Sa | 0132 | 3.9 | 120 | 17 Su | 0144 | 3.9 | 120 | 2 M | 0137 | 3.6 | 110 | 17 Tu | 0206 | 3.0 | 90 | 2 Th | 0229 | 3.0 | 90 | 17 F | 0303 | 2.6 | 80 | | | |
| | 0743 | 1.0 | 30 | | 0739 | 1.3 | 40 | | 0714 | 1.3 | 40 | | 0640 | 1.6 | 50 | | 0713 | 1.6 | 50 | | 0705 | 1.6 | 50 | | | |
| | 1351 | 4.3 | 130 | | 1349 | 4.9 | 150 | | 1335 | 5.2 | 160 | | 1338 | 5.6 | 170 | | 1403 | 5.9 | 180 | | 1422 | 5.9 | 180 | 1422 | 5.9 | 180 |
| | 2002 | 1.0 | 30 | | 2018 | 1.0 | 30 | | 2015 | 1.0 | 30 | | 2047 | 1.3 | 40 | | 2108 | 1.3 | 40 | | 2108 | 1.3 | 40 | 2139 | 1.6 | 50 |
| 3 Su | 0158 | 4.3 | 130 | 18 M | 0214 | 3.6 | 110 | 3 Tu | 0206 | 3.6 | 110 | 18 W | 0232 | 2.6 | 80 | 3 F | 0258 | 3.0 | 90 | 18 Sa | 0314 | 2.6 | 80 | | | |
| | 0802 | 1.0 | 30 | | 0751 | 1.3 | 40 | | 0735 | 1.3 | 40 | | 0657 | 1.6 | 50 | | 0742 | 1.6 | 50 | | 0747 | 1.6 | 50 | | | |
| | 1409 | 4.6 | 140 | | 1408 | 5.2 | 160 | | 1358 | 5.6 | 170 | | 1402 | 5.9 | 180 | | 1432 | 5.9 | 180 | | 1432 | 5.9 | 180 | 1450 | 5.6 | 170 |
| | 2028 | 0.7 | 20 | | 2048 | 0.7 | 20 | | 2042 | 1.0 | 30 | | 2115 | 1.3 | 40 | | 2139 | 1.3 | 40 | | 2139 | 1.3 | 40 | 2159 | 1.6 | 50 |
| 4 M | 0222 | 4.3 | 130 | 19 Tu | 0237 | 3.3 | 100 | 4 W | 0232 | 3.6 | 110 | 19 Th | 0246 | 2.6 | 80 | 4 Sa | 0324 | 3.0 | 90 | 19 Su | 0328 | 3.0 | 90 | | | |
| | 0820 | 0.7 | 20 | | 0800 | 1.0 | 30 | | 0754 | 1.3 | 40 | | 0715 | 1.3 | 40 | | 0809 | 1.6 | 50 | | 0826 | 1.6 | 50 | | | |
| | 1429 | 4.9 | 150 | | 1427 | 5.6 | 170 | | 1422 | 5.6 | 170 | | 1427 | 5.9 | 180 | | 1501 | 5.9 | 180 | | 1517 | 5.6 | 170 | | | |
| | 2054 | 0.7 | 20 | | 2117 | 1.0 | 30 | | 2109 | 1.0 | 30 | | 2141 | 1.3 | 40 | | 2209 | 1.3 | 40 | | 2218 | 1.6 | 50 | | | |
| 5 Tu | 0246 | 3.9 | 120 | 20 W | 0250 | 3.0 | 90 | 5 Th | 0255 | 3.3 | 100 | 20 F | 0252 | 2.6 | 80 | 5 Su | 0350 | 3.0 | 90 | 20 M | 0352 | 3.3 | 100 | | | |
| | 0836 | 0.7 | 20 | | 0803 | 1.0 | 30 | | 0811 | 1.3 | 40 | | 0739 | 1.3 | 40 | | 0836 | 1.6 | 50 | | 0905 | 1.6 | 50 | | | |
| | 1449 | 5.2 | 160 | | 1446 | 5.6 | 170 | | 1446 | 5.9 | 180 | | 1453 | 5.9 | 180 | | 1531 | 5.9 | 180 | | 1545 | 5.2 | 160 | | | |
| | 2119 | 0.7 | 20 | | 2143 | 1.3 | 40 | | 2136 | 1.0 | 30 | | 2204 | 1.6 | 50 | | 2239 | 1.6 | 50 | | 2237 | 1.6 | 50 | | | |
| 6 W | 0308 | 3.6 | 110 | 21 Th | 0255 | 2.6 | 80 | 6 F | 0317 | 3.3 | 100 | 21 Sa | 0306 | 2.6 | 80 | 6 M | 0416 | 3.0 | 90 | 21 Tu | 0423 | 3.3 | 100 | | | |
| | 0851 | 0.7 | 20 | | 0808 | 1.0 | 30 | | 0827 | 1.3 | 40 | | 0808 | 1.3 | 40 | | 0904 | 1.6 | 50 | | 0945 | 2.0 | 60 | | | |
| | 1509 | 5.2 | 160 | | 1508 | 5.6 | 170 | | 1510 | 5.9 | 180 | | 1520 | 5.6 | 170 | | 1600 | 5.2 | 160 | | 1613 | 4.9 | 150 | | | |
| | 2144 | 1.0 | 30 | | 2206 | 1.6 | 50 | | 2204 | 1.3 | 40 | | 2225 | 2.0 | 60 | | 2310 | 1.6 | 50 | | 2259 | 1.6 | 50 | | | |
| 7 Th | 0327 | 3.6 | 110 | 22 F | 0305 | 2.6 | 80 | 7 Sa | 0336 | 3.0 | 90 | 22 Su | 0332 | 3.0 | 90 | 7 Tu | 0446 | 3.0 | 90 | 22 W | 0459 | 3.6 | 110 | | | |
| | 0902 | 0.7 | 20 | | 0822 | 0.7 | 20 | | 0843 | 1.3 | 40 | | 0840 | 1.3 | 40 | | 0931 | 2.0 | 60 | | 1025 | 2.3 | 70 | | | |
| | 1531 | 5.2 | 160 | | 1533 | 5.6 | 170 | | 1536 | 5.6 | 170 | | 1549 | 5.2 | 160 | | 1630 | 4.9 | 150 | | 1639 | 4.6 | 140 | | | |
| | 2209 | 1.0 | 30 | | 2227 | 2.0 | 60 | | 2234 | 1.6 | 50 | | 2248 | 2.0 | 60 | | 2342 | 2.0 | 60 | | 2324 | 1.6 | 50 | | | |
| 8 F | 0343 | 3.3 | 100 | 23 Sa | 0319 | 2.6 | 80 | 8 Su | 0356 | 3.0 | 90 | 23 M | 0406 | 3.0 | 90 | 8 W | 0524 | 3.0 | 90 | 23 Th | 0541 | 3.6 | 110 | | | |
| | 0912 | 0.7 | 20 | | 0843 | 1.0 | 30 | | 0858 | 1.3 | 40 | | 0910 | 1.6 | 50 | | 1005 | 2.3 | 70 | | 1110 | 2.6 | 80 | | | |
| | 1552 | 5.2 | 160 | | 1559 | 5.2 | 160 | | 1602 | 5.2 | 160 | | 1618 | 4.9 | 150 | | 1659 | 4.6 | 140 | | 1701 | 3.9 | 120 | | | |
| | 2235 | 1.3 | 40 | | 2249 | 2.0 | 60 | | 2309 | 2.0 | 60 | | 2316 | 2.0 | 60 | | 2316 | 2.0 | 60 | | 2351 | 2.0 | 60 | | | |
| 9 Sa | 0356 | 3.0 | 90 | 24 Su | 0329 | 2.6 | 80 | 9 M | 0416 | 2.6 | 80 | 24 Tu | 0451 | 3.0 | 90 | 9 Th | 0015 | 2.0 | 60 | 24 F | 0634 | 3.6 | 110 | | | |
| | 0921 | 1.0 | 30 | | 0902 | 1.0 | 30 | | 0910 | 1.6 | 50 | | 0936 | 2.0 | 60 | | 0629 | 3.0 | 90 | | 1206 | 3.0 | 90 | | | |
| | 1616 | 4.9 | 150 | | 1626 | 4.6 | 140 | | 1631 | 4.9 | 150 | | 1646 | 4.3 | 130 | | 1103 | 3.0 | 90 | | 1712 | 3.6 | 110 | | | |
| | 2304 | 1.6 | 50 | | 2317 | 2.3 | 70 | | 2355 | 2.0 | 60 | | 2353 | 2.3 | 70 | | 1729 | 3.9 | 120 | | 1712 | 3.6 | 110 | | | |
| 10 Su | 0402 | 2.6 | 80 | 25 M | 0158 | 2.6 | 80 | 10 Tu | 0443 | 2.3 | 70 | 25 W | 0555 | 3.0 | 90 | 10 F | 0052 | 2.3 | 70 | 25 Sa | 0018 | 2.0 | 60 | | | |
| | 0926 | 1.0 | 30 | | 0912 | 1.6 | 50 | | 0916 | 2.0 | 60 | | 0946 | 2.6 | 80 | | 0935 | 3.3 | 100 | | 0835 | 3.6 | 110 | | | |
| | 1641 | 4.6 | 140 | | 1651 | 4.3 | 130 | | 1703 | 4.6 | 140 | | 1710 | 3.9 | 120 | | 1710 | 3.9 | 120 | | 1712 | 3.6 | 110 | | | |
| | 2343 | 2.3 | 70 | | 2317 | 2.3 | 70 | | 2355 | 2.0 | 60 | | 2353 | 2.3 | 70 | | 1729 | 3.9 | 120 | | 1712 | 3.6 | 110 | | | |
| 11 M | 0215 | 2.3 | 70 | 26 Tu | 0909 | 2.0 | 60 | 11 W | 0642 | 2.3 | 70 | 26 Th | 0045 | 2.3 | 70 | 11 Sa | 0141 | 2.3 | 70 | 26 Su | 0049 | 2.3 | 70 | | | |
| | 0924 | 1.3 | 40 | | 1710 | 3.6 | 110 | | 1743 | 3.9 | 120 | | 0827 | 3.0 | 90 | | 1052 | 3.9 | 120 | | 1039 | 4.3 | 130 | | | |
| | 1709 | 4.3 | 130 | | 2133 | 3.3 | 100 | | 2130 | 3.3 | 100 | | 1713 | 3.3 | 100 | | 1713 | 3.3 | 100 | | 1713 | 3.3 | 100 | | | |
| | 0816 | 1.6 | 50 | | 0607 | 2.3 | 70 | | 0444 | 2.0 | 60 | | 0230 | 2.3 | 70 | | 0045 | 2.3 | 70 | | 0049 | 2.3 | 70 | | | |
| 12 Tu | 1743 | 3.6 | 110 | 27 W | 1654 | 3.0 | 90 | 12 Th | 1309 | 3.0 | 90 | 27 F | 1131 | 3.6 | 110 | 12 Su | 0253 | 2.3 | 70 | 27 M | 0143 | 2.3 | 70 | | | |
| | 0659 | 1.6 | 50 | | 1850 | 3.0 | 90 | | 1524 | 3.0 | 90 | | 1131 | 3.6 | 110 | | 1135 | 4.6 | 140 | | 1127 | 4.6 | 140 | | | |
| | 1436 | 3.0 | 90 | | 2133 | 3.3 | 100 | | 2130 | 3.3 | 100 | | 2130 | 3.3 | 100 | | 1932 | 2.0 | 60 | | 1953 | 2.3 | 70 | | | |
| | 1517 | 3.0 | 90 | | 2133 | 3.3 | 100 | | 2130 | 3.3 | 100 | | 2130 | 3.3 | 100 | | 1932 | 2.0 | 60 | | 1953 | 2.3 | 70 | | | |
| 13 W | 2309 | 3.6 | 110 | 28 Th | 0551 | 2.0 | 60 | 13 F | 0520 | 2.0 | 60 | 28 Sa | 0357 | 2.3 | 70 | 13 M | 0106 | 2.6 | 80 | 28 Tu | 0113 | 2.6 | 80 | | | |
| | 0649 | 1.3 | 40 | | 1244 | 3.3 | 100 | | 1214 | 3.6 | 110 | | 1148 | 4.3 | 130 | | 0354 | 2.3 | 70 | | 0404 | 2.3 | 70 | | | |
| | 1320 | 3.3 | 100 | | 1840 | 2.6 | 80 | | 1825 | 2.6 | 80 | | 1852 | 2.6 | 80 | | 1213 | 4.9 | 150 | | 1207 | 4.9 | 150 | | | |
| | 1834 | 2.3 | 70 | | 2344 | 3.3 | 100 | | 2346 | 3.3 | 100 | | 2351 | 3.0 | 90 | | 2003 | 1.6 | 50 | | 1956 | 2.0 | 60 | | | |
| 14 Th | 0649 | 1.3 | 40 | 29 F | 0607 | 2.0 | 60 | 14 Sa | 0548 | 2.0 | 60 | 29 Su | 0448 | 2.3 | 70 | 14 Tu | 0151 | 2.6 | 80 | 29 W | 0144 | 2.6 | 80 | | | |
| | 1320 | 3.3 | 100 | | 1244 | 3.9 | 120 | | 1226 | 4.3 | 130 | | 1210 | 4.6 | 140 | | 0447 | 2.3 | 70 | | 0510 | 2.3 | 70 | | | |
| | 1834 | 2.3 | 70 | | 1858 | 2.0 | 60 | | 1906 | 2.0 | 60 | | 1915 | 2.0 | 60 | | 1249 | 5.6 | 170 | | 1245 | 5.2 | 160 | | | |
| | 0021 | 3.9 | 120 | | 0030 | 3.3 | 100 | | 0047 | 3.3 | 100 | | 0046 | 3.0 | 90 | | 2033 | 1.6 | 50 | | 2017 | 1.6 | 50 | | | |
| 15 F | 0704 | 1.3 | 40 | 30 Sa | 0628 | 1.6 | 50 | 15 Su | 0607 | 2.0 | 60 | 30 M | 0531 | 2.0 | 60 | 15 W | 0222 | 2.6 | 80 | 30 Th | 0213 | 3.0 | 90 | | | |
| | 1318 | 3.6 | 110 | | 1256 | 4.3 | 130 | | 1249 | 4.9 | 150 | | 1236 | 4.9 | 150 | | 1323 | 5.6 | 170 | | 1322 | 5.6 | 170 | | | |
| | 1911 | 1.6 | 50 | | 1922 | 1.6 | 50 | | 1942 | 1.3 | 40 | | 1941 | 1.6 | 50 | | 2058 | 1.3 | 40 | | 2043 | 1.3 | 40 | | | |
| | 0021 | 3. | | | | | | | | | | | | | | | | | | | | | | | | |

Port Lincoln, Australia, 2011

Times and Heights of High and Low Waters

| July | | | | August | | | | September | | | | | | | | | | | | | | | | | | | | | |
|-----------------|-----------------|--------|-----|-----------------|-----------------|----------------|------|----------------|------|-----------------|-----------------|-----------------|------|--------|-----------------|-----------------|-----------------|------|------|-----------------|-----------------|-----------------|------|-----|----------------|-----------------|------|-----|-----|
| Time | | Height | | Time | | Height | | Time | | Height | | Time | | Height | | | | | | | | | | | | | | | |
| h | m | ft | cm | h | m | ft | cm | h | m | ft | cm | h | m | ft | cm | | | | | | | | | | | | | | |
| 1 F | 0241 | 3.0 | 90 | 16 Sa | 0259 | 3.0 | 90 | 1 M | 0321 | 3.3 | 100 | 16 Tu | 0305 | 3.9 | 120 | 1 Th | 0324 | 4.6 | 140 | | | | | | | | | | |
| | 0654 | 2.0 | 60 | | 0749 | 1.6 | 50 | | 0846 | 1.3 | 40 | | 0903 | 1.0 | 30 | | 0945 | 1.0 | 30 | 16 F | 0941 | 1.0 | 30 | | | | | | |
| | 1358 | 5.9 | 180 | | 1427 | 5.6 | 170 | | 1504 | 5.6 | 170 | | 1504 | 4.9 | 150 | | 1528 | 3.9 | 120 | | 1529 | 3.9 | 120 | | | | | | |
| | 2112 | 1.3 | 40 | | 2123 | 1.3 | 40 | | 2145 | 1.0 | 30 | | 2127 | 1.0 | 30 | | 2128 | 1.0 | 30 | | 2119 | 0.7 | 20 | | | | | | |
| 2 Sa | 0308 | 3.0 | 90 | 17 Su | 0312 | 3.3 | 100 | 2 Tu | 0340 | 3.6 | 110 | 17 W | 0324 | 4.3 | 130 | 2 F | 0341 | 4.6 | 140 | | 17 Sa | 0338 | 4.9 | 150 | | | | | |
| | 0742 | 1.6 | 50 | | 0829 | 1.6 | 50 | | 0919 | 1.3 | 40 | | 0929 | 1.0 | 30 | | 1011 | 1.3 | 40 | 1005 | | 1.0 | 30 | | | | | | |
| | 1432 | 5.9 | 180 | | 1451 | 5.6 | 170 | | 1528 | 5.2 | 160 | | 1526 | 4.9 | 150 | | 1538 | 3.6 | 110 | 1546 | | 3.6 | 110 | | | | | | |
| | 2140 | 1.3 | 40 | | 2140 | 1.3 | 40 | | 2202 | 1.0 | 30 | | 2142 | 1.0 | 30 | | 2124 | 1.0 | 30 | 2128 | | 1.0 | 30 | | | | | | |
| 3 Su | 0333 | 3.0 | 90 | 18 M | 0327 | 3.6 | 110 | 3 W | 0357 | 3.9 | 120 | 18 Th | 0346 | 4.6 | 140 | 3 Sa | 0401 | 4.9 | 150 | 18 Su | 0359 | 4.9 | 150 | | | | | | |
| | 0824 | 1.6 | 50 | | 0901 | 1.6 | 50 | | 0951 | 1.3 | 40 | | 0954 | 1.3 | 40 | | 1035 | 1.6 | 50 | | 1029 | 1.3 | 40 | | | | | | |
| | 1504 | 5.9 | 180 | | 1515 | 5.2 | 160 | | 1549 | 4.9 | 150 | | 1547 | 4.6 | 140 | | 1541 | 3.0 | 90 | | 1559 | 3.3 | 100 | | | | | | |
| | 2206 | 1.3 | 40 | | 2157 | 1.3 | 40 | | 2214 | 1.0 | 30 | | 2157 | 1.0 | 30 | | 2121 | 0.7 | 20 | | 2135 | 1.0 | 30 | | | | | | |
| 4 M | 0357 | 3.3 | 100 | 19 Tu | 0347 | 3.6 | 110 | 4 Th | 0414 | 4.3 | 130 | 19 F | 0409 | 4.6 | 140 | 4 Su | 0425 | 4.6 | 140 | 19 M | 0421 | 4.6 | 140 | | | | | | |
| | 0902 | 1.6 | 50 | | 0931 | 1.6 | 50 | | 1021 | 1.6 | 50 | | 1021 | 1.3 | 40 | | 1057 | 2.3 | 70 | | 1055 | 1.6 | 50 | | | | | | |
| | 1533 | 5.6 | 170 | | 1539 | 5.2 | 160 | | 1604 | 4.3 | 130 | | 1606 | 3.9 | 120 | | 1412 | 3.0 | 90 | | 1559 | 3.0 | 90 | | | | | | |
| | 2230 | 1.3 | 40 | | 2213 | 1.3 | 40 | | 2220 | 1.3 | 40 | | 2209 | 1.0 | 30 | | 2126 | 0.7 | 20 | | 2136 | 1.0 | 30 | | | | | | |
| 5 Tu | 0419 | 3.3 | 100 | 20 W | 0411 | 3.9 | 120 | 5 F | 0434 | 4.3 | 130 | 20 Sa | 0432 | 4.6 | 140 | 5 M | 0451 | 4.3 | 130 | 20 Tu | 0444 | 4.3 | 130 | | | | | | |
| | 0938 | 1.6 | 50 | | 1001 | 1.6 | 50 | | 1049 | 2.0 | 60 | | 1047 | 2.0 | 60 | | 1120 | 2.6 | 80 | | 1125 | 2.3 | 70 | | | | | | |
| | 1559 | 5.2 | 160 | | 1603 | 4.9 | 150 | | 1614 | 3.6 | 110 | | 1620 | 3.6 | 110 | | 1351 | 3.0 | 90 | | 1422 | 2.6 | 80 | | | | | | |
| | 2250 | 1.3 | 40 | | 2231 | 1.3 | 40 | | 2218 | 1.3 | 40 | | 2219 | 1.0 | 30 | | 2126 | 1.0 | 30 | | 2131 | 1.3 | 40 | | | | | | |
| 6 W | 0442 | 3.6 | 110 | 21 Th | 0439 | 4.3 | 130 | 6 Sa | 0459 | 4.3 | 130 | 21 Su | 0456 | 4.3 | 130 | 6 Tu | 0518 | 3.9 | 120 | 21 W | 0510 | 3.9 | 120 | | | | | | |
| | 1013 | 2.0 | 60 | | 1032 | 2.0 | 60 | | 1119 | 2.3 | 70 | | 1115 | 2.3 | 70 | | 1146 | 3.3 | 100 | | 1146 | 3.3 | 100 | | | | | | |
| | 1623 | 4.9 | 150 | | 1625 | 4.6 | 140 | | 1609 | 3.3 | 100 | | 1622 | 3.3 | 100 | | 1328 | 3.3 | 100 | | 1328 | 3.3 | 100 | | | | | | |
| | 2306 | 1.6 | 50 | | 2249 | 1.3 | 40 | | 2217 | 1.3 | 40 | | 2221 | 1.3 | 40 | | 2119 | 1.0 | 30 | | 2119 | 1.0 | 30 | | | | | | |
| 7 Th | 0507 | 3.6 | 110 | 22 F | 0507 | 4.3 | 130 | 7 Su | 0529 | 4.3 | 130 | 22 M | 0520 | 4.3 | 130 | 7 W | 0541 | 3.3 | 100 | 22 Th | 0541 | 3.6 | 110 | | | | | | |
| | 1051 | 2.3 | 70 | | 1104 | 2.3 | 70 | | 1153 | 3.0 | 90 | | 1148 | 2.6 | 80 | | 0730 | 3.3 | 100 | | 0754 | 3.3 | 100 | | | | | | |
| | 1642 | 4.3 | 130 | | 1642 | 3.9 | 120 | | 1417 | 3.3 | 100 | | 1437 | 3.0 | 90 | | 1130 | 3.6 | 110 | | 0919 | 3.3 | 100 | | | | | | |
| | 2317 | 1.6 | 50 | | 2305 | 1.3 | 40 | | 2213 | 1.3 | 40 | | 2213 | 1.3 | 40 | | 2035 | 1.3 | 40 | | 1930 | 1.3 | 40 | | | | | | |
| 8 F | 0539 | 3.9 | 120 | 23 Sa | 0537 | 4.3 | 130 | 8 M | 0608 | 3.9 | 120 | 23 Tu | 0550 | 3.9 | 120 | 8 Th | 0549 | 3.0 | 90 | 23 F | 1129 | 3.6 | 110 | | | | | | |
| | 1135 | 2.6 | 80 | | 1140 | 2.6 | 80 | | 2201 | 1.3 | 40 | | 2150 | 1.6 | 50 | | 0640 | 3.0 | 90 | | 1912 | 1.3 | 40 | | | | | | |
| | 1655 | 3.6 | 110 | | 1649 | 3.6 | 110 | | 2217 | 1.3 | 40 | | 2221 | 1.3 | 40 | | 1225 | 3.9 | 120 | | 1225 | 3.9 | 120 | | | | | | |
| | 2323 | 1.6 | 50 | | 2316 | 1.6 | 50 | | 2217 | 1.3 | 40 | | 2221 | 1.3 | 40 | | 1946 | 1.3 | 40 | | 1946 | 1.3 | 40 | | | | | | |
| 9 Sa | 0624 | 3.9 | 120 | 24 Su | 0612 | 3.9 | 120 | 9 Tu | 1059 | 3.9 | 120 | 24 W | 1017 | 3.6 | 110 | 9 F | 0158 | 2.6 | 80 | 24 Sa | 0135 | 3.0 | 90 | | | | | | |
| | 2320 | 1.6 | 50 | | 2310 | 2.0 | 60 | | 2138 | 1.3 | 40 | | 2023 | 1.6 | 50 | | 0647 | 2.3 | 70 | | 0612 | 2.3 | 70 | | | | | | |
| | 10 Su | 0924 | 3.9 | | 120 | 25 M | 0732 | | 3.9 | 120 | 10 W | | 1221 | 4.6 | 140 | | 25 Th | 1148 | 4.3 | | 130 | 10 Sa | 0141 | 3.0 | 90 | 25 Su | 0658 | 1.6 | 50 |
| | | 2244 | 1.6 | | 50 | | 2236 | | 2.0 | 60 | | | 2035 | 1.3 | 40 | | | 1954 | 1.3 | | 40 | | 0708 | 2.0 | 60 | | 1304 | 4.6 | 140 |
| 11 M | | 1059 | 4.6 | 140 | 26 Tu | | 1051 | 4.3 | 130 | 11 Th | | 0249 | 2.6 | 80 | 26 F | 0213 | | 2.6 | 80 | 11 Su | 0147 | | 3.3 | 100 | 26 M | | 0140 | 3.6 | 110 |
| | | 2205 | 1.6 | 50 | | | 2106 | 2.0 | 60 | | | 0424 | 2.6 | 80 | | 0456 | | 2.6 | 80 | | 0733 | | 1.3 | 40 | | | 0734 | 1.0 | 30 |
| | 12 Tu | 1202 | 4.9 | 150 | | 27 W | 1152 | 4.6 | 140 | | 12 F | 0220 | 2.6 | 80 | | 27 Sa | 0205 | 3.0 | 90 | | 12 M | 0200 | 3.9 | 120 | | 27 Tu | 0158 | 4.3 | 130 |
| | | 2055 | 1.6 | 50 | | | 2017 | 1.6 | 50 | | | 0640 | 2.0 | 60 | | | 0650 | 2.0 | 60 | | | 0800 | 1.0 | 30 | | | 0807 | 0.7 | 20 |
| 13 W | | 1250 | 5.2 | 160 | 28 Th | | 0222 | 2.6 | 80 | 13 Sa | | 0222 | 3.0 | 90 | 28 Su | | 0216 | 3.3 | 100 | 13 Tu | | 0216 | 4.3 | 130 | 28 W | | 0216 | 4.6 | 140 |
| | | 2051 | 1.3 | 40 | | | 0445 | 2.6 | 80 | | | 0733 | 1.6 | 50 | | | 0737 | 1.3 | 40 | | | 0826 | 0.7 | 20 | | | 0839 | 0.3 | 10 |
| | 14 Th | 0239 | 2.6 | 80 | | 29 F | 1241 | 4.9 | 150 | | 14 Su | 0234 | 3.3 | 100 | | 29 M | 0233 | 3.6 | 110 | | 14 W | 0234 | 4.6 | 140 | | 29 Th | 0234 | 4.9 | 150 |
| | | 0524 | 2.3 | 70 | | | 2020 | 1.3 | 40 | | | 1357 | 4.9 | 150 | | | 2038 | 1.0 | 30 | | | 1354 | 5.2 | 160 | | | 0852 | 0.7 | 20 |
| 1328 | | 5.2 | 160 | 0222 | 3.0 | | 90 | 0807 | 1.3 | 40 | | 1420 | 5.2 | 160 | 2035 | | 0.7 | 20 | 1447 | 4.3 | | 130 | 0908 | 0.3 | 10 | | | | |
| 2058 | | 1.3 | 40 | 2039 | 1.0 | | 30 | 2053 | 1.0 | 30 | | 2053 | 1.0 | 30 | 2055 | | 0.7 | 20 | 2051 | 0.7 | | 20 | 1456 | 3.6 | 110 | | | | |
| 15 F | 0246 | 2.6 | 80 | 30 Sa | 0239 | 3.0 | 90 | 15 M | 0248 | 3.6 | 110 | 30 Tu | 0251 | 3.9 | 120 | 15 Th | 0255 | 4.9 | 150 | 30 F | 0251 | 5.2 | 160 | | | | | | |
| | 0645 | 2.0 | 60 | | 0718 | 2.0 | 60 | | 0836 | 1.3 | 40 | | 0846 | 1.0 | 30 | | 0917 | 0.7 | 20 | | 0936 | 0.7 | 20 | | | | | | |
| | 1400 | 5.6 | 170 | | 1401 | 5.6 | 170 | | 1442 | 5.2 | 160 | | 1453 | 4.9 | 150 | | 1509 | 4.3 | 130 | | 1506 | 3.0 | 90 | | | | | | |
| | 2108 | 1.3 | 40 | | 2102 | 1.0 | 30 | | 2111 | 1.0 | 30 | | 2112 | 0.7 | 20 | | 2106 | 0.7 | 20 | | 2033 | 0.7 | 20 | | | | | | |
| 16 Sa | 0246 | 2.6 | 80 | 31 Su | 0300 | 3.3 | 100 | 16 M | 0309 | 4.3 | 130 | 31 W | 0309 | 4.3 | 130 | 16 Th | 0309 | 4.3 | 130 | 16 F | 0309 | 4.3 | 130 | | | | | | |
| | 0645 | 2.0 | 60 | | 0808 | 1.6 | 50 | | 0917 | 0.7 | 20 | | 0917 | 0.7 | 20 | | 1514 | 4.6 | 140 | | 1514 | 4.6 | 140 | | | | | | |
| | 1400 | 5.6 | 170 | | 1434 | 5.9 | 180 | | 1514 | 4.6 | 140 | | 2124 | 1.0 | 30 | | 2124 | 1.0 | 30 | | 2124 | 1.0 | 30 | | | | | | |
| | 2108 | 1.3 | 40 | | 2125 | 1.0 | 30 | | 2125 | 1.0 | 30 | | 2124 | 1.0 | 30 | | 2124 | 1.0 | 30 | | 2124 | 1.0 | 30 | | | | | | |

Time meridian 142° 30' E. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to the chart datum of soundings.

Port Lincoln, Australia, 2011

Times and Heights of High and Low Waters

| October | | | | November | | | | December | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|------|--------|-----|----------|-----------------|--------|-----|----------|----|-----------------|------|------|-----|--------|-----------------|------|-----|-----|--|-----------------|------|-----|-----|--|-----------------|------|-----|-----|--|------|-----|----|--|
| Time | | Height | | Time | | Height | | Time | | Height | | Time | | Height | | | | | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | | | | | | | | | | |
| 1 Sa | 0310 | 5.2 | 160 | | 16 Su | 0311 | 5.2 | 160 | | 1 Tu | 1035 | 1.6 | 50 | | 16 W | 0344 | 4.9 | 150 | | 1 Th | 0358 | 4.3 | 130 | | 16 F | 0412 | 4.6 | 140 | | | | | |
| | 1001 | 1.0 | 30 | | | 0952 | 1.0 | 30 | | | 1514 | 2.3 | 70 | | | 1046 | 1.3 | 40 | | | 1052 | 1.3 | 40 | | | 1110 | 1.0 | 30 | | | | | |
| | 1511 | 2.6 | 80 | | | 1531 | 3.0 | 90 | | | 1514 | 2.3 | 70 | | | 1615 | 2.3 | 70 | | | 1636 | 2.6 | 80 | | | 1636 | 2.6 | 80 | | 1706 | 2.6 | 80 | |
| | 2030 | 0.7 | 20 | | | 2051 | 1.0 | 30 | | | 2034 | 1.0 | 30 | | | 2101 | 1.3 | 40 | | | 2126 | 1.6 | 50 | | | 2126 | 1.6 | 50 | | 2209 | 1.6 | 50 | |
| 2 Su | 0332 | 4.9 | 150 | | 17 M | 0333 | 4.9 | 150 | | 2 W | 0404 | 4.3 | 130 | | 17 Th | 0411 | 4.6 | 140 | | 2 F | 0423 | 3.9 | 120 | | 17 Sa | 0437 | 3.9 | 120 | | | | | |
| | 1022 | 1.6 | 50 | | | 1018 | 1.0 | 30 | | | 1056 | 2.0 | 60 | | | 1121 | 1.3 | 40 | | | 1119 | 1.3 | 40 | | | 1119 | 1.3 | 40 | | 1135 | 1.3 | 40 | |
| | 1512 | 2.6 | 80 | | | 1546 | 3.0 | 90 | | | 1351 | 2.3 | 70 | | | 1646 | 2.3 | 70 | | | 1731 | 2.6 | 80 | | | 1731 | 2.6 | 80 | | 1747 | 3.0 | 90 | |
| | 2039 | 0.7 | 20 | | | 2100 | 1.0 | 30 | | | 2042 | 1.3 | 40 | | | 2110 | 1.6 | 50 | | | 2149 | 2.3 | 70 | | | 2149 | 2.3 | 70 | | 2258 | 2.3 | 70 | |
| 3 M | 0357 | 4.9 | 150 | | 18 Tu | 0356 | 4.9 | 150 | | 3 Th | 0427 | 3.9 | 120 | | 18 F | 0439 | 3.9 | 120 | | 3 Sa | 0439 | 3.3 | 100 | | 18 Su | 0501 | 3.3 | 100 | | | | | |
| | 1041 | 2.0 | 60 | | | 1045 | 1.3 | 40 | | | 1128 | 2.0 | 60 | | | 1209 | 1.6 | 50 | | | 1153 | 1.6 | 50 | | | 1153 | 1.6 | 50 | | 1159 | 1.3 | 40 | |
| | 1339 | 2.6 | 80 | | | 1555 | 2.6 | 80 | | | 1356 | 2.3 | 70 | | | 1753 | 2.0 | 60 | | | 1916 | 2.6 | 80 | | | 1916 | 2.6 | 80 | | 1918 | 3.0 | 90 | |
| | 2049 | 0.7 | 20 | | | 2106 | 1.3 | 40 | | | 2034 | 2.0 | 60 | | | 2045 | 2.0 | 60 | | | 2119 | 2.6 | 80 | | | 2119 | 2.6 | 80 | | 1918 | 3.0 | 90 | |
| 4 Tu | 0422 | 4.3 | 130 | | 19 W | 0420 | 4.6 | 140 | | 4 F | 0437 | 3.3 | 100 | | 19 Sa | 0509 | 3.6 | 110 | | 4 Su | 0340 | 3.0 | 90 | | 19 M | 0033 | 2.6 | 80 | | | | | |
| | 1101 | 2.3 | 70 | | | 1119 | 2.0 | 60 | | | 1717 | 2.0 | 60 | | | 1535 | 2.0 | 60 | | | 1240 | 1.6 | 50 | | | 0501 | 3.0 | 90 | | | | | |
| | 1335 | 2.6 | 80 | | | 1431 | 2.3 | 70 | | | 2051 | 1.0 | 30 | | | 2051 | 1.0 | 30 | | | 2306 | 3.3 | 100 | | | 1219 | 1.6 | 50 | | | | | |
| | 2051 | 1.0 | 30 | | | 2103 | 1.3 | 40 | | | 0154 | 3.0 | 90 | | | 0118 | 3.0 | 90 | | | 1441 | 2.0 | 60 | | | 2215 | 3.3 | 100 | | | | | |
| 5 W | 0444 | 3.9 | 120 | | 20 Th | 0446 | 3.9 | 120 | | 5 Sa | 0154 | 3.0 | 90 | | 20 Su | 0118 | 3.0 | 90 | | 5 M | 1441 | 2.0 | 60 | | 20 Tu | 1112 | 1.6 | 50 | | | | | |
| | 1127 | 2.6 | 80 | | | 1943 | 1.6 | 50 | | | 1710 | 2.0 | 60 | | | 1630 | 1.6 | 50 | | | 2329 | 3.6 | 110 | | | 2313 | 3.9 | 120 | | | | | |
| | 1325 | 3.0 | 90 | | | 0515 | 3.6 | 110 | | | 0013 | 3.3 | 100 | | | 0616 | 2.0 | 60 | | | 0713 | 2.0 | 60 | | | 0807 | 1.3 | 40 | | | | | |
| | 2041 | 1.3 | 40 | | | 1824 | 1.6 | 50 | | | 0643 | 2.0 | 60 | | | 1128 | 2.6 | 80 | | | 1208 | 2.3 | 70 | | | 1406 | 2.0 | 60 | | | | | |
| 6 Th | 0457 | 3.3 | 100 | | 21 F | 0515 | 3.6 | 110 | | 6 Su | 0013 | 3.3 | 100 | | 21 M | 0616 | 2.0 | 60 | | 6 Tu | 0713 | 2.0 | 60 | | 21 W | 0807 | 1.3 | 40 | | | | | |
| | 0803 | 3.0 | 90 | | | 1824 | 1.6 | 50 | | | 0643 | 2.0 | 60 | | | 1706 | 1.6 | 50 | | | 1618 | 1.6 | 50 | | | 1504 | 2.0 | 60 | | | | | |
| | 1035 | 3.0 | 90 | | | 0156 | 3.0 | 90 | | | 1143 | 2.6 | 80 | | | 1706 | 1.6 | 50 | | | 2354 | 4.3 | 130 | | | 2357 | 4.6 | 140 | | | | | |
| | 1923 | 1.6 | 50 | | | 0337 | 3.0 | 90 | | | 1729 | 1.6 | 50 | | | 2359 | 3.9 | 120 | | | 0719 | 1.3 | 40 | | | 0803 | 1.0 | 30 | | | | | |
| 7 F | 0216 | 2.6 | 80 | | 22 Sa | 0156 | 3.0 | 90 | | 7 M | 0017 | 3.6 | 110 | | 22 Tu | 0652 | 1.3 | 40 | | 7 W | 1254 | 2.3 | 70 | | 22 Th | 1410 | 2.0 | 60 | | | | | |
| | 0650 | 2.6 | 80 | | | 0337 | 3.0 | 90 | | | 0653 | 1.6 | 50 | | | 1237 | 2.6 | 80 | | | 1710 | 1.6 | 50 | | | 1632 | 2.0 | 60 | | | | | |
| | 1153 | 3.3 | 100 | | | 1039 | 3.3 | 100 | | | 1223 | 3.0 | 90 | | | 1734 | 1.6 | 50 | | | 0719 | 1.3 | 40 | | | 1410 | 2.0 | 60 | | | | | |
| | 1847 | 1.6 | 50 | | | 1814 | 1.3 | 40 | | | 1755 | 1.3 | 40 | | | 0021 | 4.6 | 140 | | | 1254 | 2.3 | 70 | | | 1632 | 2.0 | 60 | | | | | |
| 8 Sa | 0106 | 3.0 | 90 | | 23 Su | 0045 | 3.0 | 90 | | 8 Tu | 0031 | 4.3 | 130 | | 23 W | 0024 | 4.6 | 140 | | 8 Th | 0021 | 4.6 | 140 | | 23 F | 0037 | 4.9 | 150 | | | | | |
| | 0646 | 2.0 | 60 | | | 0616 | 2.0 | 60 | | | 0713 | 1.3 | 40 | | | 0728 | 1.0 | 30 | | | 0739 | 1.0 | 30 | | | 0829 | 0.7 | 20 | | | | | |
| | 1224 | 3.6 | 110 | | | 1158 | 3.6 | 110 | | | 1256 | 3.0 | 90 | | | 1323 | 2.6 | 80 | | | 1328 | 2.6 | 80 | | | 1429 | 2.0 | 60 | | | | | |
| | 1847 | 1.3 | 40 | | | 1830 | 1.3 | 40 | | | 1821 | 1.3 | 40 | | | 1758 | 1.6 | 50 | | | 1753 | 1.6 | 50 | | | 1729 | 1.6 | 50 | | | | | |
| 9 Su | 0059 | 3.3 | 100 | | 24 M | 0045 | 3.6 | 110 | | 9 W | 0050 | 4.6 | 140 | | 24 Th | 0051 | 4.9 | 150 | | 9 F | 0050 | 4.9 | 150 | | 24 Sa | 0114 | 5.2 | 160 | | | | | |
| | 0701 | 1.6 | 50 | | | 0652 | 1.3 | 40 | | | 0737 | 1.0 | 30 | | | 0803 | 0.7 | 20 | | | 0803 | 1.0 | 30 | | | 0853 | 0.7 | 20 | | | | | |
| | 1250 | 3.6 | 110 | | | 1246 | 3.6 | 110 | | | 1326 | 3.0 | 90 | | | 1401 | 2.6 | 80 | | | 1358 | 2.6 | 80 | | | 1450 | 2.0 | 60 | | | | | |
| | 1858 | 1.3 | 40 | | | 1851 | 1.0 | 30 | | | 1847 | 1.3 | 40 | | | 1819 | 1.3 | 40 | | | 1832 | 1.3 | 40 | | | 1821 | 1.3 | 40 | | | | | |
| 10 M | 0109 | 3.9 | 120 | | 25 Tu | 0101 | 4.3 | 130 | | 10 Th | 0113 | 4.9 | 150 | | 25 F | 0118 | 5.2 | 160 | | 10 Sa | 0120 | 5.2 | 160 | | 25 Su | 0147 | 5.2 | 160 | | | | | |
| | 0722 | 1.3 | 40 | | | 0726 | 1.0 | 30 | | | 0803 | 0.7 | 20 | | | 0836 | 0.7 | 20 | | | 0829 | 0.7 | 20 | | | 0914 | 0.7 | 20 | | | | | |
| | 1316 | 3.6 | 110 | | | 1325 | 3.6 | 110 | | | 1354 | 3.0 | 90 | | | 1432 | 2.3 | 70 | | | 1425 | 2.6 | 80 | | | 1507 | 2.0 | 60 | | | | | |
| | 1916 | 1.0 | 30 | | | 1910 | 1.0 | 30 | | | 1911 | 1.0 | 30 | | | 1842 | 1.3 | 40 | | | 1906 | 1.3 | 40 | | | 1910 | 1.3 | 40 | | | | | |
| 11 Tu | 0124 | 4.3 | 130 | | 26 W | 0121 | 4.6 | 140 | | 11 F | 0137 | 5.2 | 160 | | 26 Sa | 0146 | 5.6 | 170 | | 11 Su | 0150 | 5.2 | 160 | | 26 M | 0217 | 5.2 | 160 | | | | | |
| | 0747 | 1.0 | 30 | | | 0800 | 0.7 | 20 | | | 0829 | 0.7 | 20 | | | 0905 | 0.7 | 20 | | | 0856 | 0.7 | 20 | | | 0932 | 0.7 | 20 | | | | | |
| | 1341 | 3.9 | 120 | | | 1358 | 3.3 | 100 | | | 1421 | 3.0 | 90 | | | 1454 | 2.0 | 60 | | | 1452 | 2.6 | 80 | | | 1522 | 2.3 | 70 | | | | | |
| | 1935 | 1.0 | 30 | | | 1925 | 1.0 | 30 | | | 1934 | 1.0 | 30 | | | 1903 | 1.0 | 30 | | | 1937 | 1.0 | 30 | | | 1951 | 1.0 | 30 | | | | | |
| 12 W | 0142 | 4.6 | 140 | | 27 Th | 0142 | 4.9 | 150 | | 12 Sa | 0203 | 5.2 | 160 | | 27 Su | 0213 | 5.6 | 170 | | 12 M | 0220 | 5.6 | 170 | | 27 Tu | 0243 | 5.2 | 160 | | | | | |
| | 0813 | 0.7 | 20 | | | 0832 | 0.3 | 10 | | | 0855 | 0.7 | 20 | | | 0932 | 0.7 | 20 | | | 0924 | 0.7 | 20 | | | 0950 | 0.7 | 20 | | | | | |
| | 1406 | 3.9 | 120 | | | 1426 | 3.0 | 90 | | | 1446 | 3.0 | 90 | | | 1504 | 2.0 | 60 | | | 1517 | 2.6 | 80 | | | 1531 | 2.6 | 80 | | | | | |
| | 1955 | 0.7 | 20 | | | 1935 | 1.0 | 30 | | | 1954 | 1.0 | 30 | | | 1925 | 1.0 | 30 | | | 2006 | 1.0 | 30 | | | 2027 | 1.0 | 30 | | | | | |
| 13 Th | 0204 | 4.9 | 150 | | 28 F | 0204 | 5.2 | 160 | | 13 Su | 0228 | 5.6 | 170 | | 28 M | 0238 | 5.2 | 160 | | 13 Tu | 0248 | 5.6 | 170 | | 28 W | 0307 | 4.9 | 150 | | | | | |
| | 0839 | 0.7 | 20 | | | 0902 | 0.3 | 10 | | | 0922 | 0.7 | 20 | | | 0955 | 1.0 | 30 | | | 0952 | 0.7 | 20 | | | 1006 | 1.0 | 30 | | | | | |
| | 1431 | 3.6 | 110 | | | 1445 | 2.6 | 80 | | | 1509 | 3.0 | 90 | | | 1507 | 2.0 | 60 | | | 1542 | 2.6 | 80 | | | 1545 | 3.0 | 90 | | | | | |
| | 2013 | 0.7 | 20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Port Hedland, Australia, 2011

Times and Heights of High and Low Waters

| January | | | | February | | | | March | | | | | | | | | | | | | | | | | | | | | |
|-----------------|------|--------|-----|----------|-----------------|--------|------|-------|----|-----------------|------|------|-----|--------|-----------------|------|------|-----|------|-----------------|------|------|-----|------|-----------------|------|------|-----|--|
| Time | | Height | | Time | | Height | | Time | | Height | | Time | | Height | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | |
| 1 Sa | 0148 | 8.5 | 260 | | 16 Su | 0123 | 10.2 | 310 | | 1 Tu | 0411 | 7.2 | 220 | | 16 W | 0347 | 8.2 | 250 | | 1 Tu | 0317 | 9.8 | 300 | | 16 W | 0143 | 10.8 | 330 | |
| | 0818 | 15.4 | 470 | | | 0802 | 14.1 | 430 | | | 1041 | 17.7 | 540 | | | 1019 | 16.7 | 510 | | | 0959 | 15.7 | 480 | | | 0858 | 14.8 | 450 | |
| | 1401 | 10.5 | 320 | | | 1331 | 11.8 | 360 | | | 1623 | 8.5 | 260 | | | 1557 | 9.5 | 290 | | | 1536 | 10.5 | 320 | | | 1423 | 11.8 | 360 | |
| | 2021 | 18.0 | 550 | | | 2006 | 16.7 | 510 | | | 2232 | 19.4 | 590 | | | 2203 | 19.0 | 580 | | | 2146 | 17.4 | 530 | | | 2041 | 16.7 | 510 | |
| 2 Su | 0309 | 7.5 | 230 | | 17 M | 0251 | 9.2 | 280 | | 2 W | 0449 | 5.6 | 170 | | 17 Th | 0426 | 6.2 | 190 | | 2 W | 0402 | 7.9 | 240 | | 17 Th | 0318 | 8.9 | 270 | |
| | 0946 | 16.7 | 510 | | | 0940 | 15.4 | 470 | | | 1113 | 19.0 | 580 | | | 1051 | 18.7 | 570 | | | 1030 | 17.7 | 540 | | | 0949 | 17.1 | 520 | |
| | 1524 | 9.5 | 290 | | | 1500 | 10.8 | 330 | | | 1701 | 6.9 | 210 | | | 1638 | 7.2 | 220 | | | 1615 | 8.5 | 260 | | | 1537 | 9.2 | 280 | |
| | 2135 | 19.0 | 580 | | | 2117 | 17.7 | 540 | | | 2310 | 20.7 | 630 | | | 2248 | 21.0 | 640 | | | 2225 | 19.0 | 580 | | | 2147 | 18.7 | 570 | |
| 3 M | 0407 | 6.2 | 190 | | 18 Tu | 0356 | 7.5 | 230 | | 3 Th | 0522 | 4.6 | 140 | | 18 F | 0501 | 4.3 | 130 | | 3 Th | 0434 | 6.2 | 190 | | 18 F | 0400 | 6.6 | 200 | |
| | 1037 | 18.0 | 550 | | | 1028 | 17.1 | 520 | | | 1143 | 20.3 | 620 | | | 1124 | 20.7 | 630 | | | 1055 | 19.4 | 590 | | | 1023 | 19.4 | 590 | |
| | 1620 | 8.2 | 250 | | | 1604 | 9.2 | 280 | | | 1734 | 5.9 | 180 | | | 1715 | 4.9 | 150 | | | 1647 | 6.9 | 210 | | | 1617 | 6.6 | 200 | |
| | 2228 | 20.3 | 620 | | | 2211 | 19.4 | 590 | | | 2343 | 21.3 | 650 | | | 2329 | 22.3 | 680 | | | 2257 | 20.3 | 620 | | | 2231 | 20.7 | 630 | |
| 4 Tu | 0452 | 4.9 | 150 | | 19 W | 0439 | 5.9 | 180 | | 4 F | 0553 | 3.6 | 110 | | 19 Sa | 0535 | 2.6 | 80 | | 4 F | 0503 | 4.9 | 150 | | 19 Sa | 0435 | 4.6 | 140 | |
| | 1117 | 19.0 | 580 | | | 1105 | 18.7 | 570 | | | 1212 | 21.3 | 650 | | | 1158 | 22.3 | 680 | | | 1121 | 20.7 | 630 | | | 1056 | 21.3 | 650 | |
| | 1704 | 6.9 | 210 | | | 1649 | 7.5 | 230 | | | 1804 | 4.9 | 150 | | | 1751 | 3.3 | 100 | | | 1715 | 5.6 | 170 | | | 1654 | 4.3 | 130 | |
| | 2313 | 21.0 | 640 | | | 2256 | 21.0 | 640 | | | | | | | | | | | 2327 | | 21.3 | 650 | | 2310 | | 22.3 | 680 | | |
| 5 W | 0531 | 3.9 | 120 | | 20 Th | 0517 | 4.3 | 130 | | 5 Sa | 0014 | 22.0 | 670 | | 20 Su | 0007 | 23.3 | 710 | | 5 Sa | 0529 | 4.3 | 130 | | 20 Su | 0510 | 3.0 | 90 | |
| | 1153 | 20.0 | 610 | | | 1140 | 20.0 | 610 | | | 0621 | 3.3 | 100 | | | 0609 | 1.6 | 50 | | | 1147 | 21.7 | 660 | | | 1130 | 23.3 | 710 | |
| | 1743 | 5.9 | 180 | | | 1728 | 5.9 | 180 | | | 1238 | 21.7 | 660 | | | 1231 | 23.6 | 720 | | | 1743 | 4.6 | 140 | | | 1729 | 2.3 | 70 | |
| | 2351 | 21.7 | 660 | | | 2339 | 22.0 | 670 | | | 1833 | 4.3 | 130 | | | 1826 | 2.0 | 60 | | | 2355 | 22.0 | 670 | | | 2348 | 23.3 | 710 | |
| 6 Th | 0606 | 3.3 | 100 | | 21 F | 0553 | 3.0 | 90 | | 6 Su | 0043 | 22.0 | 670 | | 21 M | 0045 | 23.6 | 720 | | 6 Su | 0555 | 3.6 | 110 | | 21 M | 0544 | 2.0 | 60 | |
| | 1226 | 20.7 | 630 | | | 1215 | 21.3 | 650 | | | 0647 | 3.3 | 100 | | | 0642 | 1.3 | 40 | | | 1212 | 22.3 | 680 | | | 1204 | 24.3 | 740 | |
| | 1817 | 5.6 | 170 | | | 1806 | 4.6 | 140 | | | 1303 | 22.0 | 670 | | | 1303 | 24.3 | 740 | | | 1809 | 3.6 | 110 | | | 1805 | 1.3 | 40 | |
| | | | | | | | | | | | 1859 | 4.3 | 130 | | | 1902 | 1.6 | 50 | | | | | | | | | | | |
| 7 F | 0026 | 21.7 | 660 | | 22 Sa | 0019 | 22.6 | 690 | | 7 M | 0109 | 21.7 | 660 | | 22 Tu | 0118 | 23.3 | 710 | | 7 M | 0021 | 22.0 | 670 | | 22 Tu | 0024 | 23.6 | 720 | |
| | 0638 | 3.3 | 100 | | | 0628 | 2.0 | 60 | | | 0711 | 3.3 | 100 | | | 0714 | 1.6 | 50 | | | 0620 | 3.3 | 100 | | | 0617 | 2.0 | 60 | |
| | 1256 | 21.0 | 640 | | | 1250 | 22.3 | 680 | | | 1327 | 22.0 | 670 | | | 1333 | 24.3 | 740 | | | 1236 | 22.6 | 690 | | | 1236 | 24.9 | 760 | |
| | 1850 | 5.2 | 160 | | | 1843 | 3.6 | 110 | | | 1924 | 4.6 | 140 | | | 1935 | 2.0 | 60 | | | 1833 | 3.6 | 110 | | | 1839 | 1.0 | 30 | |
| 8 Sa | 0057 | 21.7 | 660 | | 23 Su | 0058 | 23.0 | 700 | | 8 Tu | 0133 | 21.3 | 650 | | 23 W | 0150 | 22.3 | 680 | | 8 Tu | 0047 | 22.0 | 670 | | 23 W | 0058 | 23.0 | 700 | |
| | 0708 | 3.6 | 110 | | | 0703 | 2.0 | 60 | | | 0733 | 3.9 | 120 | | | 0746 | 3.0 | 90 | | | 0643 | 3.6 | 110 | | | 0650 | 2.3 | 70 | |
| | 1324 | 21.0 | 640 | | | 1324 | 23.0 | 700 | | | 1349 | 22.0 | 670 | | | 1402 | 23.6 | 720 | | | 1258 | 22.6 | 690 | | | 1307 | 24.6 | 750 | |
| | 1920 | 5.6 | 170 | | | 1920 | 3.3 | 100 | | | 1948 | 4.9 | 150 | | | 2009 | 3.3 | 100 | | | 1857 | 3.6 | 110 | | | 1913 | 1.6 | 50 | |
| 9 Su | 0127 | 21.0 | 640 | | 24 M | 0135 | 22.6 | 690 | | 9 W | 0156 | 20.7 | 630 | | 24 Th | 0221 | 21.0 | 640 | | 9 W | 0109 | 21.7 | 660 | | 24 Th | 0130 | 22.0 | 670 | |
| | 0735 | 3.9 | 120 | | | 0737 | 2.3 | 70 | | | 0755 | 4.9 | 150 | | | 0817 | 4.6 | 140 | | | 0704 | 3.9 | 120 | | | 0722 | 3.3 | 100 | |
| | 1351 | 21.0 | 640 | | | 1356 | 23.0 | 700 | | | 1410 | 21.3 | 650 | | | 1432 | 22.3 | 680 | | | 1319 | 22.3 | 680 | | | 1337 | 23.6 | 720 | |
| | 1949 | 5.9 | 180 | | | 1956 | 3.6 | 110 | | | 2013 | 5.6 | 170 | | | 2044 | 5.2 | 160 | | | 1920 | 3.9 | 120 | | | 1947 | 3.0 | 90 | |
| 10 M | 0154 | 20.3 | 620 | | 25 Tu | 0209 | 22.0 | 670 | | 10 Th | 0220 | 19.7 | 600 | | 25 F | 0252 | 19.0 | 580 | | 10 Th | 0131 | 21.0 | 640 | | 25 F | 0159 | 20.7 | 630 | |
| | 0801 | 4.9 | 150 | | | 0810 | 3.3 | 100 | | | 0817 | 5.9 | 180 | | | 0848 | 6.6 | 200 | | | 0726 | 4.6 | 140 | | | 0754 | 4.9 | 150 | |
| | 1416 | 20.7 | 630 | | | 1427 | 22.6 | 690 | | | 1432 | 20.7 | 630 | | | 1505 | 20.7 | 630 | | | 1339 | 22.0 | 670 | | | 1408 | 22.3 | 680 | |
| | 2017 | 6.6 | 200 | | | 2033 | 4.6 | 140 | | | 2039 | 6.6 | 200 | | | 2123 | 7.5 | 230 | | | 1944 | 4.6 | 140 | | | 2020 | 5.2 | 160 | |
| 11 Tu | 0221 | 19.4 | 590 | | 26 W | 0243 | 20.7 | 630 | | 11 F | 0244 | 18.4 | 560 | | 26 Sa | 0328 | 17.1 | 520 | | 11 F | 0153 | 20.0 | 610 | | 26 Sa | 0231 | 19.0 | 580 | |
| | 0825 | 5.9 | 180 | | | 0843 | 4.6 | 140 | | | 1456 | 19.4 | 590 | | | 1543 | 18.4 | 560 | | | 1401 | 21.3 | 650 | | | 0826 | 7.2 | 220 | |
| | 1442 | 20.0 | 610 | | | 1500 | 21.7 | 660 | | | 2110 | 8.2 | 250 | | | 2218 | 9.8 | 300 | | | 2009 | 5.9 | 180 | | | 1441 | 20.3 | 620 | |
| | 2046 | 7.2 | 220 | | | 2112 | 5.9 | 180 | | | | | | | | | | | | | | | | 2058 | | 7.5 | 230 | | |
| 12 W | 0249 | 18.4 | 560 | | 27 Th | 0319 | 18.7 | 570 | | 12 Sa | 0312 | 16.7 | 510 | | 27 Su | 0419 | 14.8 | 450 | | 12 Sa | 0216 | 19.0 | 580 | | 27 Su | 0307 | 17.1 | 520 | |
| | 0850 | 6.9 | 210 | | | 0917 | 6.6 | 200 | | | 0905 | 8.9 | 270 | | | 1005 | 11.5 | 350 | | | 0812 | 6.9 | 210 | | | 0901 | 9.2 | 280 | |
| | 1509 | 19.0 | 580 | | | 1537 | 20.3 | 620 | | | 1524 | 18.0 | 550 | | | 1651 | 16.1 | 490 | | | 1424 | 20.0 | 610 | | | 1519 | 18.0 | 550 | |
| | 2119 | 8.2 | 250 | | | 2159 | 7.5 | 230 | | | 2152 | 9.5 | 290 | | | | | | | | 2038 | 7.2 | 220 | | | 2149 | 9.8 | 300 | |
| 13 Th | 0321 | 17.1 | 520 | | 28 F | 0402 | 16.7 | 510 | | 13 Su | 0347 | 15.1 | 460 | | 28 M | 0054 | 11.2 | 340 | | 13 Su | 0242 | 17.4 | 530 | | 28 M | 0359 | 15.1 | 460 | |
| | 0917 | 8.2 | 250 | | | 0957 | 8.9 | 270 | | | 0933 | 10.8 | 330 | | | 0836 | 13.8 | 420 | | | 0837 | 8.5 | 260 | | | 0957 | 11.5 | 350 | |
| | 1543 | 18.0 | 550 | | | 1625 | 18.4 | 560 | | | 1608 | 16.4 | 500 | | | 1341 | 12.5 | 380 | | | 1451 | 18.7 | 570 | | | 1623 | 15.7 | 480 | |
| | 2202 | 9.5 | 290 | | | | | | | | | | | | | | | | | | | | | | | | | | |

Port Hedland, Australia, 2011

Times and Heights of High and Low Waters

| April | | | | May | | | | June | | | | | | | | | | | | | | | | | |
|-----------------|--------|------|------|--------|--|-----------------|--------|------|------|-----------------|------|------|--------|-----------------|------|------|------|-----------------|------|------|------|-----------------|------|------|-----|
| Time | Height | | Time | Height | | Time | Height | | Time | Height | | Time | Height | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | | |
| 1 F | 0405 | 7.2 | 220 | | | 16 Su | 0321 | 7.2 | 220 | 1 Su | 0358 | 7.5 | 230 | 16 M | 0328 | 6.9 | 210 | 1 W | 0425 | 7.2 | 220 | 16 Th | 0444 | 6.2 | 190 |
| | 1023 | 19.4 | 590 | | | | 0941 | 19.7 | 600 | | 1008 | 19.7 | 600 | | 0941 | 21.0 | 640 | | 1035 | 20.3 | 620 | | 1057 | 21.3 | 650 |
| | 1622 | 6.9 | 210 | | | | 1547 | 6.2 | 190 | | 1618 | 6.2 | 190 | | 1601 | 4.6 | 140 | | 1651 | 4.9 | 150 | | 1716 | 3.6 | 110 |
| | 2233 | 19.7 | 600 | | | | 2205 | 20.0 | 610 | | 2232 | 19.4 | 590 | | 2223 | 20.0 | 610 | | 2310 | 19.4 | 590 | | 2339 | 20.0 | 610 |
| 2 Sa | 0434 | 5.9 | 180 | | | 17 Su | 0403 | 5.6 | 170 | 2 M | 0427 | 6.6 | 200 | 17 Tu | 0413 | 5.6 | 170 | 2 Th | 0457 | 6.6 | 200 | 17 F | 0529 | 5.2 | 160 |
| | 1049 | 20.3 | 620 | | | | 1021 | 21.7 | 660 | | 1037 | 20.7 | 630 | | 1027 | 22.0 | 670 | | 1109 | 21.0 | 640 | | 1141 | 21.7 | 660 |
| | 1649 | 5.6 | 170 | | | | 1628 | 3.9 | 120 | | 1647 | 4.9 | 150 | | 1644 | 3.0 | 90 | | 1723 | 4.3 | 130 | | 1757 | 3.0 | 90 |
| | 2302 | 20.7 | 630 | | | | 2247 | 21.7 | 660 | | 2303 | 20.0 | 610 | | 2307 | 20.7 | 630 | | 2343 | 19.7 | 600 | | | | |
| 3 Su | 0501 | 5.2 | 160 | | | 18 M | 0441 | 3.9 | 120 | 3 Tu | 0454 | 5.9 | 180 | 18 W | 0456 | 4.9 | 150 | 3 F | 0530 | 6.2 | 190 | 18 Sa | 0607 | 20.3 | 620 |
| | 1115 | 21.3 | 650 | | | | 1058 | 23.0 | 700 | | 1106 | 21.3 | 650 | | 1110 | 22.6 | 690 | | 1142 | 21.3 | 650 | | 0609 | 4.9 | 150 |
| | 1716 | 4.6 | 140 | | | | 1706 | 2.3 | 70 | | 1715 | 4.3 | 130 | | 1724 | 2.3 | 70 | | 1755 | 3.9 | 120 | | 1222 | 21.7 | 660 |
| | 2329 | 21.3 | 650 | | | | 2327 | 22.3 | 680 | | 2332 | 20.7 | 630 | | 2347 | 21.0 | 640 | | | | | | 1836 | 3.0 | 90 |
| 4 M | 0526 | 4.6 | 140 | | | 19 Tu | 0517 | 3.3 | 100 | 4 W | 0522 | 5.6 | 170 | 19 Th | 0536 | 4.6 | 140 | 4 Sa | 0604 | 20.0 | 610 | 19 Su | 0647 | 20.3 | 620 |
| | 1140 | 22.0 | 670 | | | | 1134 | 24.0 | 730 | | 1134 | 22.0 | 670 | | 1151 | 23.0 | 700 | | 0603 | 5.9 | 180 | | 0647 | 4.9 | 150 |
| | 1742 | 3.6 | 110 | | | | 1743 | 1.3 | 40 | | 1742 | 3.6 | 110 | | 1804 | 2.3 | 70 | | 1216 | 21.3 | 650 | | 1259 | 21.3 | 650 |
| | 2357 | 21.7 | 660 | | | | | | | | | | | | | | 1829 | | 3.6 | 110 | 1911 | | 3.6 | 110 | |
| 5 Tu | 0551 | 4.3 | 130 | | | 20 W | 0004 | 22.6 | 690 | 5 Th | 0000 | 20.7 | 630 | 20 F | 0025 | 21.0 | 640 | 5 Su | 0047 | 20.0 | 610 | 20 M | 0127 | 20.3 | 620 |
| | 1205 | 22.6 | 690 | | | | 0553 | 3.0 | 90 | | 0548 | 5.2 | 160 | | 0614 | 4.6 | 140 | | 0638 | 5.9 | 180 | | 0724 | 5.2 | 160 |
| | 1807 | 3.3 | 100 | | | | 1210 | 24.3 | 740 | | 1202 | 22.0 | 670 | | 1229 | 22.6 | 690 | | 1250 | 21.3 | 650 | | 1335 | 20.7 | 630 |
| | | | | | | | 1819 | 1.3 | 40 | | 1809 | 3.6 | 110 | | 1842 | 3.0 | 90 | | 1904 | 3.9 | 120 | | 1944 | 4.3 | 130 |
| 6 W | 0022 | 21.7 | 660 | | | 21 Th | 0038 | 22.3 | 680 | 6 F | 0027 | 20.7 | 630 | 21 Sa | 0101 | 20.7 | 630 | 6 M | 0121 | 19.7 | 600 | 21 Tu | 0159 | 19.7 | 600 |
| | 0614 | 4.3 | 130 | | | | 0628 | 3.6 | 110 | | 0615 | 5.2 | 160 | | 0653 | 5.2 | 160 | | 0714 | 5.9 | 180 | | 0759 | 6.2 | 190 |
| | 1228 | 22.6 | 690 | | | | 1244 | 24.0 | 730 | | 1229 | 22.0 | 670 | | 1306 | 22.0 | 670 | | 1325 | 21.0 | 640 | | 1408 | 20.0 | 610 |
| | 1831 | 3.3 | 100 | | | | 1854 | 2.3 | 70 | | 1838 | 3.6 | 110 | | 1920 | 3.9 | 120 | | 1939 | 4.6 | 140 | | 2017 | 5.2 | 160 |
| 7 Th | 0046 | 21.3 | 650 | | | 22 F | 0111 | 21.3 | 650 | 7 Sa | 0054 | 20.3 | 620 | 22 Su | 0135 | 20.0 | 610 | 7 Tu | 0155 | 19.4 | 590 | 22 W | 0231 | 19.4 | 590 |
| | 0637 | 4.6 | 140 | | | | 0703 | 4.6 | 140 | | 0644 | 5.9 | 180 | | 0731 | 6.2 | 190 | | 0753 | 6.6 | 200 | | 0835 | 6.9 | 210 |
| | 1251 | 22.3 | 680 | | | | 1317 | 23.0 | 700 | | 1256 | 21.7 | 660 | | 1342 | 21.0 | 640 | | 1402 | 20.3 | 620 | | 1441 | 19.0 | 580 |
| | 1855 | 3.6 | 110 | | | | 1929 | 3.6 | 110 | | 1907 | 4.3 | 130 | | 1957 | 5.2 | 160 | | 2017 | 5.2 | 160 | | 2049 | 6.6 | 200 |
| 8 F | 0109 | 20.7 | 630 | | | 23 Sa | 0144 | 20.3 | 620 | 8 Su | 0122 | 19.7 | 600 | 23 M | 0211 | 19.0 | 580 | 8 W | 0233 | 19.0 | 580 | 23 Th | 0304 | 18.4 | 560 |
| | 0701 | 5.2 | 160 | | | | 0738 | 5.9 | 180 | | 0713 | 6.6 | 200 | | 0811 | 7.2 | 220 | | 0836 | 7.2 | 220 | | 0912 | 7.9 | 240 |
| | 1313 | 22.0 | 670 | | | | 1351 | 21.3 | 650 | | 1325 | 21.0 | 640 | | 1420 | 19.7 | 600 | | 1444 | 19.4 | 590 | | 1516 | 17.7 | 540 |
| | 1921 | 4.3 | 130 | | | | 2006 | 5.2 | 160 | | 1939 | 5.2 | 160 | | 2036 | 6.6 | 200 | | 2100 | 6.2 | 190 | | 2122 | 7.9 | 240 |
| 9 Sa | 0132 | 20.0 | 610 | | | 24 Su | 0219 | 18.7 | 570 | 9 M | 0152 | 19.0 | 580 | 24 Tu | 0250 | 18.0 | 550 | 9 Th | 0317 | 18.7 | 570 | 24 F | 0341 | 17.7 | 540 |
| | 0726 | 5.9 | 180 | | | | 0815 | 7.5 | 230 | | 0747 | 7.5 | 230 | | 0854 | 8.5 | 260 | | 0928 | 7.9 | 240 | | 0955 | 8.9 | 270 |
| | 1337 | 21.3 | 650 | | | | 1427 | 19.7 | 600 | | 1358 | 20.0 | 610 | | 1500 | 18.4 | 560 | | 1535 | 18.0 | 550 | | 1556 | 16.4 | 500 |
| | 1949 | 5.2 | 160 | | | | 2046 | 7.2 | 220 | | 2016 | 6.6 | 200 | | 2118 | 8.2 | 250 | | 2150 | 7.5 | 230 | | 2201 | 9.2 | 280 |
| 10 Su | 0158 | 19.0 | 580 | | | 25 M | 0258 | 17.4 | 530 | 10 Tu | 0229 | 18.0 | 550 | 25 W | 0333 | 17.1 | 520 | 10 F | 0413 | 18.0 | 550 | 25 Sa | 0427 | 16.7 | 510 |
| | 0753 | 7.2 | 220 | | | | 0859 | 9.5 | 290 | | 0827 | 8.5 | 260 | | 0947 | 9.8 | 300 | | 1032 | 8.5 | 260 | | 1058 | 9.8 | 300 |
| | 1403 | 20.3 | 620 | | | | 1509 | 17.7 | 540 | | 1438 | 18.7 | 570 | | 1546 | 16.7 | 510 | | 1640 | 17.1 | 520 | | 1652 | 15.1 | 460 |
| | 2020 | 6.9 | 210 | | | | 2136 | 9.2 | 280 | | 2102 | 7.9 | 240 | | 2210 | 9.5 | 290 | | 2254 | 8.5 | 260 | | 2303 | 10.5 | 320 |
| 11 M | 0228 | 17.7 | 540 | | | 26 Tu | 0351 | 15.7 | 480 | 11 W | 0318 | 17.1 | 520 | 26 Th | 0431 | 16.4 | 500 | 11 Sa | 0525 | 17.7 | 540 | 26 Su | 0542 | 16.1 | 490 |
| | 0823 | 8.9 | 270 | | | | 1006 | 11.2 | 340 | | 0925 | 9.8 | 300 | | 1101 | 10.5 | 320 | | 1159 | 8.9 | 270 | | 1235 | 9.8 | 300 |
| | 1436 | 18.7 | 570 | | | | 1608 | 16.1 | 490 | | 1534 | 17.4 | 530 | | 1651 | 15.4 | 470 | | 1809 | 16.1 | 490 | | 1846 | 14.4 | 440 |
| | 2100 | 8.5 | 260 | | | | 2310 | 10.8 | 330 | | 2207 | 9.2 | 280 | | 2329 | 10.5 | 320 | | | | | | | | |
| 12 Tu | 0309 | 16.1 | 490 | | | 27 W | 0552 | 15.1 | 460 | 12 Th | 0435 | 16.4 | 500 | 27 F | 0609 | 16.1 | 490 | 12 Su | 0621 | 9.2 | 280 | 27 M | 0652 | 10.8 | 330 |
| | 0905 | 10.5 | 320 | | | | 1218 | 11.8 | 360 | | 1056 | 10.5 | 320 | | 1240 | 10.5 | 320 | | 1327 | 8.2 | 250 | | 0721 | 16.1 | 490 |
| | 1524 | 17.1 | 520 | | | | 1831 | 15.1 | 460 | | 1706 | 16.4 | 500 | | 1851 | 15.1 | 460 | | 1944 | 16.4 | 500 | | 1355 | 9.5 | 290 |
| | 2211 | 10.2 | 310 | | | | | | | | 2345 | 9.8 | 300 | | | | | | | | 2027 | | 15.1 | 460 | |
| 13 W | 0436 | 14.8 | 450 | | | 28 Th | 0121 | 10.8 | 330 | 13 F | 0626 | 16.7 | 510 | 28 Sa | 0108 | 10.5 | 320 | 13 M | 0147 | 8.9 | 270 | 28 Tu | 0212 | 10.5 | 320 |
| | 1054 | 11.8 | 360 | | | | 0806 | 15.7 | 480 | | 1250 | 9.8 | 300 | | 0737 | 16.4 | 500 | | 0803 | 18.7 | 570 | | 0831 | 16.7 | 510 |
| | 1722 | 15.7 | 480 | | | | 1416 | 10.8 | 330 | | 1906 | 16.4 | 500 | | 1404 | 9.8 | 300 | | 1440 | 6.9 | 210 | | 1502 | 8.2 | 250 |
| | | | | | | | 2032 | 15.7 | 480 | | | | | | 2022 | 15.7 | 480 | | 2107 | 17.1 | 520 | | 2133 | 16.1 | 490 |
| 14 Th | 0050 | 10.5 | 320 | | | 29 F | 0242 | 9.8 | 300 | 14 Sa | 0125 | 9.2 | 280 | 29 Su | 0222 | 9.8 | 300 | 14 Tu | 0258 | 8.2 | 250 | 29 W | 0314 | 9.5 | 290 |
| | 0739 | 15.4 | 470 | | | | 0902 | 17.1 | 520 | | 0749 | 17.7 | 540 | | 0836 | 17.4 | 530 | | 0909 | 19.7 | 600 | | 0925 | 18.0 | 550 |
| | 1342 | 11.2 | 340 | | | | 1512 | 9.2 | 280 | | 1414 | 8.2 | 250 | | 1502 | 8.5 | 260 | | 1541 | 5.6 | 170 | | 1554 | 7.2 | 220 |
| | 2001 | 16.4 | 500 | | | | 2125 | 17.1 | 520 | | 2032 | 17.4 | 530 | | 2120 | 16.7 | 510 | | 2208 | 18.4 | 560 | | 2218 | 17.1 | 520 |
| 15 F | 0228 | 9.2 | 280 | | | | | | | | | | | | | | | | | | | | | | |

Port Hedland, Australia, 2011

Times and Heights of High and Low Waters

| July | | | | August | | | | September | | | | | | | | | | | | | | | | | | |
|-----------------|------|--------|-----|-----------------|------|--------|------|-----------------|------|--------|-----|-----------------|------|--------|-----|-----------------|------|------|------|-----------------|------|------|-----|------|------|-----|
| Time | | Height | | Time | | Height | | Time | | Height | | Time | | Height | | | | | | | | | | | | |
| h | m | ft | cm | h | m | ft | cm | h | m | ft | cm | h | m | ft | cm | | | | | | | | | | | |
| 1 F | 0443 | 7.2 | 220 | 16 Sa | 0525 | 5.2 | 160 | 1 M | 0548 | 3.9 | 120 | 16 Tu | 0019 | 21.3 | 650 | 1 Th | 0037 | 23.3 | 710 | 16 F | 0040 | 22.0 | 670 | | | |
| | 1051 | 20.0 | 610 | | 1137 | 21.0 | 640 | | 1201 | 22.0 | 670 | | 0617 | 3.3 | 100 | | 0638 | 0.7 | 20 | | 0643 | 2.6 | 80 | | | |
| | 1712 | 4.6 | 140 | | 1750 | 3.3 | 100 | | 1808 | 2.0 | 60 | | 1230 | 21.7 | 660 | | 1257 | 22.6 | 690 | | 1255 | 21.0 | 640 | 1255 | 21.0 | 640 |
| | 2331 | 19.0 | 580 | | | | | | | | | | 1831 | 2.6 | 80 | | 1852 | 1.3 | 40 | | 1850 | 3.6 | 110 | | | |
| 2 Sa | 0520 | 6.2 | 190 | 17 Su | 0009 | 20.3 | 620 | 2 Tu | 0027 | 21.7 | 660 | 17 W | 0046 | 21.7 | 660 | 2 F | 0108 | 23.6 | 720 | 17 Sa | 0101 | 21.7 | 660 | | | |
| | 1131 | 21.0 | 640 | | 0602 | 4.6 | 140 | | 0624 | 3.0 | 90 | | 0645 | 3.0 | 90 | | 0713 | 1.0 | 30 | | 0706 | 3.0 | 90 | | | |
| | 1748 | 3.6 | 110 | | 1214 | 21.3 | 650 | | 1239 | 22.3 | 680 | | 1257 | 21.3 | 650 | | 1330 | 22.0 | 670 | | 1318 | 20.3 | 620 | 1318 | 20.3 | 620 |
| | | | | 1824 | 3.0 | 90 | 1842 | 1.6 | 50 | 1842 | 1.6 | 50 | 1857 | 3.0 | 90 | 1924 | 2.3 | 70 | 1911 | 4.6 | 140 | | | | | |
| 3 Su | 0006 | 20.0 | 610 | 18 M | 0041 | 20.7 | 630 | 3 W | 0101 | 22.3 | 680 | 18 Th | 0110 | 21.7 | 660 | 3 Sa | 0138 | 23.0 | 700 | 18 Su | 0122 | 21.0 | 640 | | | |
| | 0558 | 5.2 | 160 | | 0636 | 4.3 | 130 | | 0659 | 2.3 | 70 | | 0711 | 3.3 | 100 | | 0747 | 2.0 | 60 | | 0728 | 3.9 | 120 | | | |
| | 1209 | 21.3 | 650 | | 1248 | 21.3 | 650 | | 1315 | 22.3 | 680 | | 1322 | 20.7 | 630 | | 1401 | 20.7 | 630 | | 1339 | 19.4 | 590 | 1339 | 19.4 | 590 |
| | 1823 | 3.0 | 90 | | 1854 | 3.0 | 90 | | 1915 | 2.0 | 60 | | 1920 | 3.6 | 110 | | 1956 | 3.6 | 110 | | 1933 | 5.2 | 160 | 1933 | 5.2 | 160 |
| 4 M | 0041 | 20.3 | 620 | 19 Tu | 0111 | 21.0 | 640 | 4 Th | 0132 | 22.3 | 680 | 19 F | 0132 | 21.3 | 650 | 4 Su | 0208 | 21.7 | 660 | 19 M | 0144 | 20.3 | 620 | | | |
| | 0635 | 4.6 | 140 | | 0708 | 4.3 | 130 | | 0734 | 2.6 | 80 | | 0735 | 3.9 | 120 | | 0821 | 3.6 | 110 | | 0753 | 4.9 | 150 | | | |
| | 1248 | 21.7 | 660 | | 1319 | 21.0 | 640 | | 1349 | 21.7 | 660 | | 1345 | 20.0 | 610 | | 1432 | 19.0 | 580 | | 1403 | 18.4 | 560 | 1403 | 18.4 | 560 |
| | 1858 | 3.0 | 90 | | 1924 | 3.3 | 100 | | 1948 | 2.6 | 80 | | 1942 | 4.6 | 140 | | 2028 | 5.6 | 170 | | 1956 | 6.6 | 200 | 1956 | 6.6 | 200 |
| 5 Tu | 0116 | 20.7 | 630 | 20 W | 0138 | 20.7 | 630 | 5 F | 0203 | 22.0 | 670 | 20 Sa | 0154 | 20.7 | 630 | 5 M | 0241 | 20.0 | 610 | 20 Tu | 0207 | 19.0 | 580 | | | |
| | 0712 | 4.6 | 140 | | 0738 | 4.6 | 140 | | 0809 | 3.3 | 100 | | 0759 | 4.6 | 140 | | 0859 | 5.9 | 180 | | 0820 | 6.6 | 200 | | | |
| | 1325 | 21.3 | 660 | | 1347 | 20.3 | 620 | | 1422 | 20.7 | 630 | | 1408 | 19.0 | 580 | | 1509 | 17.1 | 520 | | 1428 | 17.1 | 520 | 1428 | 17.1 | 520 |
| | 1932 | 3.0 | 90 | | 1951 | 4.3 | 130 | | 2020 | 3.9 | 120 | | 2004 | 5.6 | 170 | | 2103 | 7.9 | 240 | | 2022 | 8.2 | 250 | 2022 | 8.2 | 250 |
| 6 W | 0150 | 20.7 | 630 | 21 Th | 0204 | 20.3 | 620 | 6 Sa | 0235 | 21.3 | 650 | 21 Su | 0217 | 19.7 | 600 | 6 Tu | 0321 | 18.0 | 550 | 21 W | 0232 | 17.7 | 540 | | | |
| | 0749 | 4.6 | 140 | | 0806 | 5.2 | 160 | | 0846 | 4.3 | 130 | | 0824 | 5.9 | 180 | | 0949 | 8.2 | 250 | | 0853 | 8.2 | 250 | | | |
| | 1402 | 21.0 | 640 | | 1415 | 19.7 | 600 | | 1457 | 19.0 | 580 | | 1433 | 17.7 | 540 | | 1601 | 14.8 | 450 | | 1500 | 15.4 | 470 | 1500 | 15.4 | 470 |
| | 2008 | 3.6 | 110 | | 2016 | 5.2 | 160 | | 2055 | 5.6 | 170 | | 2027 | 6.9 | 210 | | 2154 | 10.2 | 310 | | 2051 | 9.8 | 300 | 2051 | 9.8 | 300 |
| 7 Th | 0224 | 20.7 | 630 | 22 F | 0229 | 19.7 | 600 | 7 Su | 0311 | 20.0 | 610 | 22 M | 0241 | 18.7 | 570 | 7 W | 0426 | 15.7 | 480 | 22 Th | 0308 | 16.1 | 490 | | | |
| | 0829 | 4.9 | 150 | | 0834 | 6.2 | 190 | | 0928 | 6.2 | 190 | | 0853 | 7.2 | 220 | | 1201 | 10.2 | 310 | | 0947 | 10.2 | 310 | | | |
| | 1439 | 20.0 | 610 | | 1441 | 18.4 | 560 | | 1537 | 17.1 | 520 | | 1500 | 16.4 | 500 | | 1905 | 13.5 | 410 | | 1606 | 13.8 | 420 | 1606 | 13.8 | 420 |
| | 2043 | 4.9 | 150 | | 2041 | 6.2 | 190 | | 2133 | 7.5 | 230 | | 2051 | 8.5 | 260 | | 2051 | 8.5 | 260 | | 2152 | 11.8 | 360 | 2152 | 11.8 | 360 |
| 8 F | 0300 | 20.0 | 610 | 23 Sa | 0256 | 19.0 | 580 | 8 M | 0355 | 18.4 | 560 | 23 Tu | 0308 | 17.1 | 520 | 8 Th | 0100 | 11.5 | 350 | 23 F | 0458 | 14.4 | 440 | | | |
| | 0911 | 5.9 | 180 | | 0905 | 7.2 | 220 | | 1025 | 8.2 | 250 | | 0929 | 8.9 | 270 | | 0737 | 14.8 | 450 | | 1313 | 10.5 | 320 | | | |
| | 1520 | 18.7 | 570 | | 1511 | 17.4 | 530 | | 1634 | 15.1 | 460 | | 1534 | 14.8 | 450 | | 1435 | 9.5 | 290 | | 2025 | 14.1 | 430 | 2025 | 14.1 | 430 |
| | 2124 | 6.2 | 190 | | 2107 | 7.9 | 240 | | 2228 | 9.8 | 300 | | 2120 | 10.2 | 310 | | 2123 | 15.4 | 470 | | 2123 | 15.4 | 470 | | | |
| 9 Sa | 0343 | 19.4 | 590 | 24 Su | 0326 | 17.7 | 540 | 9 Tu | 0505 | 16.4 | 500 | 24 W | 0348 | 15.7 | 480 | 9 F | 0308 | 9.8 | 300 | 24 Sa | 0206 | 11.2 | 340 | | | |
| | 1001 | 6.9 | 210 | | 0941 | 8.5 | 260 | | 1218 | 9.2 | 280 | | 1052 | 10.5 | 320 | | 0922 | 16.7 | 510 | | 0821 | 15.4 | 470 | | | |
| | 1609 | 17.4 | 530 | | 1546 | 15.7 | 480 | | 1844 | 14.1 | 430 | | 1715 | 13.1 | 400 | | 1536 | 7.5 | 230 | | 1451 | 8.9 | 270 | 1451 | 8.9 | 270 |
| | 2211 | 7.9 | 240 | | 2138 | 9.2 | 280 | | | | | | 2235 | 11.8 | 360 | | 2202 | 17.4 | 530 | | 2122 | 16.4 | 500 | 2122 | 16.4 | 500 |
| 10 Su | 0437 | 18.4 | 560 | 25 M | 0406 | 16.4 | 500 | 10 W | 0049 | 10.8 | 330 | 25 Th | 0652 | 14.4 | 440 | 10 Sa | 0353 | 7.5 | 230 | 25 Su | 0315 | 8.9 | 270 | | | |
| | 1110 | 8.2 | 250 | | 1040 | 9.5 | 290 | | 0719 | 15.7 | 480 | | 1351 | 10.2 | 310 | | 1005 | 18.4 | 560 | | 0926 | 17.4 | 530 | | | |
| | 1719 | 15.7 | 480 | | 1642 | 14.1 | 430 | | 1424 | 8.9 | 270 | | 2105 | 14.1 | 430 | | 1611 | 5.9 | 180 | | 1536 | 6.9 | 210 | 1536 | 6.9 | 210 |
| | 2322 | 9.2 | 280 | | 2227 | 10.8 | 330 | | 2119 | 15.1 | 460 | | | | | | 2231 | 19.0 | 580 | | 2157 | 18.7 | 570 | 2157 | 18.7 | 570 |
| 11 M | 0555 | 17.4 | 530 | 26 Tu | 0525 | 15.4 | 470 | 11 Th | 0259 | 9.8 | 300 | 26 F | 0230 | 11.2 | 340 | 11 Su | 0426 | 5.9 | 180 | 26 M | 0355 | 6.2 | 190 | | | |
| | 1247 | 8.5 | 260 | | 1248 | 10.2 | 310 | | 0913 | 17.1 | 520 | | 0845 | 15.7 | 480 | | 1039 | 19.7 | 600 | | 1009 | 19.7 | 600 | | | |
| | 1905 | 15.1 | 460 | | 1923 | 13.8 | 420 | | 1544 | 7.2 | 220 | | 1525 | 8.2 | 250 | | 1642 | 4.6 | 140 | | 1611 | 4.9 | 150 | 1611 | 4.9 | 150 |
| | | | | | | | | | 2213 | 17.1 | 520 | | 2154 | 16.1 | 490 | | 2258 | 20.3 | 620 | | 2229 | 20.7 | 630 | 2229 | 20.7 | 630 |
| 12 Tu | 0108 | 9.8 | 300 | 27 W | 0110 | 11.5 | 350 | 12 F | 0400 | 8.2 | 250 | 27 Sa | 0340 | 9.2 | 280 | 12 M | 0457 | 4.3 | 130 | 27 Tu | 0431 | 3.9 | 120 | | | |
| | 0730 | 17.4 | 530 | | 0742 | 15.4 | 470 | | 1011 | 18.7 | 570 | | 0945 | 17.7 | 540 | | 1110 | 20.7 | 630 | | 1047 | 21.3 | 650 | | | |
| | 1420 | 7.9 | 240 | | 1423 | 9.2 | 280 | | 1627 | 5.6 | 170 | | 1606 | 6.2 | 190 | | 1711 | 3.6 | 110 | | 1646 | 3.0 | 90 | 1646 | 3.0 | 90 |
| | 2100 | 15.7 | 480 | | 2114 | 14.8 | 450 | | 2249 | 18.7 | 570 | | 2227 | 18.0 | 550 | | 2325 | 21.3 | 650 | | 2303 | 22.3 | 680 | 2303 | 22.3 | 680 |
| 13 W | 0243 | 9.5 | 290 | 28 Th | 0246 | 10.5 | 320 | 13 Sa | 0441 | 6.2 | 190 | 28 Su | 0419 | 6.9 | 210 | 13 Tu | 0526 | 3.3 | 100 | 28 W | 0506 | 2.0 | 60 | | | |
| | 0858 | 18.0 | 550 | | 0900 | 16.7 | 510 | | 1051 | 20.0 | 610 | | 1028 | 19.7 | 600 | | 1139 | 21.3 | 650 | | 1125 | 22.3 | 680 | | | |
| | 1537 | 6.6 | 200 | | 1540 | 7.9 | 240 | | 1702 | 4.3 | 130 | | 1639 | 4.3 | 130 | | 1738 | 3.0 | 90 | | 1720 | 2.0 | 60 | 1720 | 2.0 | 60 |
| | 2209 | 17.1 | 520 | | 2208 | 16.1 | 490 | | 2321 | 20.0 | 610 | | 2258 | 20.0 | 610 | | | | | | | | | | | |

Port Hedland, Australia, 2011

Times and Heights of High and Low Waters

| October | | | | November | | | | December | | | | | | | | | | | | | | | | | | | | | |
|-----------------|--------|------|------|----------|-----------------|------|--------|----------|------|-----------------|------|------|--------|----|-----------------|------|------|-----|--|-----------------|------|------|------|-----|-----------------|------|------|-----|--|
| Time | Height | | Time | Height | | Time | Height | | Time | Height | | Time | Height | | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | | | | | | |
| 1 Sa | 0042 | 24.0 | 730 | | 16 Su | 0033 | 21.7 | 660 | | 1 Tu | 0132 | 21.3 | 650 | | 16 W | 0109 | 20.7 | 630 | | 1 Th | 0205 | 20.0 | 610 | | 16 F | 0142 | 20.7 | 630 | |
| | 0651 | 0.7 | 20 | | | 0641 | 3.0 | 90 | | | 0749 | 4.3 | 130 | | | 0724 | 4.6 | 140 | | | 0820 | 5.2 | 160 | | | 0757 | 4.6 | 140 | |
| | 1309 | 21.7 | 660 | | | 1256 | 20.3 | 620 | | | 1404 | 19.0 | 580 | | | 1339 | 19.0 | 580 | | | 1436 | 19.0 | 580 | | | 1414 | 20.0 | 610 | |
| | 1901 | 3.0 | 90 | | | 1847 | 4.9 | 150 | | | 2001 | 6.9 | 210 | | | 1932 | 7.2 | 220 | | | 2041 | 7.9 | 240 | | | 2015 | 6.9 | 210 | |
| 2 Su | 0113 | 23.0 | 700 | | 17 M | 0056 | 21.3 | 650 | | 2 W | 0210 | 19.7 | 600 | | 17 Th | 0139 | 19.7 | 600 | | 2 F | 0244 | 18.7 | 570 | | 17 Sa | 0219 | 19.7 | 600 | |
| | 0725 | 2.0 | 60 | | | 0706 | 3.6 | 110 | | | 0829 | 6.2 | 190 | | | 0757 | 5.6 | 170 | | | 0900 | 6.9 | 210 | | | 0833 | 5.6 | 170 | |
| | 1341 | 20.3 | 620 | | | 1319 | 19.7 | 600 | | | 1445 | 17.7 | 540 | | | 1413 | 18.4 | 560 | | | 1517 | 18.0 | 550 | | | 1451 | 19.4 | 590 | |
| | 1934 | 4.3 | 130 | | | 1911 | 5.9 | 180 | | | 2046 | 8.5 | 260 | | | 2010 | 8.2 | 250 | | | 2128 | 9.2 | 280 | | | 2058 | 7.5 | 230 | |
| 3 M | 0146 | 21.7 | 660 | | 18 Tu | 0120 | 20.3 | 620 | | 3 Th | 0254 | 17.7 | 540 | | 18 F | 0215 | 18.7 | 570 | | 3 Sa | 0328 | 17.1 | 520 | | 18 Su | 0301 | 18.4 | 560 | |
| | 0801 | 3.9 | 120 | | | 0732 | 4.9 | 150 | | | 0917 | 8.2 | 250 | | | 0836 | 6.9 | 210 | | | 0944 | 8.5 | 260 | | | 0914 | 6.9 | 210 | |
| | 1413 | 19.0 | 580 | | | 1344 | 18.7 | 570 | | | 1536 | 16.4 | 500 | | | 1454 | 17.4 | 530 | | | 1607 | 17.1 | 520 | | | 1536 | 18.7 | 570 | |
| | 2008 | 6.2 | 190 | | | 1937 | 6.9 | 210 | | | 2151 | 10.2 | 310 | | | 2058 | 9.2 | 280 | | | 2233 | 10.2 | 310 | | | 2152 | 8.5 | 260 | |
| 4 Tu | 0221 | 19.7 | 600 | | 19 W | 0146 | 19.4 | 590 | | 4 F | 0351 | 15.7 | 480 | | 19 Sa | 0302 | 17.4 | 530 | | 4 Su | 0424 | 15.7 | 480 | | 19 M | 0354 | 17.4 | 530 | |
| | 0839 | 6.2 | 190 | | | 0802 | 6.2 | 190 | | | 1030 | 9.8 | 300 | | | 0928 | 8.2 | 250 | | | 1044 | 9.8 | 300 | | | 1004 | 8.2 | 250 | |
| | 1452 | 17.1 | 520 | | | 1413 | 17.4 | 530 | | | 1707 | 15.4 | 470 | | | 1554 | 16.7 | 510 | | | 1723 | 16.4 | 500 | | | 1634 | 18.0 | 550 | |
| | 2048 | 8.5 | 260 | | | 2007 | 8.5 | 260 | | | 2353 | 11.2 | 340 | | | 2213 | 10.2 | 310 | | | | | | | | 2306 | 9.2 | 280 | |
| 5 W | 0302 | 17.7 | 540 | | 20 Th | 0216 | 18.0 | 550 | | 5 Sa | 0552 | 14.8 | 450 | | 20 Su | 0416 | 16.1 | 490 | | 5 M | 0014 | 10.5 | 320 | | 20 Tu | 0510 | 16.1 | 490 | |
| | 0928 | 8.5 | 260 | | | 0838 | 7.5 | 230 | | | 1236 | 10.5 | 320 | | | 1044 | 9.5 | 290 | | | 0610 | 14.8 | 450 | | | 1115 | 9.5 | 290 | |
| | 1545 | 15.1 | 460 | | | 1451 | 16.1 | 490 | | | 1932 | 15.7 | 480 | | | 1732 | 16.4 | 500 | | | 1224 | 10.8 | 330 | | | 1755 | 17.7 | 540 | |
| | 2151 | 10.8 | 330 | | | 2046 | 9.8 | 300 | | | | | | | | | | | | | 1907 | 16.4 | 500 | | | | | | |
| 6 Th | 0406 | 15.4 | 470 | | 21 F | 0258 | 16.4 | 500 | | 6 Su | 0152 | 10.2 | 310 | | 21 M | 0010 | 10.2 | 310 | | 6 Tu | 0147 | 9.8 | 300 | | 21 W | 0045 | 8.9 | 270 | |
| | 1129 | 10.5 | 320 | | | 0933 | 9.5 | 290 | | | 0810 | 15.4 | 470 | | | 0619 | 15.4 | 470 | | | 0803 | 15.1 | 460 | | | 0656 | 15.4 | 470 | |
| | 1852 | 14.1 | 430 | | | 1601 | 14.8 | 450 | | | 1413 | 9.8 | 300 | | | 1235 | 9.8 | 300 | | | 1358 | 10.5 | 320 | | | 1257 | 9.8 | 300 | |
| | | | | | | 2216 | 11.5 | 350 | | | 2039 | 17.1 | 520 | | | 1911 | 17.4 | 530 | | | 2017 | 17.1 | 520 | | | 1923 | 18.4 | 560 | |
| 7 F | 0054 | 11.5 | 350 | | 22 Sa | 0431 | 14.8 | 450 | | 7 M | 0254 | 8.5 | 260 | | 22 Tu | 0142 | 8.9 | 270 | | 7 W | 0252 | 8.5 | 260 | | 22 Th | 0207 | 7.9 | 240 | |
| | 0727 | 14.8 | 450 | | | 1158 | 10.5 | 320 | | | 0911 | 16.4 | 500 | | | 0758 | 16.4 | 500 | | | 0913 | 16.1 | 490 | | | 0836 | 16.1 | 490 | |
| | 1403 | 9.8 | 300 | | | 1906 | 15.1 | 460 | | | 1505 | 8.5 | 260 | | | 1358 | 8.9 | 270 | | | 1500 | 9.8 | 300 | | | 1421 | 9.2 | 280 | |
| | 2051 | 15.7 | 480 | | | | | | | | 2118 | 18.4 | 560 | | | 2017 | 18.7 | 570 | | | 2108 | 18.0 | 550 | | | 2039 | 19.0 | 580 | |
| 8 Sa | 0247 | 9.8 | 300 | | 23 Su | 0117 | 10.8 | 330 | | 8 Tu | 0333 | 7.2 | 220 | | 23 W | 0246 | 6.6 | 200 | | 8 Th | 0336 | 7.2 | 220 | | 23 F | 0317 | 6.2 | 190 | |
| | 0905 | 16.1 | 490 | | | 0732 | 15.4 | 470 | | | 0950 | 17.7 | 540 | | | 0909 | 17.7 | 540 | | | 0957 | 17.1 | 520 | | | 0950 | 17.4 | 530 | |
| | 1507 | 8.5 | 260 | | | 1352 | 9.5 | 290 | | | 1542 | 7.5 | 230 | | | 1459 | 7.5 | 230 | | | 1543 | 8.9 | 270 | | | 1531 | 8.2 | 250 | |
| | 2131 | 17.4 | 530 | | | 2026 | 16.7 | 510 | | | 2151 | 19.4 | 590 | | | 2112 | 20.3 | 620 | | | 2149 | 19.0 | 580 | | | 2143 | 20.3 | 620 | |
| 9 Su | 0331 | 7.9 | 240 | | 24 M | 0235 | 8.9 | 270 | | 9 W | 0405 | 5.6 | 170 | | 24 Th | 0337 | 4.9 | 150 | | 9 F | 0413 | 6.2 | 190 | | 24 Sa | 0412 | 4.9 | 150 | |
| | 0945 | 17.7 | 540 | | | 0851 | 17.1 | 520 | | | 1021 | 18.7 | 570 | | | 1002 | 19.0 | 580 | | | 1033 | 18.0 | 550 | | | 1042 | 19.0 | 580 | |
| | 1544 | 6.9 | 210 | | | 1453 | 7.5 | 230 | | | 1613 | 6.6 | 200 | | | 1549 | 6.2 | 190 | | | 1619 | 7.9 | 240 | | | 1625 | 6.9 | 210 | |
| | 2201 | 19.0 | 580 | | | 2113 | 18.7 | 570 | | | 2221 | 20.3 | 620 | | | 2201 | 21.7 | 660 | | | 2225 | 20.0 | 610 | | | 2237 | 21.3 | 650 | |
| 10 M | 0404 | 5.9 | 180 | | 25 Tu | 0324 | 6.2 | 190 | | 10 Th | 0435 | 4.6 | 140 | | 25 F | 0422 | 3.3 | 100 | | 10 Sa | 0445 | 4.9 | 150 | | 25 Su | 0459 | 3.6 | 110 | |
| | 1017 | 19.0 | 580 | | | 0942 | 19.0 | 580 | | | 1051 | 19.7 | 600 | | | 1047 | 20.3 | 620 | | | 1106 | 19.0 | 580 | | | 1125 | 20.0 | 610 | |
| | 1615 | 5.6 | 170 | | | 1538 | 5.9 | 180 | | | 1642 | 5.9 | 180 | | | 1634 | 5.2 | 160 | | | 1652 | 7.2 | 220 | | | 1713 | 5.9 | 180 | |
| | 2228 | 20.3 | 620 | | | 2152 | 20.7 | 630 | | | 2251 | 21.0 | 640 | | | 2246 | 22.6 | 690 | | | 2258 | 20.7 | 630 | | | 2324 | 22.3 | 680 | |
| 11 Tu | 0432 | 4.6 | 140 | | 26 W | 0404 | 3.9 | 120 | | 11 F | 0503 | 3.6 | 110 | | 26 Sa | 0505 | 2.0 | 60 | | 11 Su | 0517 | 4.3 | 130 | | 26 M | 0541 | 2.6 | 80 | |
| | 1047 | 20.0 | 610 | | | 1024 | 20.7 | 630 | | | 1121 | 20.0 | 610 | | | 1129 | 21.0 | 640 | | | 1137 | 19.7 | 600 | | | 1205 | 20.7 | 630 | |
| | 1643 | 4.9 | 150 | | | 1617 | 4.3 | 130 | | | 1710 | 5.6 | 170 | | | 1717 | 4.6 | 140 | | | 1724 | 6.6 | 200 | | | 1755 | 4.9 | 150 | |
| | 2254 | 21.0 | 640 | | | 2230 | 22.3 | 680 | | | 2319 | 21.7 | 660 | | | 2329 | 23.0 | 700 | | | 2332 | 21.3 | 650 | | | | | | |
| 12 W | 0501 | 3.6 | 110 | | 27 Th | 0442 | 2.0 | 60 | | 12 Sa | 0531 | 3.3 | 100 | | 27 Su | 0546 | 1.6 | 50 | | 12 M | 0548 | 3.6 | 110 | | 27 Tu | 0006 | 22.3 | 680 | |
| | 1115 | 20.7 | 630 | | | 1104 | 21.7 | 660 | | | 1149 | 20.3 | 620 | | | 1209 | 21.0 | 640 | | | 1207 | 20.0 | 610 | | | 0620 | 2.3 | 70 | |
| | 1710 | 4.3 | 130 | | | 1655 | 3.3 | 100 | | | 1737 | 5.2 | 160 | | | 1758 | 4.6 | 140 | | | 1755 | 5.9 | 180 | | | 1242 | 21.3 | 650 | |
| | 2321 | 21.7 | 660 | | | 2308 | 23.3 | 710 | | | 2346 | 21.7 | 660 | | | | | | | | | | 1834 | 4.6 | | 140 | | | |
| 13 Th | 0527 | 3.0 | 90 | | 28 F | 0520 | 1.0 | 30 | | 13 Su | 0558 | 3.3 | 100 | | 28 M | 0009 | 23.0 | 700 | | 13 Tu | 0045 | 22.3 | 680 | | 28 W | 0045 | 22.3 | 680 | |
| | 1142 | 21.0 | 640 | | | 1142 | 22.0 | 670 | | | 1217 | 20.3 | 620 | | | 0626 | 2.0 | 60 | | | 0619 | 3.6 | 110 | | | 0657 | 2.6 | 80 | |
| | 1736 | 3.9 | 120 | | | 1732 | 3.0 | 90 | | | 1804 | 5.2 | 160 | | | 1247 | 21.0 | 640 | | | 1238 | 20.3 | 620 | | | 1316 | 21.3 | 650 | |
| | 2346 | 22.0 | 670 | | | | | | | | | | | | | | | | | | | | | | | | | | |

Mergui, Burma, 2011

Times and Heights of High and Low Waters

| January | | | | February | | | | March | | | | | | | | | | | | | | | |
|-----------------|--------|------|------------------|-----------------|--------|----------------|--------|-----------------|----------------|--------|------|-----------------|--------|----------------|--------|-----------------|--------|------|------|-----------------|--------|------|-----|
| Time | Height | | Time | Height | | Time | Height | | Time | Height | | Time | Height | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | |
| 1 Sa | 0204 | 4.0 | 121 | | | 1 Tu | 0400 | 2.1 | 64 | | | 1 Tu | 0305 | 3.8 | 116 | | | | | | | | |
| | 0806 | 12.6 | 384 | 16 Su | 0152 | | 4.9 | 150 | 16 W | 0331 | 2.2 | | 66 | 16 W | 0211 | 4.4 | 134 | | | | | | |
| | 1426 | 3.7 | 114 | | 0754 | | 11.4 | 347 | | 0932 | 14.0 | | 428 | | 0815 | 12.4 | 377 | | | | | | |
| | 2036 | 15.0 | 458 | | 1402 | | 4.5 | 137 | | 1543 | 1.8 | | 55 | | 1429 | 4.1 | 126 | | | | | | |
| | | | 2023 | | 13.6 | 415 | 2149 | 16.2 | | 494 | 2118 | 14.2 | 433 | | 2034 | 14.2 | 433 | | | | | | |
| 2 Su | 0307 | 2.8 | 86 | 17 M | 0253 | 3.5 | 108 | 2 W | 0440 | 1.0 | 30 | 17 Th | 0417 | 0.2 | 7 | 2 W | 0345 | 2.4 | 72 | 17 Th | 0307 | 2.2 | 68 |
| | 0910 | 13.5 | 412 | | 0854 | 12.7 | 386 | | 1038 | 14.9 | 454 | | 1017 | 15.9 | 486 | | 0946 | 13.9 | 424 | | 0908 | 14.6 | 446 |
| | 1525 | 2.8 | 84 | | 1503 | 3.2 | 97 | | 1649 | 1.1 | 34 | | 1628 | 0.0 | 1 | | 1556 | 2.3 | 70 | | 1522 | 2.0 | 60 |
| | 2131 | 15.9 | 486 | | 2115 | 15.0 | 458 | | 2248 | 16.6 | 507 | | 2231 | 17.7 | 541 | | 2153 | 15.4 | 469 | | 2124 | 16.2 | 493 |
| 3 M | 0402 | 1.8 | 55 | 18 Tu | 0345 | 2.1 | 63 | 3 Th | 0512 | 0.3 | 8 | 18 F | 0458 | -1.4 | -44 | 3 Th | 0417 | 1.2 | 38 | 18 F | 0352 | 0.2 | 5 |
| | 1003 | 14.4 | 439 | | 0946 | 14.1 | 429 | | 1111 | 15.6 | 475 | | 1057 | 17.6 | 535 | | 1017 | 15.1 | 459 | | 0952 | 16.7 | 510 |
| | 1616 | 1.9 | 57 | | 1555 | 1.8 | 54 | | 1722 | 0.6 | 18 | | 1711 | -1.3 | -41 | | 1628 | 1.3 | 40 | | 1609 | 0.1 | 2 |
| | 2219 | 16.7 | 508 | | 2203 | 16.4 | 500 | | ● 2319 | 17.0 | 517 | | ○ 2311 | 18.8 | 573 | | 2224 | 16.2 | 494 | | 2207 | 17.7 | 541 |
| 4 Tu | 0448 | 1.0 | 31 | 19 W | 0431 | 0.6 | 19 | 4 F | 0540 | -0.1 | -3 | 19 Sa | 0534 | -2.6 | -78 | 4 F | 0447 | 0.5 | 14 | 19 Sa | 0433 | -1.5 | -45 |
| | 1048 | 15.1 | 459 | | 1031 | 15.5 | 471 | | 1137 | 15.9 | 486 | | 1134 | 18.6 | 566 | | 1044 | 15.9 | 484 | | 1033 | 18.4 | 561 |
| | 1659 | 1.3 | 39 | | 1642 | 0.5 | 15 | | 1749 | 0.4 | 12 | | 1749 | -2.1 | -64 | | 1658 | 0.6 | 19 | | 1649 | -1.4 | -43 |
| | ● 2301 | 17.1 | 520 | | 2247 | 17.6 | 536 | | 2344 | 17.0 | 519 | | 2347 | 19.2 | 584 | | 2252 | 16.7 | 510 | | 2248 | 18.8 | 572 |
| 5 W | 0527 | 0.6 | 17 | 20 Th | 0515 | -0.7 | -20 | 5 Sa | 0604 | -0.2 | -7 | 20 Su | 0610 | -3.0 | -90 | 5 Sa | 0512 | -0.1 | -3 | 20 Su | 0511 | -2.5 | -77 |
| | 1126 | 15.5 | 471 | | 1113 | 16.6 | 506 | | 1201 | 16.1 | 492 | | 1208 | 18.9 | 577 | | 1109 | 16.5 | 502 | | 1111 | 19.4 | 591 |
| | 1736 | 1.0 | 32 | | 1725 | -0.5 | -16 | | 1812 | 0.4 | 13 | | 1824 | -2.1 | -65 | | 1723 | 0.2 | 6 | | 1727 | -2.2 | -66 |
| | 2336 | 17.1 | 521 | | ○ 2327 | 18.4 | 560 | | | | | | | | | | ● 2319 | 17.0 | 517 | | ○ 2326 | 19.1 | 581 |
| 6 Th | 0601 | 0.4 | 13 | 21 F | 0554 | -1.5 | -47 | 6 Su | 0008 | 16.9 | 514 | 21 M | 0021 | 18.8 | 574 | 6 Su | 0536 | -0.4 | -13 | 21 M | 0546 | -2.8 | -85 |
| | 1158 | 15.5 | 473 | | 1153 | 17.4 | 530 | | 0627 | -0.2 | -6 | | 0642 | -2.6 | -78 | | 1133 | 16.8 | 513 | | 1146 | 19.6 | 598 |
| | 1807 | 1.1 | 35 | | 1804 | -1.0 | -31 | | 1222 | 16.1 | 492 | | 1241 | 18.6 | 567 | | 1749 | 0.0 | -1 | | 1804 | -2.2 | -66 |
| | | | | | | | | | 1835 | 0.6 | 19 | | 1857 | -1.5 | -45 | | 2343 | 17.0 | 518 | | | | |
| 7 F | 0005 | 16.9 | 514 | 22 Sa | 0004 | 18.6 | 568 | 7 M | 0029 | 16.5 | 502 | 22 Tu | 0052 | 17.8 | 543 | 7 M | 0558 | -0.6 | -17 | 22 Tu | 0001 | 18.6 | 568 |
| | 0628 | 0.6 | 18 | | 0629 | -1.9 | -57 | | 0646 | 0.0 | 1 | | 0712 | -1.5 | -45 | | 1156 | 17.0 | 517 | | 0619 | -2.3 | -69 |
| | 1225 | 15.4 | 469 | | 1228 | 17.7 | 538 | | 1242 | 15.9 | 486 | | 1310 | 17.7 | 538 | | 1812 | 0.0 | 0 | | 1218 | 19.1 | 583 |
| | 1834 | 1.5 | 46 | | 1841 | -1.0 | -30 | | 1857 | 1.0 | 32 | | 1928 | -0.2 | -6 | | | | | | 1838 | -1.4 | -43 |
| 8 Sa | 0031 | 16.4 | 501 | 23 Su | 0039 | 18.3 | 558 | 8 Tu | 0052 | 15.8 | 482 | 23 W | 0121 | 16.3 | 498 | 8 Tu | 0007 | 16.7 | 509 | 23 W | 0034 | 17.6 | 535 |
| | 0652 | 0.9 | 28 | | 0703 | -1.6 | -48 | | 0707 | 0.5 | 16 | | 0740 | 0.1 | 2 | | 0621 | -0.4 | -12 | | 0650 | -1.0 | -32 |
| | 1248 | 15.1 | 460 | | 1302 | 17.4 | 531 | | 1303 | 15.5 | 472 | | 1340 | 16.2 | 495 | | 1218 | 16.8 | 513 | | 1249 | 18.0 | 548 |
| | 1857 | 2.0 | 61 | | 1914 | -0.4 | -11 | | 1920 | 1.7 | 53 | | 1959 | 1.5 | 45 | | 1836 | 0.4 | 11 | | 1910 | 0.0 | -1 |
| 9 Su | 0053 | 15.8 | 482 | 24 M | 0110 | 17.5 | 532 | 9 W | 0114 | 14.9 | 454 | 24 Th | 0149 | 14.5 | 443 | 9 W | 0031 | 16.1 | 491 | 24 Th | 0103 | 16.0 | 489 |
| | 0713 | 1.4 | 42 | | 0734 | -0.7 | -22 | | 0730 | 1.3 | 40 | | 0805 | 1.9 | 59 | | 0643 | 0.1 | 2 | | 0719 | 0.6 | 19 |
| | 1309 | 14.7 | 449 | | 1334 | 16.7 | 509 | | 1327 | 14.7 | 449 | | 1411 | 14.5 | 442 | | 1239 | 16.3 | 498 | | 1319 | 16.4 | 500 |
| | 1920 | 2.6 | 80 | | 1948 | 0.7 | 22 | | 1947 | 2.7 | 83 | | 2032 | 3.4 | 103 | | 1900 | 1.0 | 32 | | 1941 | 1.7 | 53 |
| 10 M | 0116 | 15.1 | 459 | 25 Tu | 0142 | 16.2 | 493 | 10 Th | 0141 | 13.7 | 418 | 25 F | 0222 | 12.5 | 382 | 10 Th | 0053 | 15.3 | 465 | 25 F | 0134 | 14.2 | 434 |
| | 0734 | 1.9 | 59 | | 0804 | 0.5 | 16 | | 0755 | 2.4 | 73 | | 0834 | 4.0 | 121 | | 0706 | 0.9 | 27 | | 0745 | 2.6 | 78 |
| | 1333 | 14.2 | 433 | | 1406 | 15.6 | 477 | | 1357 | 13.7 | 419 | | 1451 | 12.6 | 383 | | 1302 | 15.6 | 475 | | 1349 | 14.5 | 442 |
| | 1945 | 3.4 | 103 | | 2022 | 2.1 | 64 | | 2018 | 3.9 | 120 | | ● 2122 | 5.3 | 163 | | 1924 | 2.1 | 63 | | 2015 | 3.7 | 112 |
| 11 Tu | 0142 | 14.1 | 430 | 26 W | 0215 | 14.6 | 445 | 11 F | 0213 | 12.3 | 376 | 26 Sa | 0314 | 10.5 | 320 | 11 F | 0117 | 14.1 | 431 | 26 Sa | 0206 | 12.3 | 374 |
| | 0759 | 2.7 | 82 | | 0834 | 2.1 | 63 | | 0826 | 3.7 | 112 | | 0922 | 6.0 | 183 | | 0730 | 2.0 | 61 | | 0813 | 4.6 | 140 |
| | 1402 | 13.5 | 412 | | 1443 | 14.3 | 436 | | 1434 | 12.5 | 381 | | 1649 | 10.9 | 332 | | 1327 | 14.5 | 443 | | 1430 | 12.5 | 382 |
| | 2016 | 4.3 | 131 | | ● 2103 | 3.7 | 112 | | ● 2101 | 5.3 | 162 | | 2344 | 6.5 | 199 | | 1951 | 3.3 | 102 | | ● 2104 | 5.6 | 171 |
| 12 W | 0215 | 13.0 | 395 | 27 Th | 0254 | 12.8 | 391 | 12 Sa | 0300 | 10.9 | 332 | 27 Su | 0610 | 9.5 | 289 | 12 Sa | 0145 | 12.8 | 391 | 27 Su | 0304 | 10.4 | 317 |
| | 0830 | 3.6 | 111 | | 0912 | 3.8 | 115 | | 0911 | 5.1 | 155 | | 1241 | 6.8 | 207 | | 0757 | 3.3 | 102 | | 0900 | 6.6 | 201 |
| | 1440 | 12.7 | 386 | | 1536 | 12.8 | 391 | | 1539 | 11.3 | 343 | | 1910 | 11.3 | 343 | | 1359 | 13.3 | 404 | | 1624 | 10.9 | 332 |
| | ● 2100 | 5.3 | 163 | | 2204 | 5.2 | 158 | | 2245 | 6.5 | 197 | | | | | | 2027 | 4.8 | 145 | | 2319 | 6.8 | 206 |
| 13 Th | 0300 | 11.7 | 356 | 28 F | 0359 | 11.1 | 337 | 13 Su | 0449 | 9.7 | 296 | 28 M | 0202 | 5.5 | 168 | 13 Su | 0225 | 11.4 | 347 | 28 M | 0553 | 9.7 | 295 |
| | 0915 | 4.7 | 144 | | 1019 | 5.4 | 164 | | 1106 | 6.2 | 189 | | 0816 | 10.7 | 327 | | 0834 | 4.9 | 149 | | 1221 | 7.3 | 223 |
| | 1538 | 11.8 | 359 | | 1727 | 11.8 | 360 | | 1831 | 11.1 | 339 | | 1429 | 5.3 | 161 | | 1451 | 11.8 | 360 | | 1841 | 11.1 | 337 |
| | 2217 | 6.2 | 190 | | | | | | | | 2030 | | 12.7 | 387 | ● 2134 | | 6.2 | 189 | | | | | |
| 14 F | 0413 | 10.6 | 322 | 29 Sa | 0008 | 5.8 | 178 | 14 M | 0120 | 5.8 | 176 | 14 M | 0349 | 10.0 | 305 | 14 M | 0349 | 10.0 | 305 | 29 Tu | 0135 | 5.9 | 180 |
| | 1030 | 5.6 | 172 | | 0619 | 10.3 | 313 | | 0723 | 10.4 | 317 | | 0956 | 6.4 | 194 | | 0956 | 6.4 | 194 | | 0755 | 10.9 | 333 |
| | 1747 | 11.5 | 349 | | 1248 | 5.8 | 178 | | 1334 | 5.4 | 165 | | 1722 | 11.0 | 335 | | 1722 | 11.0 | 335 | | 1406 | 5.9 | 180 |
| | | | | | 1919 | 12.2 | 373 | | 1959 | 12.5 | 382 | | | | | | | | 2001 | | 12.3 | 376 | |
| 15 Sa | 0036 | 6.0 | 184 | 30 Su | 0158 | 5.0 | 152 | 15 Tu | 0236 | 4.1 | 125 | 15 Tu | 0039 | 6.2 | 188 | 15 Tu | 0039 | 6.2 | 188 | 30 W | 0234 | 4.4 | 135 |
| | 0632 | 10.5 | 319 | | 0808 | 11.1 | 339 | | 0837 | 12.1 | 368 | | 0649 | 10.4 | 317 | | 0649 | 10.4 | 317 | | 0843 | 12.5 | 382 |
| | 1245 | 5.5 | 169 | | 1425 | 4.8 | 145 | | 1449 | 3.7 | 113 | | 1304 | 6.0 | 184 | | 1304 | 6.0 | 184 | | 1451 | 4.4 | 134 |
| | 1921 | 12.3 | 376 | | 2034 | 13.5 | 410 | | 2100 | 14.4 | 438 | | 1927 | 12.2 | 373 | | | | | | 2047 | 13.7 | 417 |
| | | | 31 M</ | | | | | | | | | | | | | | | | | | | | |

Mergui, Burma, 2011

Times and Heights of High and Low Waters

| July | | | | August | | | | September | | | | | | | | | | | | |
|-----------------|--------|------|------|--------|-----------------|------|--------|-----------|------|----------------|-----------------|----------------|----------------|-----------------|-----------------|-----------------|-----------------|------|------|-----|
| Time | Height | | Time | Height | | Time | Height | | Time | Height | | Time | Height | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | |
| 1 F | 0434 | 2.0 | 62 | | 16 Sa | 0523 | 1.6 | 48 | | 1 M | 0543 | 0.2 | 7 | | | | | | | |
| | 1041 | 17.7 | 538 | | | 1123 | 18.3 | 558 | | | 1144 | 19.4 | 591 | | | | | | | |
| | 1708 | 1.6 | 50 | | | 1749 | 1.1 | 35 | | | 1810 | -0.4 | -13 | | | | | | | |
| ● | 2306 | 16.4 | 500 | | | 2346 | 16.7 | 510 | | | 16 Tu | 0601 | 1.5 | 45 | | | | | | |
| | | | | | | | | | | | | 1156 | 18.0 | 548 | | | | | | |
| | | | | | | | | | | | | 1814 | 1.1 | 35 | | | | | | |
| | | | | | | | | | | | | 1 Th | 0017 | 19.6 | 596 | | | | | |
| | | | | | | | | | | | | | 0635 | -0.3 | -9 | | | | | |
| | | | | | | | | | | | | | 1231 | 19.0 | 578 | | | | | |
| | | | | | | | | | | | | | 1850 | -0.2 | -7 | | | | | |
| | | | | | | | | | | | | | 16 F | 0000 | 17.5 | 534 | | | | |
| | | | | | | | | | | | | | | 0619 | 1.8 | 54 | | | | |
| | | | | | | | | | | | | | | 1214 | 16.9 | 514 | | | | |
| | | | | | | | | | | | | | | 1827 | 1.7 | 51 | | | | |
| | | | | | | | | | | | | | | 17 Sa | 0021 | 17.0 | 518 | | | |
| | | | | | | | | | | | | | | | 0642 | 2.5 | 75 | | | |
| | | | | | | | | | | | | | | | 1236 | 16.0 | 488 | | | |
| | | | | | | | | | | | | | | | 1849 | 2.5 | 75 | | | |
| 2 Sa | 0516 | 1.4 | 43 | | 17 Su | 0558 | 1.5 | 47 | | 2 Tu | 0007 | 18.5 | 564 | | 2 F | 0048 | 18.7 | 571 | | |
| | 1122 | 18.2 | 555 | | | 1157 | 18.2 | 554 | | | 0619 | 0.1 | 3 | | | 0707 | 0.8 | 24 | | |
| | 1747 | 1.0 | 31 | | | 1821 | 1.2 | 38 | | | 1218 | 19.3 | 589 | | | 1300 | 17.7 | 538 | | |
| | 2346 | 16.9 | 515 | | | | | | | | 1843 | -0.4 | -11 | | | 1920 | 1.1 | 35 | | |
| | | | | | | | | | | | | | | | | 17 Sa | 0021 | 17.0 | 518 | |
| | | | | | | | | | | | | | | | | | 0642 | 2.5 | 75 | |
| | | | | | | | | | | | | | | | | | 1236 | 16.0 | 488 | |
| | | | | | | | | | | | | | | | | | 1849 | 2.5 | 75 | |
| 3 Su | 0556 | 1.1 | 33 | | 18 M | 0015 | 16.6 | 507 | | 3 W | 0041 | 18.4 | 562 | | 3 Sa | 0119 | 17.5 | 532 | | |
| | 1158 | 18.4 | 562 | | | 0628 | 1.9 | 58 | | | 0655 | 0.5 | 15 | | | 0740 | 2.3 | 71 | | |
| | 1825 | 0.8 | 23 | | | 1225 | 17.7 | 540 | | | 1252 | 18.7 | 570 | | | 1331 | 16.0 | 487 | | |
| | | | | | | 1846 | 1.6 | 49 | | | 1914 | 0.3 | 8 | | | 1949 | 2.9 | 88 | | |
| | | | | | | | | | | | | | | | | 18 Su | 0042 | 16.2 | 494 | |
| | | | | | | | | | | | | | | | | | 0707 | 3.4 | 104 | |
| | | | | | | | | | | | | | | | | | 1300 | 14.9 | 454 | |
| | | | | | | | | | | | | | | | | | 1913 | 3.5 | 107 | |
| 4 M | 0022 | 17.1 | 521 | | 19 Tu | 0041 | 16.3 | 498 | | 4 Th | 0112 | 17.9 | 546 | | 4 Su | 0151 | 15.8 | 482 | | |
| | 0632 | 1.2 | 36 | | | 0653 | 2.5 | 76 | | | 0727 | 1.4 | 42 | | | 0813 | 4.1 | 126 | | |
| | 1234 | 18.3 | 558 | | | 1249 | 17.1 | 520 | | | 1323 | 17.6 | 537 | | | 1406 | 14.1 | 430 | | |
| | 1900 | 0.9 | 27 | | | 1907 | 2.2 | 66 | | | 1945 | 1.3 | 41 | | | 2022 | 4.8 | 147 | | |
| | | | | | | | | | | | | | | | | 19 M | 0107 | 15.1 | 461 | |
| | | | | | | | | | | | | | | | | | 0734 | 4.6 | 141 | |
| | | | | | | | | | | | | | | | | | 1328 | 13.6 | 415 | |
| | | | | | | | | | | | | | | | | | 1941 | 4.8 | 146 | |
| 5 Tu | 0057 | 17.0 | 517 | | 20 W | 0103 | 15.9 | 484 | | 5 F | 0144 | 17.0 | 518 | | 5 M | 0233 | 14.0 | 426 | | |
| | 0709 | 1.6 | 50 | | | 0716 | 3.2 | 97 | | | 0801 | 2.6 | 80 | | | 0903 | 6.0 | 184 | | |
| | 1307 | 17.8 | 542 | | | 1312 | 16.2 | 495 | | | 1354 | 16.2 | 495 | | | 1500 | 12.1 | 370 | | |
| | 1934 | 1.4 | 42 | | | 1928 | 2.8 | 85 | | | 2015 | 2.7 | 83 | | ● | 2114 | 6.8 | 207 | | |
| | | | | | | | | | | | | | | | | 20 Tu | 0140 | 13.8 | 422 | |
| | | | | | | | | | | | | | | | | | 0808 | 6.0 | 184 | |
| | | | | | | | | | | | | | | | | | 1408 | 12.2 | 372 | |
| | | | | | | | | | | | | | | | | | 2019 | 6.3 | 191 | |
| 6 W | 0133 | 16.5 | 504 | | 21 Th | 0124 | 15.3 | 467 | | 6 Sa | 0219 | 15.8 | 481 | | 6 Tu | 0416 | 12.3 | 376 | | |
| | 0744 | 2.5 | 75 | | | 0738 | 4.0 | 122 | | | 0837 | 4.1 | 125 | | | 1104 | 7.3 | 224 | | |
| | 1341 | 16.9 | 516 | | | 1334 | 15.3 | 467 | | ● | 1432 | 14.6 | 446 | | | 1733 | 11.1 | 338 | | |
| | 2008 | 2.2 | 66 | | | 1951 | 3.5 | 108 | | | 2051 | 4.3 | 132 | | | | | | | |
| | | | | | | | | | | | | | | | | 21 W | 0230 | 12.4 | 379 | |
| | | | | | | | | | | | | | | | | | 0915 | 7.4 | 225 | |
| | | | | | | | | | | | | | | | | | 1538 | 11.0 | 334 | |
| | | | | | | | | | | | | | | | | | 2146 | 7.6 | 231 | |
| 7 Th | 0209 | 15.9 | 485 | | 22 F | 0149 | 14.6 | 445 | | 7 Su | 0305 | 14.4 | 438 | | 7 W | 0001 | 7.6 | 231 | | |
| | 0822 | 3.4 | 105 | | | 0805 | 4.9 | 150 | | | 0929 | 5.6 | 172 | | | 0636 | 12.6 | 383 | | |
| | 1419 | 15.9 | 484 | | | 1404 | 14.2 | 433 | | | 1527 | 12.9 | 394 | | | 1319 | 6.5 | 199 | | |
| | 2043 | 3.1 | 96 | | | 2019 | 4.5 | 136 | | | 2145 | 5.9 | 181 | | ● | 1933 | 12.1 | 370 | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | 22 Th | 0515 | 11.7 | 358 |
| | | | | | | | | | | | | | | | | | | 1218 | 7.3 | 221 |
| | | | | | | | | | | | | | | | | | | 1831 | 11.5 | 352 |
| 8 F | 0251 | 15.2 | 462 | | 23 Sa | 0223 | 13.7 | 418 | | 8 M | 0434 | 13.2 | 401 | | 8 Th | 0152 | 6.2 | 189 | | |
| | 0905 | 4.5 | 138 | | | 0842 | 6.0 | 182 | | | 1111 | 6.7 | 205 | | | 0758 | 14.0 | 427 | | |
| | 1504 | 14.7 | 448 | | | 1443 | 13.0 | 395 | | | 1723 | 11.8 | 359 | | | 1430 | 4.9 | 149 | | |
| ○ | 2128 | 4.2 | 129 | | ● | 2057 | 5.5 | 169 | | | 2356 | 6.8 | 207 | | | 2037 | 13.8 | 422 | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | 23 F | 0043 | 7.0 | 214 |
| | | | | | | | | | | | | | | | | | | 0704 | 13.1 | 399 |
| | | | | | | | | | | | | | | | | | | 1342 | 5.6 | 170 |
| | | | | | | | | | | | | | | | | | | 1947 | 13.4 | 408 |
| 9 Sa | 0348 | 14.4 | 439 | | 24 Su | 0312 | 12.8 | 389 | | 9 Tu | 0636 | 13.2 | 403 | | 9 F | 0250 | 4.5 | 136 | | |
| | 1006 | 5.5 | 168 | | | 0942 | 7.0 | 214 | | | 1312 | 6.3 | 192 | | | 0850 | 15.6 | 474 | | |
| | 1606 | 13.5 | 412 | | | 1545 | 11.8 | 360 | | | 1923 | 12.2 | 373 | | | 1515 | 3.3 | 102 | | |
| | 2233 | 5.2 | 159 | | | 2200 | 6.6 | 200 | | | 2040 | 13.6 | 415 | | | 2118 | 15.4 | 469 | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | 24 Sa | 0159 | 5.2 | 157 |
| | | | | | | | | | | | | | | | | | | 0806 | 15.0 | 456 |
| | | | | | | | | | | | | | | | | | | 1436 | 3.6 | 109 |
| | | | | | | | | | | | | | | | | | | 2039 | 15.5 | 472 |
| 10 Su | 0512 | 13.9 | 425 | | 25 M | 0508 | 12.1 | 370 | | 10 W | 0145 | 5.9 | 181 | | 10 Sa | 0331 | 3.1 | 93 | | |
| | 1140 | 6.0 | 182 | | | 1158 | 7.3 | 222 | | | 0801 | 14.4 | 439 | | | 0929 | 16.8 | 511 | | |
| | 1743 | 12.9 | 392 | | | 1800 | 11.4 | 348 | | | 1434 | 4.9 | 149 | | | 1552 | 2.2 | 68 | | |
| | | | | | | | | | | | | | | | | | | | | |

Mergui, Burma, 2011

Times and Heights of High and Low Waters

| October | | | | November | | | | December | | | | | | | | | | | | | | | |
|-----------------|--------|------|------|-----------------|--------|------|-----|-----------------|--------|------|-----|-----------------|--------|------|------|-----------------|------|------|-----|-----------------|------|------|-----|
| Time | Height | | | Time | Height | | | Time | Height | | | Time | Height | | | | | | | | | | |
| | h | m | ft | | h | m | ft | | h | m | ft | | h | m | ft | h | m | ft | | | | | |
| 1 Sa | 0027 | 19.0 | 578 | 16 Su | 0000 | 17.2 | 525 | 1 Tu | 0126 | 15.5 | 473 | 16 W | 0048 | 15.7 | 480 | 1 Th | 0157 | 14.4 | 439 | 16 F | 0124 | 15.6 | 474 |
| | 0649 | 0.7 | 21 | | 0625 | 2.1 | 64 | | 0754 | 3.8 | 117 | | 0720 | 3.2 | 98 | | 0822 | 4.0 | 121 | | 0754 | 2.3 | 71 |
| | 1243 | 17.2 | 523 | | 1219 | 15.8 | 482 | | 1355 | 13.4 | 409 | | 1317 | 14.0 | 428 | | 1427 | 12.9 | 392 | | 1357 | 14.4 | 438 |
| | 1900 | 1.5 | 45 | | 1831 | 2.4 | 72 | | 2002 | 5.3 | 161 | | 1924 | 4.0 | 123 | | 2034 | 5.6 | 171 | | 2006 | 3.6 | 111 |
| 2 Su | 0059 | 17.4 | 531 | 17 M | 0025 | 16.4 | 501 | 2 W | 0212 | 13.7 | 419 | 17 Th | 0123 | 14.7 | 449 | 2 F | 0239 | 13.0 | 396 | 17 Sa | 0204 | 14.6 | 445 |
| | 0723 | 2.3 | 71 | | 0652 | 3.0 | 92 | | 0844 | 5.4 | 166 | | 0758 | 4.2 | 127 | | 0905 | 5.1 | 156 | | 0833 | 3.1 | 96 |
| | 1316 | 15.4 | 470 | | 1246 | 14.8 | 452 | | 1457 | 12.0 | 366 | | 1401 | 13.2 | 401 | | 1524 | 11.9 | 364 | | 1443 | 13.7 | 419 |
| | 1931 | 3.3 | 102 | | 1856 | 3.4 | 103 | | 2101 | 6.9 | 210 | | 2008 | 5.2 | 159 | | 2134 | 6.7 | 205 | | 2054 | 4.6 | 140 |
| 3 M | 0133 | 15.6 | 475 | 18 Tu | 0050 | 15.4 | 470 | 3 Th | 0328 | 12.3 | 374 | 18 F | 0212 | 13.7 | 417 | 3 Sa | 0341 | 11.8 | 361 | 18 Su | 0254 | 13.6 | 414 |
| | 0759 | 4.3 | 130 | | 0720 | 4.1 | 126 | | 1006 | 6.5 | 199 | | 0849 | 5.1 | 154 | | 1007 | 5.9 | 181 | | 0922 | 3.9 | 120 |
| | 1354 | 13.5 | 412 | | 1316 | 13.7 | 418 | | 1641 | 11.4 | 346 | | 1507 | 12.5 | 381 | | 1649 | 11.5 | 352 | | 1545 | 13.3 | 405 |
| | 2005 | 5.3 | 163 | | 1926 | 4.6 | 141 | | 2301 | 7.6 | 233 | | 2114 | 6.2 | 189 | | 2315 | 7.1 | 217 | | 2200 | 5.3 | 161 |
| 4 Tu | 0216 | 13.6 | 415 | 19 W | 0123 | 14.2 | 434 | 4 F | 0516 | 11.8 | 359 | 19 Sa | 0325 | 12.8 | 390 | 4 Su | 0512 | 11.3 | 344 | 19 M | 0400 | 12.8 | 389 |
| | 0851 | 6.2 | 188 | | 0757 | 5.3 | 163 | | 1153 | 6.5 | 199 | | 1007 | 5.5 | 169 | | 1137 | 6.1 | 187 | | 1031 | 4.5 | 137 |
| | 1458 | 11.7 | 356 | | 1358 | 12.5 | 381 | | 1828 | 12.0 | 365 | | 1641 | 12.5 | 382 | | 1822 | 12.0 | 366 | | 1711 | 13.3 | 406 |
| | 2105 | 7.3 | 222 | | 2006 | 6.0 | 183 | | 0049 | 6.8 | 208 | | 2257 | 6.4 | 195 | | 0046 | 6.4 | 196 | | 2339 | 5.3 | 161 |
| 5 W | 0406 | 12.0 | 366 | 20 Th | 0213 | 12.9 | 394 | 5 Sa | 0049 | 6.8 | 208 | 20 Su | 0504 | 12.7 | 386 | 5 M | 0046 | 6.4 | 196 | 20 Tu | 0533 | 12.4 | 379 |
| | 1052 | 7.3 | 222 | | 0857 | 6.5 | 199 | | 0645 | 12.3 | 376 | | 1149 | 5.2 | 157 | | 0638 | 11.6 | 354 | | 1210 | 4.5 | 136 |
| | 1730 | 11.1 | 337 | | 1522 | 11.5 | 350 | | 1312 | 5.6 | 172 | | 1818 | 13.6 | 415 | | 1255 | 5.6 | 170 | | 1841 | 14.1 | 429 |
| | 2356 | 7.8 | 237 | | 2125 | 7.3 | 221 | | 1931 | 13.2 | 403 | | 0041 | 5.3 | 162 | | 1923 | 13.0 | 397 | | 0533 | 12.4 | 379 |
| 6 Th | 0617 | 12.2 | 371 | 21 F | 0406 | 12.0 | 367 | 6 Su | 0148 | 5.5 | 168 | 21 M | 0041 | 5.3 | 162 | 6 Tu | 0144 | 5.3 | 161 | 21 W | 0112 | 4.4 | 133 |
| | 1259 | 6.5 | 198 | | 1113 | 6.8 | 207 | | 0741 | 13.3 | 406 | | 0638 | 13.5 | 411 | | 0738 | 12.4 | 378 | | 0707 | 12.9 | 394 |
| | 1920 | 12.3 | 374 | | 1744 | 11.9 | 362 | | 1359 | 4.6 | 140 | | 1312 | 4.0 | 121 | | 1349 | 4.7 | 143 | | 1335 | 3.7 | 112 |
| | 0138 | 6.4 | 194 | | 2000 | 7.0 | 214 | | 2012 | 14.5 | 442 | | 1926 | 15.3 | 465 | | 2008 | 14.1 | 430 | | 1949 | 15.3 | 465 |
| 7 F | 0735 | 13.5 | 410 | 22 Sa | 0614 | 12.8 | 390 | 7 M | 0229 | 4.3 | 130 | 22 Tu | 0149 | 3.7 | 112 | 7 W | 0227 | 4.1 | 126 | 22 Th | 0219 | 3.1 | 93 |
| | 1404 | 5.1 | 154 | | 1257 | 5.4 | 166 | | 0823 | 14.3 | 436 | | 0745 | 14.7 | 448 | | 0825 | 13.3 | 405 | | 0819 | 13.9 | 423 |
| | 2015 | 13.9 | 423 | | 1910 | 13.6 | 416 | | 1437 | 3.6 | 110 | | 1412 | 2.6 | 79 | | 1433 | 3.8 | 115 | | 1440 | 2.6 | 80 |
| | 0227 | 4.8 | 145 | | 2005 | 15.7 | 479 | | 2046 | 15.6 | 476 | | 2019 | 16.9 | 514 | | 2047 | 15.1 | 461 | | 2049 | 16.4 | 501 |
| 8 Sa | 0823 | 14.8 | 451 | 23 Su | 0128 | 5.2 | 160 | 8 Tu | 0303 | 3.2 | 98 | 23 W | 0244 | 2.1 | 63 | 8 Th | 0308 | 3.1 | 95 | 23 F | 0318 | 1.8 | 54 |
| | 1444 | 3.7 | 114 | | 0728 | 14.4 | 439 | | 0858 | 15.1 | 461 | | 0842 | 15.8 | 483 | | 0907 | 14.1 | 430 | | 0919 | 14.9 | 453 |
| | 2050 | 15.3 | 467 | | 1359 | 3.6 | 110 | | 1511 | 2.8 | 86 | | 1504 | 1.4 | 43 | | 1514 | 2.9 | 89 | | 1538 | 1.6 | 49 |
| | 0304 | 3.4 | 105 | | 2005 | 15.7 | 479 | | 2118 | 16.5 | 502 | | 2108 | 18.1 | 552 | | 2125 | 16.0 | 487 | | 2142 | 17.4 | 531 |
| 9 Su | 0900 | 15.9 | 484 | 24 M | 0223 | 3.2 | 99 | 9 W | 0336 | 2.4 | 72 | 24 Th | 0334 | 0.8 | 25 | 9 F | 0346 | 2.2 | 68 | 24 Sa | 0413 | 0.7 | 21 |
| | 1518 | 2.7 | 83 | | 0822 | 16.1 | 490 | | 0934 | 15.7 | 480 | | 0932 | 16.7 | 509 | | 0946 | 14.8 | 451 | | 1013 | 15.7 | 479 |
| | 2121 | 16.4 | 500 | | 1449 | 1.9 | 57 | | 1545 | 2.2 | 66 | | 1552 | 0.6 | 17 | | 1553 | 2.1 | 65 | | 1630 | 0.8 | 23 |
| | 0336 | 2.5 | 75 | | 2051 | 17.7 | 538 | | 2149 | 17.1 | 521 | | 2155 | 18.9 | 576 | | 2202 | 16.6 | 507 | | 2233 | 18.0 | 550 |
| 10 M | 0932 | 16.6 | 506 | 25 Tu | 0312 | 1.4 | 44 | 10 Th | 0409 | 1.7 | 52 | 25 F | 0421 | 0.0 | -1 | 10 Sa | 0424 | 1.5 | 46 | 25 Su | 0501 | -0.1 | -3 |
| | 1549 | 2.0 | 61 | | 0910 | 17.5 | 532 | | 1007 | 16.1 | 492 | | 1020 | 17.2 | 523 | | 1024 | 15.4 | 468 | | 1102 | 16.3 | 497 |
| | 2150 | 17.2 | 524 | | 1534 | 0.5 | 14 | | 1617 | 1.7 | 51 | | 1638 | 0.1 | 4 | | 1631 | 1.5 | 47 | | 1716 | 0.3 | 9 |
| | 0407 | 1.8 | 55 | | 2134 | 19.1 | 582 | | 2220 | 17.5 | 534 | | 2240 | 19.2 | 585 | | 2237 | 17.1 | 522 | | 2318 | 18.3 | 558 |
| 11 Tu | 1002 | 17.1 | 520 | 26 W | 0356 | 0.1 | 3 | 11 F | 0441 | 1.3 | 40 | 26 Sa | 0508 | -0.4 | -11 | 11 Su | 0502 | 1.0 | 31 | 26 M | 0544 | -0.4 | -13 |
| | 1619 | 1.5 | 46 | | 0953 | 18.4 | 560 | | 1040 | 16.4 | 499 | | 1106 | 17.2 | 524 | | 1102 | 15.7 | 479 | | 1144 | 16.5 | 502 |
| | 2217 | 17.7 | 539 | | 1616 | -0.5 | -14 | | 1648 | 1.3 | 41 | | 1722 | 0.1 | 4 | | 1709 | 1.1 | 35 | | 1757 | 0.3 | 8 |
| | 0437 | 1.4 | 42 | | 2216 | 19.9 | 608 | | 2251 | 17.7 | 539 | | 2323 | 19.0 | 578 | | 2312 | 17.4 | 529 | | 2358 | 18.1 | 551 |
| 12 W | 1031 | 17.3 | 527 | 27 Th | 0440 | -0.7 | -21 | 12 Sa | 0513 | 1.1 | 34 | 27 Su | 0550 | -0.2 | -6 | 12 M | 0539 | 0.8 | 23 | 27 Tu | 0624 | -0.3 | -8 |
| | 1645 | 1.2 | 37 | | 1037 | 18.7 | 570 | | 1112 | 16.3 | 498 | | 1150 | 16.9 | 514 | | 1137 | 15.9 | 484 | | 1222 | 16.3 | 496 |
| | 2244 | 17.9 | 547 | | 1657 | -0.8 | -23 | | 1720 | 1.3 | 40 | | 1803 | 0.7 | 20 | | 1744 | 1.0 | 32 | | 1834 | 0.8 | 23 |
| | 0505 | 1.1 | 35 | | 2255 | 20.1 | 614 | | 2320 | 17.6 | 536 | | 0004 | 18.3 | 557 | | 2346 | 17.3 | 528 | | 1906 | 1.6 | 50 |
| 13 Th | 1059 | 17.3 | 527 | 28 F | 0520 | -0.9 | -26 | 13 Su | 0546 | 1.2 | 38 | 28 M | 0631 | 0.5 | 14 | 13 Tu | 0612 | 0.8 | 23 | 28 W | 0657 | 0.3 | 10 |
| | 1712 | 1.1 | 33 | | 1118 | 18.5 | 563 | | 1143 | 16.1 | 490 | | 1231 | 16.1 | 492 | | 1211 | 15.8 | 481 | | 1256 | 15.7 | 478 |
| | 2311 | 18.0 | 548 | | 1734 | -0.5 | -14 | | 1751 | 1.5 | 47 | | 1842 | 1.6 | 48 | | 1818 | 1.3 | 39 | | 1906 | 1.6 | 50 |
| | 0532 | 1.2 | 36 | | 2334 | 19.7 | 600 | | 2350 | 17.2 | 524 | | 0043 | 17.2 | 524 | | 0018 | 17.0 | 517 | | 0103 | 16.4 | 500 |
| 14 F | 1127 | 17.0 | 519 | 29 Sa | 0600 | -0.3 | -10 | 14 M | 0617 | 1.7 | 51 | 29 Tu | 0709 | 1.4 | 44 | 14 W | 0646 | 1.0 | 32 | 29 Th | 0726 | 1.2 | 37 |
| | 1739 | 1.2 | 37 | | 1156 | 17.7 | 539 | | 1212 | 15.6 | 475 | | 1309 | 15.1 | 461 | | 1245 | 15.5 | 471 | | 1324 | 14.9 | 454 |
| | 2336 | 17.7 | 540 | | 1812 | 0.5 | 14 | | 1821 | 2.1 | 65 | | 1919 | 2.9 | 87 | | 1853 | 1.9 | 57 | | 1934 | 2.7 | 83 |
| | 0558 | 1.5 | 45 | | 0011 | 18.7 | 569 | | 0018 | 16.6 | 505 | | 0120 | 15.8 | 483 | | 0050 | 16.4 | 499 | | 0130 | 15.2 | 464 |
| 15 Sa | 1154 | 16.5 | 504 | 30 Su | 0638 | 0.7 | 22 | 15 Tu | 0648 | 2.3 | 71 | 30 W | 0745 | 2.7 | 82 | 15 Th | 0720 | 1.6 | 49 | 30 F | 0751 | 2.3 | 69 |
| | 1805 | 1.6 | 50 | | 1234 | 16.5 | 502 | | 1243 | 14.9 | 453 | | 1347 | 14.0 | 427 | | 1319 | 15.0 | 456 | | 1351 | 14.0 | 426 |
| | 0048 | 17.2 | 525 | | 1848 | 1.8 | 55 | | 1852 | 3.0 | 91 | | 1954 | 4.3 | 130 | | 1927 | 2.7 | 82 | | 2001 | 3.9 | 118 |
| | 0714 | 2.2 | 67 | | 0048 | 17.2 | 525 | | 0714 | 2.2 | 67 | | 1312 | 15.0 | 457 | | 0157 | 13.9 | 425 | | 0816 | 3.3 | 101 |
| | | | 1923 | 3.5 | 106 | 0714 | 2.2 | 67 | 1923 | 3.5 | 106 | 1923 | 3.5 | 106 | 1419 | 13.1 | 398 | 2030 | 5.0 | 152 | | | |

Time meridian 97° 30' E. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to the chart datum of soundings.

Rangoon, Burma, 2011

Times and Heights of High and Low Waters

| January | | | | February | | | | March | | | | | | | | | | | | | | | | | | | | | |
|-----------------|------|------|--------|----------|-----------------|------|------|--------|----|-----------------|------|------|--------|----|-----------------|------|------|-----|--|-----------------|------|------|-----|--|-----------------|------|------|-----|--|
| | Time | | Height | | | Time | | Height | | | Time | | Height | | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | | | | | | |
| 1 Sa | 0150 | 16.5 | 503 | | 16 Su | 0111 | 14.7 | 447 | | 1 Tu | 0243 | 14.9 | 455 | | 16 W | 0132 | 14.7 | 449 | | | | | | | | | | | |
| | 0934 | 1.9 | 58 | | | 0849 | 2.8 | 85 | | | 1121 | 0.9 | 28 | | | 1002 | 1.9 | 58 | | 0908 | 2.5 | 75 | | | | | | | |
| | 1437 | 14.9 | 455 | | | 1414 | 13.4 | 409 | | | 1613 | 16.0 | 487 | | | 1523 | 14.9 | 453 | | 1428 | 15.1 | 459 | | | | | | | |
| | 2129 | 3.1 | 96 | | | 2040 | 3.8 | 117 | | | 2321 | 2.3 | 69 | | | 2217 | 3.4 | 103 | | 2127 | 3.4 | 105 | | | | | | | |
| 2 Su | 0245 | 17.1 | 520 | | 17 M | 0220 | 15.6 | 476 | | 2 W | 0416 | 17.4 | 530 | | 17 Th | 0341 | 17.7 | 539 | | 2 W | 0328 | 16.1 | 490 | | 17 Th | 0235 | 16.3 | 496 | |
| | 1036 | 1.4 | 43 | | | 1003 | 1.9 | 57 | | | 1206 | 0.7 | 20 | | | 1143 | 0.8 | 25 | | | 1057 | 1.3 | 40 | | | 1017 | 1.6 | 48 | |
| | 1528 | 15.7 | 478 | | | 1510 | 14.6 | 446 | | | 1648 | 16.8 | 512 | | | 1615 | 17.5 | 533 | | | 1602 | 16.1 | 490 | | | 1516 | 16.8 | 512 | |
| | 2231 | 2.8 | 84 | | | 2157 | 3.0 | 90 | | | | | | | | 2345 | 1.6 | 48 | | | 2308 | 2.4 | 74 | | | 2233 | 2.3 | 70 | |
| 3 M | 0332 | 17.6 | 535 | | 18 Tu | 0314 | 16.7 | 509 | | 3 Th | 0005 | 1.7 | 52 | | 18 F | 0418 | 18.7 | 571 | | 3 Th | 0404 | 17.0 | 519 | | 18 F | 0320 | 17.7 | 540 | |
| | 1129 | 1.1 | 34 | | | 1105 | 1.2 | 38 | | | 0451 | 17.9 | 546 | | | 1229 | 0.6 | 19 | | | 1144 | 1.0 | 32 | | | 1115 | 1.0 | 32 | |
| | 1612 | 16.3 | 497 | | | 1554 | 15.8 | 483 | | | 1243 | 0.7 | 20 | | | 1644 | 18.6 | 566 | | | 1631 | 17.1 | 520 | | | 1551 | 18.2 | 556 | |
| | 2325 | 2.3 | 71 | | | 2259 | 2.2 | 67 | | | 1716 | 17.4 | 529 | | | | | | | | 2351 | 1.8 | 56 | | | 2328 | 1.6 | 50 | |
| 4 Tu | 0416 | 17.9 | 547 | | 19 W | 0357 | 17.7 | 541 | | 4 F | 0040 | 1.4 | 43 | | 19 Sa | 0030 | 1.3 | 39 | | 4 F | 0436 | 17.7 | 539 | | 19 Sa | 0358 | 18.7 | 571 | |
| | 1216 | 1.0 | 30 | | | 1158 | 0.9 | 28 | | | 0523 | 18.1 | 553 | | | 0452 | 19.4 | 590 | | | 1220 | 1.0 | 32 | | | 1201 | 0.9 | 26 | |
| | 1651 | 16.8 | 512 | | | 1630 | 17.0 | 517 | | | 1312 | 0.7 | 22 | | | 1307 | 0.6 | 18 | | | 1655 | 17.7 | 539 | | | 1620 | 19.3 | 587 | |
| | | | | | | 2353 | 1.7 | 52 | | | 1741 | 17.7 | 539 | | | 1713 | 19.3 | 588 | | | | | | | | | | | |
| 5 W | 0010 | 2.0 | 60 | | 20 Th | 0435 | 18.6 | 567 | | 5 Sa | 0111 | 1.3 | 41 | | 20 Su | 0113 | 1.2 | 37 | | 5 Sa | 0024 | 1.6 | 49 | | 20 Su | 0015 | 1.4 | 43 | |
| | 0457 | 18.2 | 554 | | | 1243 | 0.8 | 23 | | | 0551 | 18.1 | 553 | | | 0525 | 19.6 | 597 | | | 0502 | 18.0 | 548 | | | 0431 | 19.3 | 589 | |
| | 1255 | 0.9 | 28 | | | 1703 | 17.8 | 544 | | | 1336 | 0.8 | 25 | | | 1341 | 0.6 | 17 | | | 1245 | 1.1 | 35 | | | 1240 | 0.9 | 26 | |
| | 1728 | 17.2 | 523 | | | | | | | | 1805 | 17.8 | 544 | | | 1747 | 19.7 | 600 | | | 1715 | 18.1 | 551 | | | 1649 | 19.9 | 606 | |
| 6 Th | 0050 | 1.7 | 52 | | 21 F | 0039 | 1.5 | 46 | | 6 Su | 0139 | 1.4 | 43 | | 21 M | 0154 | 1.2 | 37 | | 6 Su | 0052 | 1.5 | 47 | | 21 M | 0058 | 1.4 | 43 | |
| | 0535 | 18.3 | 557 | | | 0510 | 19.1 | 583 | | | 0618 | 17.9 | 547 | | | 0605 | 19.4 | 592 | | | 0527 | 18.0 | 550 | | | 0507 | 19.5 | 593 | |
| | 1330 | 0.9 | 27 | | | 1323 | 0.7 | 21 | | | 1400 | 0.9 | 27 | | | 1415 | 0.5 | 16 | | | 1307 | 1.2 | 37 | | | 1314 | 0.9 | 28 | |
| | 1802 | 17.3 | 528 | | | 1736 | 18.5 | 563 | | | 1829 | 17.8 | 544 | | | 1828 | 19.7 | 600 | | | 1735 | 18.3 | 557 | | | 1724 | 20.1 | 613 | |
| 7 F | 0123 | 1.6 | 49 | | 22 Sa | 0120 | 1.4 | 44 | | 7 M | 0206 | 1.5 | 45 | | 22 Tu | 0236 | 1.2 | 37 | | 7 M | 0118 | 1.6 | 48 | | 22 Tu | 0140 | 1.4 | 43 | |
| | 0610 | 18.1 | 553 | | | 0545 | 19.4 | 590 | | | 0645 | 17.6 | 535 | | | 0651 | 18.9 | 575 | | | 0553 | 17.9 | 546 | | | 0548 | 19.2 | 586 | |
| | 1401 | 0.9 | 27 | | | 1401 | 0.6 | 19 | | | 1420 | 0.9 | 28 | | | 1447 | 0.6 | 19 | | | 1327 | 1.2 | 36 | | | 1347 | 1.0 | 29 | |
| | 1834 | 17.4 | 529 | | | 1812 | 18.9 | 575 | | | 1858 | 17.7 | 540 | | | 1917 | 19.3 | 588 | | | 1759 | 18.3 | 559 | | | 1805 | 19.9 | 608 | |
| 8 Sa | 0154 | 1.7 | 52 | | 23 Su | 0202 | 1.5 | 45 | | 8 Tu | 0231 | 1.6 | 48 | | 23 W | 0314 | 1.3 | 40 | | 8 Tu | 0146 | 1.5 | 45 | | 23 W | 0222 | 1.4 | 42 | |
| | 0642 | 17.8 | 544 | | | 0626 | 19.2 | 586 | | | 0713 | 17.0 | 517 | | | 0742 | 17.8 | 544 | | | 0620 | 17.6 | 537 | | | 0634 | 18.6 | 568 | |
| | 1426 | 1.0 | 30 | | | 1436 | 0.5 | 16 | | | 1439 | 1.1 | 33 | | | 1519 | 1.0 | 32 | | | 1348 | 1.1 | 34 | | | 1419 | 1.1 | 35 | |
| | 1905 | 17.3 | 526 | | | 1857 | 19.0 | 578 | | | 1928 | 17.4 | 531 | | | 2009 | 18.4 | 561 | | | 1827 | 18.3 | 557 | | | 1853 | 19.4 | 592 | |
| 9 Su | 0221 | 1.9 | 59 | | 24 M | 0244 | 1.5 | 46 | | 9 W | 0255 | 1.7 | 52 | | 24 Th | 0351 | 1.7 | 51 | | 9 W | 0215 | 1.3 | 41 | | 24 Th | 0300 | 1.4 | 43 | |
| | 0712 | 17.3 | 527 | | | 0712 | 18.7 | 570 | | | 0743 | 16.1 | 491 | | | 0835 | 16.4 | 499 | | | 0648 | 17.2 | 523 | | | 0726 | 17.7 | 538 | |
| | 1448 | 1.2 | 36 | | | 1512 | 0.6 | 17 | | | 1456 | 1.5 | 47 | | | 1548 | 2.0 | 62 | | | 1411 | 1.1 | 35 | | | 1450 | 1.6 | 50 | |
| | 1936 | 17.0 | 518 | | | 1946 | 18.8 | 572 | | | 1958 | 16.9 | 514 | | | 2100 | 17.0 | 518 | | | 1858 | 18.0 | 549 | | | 1944 | 18.4 | 561 | |
| 10 M | 0248 | 2.3 | 70 | | 25 Tu | 0325 | 1.6 | 49 | | 10 Th | 0318 | 2.1 | 63 | | 25 F | 0429 | 2.5 | 76 | | 10 Th | 0240 | 1.3 | 40 | | 25 F | 0334 | 1.7 | 53 | |
| | 0743 | 16.5 | 504 | | | 0804 | 17.8 | 542 | | | 0816 | 15.0 | 457 | | | 0935 | 14.5 | 443 | | | 0718 | 16.4 | 501 | | | 0819 | 16.3 | 496 | |
| | 1507 | 1.6 | 49 | | | 1544 | 0.9 | 27 | | | 1515 | 2.3 | 71 | | | 1625 | 3.5 | 107 | | | 1432 | 1.5 | 45 | | | 1520 | 2.6 | 80 | |
| | 2008 | 16.6 | 507 | | | 2038 | 18.1 | 553 | | | 2033 | 16.0 | 487 | | | 2158 | 15.3 | 465 | | | 1930 | 17.5 | 532 | | | 2034 | 17.0 | 517 | |
| 11 Tu | 0313 | 2.8 | 84 | | 26 W | 0407 | 1.9 | 59 | | 11 F | 0346 | 2.7 | 81 | | 26 Sa | 0532 | 3.5 | 106 | | 11 F | 0301 | 1.5 | 45 | | 26 Sa | 0408 | 2.5 | 77 | |
| | 0818 | 15.6 | 474 | | | 0858 | 16.4 | 501 | | | 0859 | 13.6 | 415 | | | 1105 | 12.8 | 391 | | | 0750 | 15.5 | 471 | | | 0920 | 14.6 | 446 | |
| | 1525 | 2.3 | 69 | | | 1618 | 1.7 | 51 | | | 1544 | 3.4 | 104 | | | 1735 | 5.1 | 155 | | | 1452 | 2.2 | 67 | | | 1556 | 4.1 | 124 | |
| | 2043 | 16.1 | 490 | | | 2132 | 17.1 | 521 | | | 2118 | 14.9 | 453 | | | 2336 | 13.8 | 420 | | | 2003 | 16.6 | 505 | | | 2134 | 15.2 | 462 | |
| 12 W | 0344 | 3.3 | 100 | | 27 Th | 0456 | 2.6 | 78 | | 12 Sa | 0438 | 3.4 | 104 | | 27 Su | 0726 | 3.7 | 112 | | 12 Sa | 0326 | 2.0 | 62 | | 27 Su | 0505 | 3.6 | 109 | |
| | 0857 | 14.4 | 438 | | | 0959 | 14.8 | 450 | | | 1010 | 12.3 | 375 | | | 1311 | 12.5 | 382 | | | 0832 | 14.2 | 433 | | | 1048 | 13.3 | 404 | |
| | 1549 | 3.1 | 95 | | | 1701 | 2.9 | 89 | | | 1640 | 4.5 | 138 | | | 1942 | 5.5 | 167 | | | 1519 | 3.3 | 100 | | | 1707 | 5.6 | 171 | |
| | 2124 | 15.4 | 468 | | | 2233 | 15.7 | 480 | | | 2233 | 13.8 | 422 | | | | | | | | 2043 | 15.4 | 468 | | | 2308 | 13.7 | 417 | |
| 13 Th | 0430 | 3.8 | 115 | | 28 F | 0610 | 3.2 | 97 | | 13 Su | 0615 | 3.8 | 116 | | 28 M | 0136 | 13.9 | 423 | | 13 Su | 0405 | 3.0 | 90 | | 28 M | 0646 | 4.0 | 123 | |
| | 0952 | 13.2 | 402 | | | 1129 | 13.2 | 403 | | | 1208 | 11.9 | 364 | | | 0856 | 2.8 | 85 | | | 0936 | 12.9 | 394 | | | 1236 | 12.9 | 394 | |
| | 1631 | 4.0 | 122 | | | 1814 | 4.1 | 126 | | | 1821 | 5.1 | 154 | | | 1433 | 13.5 | 413 | | | 1608 | 4.5 | 137 | | | 1912 | 6.0 | 182 | |
| | 2220 | 14.6 | 446 | | | | | | | | | | | | | 2113 | 4.5 | 138 | | | 2151 | 14.1 | 430 | | | | | | |
| 14 F | 0543 | 4.0 | 123 | | 29 Sa | 0007 | 14.7 | 449 | | 14 M | 0029 | 13.8 | 420 | | 14 M | 0530 | 3.7 | | | | | | | | | | | | |

Rangoon, Burma, 2011

Times and Heights of High and Low Waters

| April | | | | May | | | | June | | | | | | | | | | | | | | | | | | | | | |
|-----------------|--------|------|-----|------|-----------------|------|------|------|--------|-----------------|------|------|--------|----|-----------------|------|------|-----|----|-----------------|------|------|-----|--|-----------------|------|------|-----|--|
| Time | Height | | | Time | Height | | | Time | Height | | | Time | Height | | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | |
| 1 F | 0342 | 16.5 | 504 | | 16 Sa | 0256 | 17.6 | 537 | | 1 Su | 0341 | 16.6 | 507 | | 16 M | 0316 | 18.0 | 549 | | 1 W | 0411 | 17.2 | 523 | | 16 Th | 0000 | 3.2 | 98 | |
| | 1104 | 2.0 | 60 | | | 1034 | 1.5 | 47 | | | 1048 | 2.9 | 89 | | | 1042 | 2.3 | 71 | | | 1111 | 3.2 | 99 | | | 0430 | 18.2 | 555 | |
| | 1601 | 17.2 | 525 | | | 1520 | 18.8 | 574 | | | 1546 | 17.9 | 546 | | | 1528 | 19.7 | 599 | | | 1613 | 18.9 | 575 | | | 1153 | 3.6 | 109 | |
| | 2325 | 2.3 | 71 | | | 2304 | 1.9 | 58 | | | 2322 | 2.7 | 82 | | | 2328 | 2.4 | 73 | | | 1646 | 19.3 | 587 | | | 1636 | 19.8 | 605 | |
| 2 Sa | 0413 | 17.2 | 525 | | 17 Su | 0336 | 18.5 | 564 | | 2 M | 0411 | 17.1 | 522 | | 17 Tu | 0356 | 18.4 | 560 | | 2 Th | 0002 | 3.0 | 90 | | 17 F | 0047 | 3.2 | 97 | |
| | 1142 | 1.9 | 57 | | | 1123 | 1.4 | 43 | | | 1120 | 2.6 | 80 | | | 1129 | 2.4 | 74 | | | 0443 | 17.5 | 534 | | | 0514 | 18.4 | 560 | |
| | 1625 | 17.9 | 546 | | | 1554 | 19.7 | 599 | | | 1613 | 18.4 | 560 | | | 1606 | 19.9 | 607 | | | 1148 | 3.0 | 92 | | | 1236 | 3.4 | 105 | |
| | 2357 | 2.1 | 63 | | | 2352 | 1.8 | 54 | | | 2355 | 2.5 | 76 | | | 1648 | 19.9 | 608 | | | 1646 | 19.3 | 587 | | | 1721 | 19.9 | 606 | |
| 3 Su | 0439 | 17.6 | 537 | | 18 M | 0413 | 18.9 | 577 | | 3 Tu | 0436 | 17.4 | 530 | | 18 W | 0015 | 2.5 | 76 | | 3 F | 0042 | 2.9 | 87 | | 18 Sa | 0130 | 3.1 | 93 | |
| | 1208 | 1.8 | 56 | | | 1204 | 1.4 | 44 | | | 1149 | 2.4 | 73 | | | 0439 | 18.4 | 562 | | | 0516 | 17.7 | 541 | | | 0558 | 18.4 | 562 | |
| | 1645 | 18.3 | 558 | | | 1626 | 20.0 | 611 | | | 1639 | 18.7 | 571 | | | 1211 | 2.5 | 76 | | | 1225 | 3.0 | 92 | | | 1317 | 3.4 | 103 | |
| | | | | | | | | | | | | | | | | 1648 | 19.9 | 608 | | | 1721 | 19.5 | 595 | | | 1803 | 19.8 | 603 | |
| 4 M | 0026 | 2.0 | 60 | | 19 Tu | 0037 | 1.8 | 56 | | 4 W | 0026 | 2.3 | 71 | | 19 Th | 0101 | 2.5 | 76 | | 4 Sa | 0123 | 2.8 | 85 | | 19 Su | 0209 | 2.9 | 88 | |
| | 0503 | 17.7 | 541 | | | 0451 | 19.0 | 579 | | | 0504 | 17.5 | 534 | | | 0522 | 18.3 | 559 | | | 0552 | 17.9 | 545 | | | 0641 | 18.4 | 561 | |
| | 1229 | 1.8 | 54 | | | 1241 | 1.6 | 48 | | | 1217 | 2.2 | 68 | | | 1251 | 2.6 | 78 | | | 1303 | 3.1 | 96 | | | 1352 | 3.4 | 105 | |
| | 1705 | 18.6 | 566 | | | 1704 | 20.1 | 613 | | | 1709 | 19.0 | 578 | | | 1733 | 19.8 | 603 | | | 1757 | 19.6 | 597 | | | 1845 | 19.5 | 594 | |
| 5 Tu | 0053 | 1.9 | 58 | | 20 W | 0120 | 1.9 | 57 | | 5 Th | 0100 | 2.2 | 67 | | 20 F | 0145 | 2.4 | 73 | | 5 Su | 0202 | 2.7 | 83 | | 20 M | 0244 | 2.9 | 87 | |
| | 0527 | 17.7 | 540 | | | 0533 | 18.7 | 571 | | | 0535 | 17.5 | 533 | | | 0610 | 18.1 | 551 | | | 0633 | 17.9 | 546 | | | 0723 | 18.3 | 557 | |
| | 1251 | 1.6 | 50 | | | 1316 | 1.7 | 51 | | | 1246 | 2.2 | 66 | | | 1330 | 2.6 | 80 | | | 1340 | 3.4 | 104 | | | 1426 | 3.8 | 115 | |
| | 1732 | 18.7 | 570 | | | 1747 | 19.9 | 606 | | | 1741 | 19.1 | 581 | | | 1820 | 19.4 | 592 | | | 1836 | 19.4 | 592 | | | 1926 | 19.0 | 578 | |
| 6 W | 0124 | 1.7 | 53 | | 21 Th | 0202 | 1.8 | 55 | | 6 F | 0136 | 2.0 | 62 | | 21 Sa | 0226 | 2.2 | 68 | | 6 M | 0241 | 2.6 | 80 | | 21 Tu | 0313 | 3.1 | 93 | |
| | 0557 | 17.6 | 535 | | | 0621 | 18.2 | 555 | | | 0610 | 17.3 | 528 | | | 0701 | 17.7 | 539 | | | 0719 | 17.9 | 547 | | | 0805 | 18.0 | 549 | |
| | 1316 | 1.5 | 47 | | | 1352 | 1.8 | 56 | | | 1317 | 2.3 | 70 | | | 1406 | 2.9 | 88 | | | 1419 | 3.6 | 111 | | | 1457 | 4.3 | 131 | |
| | 1803 | 18.7 | 570 | | | 1835 | 19.4 | 590 | | | 1817 | 18.9 | 577 | | | 1908 | 18.8 | 574 | | | 1919 | 19.1 | 581 | | | 2005 | 18.2 | 555 | |
| 7 Th | 0156 | 1.5 | 47 | | 22 F | 0242 | 1.7 | 53 | | 7 Sa | 0211 | 1.9 | 59 | | 22 Su | 0303 | 2.2 | 68 | | 7 Tu | 0317 | 2.6 | 79 | | 22 W | 0338 | 3.5 | 108 | |
| | 0628 | 17.2 | 524 | | | 0713 | 17.5 | 532 | | | 0648 | 17.0 | 519 | | | 0752 | 17.2 | 524 | | | 0809 | 17.9 | 547 | | | 0844 | 17.6 | 537 | |
| | 1342 | 1.6 | 49 | | | 1425 | 2.3 | 69 | | | 1349 | 2.6 | 80 | | | 1440 | 3.4 | 104 | | | 1502 | 3.9 | 119 | | | 1529 | 5.0 | 152 | |
| | 1836 | 18.5 | 563 | | | 1924 | 18.5 | 563 | | | 1853 | 18.5 | 565 | | | 1956 | 18.0 | 548 | | | 2010 | 18.5 | 565 | | | 2047 | 17.3 | 526 | |
| 8 F | 0225 | 1.4 | 43 | | 23 Sa | 0318 | 1.9 | 59 | | 8 Su | 0245 | 2.0 | 60 | | 23 M | 0336 | 2.6 | 79 | | 8 W | 0355 | 2.7 | 82 | | 23 Th | 0402 | 4.3 | 132 | |
| | 0701 | 16.6 | 507 | | | 0807 | 16.5 | 502 | | | 0731 | 16.6 | 507 | | | 0846 | 16.6 | 507 | | | 0902 | 17.9 | 547 | | | 0925 | 17.1 | 522 | |
| | 1408 | 1.9 | 59 | | | 1457 | 3.1 | 94 | | | 1423 | 3.1 | 95 | | | 1518 | 4.2 | 129 | | | 1553 | 4.2 | 127 | | | 1609 | 5.7 | 174 | |
| | 1910 | 17.9 | 547 | | | 2016 | 17.2 | 525 | | | 1934 | 17.9 | 546 | | | 2046 | 16.9 | 516 | | | 2106 | 17.9 | 545 | | | 2133 | 16.2 | 494 | |
| 9 Sa | 0251 | 1.5 | 46 | | 24 Su | 0353 | 2.5 | 77 | | 9 M | 0318 | 2.2 | 66 | | 24 Tu | 0410 | 3.3 | 100 | | 9 Th | 0439 | 3.0 | 90 | | 24 F | 0433 | 5.2 | 159 | |
| | 0738 | 15.9 | 485 | | | 0910 | 15.4 | 468 | | | 0821 | 16.2 | 494 | | | 0938 | 16.0 | 489 | | | 0959 | 17.8 | 544 | | | 1011 | 16.6 | 506 | |
| | 1433 | 2.5 | 77 | | | 1536 | 4.3 | 131 | | | 1502 | 3.7 | 113 | | | 1603 | 5.2 | 158 | | | 1657 | 4.4 | 134 | | | 1707 | 6.2 | 190 | |
| | 1946 | 17.1 | 522 | | | 2116 | 15.7 | 480 | | | 2024 | 17.1 | 521 | | | 2141 | 15.8 | 482 | | | 2211 | 17.1 | 521 | | | 2232 | 15.2 | 464 | |
| 10 Su | 0317 | 1.9 | 59 | | 25 M | 0440 | 3.4 | 104 | | 10 Tu | 0358 | 2.6 | 79 | | 25 W | 0453 | 4.2 | 127 | | 10 F | 0534 | 3.3 | 102 | | 25 Sa | 0520 | 5.9 | 181 | |
| | 0823 | 15.0 | 457 | | | 1022 | 14.4 | 440 | | | 0921 | 15.9 | 485 | | | 1034 | 15.6 | 475 | | | 1104 | 17.7 | 541 | | | 1109 | 16.2 | 495 | |
| | 1506 | 3.4 | 105 | | | 1638 | 5.5 | 168 | | | 1556 | 4.3 | 132 | | | 1709 | 5.9 | 180 | | | 1820 | 4.4 | 135 | | | 1824 | 6.3 | 193 | |
| | 2029 | 16.0 | 489 | | | 2231 | 14.5 | 441 | | | 2125 | 16.3 | 497 | | | 2243 | 14.9 | 453 | | | 2330 | 16.5 | 502 | | | 2349 | 14.7 | 448 | |
| 11 M | 0356 | 2.7 | 82 | | 26 Tu | 0552 | 4.1 | 126 | | 11 W | 0454 | 3.1 | 93 | | 26 Th | 0548 | 4.9 | 149 | | 11 Sa | 0647 | 3.7 | 112 | | 26 Su | 0625 | 6.3 | 192 | |
| | 0928 | 14.1 | 431 | | | 1141 | 14.0 | 428 | | | 1032 | 15.9 | 484 | | | 1135 | 15.4 | 469 | | | 1217 | 17.9 | 545 | | | 1218 | 16.3 | 496 | |
| | 1557 | 4.5 | 136 | | | 1816 | 6.1 | 185 | | | 1716 | 4.7 | 142 | | | 1832 | 6.1 | 185 | | | 1950 | 4.1 | 124 | | | 1946 | 5.8 | 178 | |
| | 2137 | 15.0 | 456 | | | 2357 | 13.8 | 421 | | | 2244 | 15.7 | 480 | | | 2359 | 14.4 | 439 | | | | | | | | | | | |
| 12 Tu | 0508 | 3.4 | 105 | | 27 W | 0710 | 4.3 | 131 | | 12 Th | 0611 | 3.2 | 99 | | 27 F | 0655 | 5.2 | 159 | | 12 Su | 0056 | 16.4 | 501 | | 27 M | 0111 | 14.9 | 454 | |
| | 1101 | 13.9 | 423 | | | 1258 | 14.4 | 438 | | | 1151 | 16.2 | 495 | | | 1241 | 15.6 | 477 | | | 0800 | 3.8 | 115 | | | 0738 | 6.1 | 186 | |
| | 1732 | 5.1 | 156 | | | 1948 | 5.6 | 170 | | | 1857 | 4.4 | 133 | | | 1952 | 5.5 | 169 | | | 1325 | 18.3 | 559 | | | 1325 | 16.7 | 510 | |
| | 2317 | 14.5 | 441 | | | | | | | | | | | | | 2106 | 3.6 | 110 | | | 2106 | 3.6 | 110 | | | 2059 | 5.1 | 156 | |
| 13 W | 0653 | 3.4 | 105 | | 28 Th | 0121 | 14.1 | 430 | | 13 F | 0015 | 15.8 | 481 | | 28 Sa | 0114 | 14.6 | 446 | | 13 M | 0205 | 16.9 | 515 | | 28 Tu | 0215 | 15.6 | 474 | |
| | 1238 | 14.6 | 445 | | | 0818 | 4.0 | 123 | | | 0735 | 3.0 | 92 | | | 0759 | 5.1 | 155 | | | 0908 | 3.8 | 115 | | | 0846 | 5.6 | 170 | |
| | 1930 | 4.6 | 141 | | | 1400 | 15.3 | 466 | | | 1306 | 17.1 | 522 | | | 1340 | 16.3 | 497 | | | 1419 | 18.9 | 576 | | | 1421 | 17.5 | 533 | |
| | | | | | | 2101 | 4.7 | 142 | | | 2027 | 3 | | | | | | | | | | | | | | | | | |

Rangoon, Burma, 2011

Times and Heights of High and Low Waters

| July | | | | August | | | | September | | | | | | | | | | | | | | | | | | | | | |
|--------------------|--------|------|-----|--------|-----------------|------|------|-----------|--------|-----------------|------|------|--------|----|-----------------|------|------|-----|----|-----------------|------|------|-----|--|-----------------|------|------|-----|--|
| Time | Height | | | Time | Height | | | Time | Height | | | Time | Height | | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | |
| 1 F ● | 0424 | 17.9 | 546 | | 16 Sa | 0037 | 3.8 | 116 | | 1 M | 0101 | 4.2 | 128 | | 16 Tu | 0124 | 4.5 | 137 | | 1 Th | 0153 | 4.3 | 132 | | 16 F | 0137 | 4.6 | 140 | |
| | 1132 | 4.0 | 121 | | | 0503 | 18.9 | 577 | | | 0504 | 20.2 | 616 | | | 0535 | 20.0 | 610 | | | 0546 | 21.6 | 659 | | | 0557 | 20.0 | 609 | |
| | 1625 | 19.7 | 601 | | | 1228 | 4.2 | 127 | | | 1252 | 4.5 | 136 | | | 1322 | 4.6 | 141 | | | 1407 | 4.6 | 139 | | | 1356 | 4.5 | 136 | |
| | | | | | | 1705 | 20.2 | 617 | | | 1707 | 21.3 | 649 | | | 1746 | 20.3 | 619 | | | 1805 | 21.2 | 647 | | | 1816 | 19.2 | 585 | |
| 2 Sa | 0031 | 3.6 | 111 | | 17 Su | 0116 | 3.8 | 115 | | 2 Tu | 0138 | 4.2 | 127 | | 17 W | 0149 | 4.6 | 139 | | 2 F | 0228 | 4.3 | 131 | | 17 Sa | 0158 | 4.6 | 139 | |
| | 0457 | 18.5 | 564 | | | 0537 | 19.2 | 586 | | | 0537 | 20.7 | 630 | | | 0603 | 19.9 | 608 | | | 0634 | 21.4 | 651 | | | 0629 | 19.7 | 599 | |
| | 1216 | 3.9 | 119 | | | 1306 | 4.1 | 124 | | | 1333 | 4.5 | 138 | | | 1351 | 4.7 | 144 | | | 1448 | 4.6 | 139 | | | 1422 | 4.4 | 133 | |
| | 1700 | 20.2 | 616 | | | 1742 | 20.3 | 618 | | | 1745 | 21.4 | 652 | | | 1814 | 20.0 | 609 | | | 1855 | 20.5 | 624 | | | 1848 | 18.5 | 565 | |
| 3 Su | 0114 | 3.6 | 110 | | 18 M | 0149 | 3.7 | 114 | | 3 W | 0215 | 4.0 | 123 | | 18 Th | 0212 | 4.6 | 139 | | 3 Sa | 0300 | 4.5 | 136 | | 18 Su | 0221 | 4.8 | 145 | |
| | 0531 | 19.0 | 578 | | | 0611 | 19.3 | 589 | | | 0618 | 20.9 | 638 | | | 0630 | 19.8 | 604 | | | 0725 | 20.7 | 631 | | | 0703 | 19.1 | 581 | |
| | 1256 | 4.0 | 121 | | | 1339 | 4.1 | 125 | | | 1414 | 4.5 | 138 | | | 1417 | 4.8 | 146 | | | 1526 | 4.7 | 143 | | | 1444 | 4.5 | 136 | |
| | 1735 | 20.5 | 624 | | | 1817 | 20.1 | 613 | | | 1828 | 21.2 | 645 | | | 1845 | 19.5 | 594 | | | 1950 | 19.3 | 589 | | | 1921 | 17.7 | 538 | |
| 4 M | 0153 | 3.5 | 108 | | 19 Tu | 0218 | 3.8 | 115 | | 4 Th | 0250 | 3.9 | 119 | | 19 F | 0231 | 4.6 | 141 | | 4 Su | 0333 | 5.0 | 153 | | 19 M | 0242 | 5.3 | 162 | |
| | 0609 | 19.3 | 588 | | | 0643 | 19.3 | 588 | | | 0704 | 20.9 | 638 | | | 0703 | 19.5 | 594 | | | 0819 | 19.5 | 595 | | | 0736 | 18.2 | 554 | |
| | 1336 | 4.1 | 124 | | | 1409 | 4.3 | 131 | | | 1455 | 4.5 | 137 | | | 1441 | 4.9 | 149 | | | 1603 | 5.2 | 159 | | | 1507 | 5.0 | 151 | |
| | 1814 | 20.5 | 625 | | | 1850 | 19.7 | 601 | | | 1918 | 20.6 | 628 | | | 1916 | 18.7 | 571 | | | 2049 | 17.8 | 542 | | | 2001 | 16.5 | 504 | |
| 5 Tu | 0232 | 3.4 | 103 | | 20 W | 0244 | 3.9 | 118 | | 5 F | 0324 | 3.9 | 119 | | 20 Sa | 0250 | 4.9 | 149 | | 5 M | 0410 | 6.1 | 185 | | 20 Tu | 0308 | 6.2 | 190 | |
| | 0652 | 19.6 | 596 | | | 0716 | 19.1 | 583 | | | 0756 | 20.6 | 627 | | | 0734 | 19.0 | 578 | | | 0918 | 18.0 | 548 | | | 0817 | 17.0 | 519 | |
| | 1418 | 4.1 | 126 | | | 1436 | 4.6 | 140 | | | 1537 | 4.6 | 140 | | | 1502 | 5.2 | 157 | | | 1655 | 6.0 | 184 | | | 1541 | 5.7 | 175 | |
| | 1856 | 20.3 | 620 | | | 1922 | 19.1 | 583 | | | 2011 | 19.6 | 598 | | | 1950 | 17.7 | 541 | | ● | 2209 | 16.2 | 493 | | ○ | 2103 | 15.4 | 470 | |
| 6 W | 0308 | 3.2 | 98 | | 21 Th | 0305 | 4.1 | 126 | | 6 Sa | 0358 | 4.3 | 131 | | 21 Su | 0308 | 5.5 | 168 | | 6 Tu | 0508 | 7.4 | 225 | | 21 W | 0353 | 7.3 | 221 | |
| | 0739 | 19.7 | 600 | | | 0749 | 18.8 | 574 | | | 0848 | 19.8 | 603 | | | 0809 | 18.1 | 553 | | | 1043 | 16.5 | 503 | | | 0920 | 15.9 | 485 | |
| | 1500 | 4.2 | 127 | | | 1502 | 5.0 | 152 | | ○ | 1619 | 5.0 | 153 | | | 1527 | 5.7 | 174 | | | 1830 | 6.5 | 199 | | | 1650 | 6.5 | 198 | |
| | 1945 | 19.9 | 606 | | | 1957 | 18.3 | 558 | | | 2108 | 18.2 | 555 | | | 2031 | 16.5 | 503 | | | | | | | | 2239 | 14.9 | 455 | |
| 7 Th | 0343 | 3.1 | 96 | | 22 F | 0322 | 4.7 | 142 | | 7 Su | 0434 | 5.2 | 158 | | 22 M | 0333 | 6.5 | 197 | | 7 W | 0004 | 15.5 | 472 | | 22 Th | 0519 | 7.8 | 239 | |
| | 0830 | 19.6 | 598 | | | 0822 | 18.3 | 558 | | | 0944 | 18.6 | 568 | | | 0852 | 17.1 | 520 | | | 0656 | 8.0 | 243 | | | 1102 | 15.5 | 472 | |
| | 1545 | 4.3 | 130 | | | 1528 | 5.5 | 168 | | | 1717 | 5.7 | 173 | | ○ | 1608 | 6.5 | 197 | | | 1239 | 16.2 | 494 | | | 1842 | 6.5 | 198 | |
| | 2039 | 19.1 | 582 | | | 2034 | 17.3 | 526 | | | 2222 | 16.6 | 507 | | | 2134 | 15.3 | 466 | | | 2009 | 6.0 | 183 | | | | | | |
| 8 F | 0419 | 3.4 | 104 | | 23 Sa | 0343 | 5.4 | 165 | | 8 M | 0531 | 6.4 | 194 | | 23 Tu | 0421 | 7.5 | 228 | | 8 Th | 0137 | 16.1 | 491 | | 23 F | 0021 | 15.6 | 475 | |
| | 0923 | 19.3 | 587 | | | 0900 | 17.6 | 537 | | | 1100 | 17.4 | 531 | | | 1000 | 16.1 | 490 | | | 0835 | 7.3 | 221 | | | 0715 | 7.4 | 225 | |
| | 1637 | 4.6 | 139 | | ○ | 1604 | 6.1 | 187 | | | 1848 | 6.1 | 186 | | | 1728 | 7.0 | 214 | | | 1355 | 17.1 | 520 | | | 1242 | 16.3 | 496 | |
| | 2137 | 18.0 | 549 | | | 2122 | 16.0 | 489 | | | | | | | 2315 | 14.7 | 449 | | | 2122 | 5.2 | 158 | | | 2020 | 5.6 | 172 | | |
| 9 Sa | 0503 | 4.1 | 124 | | 24 Su | 0413 | 6.3 | 192 | | 9 Tu | 0009 | 15.7 | 480 | | 24 W | 0545 | 8.0 | 245 | | 9 F | 0236 | 17.3 | 527 | | 24 Sa | 0136 | 17.0 | 517 | |
| | 1019 | 18.6 | 568 | | | 0949 | 16.8 | 512 | | | 0704 | 7.1 | 217 | | | 1141 | 15.8 | 483 | | | 0944 | 6.2 | 188 | | | 0847 | 6.1 | 186 | |
| | 1746 | 5.0 | 151 | | | 1700 | 6.6 | 202 | | | 1244 | 17.1 | 521 | | | 1923 | 6.8 | 206 | | | 1445 | 18.2 | 554 | | | 1349 | 17.7 | 539 | |
| | 2250 | 16.8 | 513 | | | 2231 | 15.0 | 458 | | | 2026 | 5.7 | 173 | | | | | | | | 2223 | 4.6 | 141 | | | 2136 | 4.8 | 145 | |
| 10 Su | 0605 | 4.9 | 149 | | 25 M | 0508 | 7.1 | 216 | | 10 W | 0144 | 16.2 | 493 | | 25 Th | 0056 | 15.4 | 468 | | 10 Sa | 0319 | 18.4 | 561 | | 25 Su | 0231 | 18.5 | 565 | |
| | 1133 | 18.0 | 548 | | | 1101 | 16.2 | 494 | | | 0839 | 6.9 | 209 | | | 0735 | 7.6 | 233 | | | 1041 | 5.3 | 161 | | | 0958 | 4.9 | 149 | |
| | 1914 | 5.1 | 154 | | | 1829 | 6.7 | 205 | | | 1400 | 17.7 | 541 | | | 1313 | 16.7 | 510 | | | 1524 | 19.1 | 583 | | | 1438 | 19.1 | 583 | |
| | | | | | | | | | | | 2144 | 5.0 | 151 | | | 2059 | 5.9 | 179 | | | 2314 | 4.4 | 134 | | | 2238 | 4.1 | 126 | |
| 11 M | 0026 | 16.2 | 493 | | 26 Tu | 0006 | 14.7 | 449 | | 11 Th | 0248 | 17.2 | 523 | | 26 F | 0209 | 16.7 | 508 | | 11 Su | 0353 | 19.3 | 589 | | 26 M | 0311 | 19.9 | 607 | |
| | 0725 | 5.4 | 166 | | | 0630 | 7.3 | 223 | | | 0952 | 6.1 | 186 | | | 0907 | 6.5 | 199 | | | 1127 | 4.7 | 144 | | | 1056 | 4.1 | 126 | |
| | 1256 | 17.9 | 546 | | | 1228 | 16.3 | 498 | | | 1453 | 18.7 | 571 | | | 1415 | 18.1 | 551 | | | 1557 | 19.8 | 603 | | | 1517 | 20.2 | 616 | |
| | 2042 | 4.7 | 144 | | | 2008 | 6.2 | 188 | | | 2247 | 4.5 | 136 | | | 2211 | 5.1 | 154 | | | 2357 | 4.4 | 135 | | | 2330 | 3.9 | 118 | |
| 12 Tu | 0149 | 16.4 | 501 | | 27 W | 0133 | 15.3 | 467 | | 12 F | 0334 | 18.2 | 554 | | 27 Sa | 0301 | 18.1 | 552 | | 12 M | 0419 | 19.9 | 606 | | 27 Tu | 0343 | 20.9 | 637 | |
| | 0845 | 5.5 | 167 | | | 0802 | 6.9 | 210 | | | 1052 | 5.3 | 163 | | | 1017 | 5.5 | 167 | | | 1203 | 4.5 | 137 | | | 1144 | 3.9 | 118 | |
| | 1403 | 18.4 | 560 | | | 1343 | 17.1 | 522 | | | 1535 | 19.6 | 596 | | | 1501 | 19.5 | 593 | | | 1626 | 20.1 | 613 | | | 1550 | 20.9 | 636 | |
| | 2156 | 4.3 | 131 | | | 2130 | 5.4 | 164 | | | 2339 | | | | | | | | | | | | | | | | | | |

Rangoon, Burma, 2011

Times and Heights of High and Low Waters

| October | | | | November | | | | December | | | | | | | | | | | | | | | | | | | | | |
|-----------------|--------|------|------|----------|-----------------|------|--------|----------|------|-----------------|------|------|--------|----|-----------------|------|------|-----|--|-----------------|------|------|-----|--|-----------------|------|------|-----|--|
| Time | Height | | Time | Height | | Time | Height | | Time | Height | | Time | Height | | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | | | | | | |
| 1 Sa | 0201 | 4.1 | 126 | | 16 Su | 0129 | 3.9 | 118 | | 1 Tu | 0250 | 4.3 | 130 | | 16 W | 0211 | 3.6 | 110 | | 1 Th | 0316 | 3.6 | 111 | | 16 F | 0248 | 2.8 | 85 | |
| | 0612 | 21.1 | 642 | | | 0609 | 19.4 | 592 | | | 0746 | 18.2 | 554 | | | 0707 | 17.8 | 544 | | | 0824 | 16.8 | 511 | | | 0740 | 17.5 | 533 | |
| | 1435 | 4.0 | 123 | | | 1403 | 3.4 | 103 | | | 1537 | 3.5 | 107 | | | 1456 | 2.6 | 79 | | | 1557 | 2.7 | 82 | | | 1529 | 1.6 | 49 | |
| | 1839 | 19.7 | 600 | | | 1832 | 18.0 | 549 | | | 2034 | 16.8 | 512 | | | 1947 | 16.7 | 508 | | | 2111 | 16.3 | 496 | | | 2023 | 17.3 | 526 | |
| 2 Su | 0235 | 4.4 | 134 | | 17 M | 0155 | 4.1 | 125 | | 2 W | 0332 | 5.2 | 157 | | 17 Th | 0249 | 4.1 | 126 | | 2 F | 0401 | 4.4 | 135 | | 17 Sa | 0333 | 3.0 | 91 | |
| | 0704 | 20.2 | 615 | | | 0642 | 18.9 | 575 | | | 0847 | 16.8 | 511 | | | 0751 | 17.0 | 519 | | | 0921 | 15.6 | 474 | | | 0832 | 16.8 | 511 | |
| | 1512 | 4.2 | 128 | | | 1431 | 3.4 | 105 | | | 1622 | 4.2 | 128 | | | 1532 | 3.0 | 91 | | | 1637 | 3.5 | 108 | | | 1606 | 1.9 | 57 | |
| | 1937 | 18.5 | 565 | | | 1908 | 17.3 | 527 | | ☉ | 2146 | 15.9 | 485 | | | 2041 | 16.3 | 498 | | ☉ | 2207 | 15.6 | 477 | | | 2116 | 17.1 | 521 | |
| 3 M | 0309 | 5.1 | 154 | | 18 Tu | 0222 | 4.6 | 141 | | 3 Th | 0430 | 6.1 | 186 | | 18 F | 0336 | 4.6 | 140 | | 3 Sa | 0501 | 5.1 | 156 | | 18 Su | 0428 | 3.1 | 96 | |
| | 0759 | 18.8 | 574 | | | 0718 | 18.0 | 548 | | | 1003 | 15.5 | 471 | | | 0847 | 16.2 | 494 | | | 1023 | 14.4 | 440 | | | 0930 | 15.9 | 484 | |
| | 1549 | 4.7 | 144 | | | 1457 | 3.8 | 117 | | | 1725 | 4.9 | 149 | | ☉ | 1618 | 3.4 | 105 | | | 1729 | 4.4 | 133 | | | 1653 | 2.3 | 70 | |
| | 2040 | 17.2 | 523 | | | 1951 | 16.4 | 501 | | | 2304 | 15.5 | 471 | | | 2144 | 16.2 | 494 | | | 2309 | 15.3 | 465 | | ☉ | 2216 | 16.8 | 513 | |
| 4 Tu | 0348 | 6.1 | 187 | | 19 W | 0253 | 5.4 | 164 | | 4 F | 0557 | 6.5 | 199 | | 19 Sa | 0443 | 4.9 | 148 | | 4 Su | 0619 | 5.3 | 161 | | 19 M | 0540 | 3.2 | 98 | |
| | 0902 | 17.2 | 524 | | | 0800 | 16.9 | 516 | | | 1126 | 14.7 | 448 | | | 0958 | 15.6 | 474 | | | 1138 | 13.7 | 419 | | | 1044 | 15.1 | 459 | |
| | 1639 | 5.5 | 169 | | | 1532 | 4.5 | 138 | | | 1839 | 5.2 | 157 | | | 1725 | 3.7 | 114 | | | 1835 | 4.8 | 147 | | | 1759 | 2.8 | 84 | |
| | 2205 | 15.9 | 484 | | | 2050 | 15.7 | 479 | | | | | | | 2259 | 16.4 | 500 | | | | | | | | 2330 | 16.6 | 507 | | |
| 5 W | 0453 | 7.3 | 222 | | 20 Th | 0340 | 6.2 | 189 | | 5 Sa | 0020 | 15.6 | 475 | | 20 Su | 0614 | 4.6 | 140 | | 5 M | 0018 | 15.3 | 465 | | 20 Tu | 0711 | 2.9 | 89 | |
| | 1030 | 15.8 | 481 | | | 0901 | 15.9 | 484 | | | 0727 | 6.1 | 185 | | | 1124 | 15.4 | 468 | | | 0741 | 4.8 | 145 | | | 1216 | 14.7 | 449 | |
| | 1806 | 6.0 | 184 | | | 1629 | 5.2 | 158 | | | 1250 | 14.8 | 450 | | | 1847 | 3.6 | 110 | | | 1259 | 13.8 | 420 | | | 1919 | 2.9 | 89 | |
| | 2345 | 15.4 | 470 | | ☉ | 2212 | 15.4 | 470 | | | 1949 | 5.0 | 151 | | | | | | | | 1942 | 4.8 | 145 | | | | | | |
| 6 Th | 0640 | 7.6 | 233 | | 21 F | 0500 | 6.7 | 203 | | 6 Su | 0126 | 16.3 | 496 | | 21 M | 0017 | 17.0 | 519 | | 6 Tu | 0122 | 15.7 | 480 | | 21 W | 0050 | 16.9 | 515 | |
| | 1216 | 15.4 | 469 | | | 1030 | 15.4 | 468 | | | 0839 | 5.1 | 156 | | | 0748 | 3.7 | 113 | | | 0849 | 3.9 | 118 | | | 0834 | 2.2 | 68 | |
| | 1934 | 5.7 | 174 | | | 1802 | 5.3 | 163 | | | 1354 | 15.5 | 472 | | | 1251 | 15.9 | 484 | | | 1403 | 14.4 | 440 | | | 1338 | 15.2 | 463 | |
| | | | | | | 2341 | 15.9 | 486 | | | 2050 | 4.6 | 140 | | | 2005 | 3.1 | 96 | | | 2043 | 4.4 | 133 | | | 2037 | 2.7 | 83 | |
| 7 F | 0110 | 15.9 | 486 | | 22 Sa | 0649 | 6.2 | 189 | | 7 M | 0214 | 17.2 | 523 | | 22 Tu | 0123 | 18.0 | 548 | | 7 W | 0212 | 16.4 | 501 | | 22 Th | 0154 | 17.5 | 534 | |
| | 0811 | 6.8 | 208 | | | 1205 | 15.8 | 481 | | | 0939 | 4.2 | 127 | | | 0905 | 2.7 | 83 | | | 0947 | 3.0 | 91 | | | 0946 | 1.6 | 48 | |
| | 1335 | 16.0 | 489 | | | 1935 | 4.8 | 145 | | | 1440 | 16.3 | 498 | | | 1355 | 16.8 | 512 | | | 1452 | 15.2 | 463 | | | 1437 | 16.0 | 487 | |
| | 2043 | 5.1 | 155 | | | | | | | | 2143 | 4.2 | 128 | | | 2113 | 2.7 | 82 | | | 2135 | 3.8 | 115 | | | 2143 | 2.4 | 74 | |
| 8 Sa | 0211 | 17.0 | 519 | | 23 Su | 0100 | 17.1 | 522 | | 8 Tu | 0252 | 17.9 | 547 | | 23 W | 0215 | 18.9 | 576 | | 8 Th | 0253 | 17.1 | 521 | | 23 F | 0248 | 18.1 | 553 | |
| | 0921 | 5.7 | 174 | | | 0822 | 5.0 | 151 | | | 1029 | 3.4 | 105 | | | 1008 | 2.0 | 62 | | | 1035 | 2.3 | 70 | | | 1047 | 1.2 | 37 | |
| | 1426 | 17.1 | 520 | | | 1322 | 16.9 | 516 | | | 1518 | 17.1 | 520 | | | 1445 | 17.7 | 538 | | | 1530 | 15.9 | 485 | | | 1527 | 16.7 | 510 | |
| | 2144 | 4.6 | 140 | | | 2052 | 3.9 | 120 | | | 2230 | 3.9 | 118 | | | 2212 | 2.4 | 74 | | | 2223 | 3.1 | 96 | | | 2245 | 2.2 | 66 | |
| 9 Su | 0253 | 18.1 | 552 | | 24 M | 0158 | 18.5 | 565 | | 9 W | 0323 | 18.5 | 564 | | 24 Th | 0259 | 19.6 | 596 | | 9 F | 0330 | 17.7 | 538 | | 24 Sa | 0335 | 18.6 | 568 | |
| | 1017 | 4.8 | 145 | | | 0933 | 3.8 | 115 | | | 1109 | 3.0 | 91 | | | 1103 | 1.8 | 55 | | | 1115 | 1.9 | 57 | | | 1142 | 1.0 | 32 | |
| | 1506 | 18.0 | 550 | | | 1415 | 18.2 | 555 | | | 1548 | 17.6 | 536 | | | 1528 | 18.2 | 555 | | | 1603 | 16.5 | 503 | | | 1613 | 17.3 | 527 | |
| | 2236 | 4.3 | 132 | | | 2157 | 3.3 | 101 | | | 2306 | 3.5 | 108 | | | 2305 | 2.3 | 71 | | | 2304 | 2.6 | 79 | | | 2338 | 1.9 | 59 | |
| 10 M | 0326 | 19.0 | 578 | | 25 Tu | 0242 | 19.8 | 602 | | 10 Th | 0351 | 18.9 | 575 | | 25 F | 0340 | 19.9 | 607 | | 10 Sa | 0406 | 18.1 | 552 | | 25 Su | 0422 | 18.9 | 577 | |
| | 1103 | 4.2 | 127 | | | 1032 | 3.1 | 93 | | | 1142 | 2.8 | 84 | | | 1153 | 1.8 | 56 | | | 1152 | 1.6 | 49 | | | 1230 | 1.0 | 30 | |
| | 1538 | 18.7 | 571 | | | 1458 | 19.2 | 585 | | | 1616 | 17.9 | 545 | | | 1609 | 18.5 | 563 | | | 1633 | 17.0 | 517 | | | 1656 | 17.7 | 538 | |
| | 2318 | 4.2 | 129 | | | 2251 | 3.1 | 93 | | | 2336 | 3.2 | 99 | | ☉ | 2352 | 2.4 | 72 | | ☉ | 2341 | 2.2 | 67 | | ☉ | | | | |
| 11 Tu | 0352 | 19.5 | 595 | | 26 W | 0318 | 20.6 | 627 | | 11 F | 0420 | 19.1 | 583 | | 26 Sa | 0423 | 20.0 | 609 | | 11 Su | 0439 | 18.5 | 564 | | 26 M | 0027 | 1.7 | 53 | |
| | 1139 | 3.9 | 118 | | | 1123 | 2.8 | 86 | | | 1211 | 2.6 | 80 | | | 1239 | 1.9 | 58 | | | 1228 | 1.4 | 44 | | | 0506 | 19.0 | 580 | |
| | 1607 | 19.1 | 582 | | | 1535 | 19.8 | 603 | | | 1644 | 18.0 | 548 | | | 1652 | 18.5 | 564 | | | 1704 | 17.3 | 526 | | | 1313 | 1.0 | 29 | |
| | 2351 | 4.2 | 128 | | | 2338 | 3.0 | 92 | | ☉ | | | | | | | | | | | | | | | | 1737 | 17.8 | 544 | |
| 12 W | 0416 | 19.8 | 603 | | 27 Th | 0353 | 21.0 | 640 | | 12 Sa | 0005 | 3.0 | 91 | | 27 Su | 0037 | 2.4 | 73 | | 12 M | 0018 | 2.0 | 61 | | 27 Tu | 0110 | 1.6 | 49 | |
| | 1209 | 3.8 | 117 | | | 1210 | 2.9 | 88 | | | 0451 | 19.3 | 587 | | | 0508 | 19.8 | 605 | | | 0512 | 18.7 | 571 | | | 0549 | 18.9 | 577 | |
| | 1633 | 19.2 | 585 | | | 1612 | 19.9 | 608 | | | 1241 | 2.5 | 76 | | | 1323 | 1.9 | 57 | | | 1305 | 1.4 | 43 | | | 1353 | 0.9 | 26 | |
| | | | | | ☉ | | | | | | 1713 | 18.0 | 548 | | | 1739 | 18.3 | 559 | | | 1736 | 17.4 | 531 | | | 1820 | 17.8 | 544 | |
| 13</ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Sagar, Hooghly River, India, 2011

Times and Heights of High and Low Waters

| January | | | | February | | | | March | | | | | | | | | | | | | | | |
|-----------------|--------|--------|-----|-----------------|--------|--------|-----|-----------------|--------|--------|-----|-----------------|--------|--------|------|-----------------|--------|------|------|-----------------|--------|------|-------|
| Time | | Height | | Time | | Height | | Time | | Height | | Time | | Height | | | | | | | | | |
| h | m | ft | cm | h | m | ft | cm | h | m | ft | cm | h | m | ft | cm | | | | | | | | |
| 1 Sa | 0149 | 6.2 | 188 | 16 Su | 0105 | 7.0 | 212 | 1 Tu | 0349 | 4.6 | 140 | 16 W | 0301 | 4.3 | 132 | 1 Tu | 0242 | 5.4 | 166 | 16 W | 0114 | 5.4 | 165 |
| | 0726 | 12.8 | 391 | | 0641 | 11.5 | 352 | | 0918 | 13.1 | 398 | | 0832 | 13.4 | 408 | | 0825 | 11.9 | 363 | | 0705 | 12.3 | 374 |
| | 1401 | 5.2 | 160 | | 1321 | 5.7 | 173 | | 1553 | 4.0 | 121 | | 1509 | 3.4 | 104 | | 1449 | 4.8 | 146 | | 1332 | 4.7 | 143 |
| | 2002 | 14.8 | 451 | | 1933 | 13.5 | 411 | | 2135 | 15.1 | 460 | | 2054 | 15.7 | 478 | | 2034 | 13.9 | 423 | | 1932 | 14.4 | 439 |
| 2 Su | 0300 | 5.5 | 169 | 17 M | 0221 | 6.0 | 183 | 2 W | 0426 | 3.9 | 118 | 17 Th | 0353 | 2.9 | 87 | 2 W | 0328 | 4.4 | 134 | 17 Th | 0233 | 3.9 | 119 |
| | 0828 | 13.3 | 404 | | 0751 | 12.3 | 376 | | 0954 | 13.8 | 421 | | 0919 | 14.9 | 455 | | 0904 | 13.0 | 395 | | 0810 | 14.0 | 426 |
| | 1507 | 4.8 | 145 | | 1429 | 4.8 | 146 | | 1632 | 3.4 | 103 | | 1600 | 2.2 | 68 | | 1536 | 3.9 | 119 | | 1445 | 3.4 | 104 |
| | 2055 | 15.4 | 468 | | 2027 | 14.6 | 445 | | 2210 | 15.6 | 474 | | 2137 | 16.9 | 514 | | 2114 | 14.7 | 448 | | 2026 | 15.8 | 483 |
| 3 M | 0352 | 4.9 | 150 | 18 Tu | 0318 | 4.9 | 150 | 3 Th | 0456 | 3.4 | 103 | 18 F | 0434 | 1.6 | 49 | 3 Th | 0403 | 3.6 | 109 | 18 F | 0327 | 2.4 | 73 |
| | 0916 | 13.7 | 419 | | 0846 | 13.5 | 410 | | 1024 | 14.4 | 439 | | 0959 | 16.3 | 496 | | 0936 | 13.9 | 423 | | 0857 | 15.6 | 477 |
| | 1557 | 4.2 | 129 | | 1525 | 3.8 | 116 | | 1702 | 3.1 | 93 | | 1645 | 1.3 | 40 | | 1611 | 3.2 | 99 | | 1611 | 3.2 | 99 |
| | 2139 | 15.8 | 481 | | 2112 | 15.7 | 479 | | ● 2239 | 15.8 | 481 | | ○ 2217 | 17.7 | 538 | | 2147 | 15.3 | 465 | | 2111 | 17.0 | 517 |
| 4 Tu | 0432 | 4.5 | 136 | 19 W | 0405 | 3.8 | 116 | 4 F | 0520 | 3.1 | 93 | 19 Sa | 0511 | 0.7 | 22 | 4 F | 0430 | 3.0 | 91 | 19 Sa | 0409 | 1.2 | 37 |
| | 0957 | 14.2 | 433 | | 0932 | 14.6 | 446 | | 1050 | 14.8 | 451 | | 1039 | 17.2 | 524 | | 1001 | 14.6 | 444 | | 0936 | 17.0 | 518 |
| | 1638 | 3.9 | 118 | | 1613 | 2.9 | 87 | | 1726 | 2.9 | 87 | | 1724 | 0.8 | 25 | | 1640 | 2.9 | 88 | | 1623 | 1.3 | 41 |
| | ● 2219 | 16.0 | 489 | | 2153 | 16.7 | 509 | | 2305 | 15.8 | 482 | | 2255 | 17.9 | 545 | | 2214 | 15.6 | 474 | | ○ 2152 | 17.6 | 537 |
| 5 W | 0507 | 4.2 | 127 | 20 Th | 0448 | 2.8 | 84 | 5 Sa | 0541 | 2.9 | 87 | 20 Su | 0550 | 0.3 | 10 | 5 Sa | 0453 | 2.6 | 79 | 20 Su | 0445 | 0.5 | 14 |
| | 1034 | 14.5 | 443 | | 1015 | 15.7 | 478 | | 1114 | 15.0 | 458 | | 1119 | 17.5 | 534 | | 1025 | 15.1 | 459 | | 1012 | 17.8 | 543 |
| | 1710 | 3.7 | 112 | | 1655 | 2.1 | 65 | | 1747 | 2.9 | 87 | | 1802 | 0.9 | 27 | | 1703 | 2.7 | 81 | | 1702 | 1.0 | 29 |
| | 2254 | 16.1 | 490 | | ○ 2234 | 17.4 | 529 | | 2328 | 15.7 | 479 | | 2334 | 17.5 | 534 | | ● 2237 | 15.6 | 476 | | 2231 | 17.7 | 541 |
| 6 Th | 0538 | 4.0 | 122 | 21 F | 0528 | 2.0 | 60 | 6 Su | 0604 | 2.7 | 82 | 21 M | 0625 | 0.5 | 16 | 6 Su | 0513 | 2.3 | 70 | 21 M | 0521 | 0.2 | 7 |
| | 1108 | 14.7 | 449 | | 1058 | 16.4 | 500 | | 1141 | 15.2 | 462 | | 1159 | 17.2 | 525 | | 1046 | 15.4 | 469 | | 1051 | 18.0 | 549 |
| | 1738 | 3.6 | 111 | | 1736 | 1.7 | 52 | | 1810 | 2.9 | 89 | | 1840 | 1.4 | 44 | | 1723 | 2.6 | 78 | | 1740 | 1.1 | 33 |
| | 2324 | 16.0 | 487 | | 2315 | 17.6 | 536 | | 2353 | 15.5 | 472 | | 1840 | 1.4 | 44 | | 2259 | 15.6 | 474 | | 2309 | 17.3 | 528 |
| 7 F | 0605 | 3.9 | 120 | 22 Sa | 0609 | 1.6 | 48 | 7 M | 0628 | 2.7 | 81 | 22 Tu | 0014 | 16.7 | 509 | 7 M | 0534 | 2.1 | 64 | 22 Tu | 0556 | 0.6 | 18 |
| | 1137 | 14.8 | 451 | | 1140 | 16.7 | 509 | | 1208 | 15.1 | 459 | | 0702 | 1.2 | 36 | | 1110 | 15.5 | 473 | | 1130 | 17.6 | 536 |
| | 1805 | 3.8 | 115 | | 1816 | 1.8 | 54 | | 1836 | 3.2 | 98 | | 1239 | 16.5 | 502 | | 1745 | 2.6 | 78 | | 1817 | 1.7 | 52 |
| | 2353 | 15.7 | 480 | | 2355 | 17.4 | 529 | | 1903 | 3.8 | 115 | | 1916 | 2.4 | 73 | | 2322 | 15.4 | 469 | | 2348 | 16.4 | 500 |
| 8 Sa | 0629 | 3.9 | 120 | 23 Su | 0649 | 1.6 | 48 | 8 Tu | 0020 | 15.1 | 460 | 23 W | 0054 | 15.6 | 475 | 8 Tu | 0559 | 2.1 | 63 | 23 W | 0632 | 1.4 | 43 |
| | 1206 | 14.8 | 450 | | 1224 | 16.5 | 504 | | 0657 | 2.9 | 87 | | 0736 | 2.2 | 66 | | 1137 | 15.5 | 472 | | 1210 | 16.7 | 508 |
| | 1830 | 4.0 | 122 | | 1855 | 2.2 | 68 | | 1237 | 14.7 | 449 | | 1319 | 15.4 | 469 | | 1811 | 2.8 | 86 | | 1854 | 2.7 | 83 |
| | | | | | | | | | 1903 | 3.8 | 115 | | 1953 | 3.6 | 109 | | 2349 | 15.0 | 457 | | | | |
| 9 Su | 0021 | 15.5 | 471 | 24 M | 0037 | 16.8 | 511 | 9 W | 0047 | 14.5 | 442 | 24 Th | 0134 | 14.2 | 434 | 9 W | 0627 | 2.3 | 71 | 24 Th | 0028 | 15.2 | 463 |
| | 0655 | 4.0 | 121 | | 0728 | 2.0 | 60 | | 0724 | 3.3 | 102 | | 0811 | 3.4 | 103 | | 1206 | 15.2 | 462 | | 0706 | 2.5 | 77 |
| | 1236 | 14.6 | 445 | | 1306 | 16.0 | 489 | | 1305 | 14.2 | 433 | | 1400 | 14.1 | 429 | | 1838 | 3.3 | 101 | | 1250 | 15.4 | 470 |
| | 1857 | 4.4 | 134 | | 1934 | 3.0 | 92 | | 1932 | 4.6 | 139 | | 2034 | 4.9 | 150 | | | | | | 1931 | 4.0 | 121 |
| 10 M | 0050 | 15.0 | 457 | 25 Tu | 0121 | 15.8 | 483 | 10 Th | 0115 | 13.7 | 419 | 25 F | 0216 | 12.8 | 389 | 10 Th | 0016 | 14.5 | 441 | 25 F | 0107 | 13.8 | 422 |
| | 0724 | 4.2 | 127 | | 0805 | 2.7 | 81 | | 0751 | 4.0 | 122 | | 0851 | 4.7 | 142 | | 0653 | 2.9 | 87 | | 0739 | 3.8 | 117 |
| | 1308 | 14.2 | 434 | | 1349 | 15.3 | 465 | | 1335 | 13.5 | 412 | | 1455 | 12.7 | 387 | | 1233 | 14.7 | 447 | | 1331 | 14.0 | 428 |
| | 1929 | 5.0 | 152 | | 2016 | 4.0 | 122 | | 2003 | 5.4 | 166 | | ● 2129 | 6.2 | 190 | | 1904 | 4.1 | 124 | | 2008 | 5.2 | 160 |
| 11 Tu | 0123 | 14.4 | 438 | 26 W | 0204 | 14.7 | 449 | 11 F | 0148 | 12.9 | 392 | 26 Sa | 0318 | 11.3 | 343 | 11 F | 0044 | 13.8 | 420 | 26 Sa | 0148 | 12.5 | 380 |
| | 0754 | 4.6 | 139 | | 0843 | 3.5 | 108 | | 0820 | 4.7 | 144 | | 0952 | 5.9 | 180 | | 0718 | 3.5 | 107 | | 0817 | 5.2 | 159 |
| | 1343 | 13.7 | 419 | | 1435 | 14.3 | 435 | | 1415 | 12.7 | 388 | | 1640 | 11.7 | 357 | | 1302 | 14.0 | 428 | | 1425 | 12.7 | 387 |
| | 2004 | 5.8 | 176 | | ● 2104 | 5.1 | 155 | | ● 2048 | 6.3 | 192 | | 2319 | 7.0 | 214 | | 1932 | 4.9 | 148 | | ● 2059 | 6.5 | 197 |
| 12 W | 0156 | 13.6 | 414 | 27 Th | 0253 | 13.4 | 408 | 12 Sa | 0232 | 11.8 | 361 | 27 Su | 0521 | 10.4 | 316 | 12 Sa | 0115 | 13.1 | 398 | 27 Su | 0246 | 11.2 | 341 |
| | 0828 | 5.2 | 157 | | 0929 | 4.6 | 140 | | 0909 | 5.5 | 167 | | 1150 | 6.5 | 197 | | 0745 | 4.2 | 129 | | 0913 | 6.4 | 196 |
| | 1423 | 13.1 | 399 | | 1536 | 13.2 | 403 | | 1522 | 12.0 | 365 | | 1831 | 11.9 | 363 | | 1339 | 13.3 | 406 | | 1603 | 11.7 | 358 |
| | ● 2048 | 6.6 | 201 | | 2207 | 6.2 | 188 | | 2202 | 7.0 | 213 | | | | | | 2012 | 5.7 | 174 | | 2245 | 7.2 | 219 |
| 13 Th | 0239 | 12.7 | 386 | 28 F | 0402 | 12.0 | 367 | 13 Su | 0355 | 10.9 | 332 | 28 M | 0127 | 6.5 | 199 | 13 Su | 0200 | 12.1 | 370 | 28 M | 0443 | 10.4 | 318 |
| | 0912 | 5.8 | 176 | | 1036 | 5.6 | 170 | | 1037 | 6.0 | 184 | | 0724 | 10.8 | 330 | | 0829 | 5.1 | 154 | | 1117 | 7.1 | 215 |
| | 1520 | 12.4 | 379 | | 1710 | 12.6 | 383 | | 1720 | 11.9 | 363 | | 1341 | 5.8 | 177 | | 1440 | 12.5 | 382 | | 1747 | 11.8 | 359 |
| | 2149 | 7.3 | 222 | | 2345 | 6.8 | 207 | | | | | | 1945 | 12.9 | 392 | | ● 2121 | 6.5 | 197 | | | | |
| 14 F | 0341 | 11.7 | 358 | 29 Sa | 0546 | 11.2 | 342 | 14 M | 0010 | 6.9 | 210 | 29 Tu | 0127 | 6.5 | 199 | 14 M | 0317 | 11.2 | 341 | 29 Tu | 0038 | 6.8 | 207 |
| | 1017 | 6.3 | 191 | | 1213 | 6.0 | 182 | | 0557 | 10.9 | 331 | | 0557 | 10.9 | 331 | | 0951 | 5.8 | 178 | | 0651 | 10.9 | 332 |
| | 1651 | 12.2 | 371 | | 1846 | 12.8 | 389 | | 1236 | 5.7 | 173 | | 1857 | 12.9 | 392 | | 1631 | 12.2 | 371 | | 1302 | 6.5 | 198 |
| | 2323 | 7.5 | 229 | | | | | | | | | | | | 2324 | | 6.5 | 199 | 1907 | | 12.5 | 382 | |
| 15 Sa | 0515 | 11.3 | 344 | 30 Su | 0141 | 6.4 | 196 | 15 Tu | 0152 | 5.8 | 176 | 15 Tu | 0524 | 11.1 | 338 | 15 Tu | 0524 | 11.1 | 338 | 30 W | 0154 | 5.9 | 179 |
| | 1154 | 6.3 | 192 | | 0727 | 11.4 | 348 | | 0730 | 11.9 | 362 | | 1157 | 5.7 | 175 | | 1157 | 5.7 | 175 | | 0754 | 12.0 | 367 |
| | 1822 | 12.6 | 383 | | 1354 | 5.6 | 170 | | 1402 | 4.7 | 142 | | 1819 | 13.0 | 396 | | | | | | 1413 | 5.5 | 168</ |

Sagar, Hooghly River, India, 2011

Times and Heights of High and Low Waters

| April | | | | May | | | | June | | | | | | | | | | | | | | | | | | | | | |
|-----------------|--------|------|-----|------|-----------------|------|------|------|--------|-----------------|------|------|--------|----|-----------------|------|------|-----|----|-----------------|------|------|-----|--|-----------------|------|------|-----|--|
| Time | Height | | | Time | Height | | | Time | Height | | | Time | Height | | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | |
| 1 F | 0323 | 4.0 | 122 | | 16 Sa | 0248 | 2.8 | 85 | | 1 Su | 0310 | 4.2 | 129 | | 16 M | 0259 | 3.1 | 95 | | 1 W | 0338 | 4.3 | 132 | | 16 Th | 0408 | 3.9 | 118 | |
| | 0905 | 14.2 | 432 | | | 0827 | 16.4 | 499 | | | 0853 | 15.3 | 466 | | | 0837 | 17.5 | 534 | | | 0915 | 16.4 | 501 | | | 0947 | 17.7 | 541 | |
| | 1538 | 3.9 | 118 | | | 1508 | 3.0 | 91 | | | 1529 | 4.5 | 136 | | | 1525 | 3.7 | 112 | | | 1556 | 4.9 | 149 | | | 1636 | 4.4 | 134 | |
| | 2111 | 15.0 | 457 | | | 2039 | 16.8 | 511 | | | 2102 | 15.0 | 458 | | | 2054 | 16.6 | 505 | | | 2131 | 15.3 | 467 | | | 2210 | 16.2 | 494 | |
| 2 Sa | 0354 | 3.3 | 101 | | 17 Su | 0336 | 1.8 | 56 | | 2 M | 0343 | 3.7 | 114 | | 17 Tu | 0345 | 2.8 | 84 | | 2 Th | 0409 | 4.0 | 121 | | 17 F | 0446 | 3.9 | 119 | |
| | 0931 | 14.9 | 455 | | | 0906 | 17.5 | 532 | | | 0919 | 15.8 | 481 | | | 0918 | 17.9 | 546 | | | 0946 | 16.8 | 512 | | | 1028 | 17.6 | 537 | |
| | 1608 | 3.4 | 104 | | | 1554 | 2.3 | 70 | | | 1557 | 4.2 | 127 | | | 1609 | 3.4 | 105 | | | 1628 | 4.7 | 142 | | | 1715 | 4.5 | 136 | |
| | 2140 | 15.3 | 466 | | | 2122 | 17.2 | 525 | | | 2130 | 15.2 | 463 | | | 2138 | 16.7 | 508 | | | 2205 | 15.6 | 475 | | | 2251 | 16.1 | 490 | |
| 3 Su | 0419 | 2.9 | 87 | | 18 M | 0414 | 1.3 | 40 | | 3 Tu | 0410 | 3.4 | 103 | | 18 W | 0425 | 2.7 | 82 | | 3 F | 0440 | 3.7 | 114 | | 18 Sa | 0521 | 4.2 | 127 | |
| | 0953 | 15.5 | 471 | | | 0943 | 18.1 | 551 | | | 0942 | 16.1 | 491 | | | 0959 | 17.9 | 547 | | | 1020 | 17.0 | 518 | | | 1106 | 17.3 | 527 | |
| | 1633 | 3.2 | 97 | | | 1634 | 2.0 | 62 | | | 1623 | 4.0 | 123 | | | 1650 | 3.5 | 108 | | | 1705 | 4.5 | 138 | | | 1751 | 4.7 | 144 | |
| | 2204 | 15.4 | 470 | | | 2202 | 17.3 | 527 | | | 2157 | 15.3 | 466 | | | 2222 | 16.4 | 500 | | | 2243 | 15.7 | 478 | | | 2328 | 15.8 | 482 | |
| 4 M | 0441 | 2.5 | 77 | | 19 Tu | 0452 | 1.2 | 37 | | 4 W | 0435 | 3.2 | 97 | | 19 Th | 0502 | 3.0 | 90 | | 4 Sa | 0512 | 3.7 | 114 | | 19 Su | 0553 | 4.6 | 140 | |
| | 1014 | 15.7 | 480 | | | 1021 | 18.1 | 552 | | | 1008 | 16.3 | 497 | | | 1040 | 17.6 | 536 | | | 1058 | 17.0 | 519 | | | 1145 | 16.8 | 512 | |
| | 1655 | 3.1 | 94 | | | 1714 | 2.2 | 67 | | | 1651 | 4.0 | 121 | | | 1732 | 3.9 | 119 | | | 1743 | 4.5 | 137 | | | 1823 | 5.1 | 155 | |
| | 2226 | 15.4 | 470 | | | 2243 | 16.9 | 514 | | | 2226 | 15.3 | 466 | | | 2304 | 15.9 | 485 | | | 2323 | 15.6 | 477 | | | | | | |
| 5 Tu | 0504 | 2.4 | 72 | | 20 W | 0527 | 1.6 | 49 | | 5 Th | 0502 | 3.1 | 95 | | 20 F | 0538 | 3.5 | 107 | | 5 Su | 0547 | 4.0 | 121 | | 20 M | 0603 | 15.5 | 471 | |
| | 1038 | 15.9 | 485 | | | 1101 | 17.7 | 538 | | | 1038 | 16.4 | 499 | | | 1124 | 16.9 | 516 | | | 1138 | 16.9 | 515 | | | 0623 | 5.2 | 157 | |
| | 1719 | 3.1 | 94 | | | 1753 | 2.8 | 85 | | | 1723 | 4.1 | 124 | | | 1811 | 4.5 | 137 | | | 1824 | 4.6 | 140 | | | 1219 | 16.3 | 496 | |
| | 2252 | 15.3 | 465 | | | 2323 | 16.0 | 489 | | | 2258 | 15.1 | 461 | | | 2346 | 15.2 | 464 | | | | | | | | 1854 | 5.4 | 165 | |
| 6 W | 0530 | 2.4 | 72 | | 21 Th | 0602 | 2.4 | 73 | | 6 F | 0531 | 3.3 | 100 | | 21 Sa | 0613 | 4.3 | 131 | | 6 M | 0606 | 15.5 | 472 | | 21 Tu | 0638 | 15.1 | 460 | |
| | 1105 | 15.9 | 484 | | | 1143 | 16.7 | 510 | | | 1112 | 16.2 | 494 | | | 1206 | 16.1 | 491 | | | 0624 | 4.4 | 134 | | | 0652 | 5.7 | 175 | |
| | 1746 | 3.3 | 100 | | | 1832 | 3.7 | 112 | | | 1757 | 4.3 | 132 | | | 1849 | 5.2 | 157 | | | 1222 | 16.6 | 507 | | | 1254 | 15.7 | 480 | |
| | 2320 | 15.0 | 456 | | | | | | | | 2333 | 14.8 | 451 | | | | | | | | 1906 | 4.8 | 145 | | | 1922 | 5.8 | 176 | |
| 7 Th | 0558 | 2.6 | 80 | | 22 F | 0604 | 15.0 | 457 | | 7 Sa | 0601 | 3.7 | 112 | | 22 Su | 0627 | 14.5 | 441 | | 7 Tu | 0652 | 15.3 | 466 | | 22 W | 0713 | 14.7 | 448 | |
| | 1136 | 15.6 | 476 | | | 0637 | 3.4 | 105 | | | 1150 | 15.9 | 485 | | | 0647 | 5.2 | 158 | | | 0705 | 5.0 | 151 | | | 0724 | 6.4 | 196 | |
| | 1815 | 3.7 | 113 | | | 1226 | 15.6 | 476 | | | 1832 | 4.7 | 143 | | | 1247 | 15.3 | 467 | | | 1308 | 16.3 | 496 | | | 1331 | 15.1 | 461 | |
| | 2350 | 14.5 | 441 | | | 1911 | 4.7 | 143 | | | | | | | | 1925 | 5.8 | 177 | | | 1950 | 5.0 | 151 | | | 1955 | 6.2 | 189 | |
| 8 F | 0625 | 3.1 | 95 | | 23 Sa | 0645 | 13.9 | 423 | | 8 Su | 0613 | 14.4 | 440 | | 23 M | 0107 | 13.8 | 421 | | 8 W | 0144 | 15.1 | 460 | | 23 Th | 0153 | 14.3 | 435 | |
| | 1207 | 15.2 | 463 | | | 0712 | 4.6 | 141 | | | 0633 | 4.2 | 129 | | | 0720 | 6.1 | 185 | | | 0757 | 5.6 | 170 | | | 0806 | 7.2 | 218 | |
| | 1844 | 4.3 | 131 | | | 1310 | 14.5 | 441 | | | 1230 | 15.6 | 474 | | | 1331 | 14.6 | 445 | | | 1400 | 15.8 | 482 | | | 1416 | 14.4 | 438 | |
| | | | | | | 1948 | 5.7 | 174 | | | 1908 | 5.1 | 155 | | | 2000 | 6.4 | 194 | | | 2042 | 5.2 | 158 | | | 2036 | 6.7 | 204 | |
| 9 Sa | 0622 | 13.9 | 425 | | 24 Su | 0128 | 12.8 | 391 | | 9 M | 0656 | 14.0 | 428 | | 24 Tu | 0150 | 13.3 | 404 | | 9 Th | 0242 | 14.9 | 454 | | 24 F | 0249 | 13.8 | 420 | |
| | 0651 | 3.7 | 113 | | | 0749 | 5.8 | 177 | | | 0712 | 4.9 | 148 | | | 0801 | 6.9 | 210 | | | 0900 | 6.1 | 187 | | | 0901 | 7.9 | 240 | |
| | 1242 | 14.7 | 449 | | | 1401 | 13.4 | 409 | | | 1316 | 15.1 | 461 | | | 1421 | 13.9 | 424 | | | 1503 | 15.3 | 465 | | | 1517 | 13.6 | 416 | |
| | 1915 | 4.9 | 150 | | | 2032 | 6.6 | 201 | | | 1955 | 5.4 | 166 | | | 2043 | 6.9 | 209 | | | 2146 | 5.3 | 163 | | | 2134 | 7.1 | 217 | |
| 10 Su | 0659 | 13.4 | 407 | | 25 M | 0223 | 11.9 | 363 | | 10 Tu | 0150 | 13.6 | 416 | | 25 W | 0248 | 12.8 | 391 | | 10 F | 0355 | 14.8 | 452 | | 25 Sa | 0406 | 13.5 | 411 | |
| | 0723 | 4.4 | 134 | | | 0837 | 6.9 | 209 | | | 0804 | 5.6 | 170 | | | 0856 | 7.6 | 232 | | | 1017 | 6.5 | 198 | | | 1023 | 8.3 | 252 | |
| | 1323 | 14.1 | 431 | | | 1515 | 12.6 | 384 | | | 1415 | 14.7 | 447 | | | 1525 | 13.4 | 408 | | | 1620 | 14.9 | 453 | | | 1636 | 13.2 | 401 | |
| | 1959 | 5.5 | 169 | | | 2144 | 7.2 | 219 | | | 2059 | 5.7 | 174 | | | 2144 | 7.2 | 219 | | | 2258 | 5.4 | 164 | | | 2258 | 7.3 | 222 | |
| 11 M | 0150 | 12.7 | 386 | | 26 Tu | 0349 | 11.4 | 347 | | 11 W | 0302 | 13.4 | 409 | | 26 Th | 0403 | 12.7 | 386 | | 11 Sa | 0516 | 15.2 | 462 | | 26 Su | 0530 | 13.7 | 418 | |
| | 0811 | 5.2 | 159 | | | 1006 | 7.6 | 231 | | | 0919 | 6.2 | 188 | | | 1023 | 8.0 | 244 | | | 1140 | 6.4 | 194 | | | 1202 | 7.9 | 242 | |
| | 1425 | 13.5 | 410 | | | 1638 | 12.3 | 376 | | | 1533 | 14.3 | 436 | | | 1637 | 13.1 | 400 | | | 1738 | 14.8 | 452 | | | 1753 | 13.2 | 402 | |
| | 2106 | 6.1 | 186 | | | 2324 | 7.2 | 218 | | | 2221 | 5.7 | 173 | | | 2309 | 7.1 | 217 | | | | | | | | | | | |
| 12 Tu | 0310 | 12.0 | 367 | | 27 W | 0525 | 11.5 | 351 | | 12 Th | 0430 | 13.6 | 416 | | 27 F | 0526 | 13.0 | 396 | | 12 Su | 0627 | 15.8 | 483 | | 27 M | 0645 | 14.4 | 439 | |
| | 0931 | 6.0 | 182 | | | 1157 | 7.4 | 226 | | | 1053 | 6.3 | 191 | | | 1200 | 7.7 | 234 | | | 1259 | 5.9 | 181 | | | 1314 | 7.2 | 220 | |
| | 1559 | 13.1 | 400 | | | 1755 | 12.6 | 385 | | | 1657 | 14.4 | 440 | | | 1749 | 13.3 | 404 | | | 1847 | 15.1 | 460 | | | 1900 | 13.6 | 414 | |
| | 2252 | 6.1 | 186 | | | | | | | | 2343 | 5.2 | 158 | | | | | | | | | | | | | | | | |
| 13 W | 0458 | 12.2 | 371 | | 28 Th | 0638 | 6.6 | 200 | | 13 F | 0555 | 14.5 | 442 | | 28 Sa | 0624 | 6.7 | 203 | | 13 M | 0125 | 4.9 | 148 | | 28 Tu | 0132 | 6.2 | 189 | |
| | 1125 | 6.0 | 182 | | | 0656 | 12.4 | 378 | | | 1219 | 5.7 | 175 | | | 0642 | 13.8 | 420 | | | 0727 | 16.6 | 506 | | | 0737 | 15.2 | 464 | |
| | 1737 | 13.6 | 416 | | | 1314 | 6.7 | 203 | | | 1812 | 15.0 | 457 | | | 1309 | 7.0 | 212 | | | 1411 | 5.3 | 163 | | | 1409 | 6.5 | 197 | |
| | | | | | | 1902 | 13.3 | 406 | | | | | | | | 18 | | | | | | | | | | | | | |

Sagar, Hooghly River, India, 2011

Times and Heights of High and Low Waters

| July | | | | August | | | | September | | | | | | | | | | | | | | | | | | | | | |
|-----------------|--------|------|------|--------|-----------------|------|--------|-----------|------|-----------------|------|------|--------|----|-----------------|------|------|-----|--|-----------------|------|------|-----|--|-----------------|------|------|-----|--|
| Time | Height | | Time | Height | | Time | Height | | Time | Height | | Time | Height | | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | | | | | | |
| 1 F | 0348 | 4.3 | 130 | | 16 Sa | 0437 | 4.1 | 126 | | 1 M | 1027 | 19.1 | 582 | | 16 Tu | 0513 | 4.0 | 123 | | 1 Th | 0552 | 2.7 | 82 | | 16 F | 0536 | 4.3 | 132 | |
| | 0930 | 17.4 | 529 | | | 1016 | 17.8 | 543 | | | 1027 | 19.1 | 582 | | | 1052 | 17.6 | 536 | | | 1127 | 18.7 | 571 | | | 1115 | 16.6 | 506 | |
| | 1612 | 4.6 | 141 | | | 1657 | 4.3 | 132 | | | 1716 | 2.7 | 82 | | | 1721 | 3.9 | 120 | | | 1811 | 2.5 | 75 | | | 1746 | 3.9 | 120 | |
| | 2150 | 16.3 | 496 | | | 2236 | 16.6 | 505 | | | 2256 | 18.5 | 564 | | | 2306 | 17.2 | 525 | | | 2355 | 18.7 | 570 | | | 2332 | 17.0 | 519 | |
| 2 Sa | 0424 | 3.8 | 116 | | 17 Su | 0508 | 4.2 | 127 | | 2 Tu | 0528 | 2.8 | 86 | | 17 W | 0533 | 4.2 | 128 | | 2 F | 0630 | 3.5 | 108 | | 17 Sa | 0603 | 4.9 | 148 | |
| | 1005 | 17.8 | 544 | | | 1049 | 17.7 | 538 | | | 1107 | 19.0 | 579 | | | 1116 | 17.3 | 526 | | | 1207 | 17.6 | 537 | | | 1143 | 15.9 | 486 | |
| | 1651 | 4.2 | 127 | | | 1727 | 4.4 | 134 | | | 1754 | 2.6 | 80 | | | 1744 | 4.0 | 122 | | | 1849 | 3.4 | 105 | | | 1814 | 4.6 | 139 | |
| | 2230 | 16.8 | 511 | | | 2307 | 16.6 | 505 | | | 2337 | 18.5 | 563 | | | 2332 | 17.1 | 521 | | | | | | | | | | | |
| 3 Su | 0500 | 3.5 | 108 | | 18 M | 0535 | 4.4 | 133 | | 3 W | 0606 | 3.2 | 97 | | 18 Th | 0557 | 4.5 | 137 | | 3 Sa | 0709 | 4.7 | 143 | | 18 Su | 0630 | 16.4 | 499 | |
| | 1044 | 18.1 | 551 | | | 1119 | 17.4 | 529 | | | 1147 | 18.5 | 564 | | | 1142 | 16.8 | 512 | | | 1251 | 16.2 | 495 | | | 0630 | 5.6 | 171 | |
| | 1732 | 3.8 | 117 | | | 1753 | 4.6 | 139 | | | 1833 | 3.0 | 90 | | | 1811 | 4.3 | 130 | | | 1927 | 4.7 | 143 | | | 1210 | 15.2 | 463 | |
| | 2312 | 17.0 | 519 | | | 2335 | 16.5 | 502 | | | | | | | | | | | | | | | | | | 1840 | 5.3 | 163 | |
| 4 M | 0538 | 3.6 | 110 | | 19 Tu | 0558 | 4.7 | 143 | | 4 Th | 0644 | 3.9 | 118 | | 19 F | 0623 | 5.1 | 155 | | 4 Su | 0751 | 6.0 | 183 | | 19 M | 0658 | 6.5 | 198 | |
| | 1124 | 18.0 | 550 | | | 1146 | 17.0 | 517 | | | 1229 | 17.7 | 540 | | | 1210 | 16.1 | 492 | | | 1337 | 14.8 | 450 | | | 1242 | 14.4 | 438 | |
| | 1813 | 3.8 | 117 | | | 1817 | 4.7 | 144 | | | 1912 | 3.6 | 109 | | | 1840 | 4.8 | 146 | | | 2011 | 6.0 | 184 | | | 1908 | 6.2 | 189 | |
| | 2356 | 17.0 | 518 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 Tu | 0616 | 3.9 | 120 | | 20 W | 0604 | 16.3 | 496 | | 5 F | 0724 | 4.8 | 146 | | 20 Sa | 0652 | 5.9 | 180 | | 5 M | 0848 | 7.3 | 222 | | 20 Tu | 0735 | 7.4 | 225 | |
| | 1207 | 17.7 | 540 | | | 0622 | 5.1 | 155 | | | 1312 | 16.6 | 507 | | | 1239 | 15.3 | 466 | | | 1445 | 13.3 | 405 | | | 1326 | 13.5 | 411 | |
| | 1854 | 3.9 | 119 | | | 1845 | 5.0 | 151 | | | 1952 | 4.5 | 136 | | | 1910 | 5.5 | 169 | | | 2115 | 7.3 | 222 | | | 1951 | 7.1 | 216 | |
| 6 W | 0039 | 16.8 | 512 | | 21 Th | 0034 | 15.9 | 485 | | 6 Sa | 0145 | 16.3 | 496 | | 21 Su | 0100 | 15.2 | 463 | | 6 Tu | 0359 | 13.7 | 417 | | 21 W | 0844 | 8.0 | 245 | |
| | 0657 | 4.5 | 137 | | | 0650 | 5.7 | 173 | | | 0809 | 5.9 | 179 | | | 0724 | 6.9 | 209 | | | 1036 | 8.0 | 243 | | | 0844 | 8.0 | 245 | |
| | 1250 | 17.2 | 525 | | | 1247 | 15.9 | 484 | | | 1401 | 15.4 | 469 | | | 1312 | 14.3 | 437 | | | 1652 | 12.6 | 384 | | | 1447 | 12.7 | 386 | |
| | 1935 | 4.2 | 128 | | | 1914 | 5.4 | 165 | | | 2038 | 5.5 | 168 | | | 1942 | 6.5 | 197 | | | 2315 | 7.7 | 236 | | | 2118 | 7.8 | 238 | |
| 7 Th | 0125 | 16.4 | 500 | | 22 F | 0107 | 15.4 | 468 | | 7 Su | 0240 | 15.2 | 462 | | 22 M | 0137 | 14.3 | 435 | | 7 W | 0547 | 13.9 | 424 | | 22 Th | 0352 | 13.5 | 410 | |
| | 0742 | 5.2 | 158 | | | 0724 | 6.5 | 197 | | | 0910 | 7.0 | 212 | | | 0808 | 7.8 | 239 | | | 1230 | 7.4 | 226 | | | 1046 | 8.0 | 244 | |
| | 1338 | 16.5 | 503 | | | 1322 | 15.0 | 458 | | | 1509 | 14.1 | 429 | | | 1357 | 13.3 | 406 | | | 1846 | 13.2 | 403 | | | 1659 | 12.7 | 388 | |
| | 2017 | 4.7 | 142 | | | 1948 | 6.1 | 185 | | | 2143 | 6.5 | 198 | | | 2031 | 7.3 | 223 | | | | | | | | 2327 | 7.6 | 231 | |
| 8 F | 0214 | 15.9 | 484 | | 23 Sa | 0145 | 14.6 | 445 | | 8 M | 0416 | 14.4 | 438 | | 23 Tu | 0244 | 13.4 | 409 | | 8 Th | 0058 | 7.0 | 214 | | 23 F | 0545 | 14.2 | 434 | |
| | 0835 | 6.0 | 182 | | | 0805 | 7.4 | 225 | | | 1044 | 7.6 | 231 | | | 0926 | 8.5 | 259 | | | 0704 | 14.9 | 454 | | | 1229 | 6.9 | 209 | |
| | 1431 | 15.6 | 476 | | | 1402 | 14.0 | 428 | | | 1658 | 13.3 | 405 | | | 1526 | 12.4 | 379 | | | 1347 | 6.3 | 193 | | | 1835 | 14.0 | 427 | |
| | 2110 | 5.2 | 160 | | | 2032 | 6.8 | 208 | | | 2321 | 7.0 | 212 | | | 2208 | 7.8 | 238 | | | 1948 | 14.4 | 438 | | | | | | |
| 9 Sa | 0317 | 15.3 | 467 | | 24 Su | 0238 | 13.8 | 422 | | 9 Tu | 0555 | 14.6 | 444 | | 24 W | 0455 | 13.4 | 408 | | 9 F | 0209 | 5.9 | 181 | | 24 Sa | 0655 | 15.6 | 477 | |
| | 0941 | 6.7 | 204 | | | 0904 | 8.2 | 250 | | | 1235 | 7.2 | 220 | | | 1137 | 8.2 | 250 | | | 0756 | 15.9 | 486 | | | 1341 | 5.4 | 164 | |
| | 1542 | 14.7 | 448 | | | 1506 | 13.1 | 399 | | | 1840 | 13.6 | 414 | | | 1738 | 12.6 | 385 | | | 1438 | 5.3 | 163 | | | 1937 | 15.7 | 479 | |
| | 2217 | 5.8 | 178 | | | 2136 | 7.4 | 227 | | | | | | | | | | | | | 2030 | 15.4 | 470 | | | | | | |
| 10 Su | 0442 | 15.1 | 459 | | 25 M | 0414 | 13.4 | 409 | | 10 W | 0101 | 6.5 | 198 | | 25 Th | 0007 | 7.3 | 222 | | 10 Sa | 0259 | 5.1 | 154 | | 25 Su | 0749 | 17.1 | 521 | |
| | 1106 | 7.0 | 214 | | | 1040 | 8.5 | 260 | | | 0710 | 15.5 | 471 | | | 0629 | 14.4 | 440 | | | 0837 | 16.8 | 511 | | | 1437 | 4.0 | 121 | |
| | 1711 | 14.2 | 432 | | | 1647 | 12.6 | 385 | | | 1400 | 6.2 | 190 | | | 1307 | 7.0 | 213 | | | 1518 | 4.6 | 140 | | | 2022 | 17.4 | 529 | |
| | 2339 | 6.1 | 185 | | | 2318 | 7.5 | 229 | | | 1950 | 14.5 | 441 | | | 1904 | 13.8 | 421 | | | 2103 | 16.3 | 497 | | | | | | |
| 11 M | 0604 | 15.4 | 468 | | 26 Tu | 0553 | 13.8 | 422 | | 11 Th | 0217 | 5.6 | 171 | | 26 F | 0125 | 6.1 | 187 | | 11 Su | 0338 | 4.4 | 135 | | 26 M | 0258 | 3.9 | 118 | |
| | 1239 | 6.7 | 205 | | | 1227 | 7.9 | 241 | | | 0808 | 16.4 | 500 | | | 0728 | 15.8 | 483 | | | 0912 | 17.3 | 527 | | | 0833 | 18.2 | 556 | |
| | 1835 | 14.3 | 435 | | | 1818 | 13.0 | 396 | | | 1456 | 5.3 | 161 | | | 1411 | 5.6 | 171 | | | 1549 | 4.1 | 126 | | | 1521 | 2.8 | 85 | |
| | | | | | | | | | | | 2039 | 15.4 | 469 | | | 1959 | 15.3 | 467 | | | 2131 | 16.9 | 516 | | | 2100 | 18.7 | 571 | |
| 12 Tu | 0105 | 5.8 | 177 | | 27 W | 0047 | 6.8 | 208 | | 12 F | 0311 | 4.8 | 147 | | 27 Sa | 0227 | 5.0 | 151 | | 12 M | 0408 | 4.1 | 125 | | 27 Tu | 0343 | 3.0 | 90 | |
| | 0714 | 16.0 | 489 | | | 0704 | 14.8 | 452 | | | 0852 | 17.2 | 524 | | | 0815 | 17.2 | 525 | | | 0940 | 17.5 | 534 | | | 0913 | 19.0 | 580 | |
| | 1402 | 6.1 | 185 | | | 1337 | 6.9 | 211 | | | 1537 | 4.6 | 139 | | | 1500 | 4.3 | 130 | | | 1613 | 3.8 | 117 | | | 1600 | 2.0 | 61 | |
| | 1943 | 14.8 | 451 | | | 1927 | 13.9 | 423 | | | 2116 | 16.2 | 493 | | | 2041 | 16.8 | 513 | | | 2155 | 17.4 | 529 | | | 2138 | 19.7 | 599 | |
| 13 W | 0219 | 5.2 | 160 | | 28 Th | 0153 | 5.9 | 180 | | 13 Sa | 0353 | 4.3 | 131 | | 28 Su | 0317 | 3.8 | 117 | | 13 Tu | 0432 | 4.0 | 121 | | 28 W | 0422 | 2.4 | 73 | |

Sagar, Hooghly River, India, 2011

Times and Heights of High and Low Waters

| October | | | | | November | | | | | December | | | | | | | | | | | | | | | | | | | |
|-----------------|------|------|--------|------|-----------------|------|------|--------|------|-----------------|------|------|--------|------|-----------------|------|------|--------|------|-----------------|------|------|------|------|-----------------|------|------|------|-----|
| | Time | | Height | | | Time | | Height | | | Time | | Height | | | Time | | Height | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | |
| 1 Sa | 0620 | 3.7 | 114 | | 16 Su | 0551 | 5.0 | 152 | | 1 Tu | 0055 | 15.7 | 480 | | 16 W | 0015 | 15.9 | 484 | | 1 Th | 0131 | 14.9 | 453 | | 16 F | 0057 | 15.8 | 483 | |
| | 1152 | 17.1 | 520 | | | 1127 | 15.6 | 474 | | | 0738 | 6.2 | 188 | | | 0656 | 5.6 | 172 | | | 0805 | 6.1 | 186 | | | 0740 | 4.5 | 137 | |
| | 1828 | 3.7 | 114 | | | 1755 | 4.6 | 140 | | | 1318 | 14.0 | 426 | | | 1241 | 14.4 | 438 | | | 1352 | 13.6 | 415 | | | 1327 | 14.8 | 450 | |
| | | | | 2345 | 16.4 | 499 | | 1939 | 6.6 | 202 | | 1856 | 5.6 | 172 | | 2007 | 6.9 | 209 | | 1944 | 5.1 | 155 | | | | | | | |
| 2 Su | 0016 | 17.5 | 532 | | 17 M | 0620 | 5.6 | 170 | | 2 W | 0147 | 14.5 | 443 | | 17 Th | 0056 | 15.5 | 471 | | 2 F | 0217 | 14.1 | 429 | | 17 Sa | 0141 | 15.5 | 471 | |
| | 0700 | 5.0 | 151 | | | 1159 | 14.9 | 455 | | | 0827 | 7.1 | 216 | | | 0737 | 5.9 | 181 | | | 0843 | 6.6 | 202 | | | 0823 | 4.6 | 141 | |
| | 1236 | 15.6 | 476 | | | 1824 | 5.3 | 161 | | | 1418 | 13.1 | 398 | | | 1331 | 14.0 | 428 | | | 1444 | 13.1 | 399 | | | 1417 | 14.6 | 444 | |
| | 1908 | 5.2 | 157 | | ● | 2033 | 7.7 | 235 | | ● | 2033 | 7.7 | 235 | | 1944 | 6.3 | 191 | | ● | 2056 | 7.6 | 232 | | 2037 | 5.6 | 172 | | | |
| 3 M | 0102 | 15.9 | 486 | | 18 Tu | 0016 | 15.7 | 480 | | 3 Th | 0300 | 13.6 | 415 | | 18 F | 0148 | 15.0 | 457 | | 3 Sa | 0313 | 13.4 | 407 | | 18 Su | 0233 | 14.9 | 454 | |
| | 0742 | 6.2 | 190 | | | 0651 | 6.2 | 190 | | | 0936 | 7.7 | 234 | | | 0829 | 6.1 | 187 | | | 0934 | 7.0 | 214 | | | 0915 | 4.9 | 148 | |
| | 1323 | 14.1 | 431 | | | 1236 | 14.3 | 435 | | | 1540 | 12.5 | 382 | | | ● | 2050 | 6.8 | 208 | | | 1550 | 12.8 | 389 | | | 1518 | 14.3 | 437 |
| | 1952 | 6.6 | 200 | | 1856 | 6.0 | 184 | | 2203 | 8.4 | 256 | | ● | 2050 | 6.8 | 208 | | 2212 | 8.1 | 248 | | ● | 2144 | 6.1 | 187 | | | | |
| 4 Tu | 0157 | 14.5 | 441 | | 19 W | 0055 | 15.1 | 460 | | 4 F | 0419 | 13.2 | 402 | | 19 Sa | 0255 | 14.5 | 443 | | 4 Su | 0419 | 12.8 | 391 | | 19 M | 0338 | 14.2 | 434 | |
| | 0838 | 7.4 | 226 | | | 0729 | 6.8 | 208 | | | 1103 | 7.7 | 234 | | | 0940 | 6.2 | 188 | | | 1046 | 7.2 | 219 | | | 1020 | 5.1 | 155 | |
| | 1434 | 12.9 | 393 | | | 1324 | 13.6 | 416 | | | 1708 | 12.7 | 386 | | | 1552 | 13.9 | 423 | | | 1707 | 12.8 | 390 | | | 1636 | 14.3 | 435 | |
| | ● | 2055 | 7.8 | 238 | | 1941 | 6.9 | 209 | | 2344 | 8.2 | 251 | | 2216 | 7.1 | 215 | | 2348 | 8.1 | 246 | | 2304 | 6.4 | 194 | | | | | |
| 5 W | 0336 | 13.4 | 409 | | 20 Th | 0150 | 14.4 | 439 | | 5 Sa | 0536 | 13.3 | 404 | | 20 Su | 0417 | 14.4 | 438 | | 5 M | 0532 | 12.6 | 385 | | 20 Tu | 0459 | 13.8 | 420 | |
| | 1021 | 8.0 | 245 | | | 0832 | 7.3 | 223 | | | 1211 | 7.3 | 221 | | | 1100 | 5.8 | 178 | | | 1203 | 7.0 | 212 | | | 1136 | 5.1 | 156 | |
| | 1629 | 12.3 | 376 | | | 1438 | 13.1 | 400 | | | 1837 | 13.4 | 409 | | | 1719 | 14.5 | 442 | | | 1832 | 13.3 | 406 | | | 1758 | 14.7 | 447 | |
| | 2256 | 8.3 | 253 | | ● | 2058 | 7.5 | 230 | | ● | 2058 | 7.5 | 230 | | 2346 | 6.7 | 203 | | ● | 2058 | 7.5 | 230 | | | | | | | |
| 6 Th | 0518 | 13.4 | 408 | | 21 F | 0317 | 13.9 | 425 | | 6 Su | 0059 | 7.5 | 230 | | 21 M | 0538 | 14.7 | 447 | | 6 Tu | 0103 | 7.5 | 228 | | 21 W | 0031 | 6.1 | 186 | |
| | 1159 | 7.6 | 232 | | | 1007 | 7.3 | 222 | | | 0645 | 13.7 | 419 | | | 1216 | 5.2 | 159 | | | 0644 | 12.9 | 392 | | | 0619 | 13.8 | 420 | |
| | 1823 | 12.9 | 394 | | | 1624 | 13.3 | 404 | | | 1311 | 6.6 | 201 | | | 1834 | 15.6 | 474 | | | 1312 | 6.4 | 195 | | | 1256 | 4.9 | 148 | |
| | | | | 2250 | 7.5 | 230 | | 1931 | 14.4 | 440 | | | | | | 1932 | 14.1 | 431 | | 1908 | 15.4 | 469 | | | | | | | |
| 7 F | 0034 | 7.6 | 233 | | 22 Sa | 0459 | 14.3 | 435 | | 7 M | 0159 | 6.7 | 204 | | 22 Tu | 0105 | 5.9 | 179 | | 7 W | 0205 | 6.7 | 203 | | 22 Th | 0154 | 5.5 | 167 | |
| | 0638 | 14.1 | 430 | | | 1144 | 6.5 | 198 | | | 0735 | 14.4 | 439 | | | 0647 | 15.3 | 465 | | | 0742 | 13.4 | 407 | | | 0729 | 14.2 | 432 | |
| | 1312 | 6.8 | 206 | | | 1801 | 14.3 | 437 | | | 1404 | 5.8 | 178 | | | 1328 | 4.5 | 136 | | | 1411 | 5.7 | 174 | | | 1411 | 4.4 | 133 | |
| | 1927 | 14.0 | 428 | | | 2011 | 15.4 | 469 | | 2011 | 15.4 | 469 | | 1932 | 16.7 | 509 | | 2017 | 14.9 | 454 | | 2007 | 16.2 | 493 | | | | | |
| 8 Sa | 0145 | 6.7 | 203 | | 23 Su | 0024 | 6.7 | 203 | | 8 Tu | 0245 | 5.9 | 179 | | 23 W | 0213 | 5.0 | 151 | | 8 Th | 0253 | 5.9 | 181 | | 23 F | 0304 | 4.7 | 144 | |
| | 0730 | 15.0 | 457 | | | 0618 | 15.3 | 466 | | | 0816 | 15.0 | 456 | | | 0744 | 15.9 | 485 | | | 0826 | 13.8 | 422 | | | 0828 | 14.7 | 448 | |
| | 1405 | 5.9 | 179 | | | 1300 | 5.3 | 161 | | | 1449 | 5.2 | 157 | | | 1431 | 3.8 | 115 | | | 1500 | 5.1 | 154 | | | 1515 | 3.8 | 115 | |
| | 2008 | 15.2 | 462 | | 1908 | 15.9 | 484 | | 2044 | 16.1 | 491 | | 2019 | 17.6 | 537 | | 2053 | 15.5 | 471 | | 2059 | 16.8 | 512 | | | | | | |
| 9 Su | 0236 | 5.7 | 175 | | 24 M | 0137 | 5.4 | 166 | | 9 W | 0321 | 5.3 | 161 | | 24 Th | 0309 | 4.2 | 128 | | 9 F | 0332 | 5.4 | 165 | | 24 Sa | 0357 | 4.1 | 124 | |
| | 0811 | 15.8 | 481 | | | 0717 | 16.4 | 500 | | | 0850 | 15.4 | 468 | | | 0834 | 16.4 | 501 | | | 0902 | 14.2 | 434 | | | 0920 | 15.2 | 463 | |
| | 1447 | 5.1 | 156 | | | 1403 | 4.1 | 125 | | | 1524 | 4.6 | 141 | | | 1522 | 3.2 | 98 | | | 1539 | 4.6 | 139 | | | 1606 | 3.3 | 102 | |
| | 2042 | 16.1 | 490 | | 1958 | 17.4 | 529 | | 2112 | 16.6 | 505 | | 2104 | 18.2 | 555 | | 2123 | 15.9 | 484 | | ● | 2146 | 17.2 | 523 | | | | | |
| 10 M | 0315 | 5.0 | 153 | | 25 Tu | 0237 | 4.3 | 132 | | 10 Th | 0352 | 5.0 | 151 | | 25 F | 0357 | 3.7 | 114 | | 10 Sa | 0405 | 5.0 | 153 | | 25 Su | 0442 | 3.7 | 112 | |
| | 0845 | 16.3 | 498 | | | 0808 | 17.4 | 530 | | | 1556 | 4.3 | 130 | | | 0922 | 16.7 | 510 | | | 0934 | 14.6 | 445 | | | 1008 | 15.5 | 472 | |
| | 1521 | 4.5 | 138 | | | 1456 | 3.1 | 95 | | | 2137 | 16.8 | 513 | | | ● | 1608 | 3.0 | 90 | | | 1611 | 4.2 | 128 | | | 1650 | 3.1 | 96 |
| | 2109 | 16.8 | 512 | | 2040 | 18.6 | 566 | | | | | | ● | 2147 | 18.4 | 561 | | ● | 2231 | 17.2 | 524 | | | | | | | | |
| 11 Tu | 0346 | 4.6 | 140 | | 26 W | 0325 | 3.5 | 106 | | 11 F | 0418 | 4.8 | 146 | | 26 Sa | 0442 | 3.6 | 109 | | 11 Su | 0436 | 4.7 | 144 | | 26 M | 0524 | 3.5 | 108 | |
| | 0916 | 16.6 | 507 | | | 0852 | 18.0 | 550 | | | 0948 | 15.6 | 477 | | | 1008 | 16.7 | 509 | | | 1007 | 14.9 | 453 | | | 1052 | 15.6 | 474 | |
| | 1549 | 4.1 | 125 | | | 1540 | 2.5 | 75 | | | 1621 | 4.0 | 123 | | | 1650 | 3.0 | 92 | | | 1642 | 3.9 | 119 | | | 1729 | 3.2 | 98 | |
| | 2132 | 17.2 | 525 | | 2118 | 19.3 | 589 | | ● | 2202 | 16.9 | 516 | | 2231 | 18.2 | 554 | | 2223 | 16.4 | 499 | | 2312 | 16.9 | 516 | | | | | |
| 12 W | 0412 | 4.4 | 133 | | 27 Th | 0408 | 3.0 | 91 | | 12 Sa | 0444 | 4.7 | 144 | | 27 Su | 0525 | 3.8 | 115 | | 12 M | 0509 | 4.5 | 137 | | 27 Tu | 0604 | 3.6 | 111 | |
| | 0942 | 16.7 | 510 | | | 0934 | 18.3 | 557 | | | 1016 | 15.6 | 476 | | | 1053 | 16.3 | 498 | | | 1041 | 15.1 | 459 | | | 1132 | 15.4 | 469 | |
| | 1612 | 3.8 | 117 | | | 1619 | 2.2 | 67 | | | 1648 | 4.0 | 122 | | | 1731 | 3.4 | 105 | | | 1712 | 3.8 | 116 | | | 1806 | 3.6 | 109 | |
| | ● | 2155 | 17.5 | 532 | | ● | 2156 | 19.6 | 596 | | 2229 | 16.9 | 514 | | 2315 | 17.6 | 535 | | 2258 | 16.4 | 501 | | 2352 | 16.4 | 501 | | | | |
| 13 Th | 0434 | 4.3 | 131 | | 28 F | 0448 | 3.0 | 90 | | 13 Su | 0513 | 4.8 | 146 | | 28 M | 0609 | 4.2 | 129 | | 13 Tu | 0546 | 4.4 | 133 | | 28 W | 0639 | 3.9 | 120 | |
| | 1006 | 16.6 | 507 | | | 1015 | 18.0 | 550 | | | 1047 | 15.5 | 471 | | | 1139 | 15.7 | 479 | | | 1120 | 15.1 | 460 | | | 1210 | 15.1 | 459 | |
| | 1635 | 3.7 | 113 | | | 1657 | 2.4 | 74 | | | 1717 | 4.1 | 126 | | | 1811 | 4.2 | 127 | | | 1746 | 3.9 | 118 | | | 1838 | 4.1 | 126 | |
| | 2217 | 17.5 | 533 | | 2237 | 19.2 | 584 | | 2302 | 16.6 | 507 | | | | | | 2335 | 16.4 | 499 | | | | | | | | | | |
| 14 F | 0456 | 4.4 | 133 | | 29 Sa | 0530 | 3.4 | 103 | | 14 M | 0546 | 5.0 | 152 | | 29 Tu | 0000 | 16.7 | 509 | | 14 W | 0624 | 4.3 | 132 | | 29 Th | 0029 | 15.8 | 482 | |
| | 1030 | 16.4 | 501 | | | 1059 | 17.4 | 529 | | | 1121 | 15.2 | 462 | | | 0650 | 4.8 | 147 | | | 1200 | 15.0 | 458 | | | 0709 | 4.3 | 131 | |
| | 1659 | 3.7 | 114 | | | 1737 | 3 | | | | | | | | | | | | | | | | | | | | | | |

Madras, India, 2011

Times and Heights of High and Low Waters

| April | | | | | May | | | | | June | | | | | | | | | | | | | | | | | | | |
|-----------------|------|--------|-----|----|-----------------|------|--------|-----|----|-----------------|------|--------|-----|----|-----------------|------|--------|-----|----|-----------------|------|-----|-----|------|-----------------|------|-----|-----|--|
| Time | | Height | | | Time | | Height | | | Time | | Height | | | Time | | Height | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | |
| 1 F | 0138 | 0.6 | 19 | | 16 Sa | 0056 | 0.3 | 9 | | 1 Su | 0126 | 0.8 | 24 | | 16 M | 0107 | 0.4 | 13 | | 1 W | 0145 | 0.7 | 20 | | 16 Th | 0215 | 0.4 | 13 | |
| | 0744 | 2.9 | 87 | | | 0712 | 3.5 | 106 | | | 0745 | 3.3 | 101 | | | 0737 | 3.9 | 119 | | | 0820 | 3.6 | 111 | | | 0847 | 4.0 | 121 | |
| | 1345 | 0.7 | 22 | | | 1312 | 0.7 | 21 | | | 1354 | 1.1 | 34 | | | 1345 | 1.0 | 29 | | | 1436 | 1.2 | 36 | | | 1512 | 0.8 | 25 | |
| | 1944 | 3.0 | 92 | | | 1913 | 3.6 | 109 | | | 1938 | 3.1 | 94 | | | 1938 | 3.5 | 108 | | | 2013 | 3.0 | 92 | | | 2056 | 3.2 | 97 | |
| 2 Sa | 0205 | 0.5 | 14 | | 17 Su | 0138 | 0.1 | 2 | | 2 M | 0154 | 0.7 | 20 | | 17 Tu | 0151 | 0.3 | 10 | | 2 Th | 0218 | 0.5 | 16 | | 17 F | 0257 | 0.5 | 14 | |
| | 0811 | 3.1 | 93 | | | 0755 | 3.8 | 115 | | | 0813 | 3.5 | 106 | | | 0819 | 4.1 | 124 | | | 0853 | 3.7 | 114 | | | 0928 | 3.9 | 120 | |
| | 1415 | 0.7 | 20 | | | 1359 | 0.5 | 16 | | | 1425 | 1.0 | 31 | | | 1433 | 0.8 | 24 | | | 1512 | 1.1 | 33 | | | 1555 | 0.8 | 24 | |
| | 2009 | 3.1 | 94 | | | 1958 | 3.7 | 112 | | | 2008 | 3.1 | 95 | | | 2025 | 3.5 | 107 | | | 2050 | 3.1 | 93 | | | 2138 | 3.1 | 95 | |
| 3 Su | 0229 | 0.3 | 10 | | 18 M | 0219 | -0.1 | -2 | | 3 Tu | 0219 | 0.5 | 16 | | 18 W | 0233 | 0.3 | 9 | | 3 F | 0253 | 0.5 | 14 | | 18 Sa | 0338 | 0.6 | 17 | |
| | 0836 | 3.2 | 98 | | | 0836 | 4.0 | 121 | | | 0842 | 3.6 | 109 | | | 0901 | 4.1 | 125 | | | 0928 | 3.8 | 117 | | | 1007 | 3.9 | 118 | |
| | 1443 | 0.6 | 18 | | | 1446 | 0.4 | 13 | | | 1454 | 1.0 | 30 | | | 1521 | 0.8 | 23 | | | 1550 | 1.0 | 31 | | | 1635 | 0.8 | 25 | |
| | 2034 | 3.1 | 95 | | | 2040 | 3.7 | 112 | | | 2036 | 3.1 | 95 | | | 2110 | 3.4 | 104 | | | 2129 | 3.1 | 94 | | | 2220 | 3.1 | 93 | |
| 4 M | 0253 | 0.2 | 7 | | 19 Tu | 0258 | -0.1 | -3 | | 4 W | 0247 | 0.4 | 13 | | 19 Th | 0315 | 0.4 | 11 | | 4 Sa | 0331 | 0.5 | 14 | | 19 Su | 0417 | 0.7 | 21 | |
| | 0901 | 3.3 | 101 | | | 0917 | 4.0 | 122 | | | 0911 | 3.6 | 111 | | | 0943 | 4.1 | 124 | | | 1006 | 3.9 | 118 | | | 1045 | 3.7 | 114 | |
| | 1510 | 0.6 | 17 | | | 1531 | 0.4 | 12 | | | 1525 | 1.0 | 29 | | | 1609 | 0.8 | 23 | | | 1633 | 1.0 | 29 | | | 1713 | 0.9 | 26 | |
| | 2100 | 3.1 | 95 | | | 2124 | 3.5 | 108 | | | 2107 | 3.1 | 94 | | | 2155 | 3.2 | 99 | | | 2212 | 3.1 | 94 | | | 2301 | 3.0 | 90 | |
| 5 Tu | 0317 | 0.2 | 5 | | 20 W | 0338 | 0.0 | 0 | | 5 Th | 0317 | 0.4 | 11 | | 20 F | 0357 | 0.5 | 15 | | 5 Su | 0410 | 0.5 | 16 | | 20 M | 0457 | 0.9 | 27 | |
| | 0929 | 3.3 | 102 | | | 0959 | 3.9 | 119 | | | 0945 | 3.7 | 112 | | | 1027 | 3.9 | 119 | | | 1044 | 3.9 | 118 | | | 1123 | 3.6 | 109 | |
| | 1539 | 0.6 | 18 | | | 1617 | 0.5 | 15 | | | 1600 | 1.0 | 29 | | | 1655 | 0.9 | 26 | | | 1716 | 0.9 | 28 | | | 1751 | 0.9 | 28 | |
| | 2128 | 3.1 | 93 | | | 2209 | 3.3 | 101 | | | 2139 | 3.0 | 92 | | | 2240 | 3.1 | 93 | | | 2258 | 3.1 | 94 | | | 2344 | 2.9 | 88 | |
| 6 W | 0343 | 0.1 | 4 | | 21 Th | 0419 | 0.2 | 6 | | 6 F | 0348 | 0.4 | 12 | | 21 Sa | 0441 | 0.7 | 22 | | 6 M | 0455 | 0.7 | 21 | | 21 Tu | 0536 | 1.1 | 33 | |
| | 1000 | 3.3 | 102 | | | 1044 | 3.7 | 114 | | | 1020 | 3.6 | 111 | | | 1112 | 3.7 | 114 | | | 1126 | 3.8 | 117 | | | 1203 | 3.4 | 104 | |
| | 1610 | 0.7 | 20 | | | 1705 | 0.7 | 20 | | | 1640 | 1.0 | 30 | | | 1743 | 1.0 | 30 | | | 1801 | 0.9 | 27 | | | 1828 | 1.0 | 30 | |
| | 2156 | 3.0 | 90 | | | 2254 | 3.0 | 92 | | | 2217 | 3.0 | 90 | | | 2329 | 2.9 | 88 | | | 2350 | 3.1 | 93 | | | | | | |
| 7 Th | 0412 | 0.2 | 5 | | 22 F | 0501 | 0.5 | 14 | | 7 Sa | 0424 | 0.5 | 14 | | 22 Su | 0523 | 1.0 | 30 | | 7 Tu | 0542 | 0.9 | 27 | | 22 W | 0631 | 2.8 | 86 | |
| | 1033 | 3.3 | 100 | | | 1130 | 3.5 | 106 | | | 1058 | 3.6 | 110 | | | 1158 | 3.5 | 108 | | | 1211 | 3.7 | 114 | | | 0618 | 1.2 | 38 | |
| | 1645 | 0.8 | 23 | | | 1758 | 0.9 | 26 | | | 1722 | 1.0 | 32 | | | 1831 | 1.1 | 34 | | | 1848 | 0.9 | 26 | | | 1241 | 3.2 | 98 | |
| | 2227 | 2.8 | 86 | | | 2344 | 2.7 | 83 | | | 2259 | 2.9 | 87 | | | | | | | | | | | 1907 | | 1.0 | 32 | | |
| 8 F | 0441 | 0.2 | 7 | | 23 Sa | 0547 | 0.8 | 23 | | 8 Su | 0504 | 0.6 | 19 | | 23 M | 0019 | 2.7 | 83 | | 8 W | 0049 | 3.0 | 92 | | 23 Th | 0121 | 2.8 | 84 | |
| | 1109 | 3.2 | 97 | | | 1224 | 3.2 | 99 | | | 1140 | 3.5 | 108 | | | 0610 | 1.2 | 37 | | | 0635 | 1.1 | 34 | | | 0703 | 1.4 | 44 | |
| | 1723 | 0.9 | 27 | | | 1856 | 1.0 | 32 | | | 1811 | 1.1 | 33 | | | 1246 | 3.3 | 102 | | | 1302 | 3.6 | 111 | | | 1321 | 3.0 | 92 | |
| | 2301 | 2.7 | 81 | | | | | | | | 2349 | 2.8 | 85 | | | 1920 | 1.2 | 38 | | | 1941 | 0.9 | 26 | | | 1951 | 1.1 | 35 | |
| 9 Sa | 0515 | 0.4 | 11 | | 24 Su | 0042 | 2.5 | 75 | | 9 M | 0549 | 0.8 | 25 | | 24 Tu | 0119 | 2.6 | 80 | | 9 Th | 0157 | 3.1 | 93 | | 24 F | 0220 | 2.7 | 83 | |
| | 1149 | 3.1 | 93 | | | 0638 | 1.1 | 33 | | | 1228 | 3.5 | 106 | | | 0700 | 1.5 | 45 | | | 0738 | 1.3 | 41 | | | 0759 | 1.6 | 50 | |
| | 1808 | 1.0 | 32 | | | 1323 | 3.0 | 92 | | | 1904 | 1.1 | 34 | | | 1335 | 3.1 | 96 | | | 1359 | 3.5 | 106 | | | 1408 | 2.8 | 86 | |
| | 2342 | 2.5 | 76 | | | 2004 | 1.2 | 37 | | | | | | | | 2011 | 1.3 | 41 | | | 2039 | 0.9 | 26 | | | 2043 | 1.2 | 36 | |
| 10 Su | 0554 | 0.6 | 17 | | 25 M | 0154 | 2.3 | 70 | | 10 Tu | 0052 | 2.7 | 83 | | 25 W | 0223 | 2.6 | 80 | | 10 F | 0307 | 3.1 | 94 | | 25 Sa | 0327 | 2.7 | 82 | |
| | 1238 | 3.0 | 90 | | | 0747 | 1.3 | 41 | | | 0646 | 1.1 | 33 | | | 0804 | 1.7 | 51 | | | 0851 | 1.5 | 46 | | | 0918 | 1.8 | 54 | |
| | 1906 | 1.1 | 35 | | | 1429 | 2.9 | 87 | | | 1326 | 3.4 | 104 | | | 1427 | 3.0 | 91 | | | 1501 | 3.3 | 102 | | | 1503 | 2.6 | 80 | |
| | | | | | | 2114 | 1.3 | 40 | | | 2006 | 1.1 | 34 | | | 2105 | 1.4 | 42 | | | 2142 | 0.9 | 26 | | | 2145 | 1.2 | 36 | |
| 11 M | 0036 | 2.3 | 71 | | 26 Tu | 0322 | 2.3 | 69 | | 11 W | 0213 | 2.7 | 83 | | 26 Th | 0334 | 2.7 | 81 | | 11 Sa | 0420 | 3.2 | 97 | | 26 Su | 0444 | 2.7 | 83 | |
| | 0649 | 0.8 | 24 | | | 0912 | 1.5 | 47 | | | 0757 | 1.3 | 40 | | | 0922 | 1.8 | 55 | | | 1012 | 1.5 | 47 | | | 1042 | 1.8 | 54 | |
| | 1341 | 2.9 | 88 | | | 1539 | 2.8 | 84 | | | 1430 | 3.3 | 102 | | | 1524 | 2.9 | 87 | | | 1610 | 3.2 | 97 | | | 1610 | 2.5 | 76 | |
| | 2023 | 1.2 | 37 | | | 2226 | 1.3 | 40 | | | 2112 | 1.0 | 32 | | | 2203 | 1.4 | 42 | | | 2247 | 0.8 | 25 | | | 2249 | 1.1 | 34 | |
| 12 Tu | 0205 | 2.2 | 68 | | 27 W | 0448 | 2.4 | 73 | | 12 Th | 0336 | 2.9 | 87 | | 27 F | 0445 | 2.8 | 84 | | 12 Su | 0530 | 3.3 | 102 | | 27 M | 0551 | 2.9 | 88 | |
| | 0812 | 1.0 | 31 | | | 1037 | 1.6 | 48 | | | 0918 | 1.4 | 44 | | | 1040 | 1.8 | 55 | | | 1127 | 1.5 | 45 | | | 1157 | 1.6 | 50 | |
| | 1501 | 2.9 | 88 | | | 1647 | 2.8 | 84 | | | 1539 | 3.3 | 101 | | | 1626 | 2.8 | 85 | | | 1725 | 3.1 | 95 | | | 1726 | 2.5 | 76 | |
| | 2146 | 1.1 | 33 | | | 2326 | 1.2 | 38 | | | 2220 | 0.9 | 28 | | | 2301 | 1.3 | 40 | | | 2347 | 0.7 | 22 | | | 2344 | 1.0 | 29 | |
| 13 W | 0356 | 2.3 | 71 | | 28 Th | 0553 | 2.6 | 80 | | 13 F | 0452 | 3.1 | 94 | | 28 Sa | 0547 | 3.0 | 90 | | 13 M | 0632 | 3.5 | 108 | | 28 Tu | 0642 | 3.1 | 94 | |
| | 0942 | 1.1 | 34 | | | 1146 | 1.5 | 46 | | | 1038 | 1.4 | 44 | | | 1149 | 1.7 | 53 | | | 1238 | 1.3 | 39 | | | 1255 | 1.5 | 45 | |
| | 1620 | 3.0 | 91 | | | 1744 | 2.8 | 85 | | | 1647 | 3.3 | 102 | | | 1729 | 2.8 | 85 | | | 1831 | 3.1 | 96 | | | 1827 | 2.6 | 78 | |
| | 2304 | 0.9 | 26 | | | | | | | | 2323 | 0.8 | 23 | | | 2353 | 1.1 | 35 | | | | | | | | | | | |
| 14 Th | 0522 | 2.7 | 82 | | 29 F | 0014 | 1.1 | 34 | | 14 Sa | 0557 | 3.4 | 104 | | 29 Su | | | | | | | | | | | | | | |

Madras, India, 2011

Times and Heights of High and Low Waters

| October | | | | November | | | | December | | | | | | | | | | | | | | | | | | | | | |
|-----------------|--------|-----|------|----------|-----------------|------|--------|----------|------|-----------------|------|------|--------|----|-----------------|------|-----|-----|--|-----------------|------|-----|-----|--|-----------------|------|-----|-----|--|
| Time | Height | | Time | Height | | Time | Height | | Time | Height | | Time | Height | | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | | | | | | |
| 1 Sa | 0447 | 0.9 | 27 | | 16 Su | 0428 | 1.4 | 44 | | 1 Tu | 0635 | 1.7 | 51 | | 16 W | 0544 | 1.8 | 54 | | 1 Th | 0021 | 3.9 | 120 | | 16 F | 0614 | 1.3 | 40 | |
| | 1044 | 3.7 | 113 | | | 1012 | 3.4 | 105 | | | 1228 | 3.3 | 100 | | | 1126 | 3.4 | 103 | | | 0659 | 1.7 | 53 | | | 1214 | 3.4 | 105 | |
| | 1657 | 0.8 | 23 | | | 1621 | 1.1 | 34 | | | 1824 | 1.9 | 57 | | | 1720 | 1.7 | 51 | | | 1307 | 3.3 | 100 | | | 1800 | 1.6 | 50 | |
| | 2319 | 3.9 | 119 | | | 2247 | 3.8 | 117 | | | | | | | | 2356 | 4.1 | 124 | | | 1850 | 2.2 | 66 | | | | | | |
| 2 Su | 0540 | 1.1 | 35 | | 17 M | 0506 | 1.6 | 49 | | 2 W | 0100 | 3.8 | 115 | | 17 Th | 0636 | 1.8 | 55 | | 2 F | 0117 | 3.7 | 113 | | 17 Sa | 0021 | 4.0 | 121 | |
| | 1134 | 3.3 | 102 | | | 1047 | 3.3 | 100 | | | 0744 | 1.8 | 56 | | | 1227 | 3.3 | 102 | | | 0755 | 1.8 | 56 | | | 0703 | 1.3 | 40 | |
| | 1746 | 1.1 | 33 | | | 1654 | 1.3 | 39 | | | 1349 | 3.1 | 96 | | | 1817 | 1.9 | 58 | | | 1419 | 3.3 | 100 | | | 1321 | 3.4 | 105 | |
| | | | | | | 2326 | 3.7 | 113 | | ☉ | 1942 | 2.1 | 65 | | | | | | | ☉ | 2006 | 2.3 | 71 | | | 1902 | 1.8 | 56 | |
| 3 M | 0014 | 3.6 | 110 | | 18 Tu | 0551 | 1.7 | 53 | | 3 Th | 0212 | 3.6 | 110 | | 18 F | 0050 | 4.0 | 121 | | 3 Sa | 0216 | 3.5 | 107 | | 18 Su | 0117 | 3.8 | 116 | |
| | 0643 | 1.4 | 43 | | | 1127 | 3.1 | 95 | | | 0856 | 1.9 | 59 | | | 0735 | 1.8 | 55 | | | 0853 | 1.9 | 58 | | | 0801 | 1.3 | 40 | |
| | 1236 | 3.0 | 92 | | | 1733 | 1.5 | 45 | | | 1518 | 3.2 | 97 | | ☉ | 1348 | 3.4 | 103 | | | 1532 | 3.3 | 101 | | ☉ | 1433 | 3.5 | 106 | |
| | 1846 | 1.4 | 43 | | | | | | | | 2112 | 2.3 | 69 | | | 1928 | 2.1 | 64 | | | 2129 | 2.4 | 73 | | | 2018 | 2.0 | 61 | |
| 4 Tu | 0124 | 3.3 | 102 | | 19 W | 0012 | 3.6 | 110 | | 4 F | 0325 | 3.5 | 107 | | 19 Sa | 0157 | 3.9 | 118 | | 4 Su | 0318 | 3.4 | 103 | | 19 M | 0223 | 3.6 | 111 | |
| | 0805 | 1.6 | 49 | | | 0648 | 1.9 | 57 | | | 1004 | 1.9 | 59 | | | 0842 | 1.7 | 52 | | | 0952 | 1.9 | 58 | | | 0905 | 1.3 | 39 | |
| | 1401 | 2.8 | 85 | | | 1222 | 3.0 | 91 | | | 1635 | 3.3 | 102 | | | 1511 | 3.5 | 108 | | | 1641 | 3.4 | 105 | | | 1548 | 3.6 | 110 | |
| | 2011 | 1.7 | 51 | | | 1828 | 1.7 | 51 | | ☉ | 2233 | 2.2 | 68 | | | 2053 | 2.2 | 67 | | | 2244 | 2.4 | 72 | | | 2142 | 2.0 | 61 | |
| 5 W | 0250 | 3.2 | 98 | | 20 Th | 0114 | 3.5 | 107 | | 5 Sa | 0433 | 3.5 | 107 | | 20 Su | 0307 | 3.9 | 118 | | 5 M | 0423 | 3.3 | 100 | | 20 Tu | 0335 | 3.5 | 107 | |
| | 0934 | 1.7 | 51 | | | 0801 | 1.9 | 58 | | | 1102 | 1.9 | 57 | | | 0946 | 1.6 | 48 | | | 1047 | 1.8 | 55 | | | 1012 | 1.2 | 37 | |
| | 1545 | 2.8 | 84 | | ☉ | 1352 | 3.0 | 90 | | | 1734 | 3.5 | 108 | | | 1624 | 3.8 | 116 | | | 1737 | 3.6 | 110 | | | 1659 | 3.8 | 115 | |
| | 2145 | 1.8 | 54 | | | 1951 | 1.9 | 57 | | | 2336 | 2.2 | 66 | | | 2213 | 2.1 | 65 | | | 2346 | 2.2 | 67 | | | 2301 | 1.9 | 57 | |
| 6 Th | 0417 | 3.2 | 98 | | 21 F | 0234 | 3.5 | 107 | | 6 Su | 0529 | 3.5 | 108 | | 21 M | 0414 | 3.9 | 118 | | 6 Tu | 0523 | 3.3 | 100 | | 21 W | 0451 | 3.4 | 105 | |
| | 1055 | 1.6 | 50 | | | 0918 | 1.8 | 55 | | | 1149 | 1.8 | 54 | | | 1048 | 1.4 | 43 | | | 1137 | 1.7 | 51 | | | 1115 | 1.1 | 33 | |
| | 1713 | 3.0 | 90 | | | 1536 | 3.1 | 95 | | | 1818 | 3.8 | 116 | | | 1727 | 4.1 | 125 | | | 1821 | 3.8 | 116 | | | 1803 | 4.0 | 122 | |
| | 2308 | 1.7 | 52 | | | 2122 | 1.9 | 59 | | | | | | | 2323 | 2.0 | 60 | | | | | | | | | | | | |
| 7 F | 0526 | 3.3 | 101 | | 22 Sa | 0350 | 3.6 | 110 | | 7 M | 0024 | 2.0 | 62 | | 22 Tu | 0519 | 4.0 | 121 | | 7 W | 0035 | 2.0 | 62 | | 22 Th | 0010 | 1.6 | 50 | |
| | 1154 | 1.5 | 46 | | | 1028 | 1.6 | 49 | | | 0614 | 3.6 | 110 | | | 1143 | 1.2 | 37 | | | 0612 | 3.3 | 102 | | | 0601 | 3.5 | 106 | |
| | 1811 | 3.2 | 97 | | | 1654 | 3.5 | 106 | | | 1227 | 1.6 | 50 | | | 1821 | 4.4 | 134 | | | 1218 | 1.5 | 46 | | | 1211 | 0.9 | 28 | |
| | | | | | | 2241 | 1.8 | 56 | | | 1853 | 4.0 | 122 | | | | | | | | 1859 | 4.0 | 121 | | | 1855 | 4.2 | 129 | |
| 8 Sa | 0007 | 1.6 | 49 | | 23 Su | 0457 | 3.8 | 115 | | 8 Tu | 0103 | 1.9 | 57 | | 23 W | 0024 | 1.7 | 53 | | 8 Th | 0116 | 1.9 | 57 | | 23 F | 0109 | 1.4 | 43 | |
| | 0617 | 3.4 | 105 | | | 1127 | 1.3 | 41 | | | 0650 | 3.7 | 112 | | | 0618 | 4.1 | 124 | | | 0653 | 3.4 | 104 | | | 0700 | 3.6 | 109 | |
| | 1236 | 1.4 | 43 | | | 1753 | 3.9 | 118 | | | 1259 | 1.5 | 46 | | | 1232 | 1.0 | 31 | | | 1255 | 1.3 | 41 | | | 1302 | 0.8 | 24 | |
| | 1849 | 3.4 | 105 | | | 2347 | 1.7 | 51 | | | 1924 | 4.2 | 127 | | | 1907 | 4.7 | 142 | | | 1931 | 4.1 | 126 | | | 1940 | 4.4 | 134 | |
| 9 Su | 0052 | 1.5 | 45 | | 24 M | 0553 | 4.0 | 122 | | 9 W | 0138 | 1.8 | 54 | | 24 Th | 0116 | 1.5 | 46 | | 9 F | 0149 | 1.7 | 52 | | 24 Sa | 0201 | 1.2 | 36 | |
| | 0655 | 3.5 | 108 | | | 1217 | 1.1 | 33 | | | 0723 | 3.7 | 114 | | | 0710 | 4.1 | 126 | | | 0727 | 3.4 | 105 | | | 0749 | 3.6 | 111 | |
| | 1310 | 1.3 | 39 | | | 1841 | 4.3 | 130 | | | 1328 | 1.4 | 42 | | | 1317 | 0.9 | 27 | | | 1327 | 1.2 | 36 | | | 1347 | 0.7 | 21 | |
| | 1921 | 3.7 | 112 | | | | | | | | 1952 | 4.3 | 131 | | | 1949 | 4.8 | 147 | | | 2002 | 4.2 | 129 | | ☉ | 2020 | 4.5 | 137 | |
| 10 M | 0128 | 1.4 | 42 | | 25 Tu | 0042 | 1.4 | 44 | | 10 Th | 0208 | 1.7 | 51 | | 25 F | 0204 | 1.3 | 41 | | 10 Sa | 0222 | 1.6 | 48 | | 25 Su | 0246 | 1.0 | 31 | |
| | 0726 | 3.6 | 111 | | | 0642 | 4.2 | 128 | | | 0751 | 3.8 | 115 | | | 0758 | 4.2 | 127 | | | 0801 | 3.5 | 107 | | | 0833 | 3.7 | 112 | |
| | 1338 | 1.2 | 36 | | | 1302 | 0.9 | 26 | | | 1355 | 1.2 | 38 | | | 1401 | 0.9 | 26 | | | 1358 | 1.0 | 32 | | | 1430 | 0.7 | 22 | |
| | 1949 | 3.9 | 118 | | | 1924 | 4.6 | 139 | | | 2020 | 4.4 | 133 | | ☉ | 2032 | 4.9 | 149 | | ☉ | 2032 | 4.3 | 131 | | | 2101 | 4.5 | 137 | |
| 11 Tu | 0159 | 1.3 | 40 | | 26 W | 0130 | 1.2 | 38 | | 11 F | 0236 | 1.6 | 49 | | 26 Sa | 0251 | 1.2 | 38 | | 11 Su | 0253 | 1.5 | 45 | | 26 M | 0329 | 1.0 | 29 | |
| | 0752 | 3.7 | 113 | | | 0728 | 4.3 | 132 | | | 0820 | 3.8 | 115 | | | 0843 | 4.1 | 126 | | | 0833 | 3.5 | 108 | | | 0917 | 3.6 | 110 | |
| | 1404 | 1.1 | 33 | | | 1342 | 0.7 | 21 | | | 1423 | 1.2 | 36 | | | 1444 | 0.9 | 27 | | | 1430 | 1.0 | 30 | | | 1512 | 0.8 | 25 | |
| | 2015 | 4.0 | 122 | | | 2005 | 4.8 | 146 | | ☉ | 2050 | 4.4 | 134 | | | 2114 | 4.9 | 148 | | | 2104 | 4.4 | 133 | | | 2139 | 4.4 | 133 | |
| 12 W | 0227 | 1.2 | 38 | | 27 Th | 0215 | 1.1 | 34 | | 12 Sa | 0305 | 1.6 | 48 | | 27 Su | 0339 | 1.2 | 38 | | 12 M | 0328 | 1.4 | 43 | | 27 Tu | 0410 | 1.0 | 30 | |
| | 0818 | 3.7 | 114 | | | 0812 | 4.4 | 133 | | | 0850 | 3.7 | 114 | | | 0929 | 4.0 | 121 | | | 0910 | 3.5 | 108 | | | 0957 | 3.5 | 107 | |
| | 1429 | 1.0 | 31 | | | 1423 | 0.7 | 20 | | | 1451 | 1.2 | 36 | | | 1528 | 1.0 | 32 | | | 1504 | 1.0 | 31 | | | 1553 | 1.0 | 30 | |
| | 2042 | 4.1 | 124 | | ☉ | 2047 | 4.9 | 148 | | | 2121 | 4.4 | 133 | | | 2157 | 4.7 | 143 | | | 2138 | 4.4 | 133 | | | 2219 | 4.2 | 128 | |
| 13 Th | 0254 | 1.2 | 38 | | 28 F | 0301 | 1.0 | 32 | | 13 Su | 0339 | 1.6 | 49 | | 28 M | 0427 | 1.3 | 40 | | | | | | | | | | | |

Colombo, Sri Lanka, 2011

Times and Heights of High and Low Waters

| January | | | | February | | | | March | | | | | | | | | | | | | | | |
|-----------------|--------|-----|----------------|-----------------|--------|------|--------|-----------------|--------|--------|----|-----------------|--------|-----|----|-----------------|--------|------|-----|-----------------|--------|-----|----|
| Time | Height | | Time | Height | | Time | Height | | Time | Height | | Time | Height | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | |
| 1 Sa | 0013 | 2.3 | 71 | 16 Su | 0800 | 1.2 | 36 | 1 Tu | 0135 | 2.4 | 72 | 16 W | 0124 | 2.3 | 71 | 1 Tu | 0052 | 2.0 | 60 | 16 W | 0016 | 1.9 | 58 |
| | 0705 | 1.2 | 37 | | 1220 | 1.4 | 44 | | 0813 | 0.8 | 23 | | 0752 | 0.8 | 24 | | 0730 | 0.9 | 27 | | 0701 | 1.0 | 31 |
| | 1211 | 1.6 | 48 | | 1709 | 1.0 | 31 | | 1405 | 1.9 | 57 | | 1352 | 1.9 | 58 | | 1337 | 1.7 | 52 | | 1300 | 1.7 | 53 |
| | 1748 | 0.9 | 28 | | | | | | 1946 | 0.8 | 23 | | 1920 | 0.7 | 22 | | 1909 | 0.9 | 28 | | 1833 | 1.0 | 30 |
| 2 Su | 0100 | 2.5 | 76 | 17 M | 0052 | 2.3 | 71 | 2 W | 0203 | 2.5 | 75 | 17 Th | 0158 | 2.5 | 76 | 2 W | 0120 | 2.1 | 65 | 17 Th | 0100 | 2.1 | 64 |
| | 0743 | 1.0 | 31 | | 0801 | 1.0 | 31 | | 0837 | 0.6 | 18 | | 0807 | 0.6 | 17 | | 0752 | 0.7 | 21 | | 0709 | 0.8 | 23 |
| | 1315 | 1.7 | 53 | | 1318 | 1.6 | 50 | | 1431 | 2.0 | 62 | | 1424 | 2.2 | 66 | | 1354 | 1.9 | 59 | | 1331 | 2.1 | 63 |
| | 1848 | 0.8 | 25 | | 1824 | 0.9 | 27 | | 2020 | 0.7 | 20 | | 2000 | 0.6 | 17 | | 1945 | 0.7 | 22 | | 1915 | 0.8 | 23 |
| 3 M | 0137 | 2.6 | 79 | 18 Tu | 0135 | 2.5 | 77 | 3 Th | 0230 | 2.6 | 78 | 18 F | 0230 | 2.6 | 78 | 3 Th | 0146 | 2.3 | 69 | 18 F | 0135 | 2.3 | 69 |
| | 0815 | 0.9 | 26 | | 0811 | 0.9 | 26 | | 0900 | 0.5 | 14 | | 0830 | 0.4 | 11 | | 0815 | 0.5 | 15 | | 0731 | 0.5 | 16 |
| | 1356 | 1.9 | 57 | | 1400 | 1.8 | 56 | | 1458 | 2.2 | 66 | | 1456 | 2.4 | 73 | | 1415 | 2.1 | 65 | | 1403 | 2.4 | 72 |
| | 1935 | 0.8 | 23 | | 1915 | 0.8 | 23 | | ● 2050 | 0.6 | 18 | | ○ 2035 | 0.5 | 14 | | 2015 | 0.6 | 18 | | 1952 | 0.6 | 17 |
| 4 Tu | 0209 | 2.7 | 82 | 19 W | 0211 | 2.7 | 81 | 4 F | 0258 | 2.6 | 79 | 19 Sa | 0258 | 2.6 | 79 | 4 F | 0213 | 2.4 | 72 | 19 Sa | 0205 | 2.4 | 72 |
| | 0845 | 0.7 | 22 | | 0828 | 0.7 | 21 | | 0922 | 0.4 | 11 | | 0858 | 0.2 | 6 | | 0835 | 0.4 | 12 | | 0800 | 0.3 | 9 |
| | 1431 | 2.0 | 61 | | 1435 | 2.0 | 61 | | 1524 | 2.3 | 69 | | 1526 | 2.5 | 77 | | 1437 | 2.3 | 69 | | 1433 | 2.6 | 79 |
| | ● 2015 | 0.7 | 22 | | 1958 | 0.6 | 19 | | 2115 | 0.6 | 17 | | 2111 | 0.4 | 12 | | 2039 | 0.5 | 15 | | ○ 2026 | 0.4 | 13 |
| 5 W | 0239 | 2.7 | 82 | 20 Th | 0245 | 2.7 | 83 | 5 Sa | 0324 | 2.6 | 78 | 20 Su | 0324 | 2.6 | 78 | 5 Sa | 0237 | 2.4 | 74 | 20 Su | 0233 | 2.4 | 73 |
| | 0913 | 0.6 | 18 | | 0852 | 0.5 | 16 | | 0941 | 0.3 | 10 | | 0926 | 0.1 | 3 | | 0854 | 0.3 | 9 | | 0828 | 0.2 | 5 |
| | 1503 | 2.1 | 64 | | 1509 | 2.2 | 66 | | 1550 | 2.3 | 70 | | 1556 | 2.6 | 80 | | 1501 | 2.4 | 72 | | 1503 | 2.7 | 83 |
| | 2050 | 0.7 | 21 | | ○ 2039 | 0.6 | 17 | | 2137 | 0.6 | 17 | | 2146 | 0.4 | 13 | | ● 2101 | 0.5 | 14 | | 2100 | 0.4 | 12 |
| 6 Th | 0309 | 2.7 | 82 | 21 F | 0315 | 2.7 | 83 | 6 Su | 0350 | 2.5 | 77 | 21 M | 0348 | 2.5 | 75 | 6 Su | 0303 | 2.4 | 74 | 21 M | 0301 | 2.4 | 73 |
| | 0939 | 0.5 | 16 | | 0920 | 0.4 | 12 | | 0958 | 0.3 | 9 | | 0956 | 0.1 | 2 | | 0909 | 0.3 | 8 | | 0900 | 0.1 | 2 |
| | 1537 | 2.2 | 66 | | 1543 | 2.3 | 70 | | 1618 | 2.3 | 70 | | 1624 | 2.6 | 80 | | 1528 | 2.4 | 74 | | 1528 | 2.8 | 85 |
| | 2120 | 0.7 | 21 | | 2116 | 0.5 | 16 | | 2158 | 0.6 | 17 | | 2220 | 0.5 | 16 | | 2120 | 0.4 | 13 | | 2133 | 0.4 | 13 |
| 7 F | 0339 | 2.7 | 81 | 22 Sa | 0343 | 2.7 | 81 | 7 M | 0416 | 2.4 | 74 | 22 Tu | 0411 | 2.4 | 72 | 7 M | 0330 | 2.4 | 73 | 22 Tu | 0326 | 2.3 | 71 |
| | 1003 | 0.5 | 15 | | 0948 | 0.3 | 9 | | 1015 | 0.3 | 9 | | 1024 | 0.1 | 4 | | 0924 | 0.2 | 7 | | 0930 | 0.1 | 2 |
| | 1609 | 2.2 | 67 | | 1615 | 2.4 | 73 | | 1646 | 2.3 | 70 | | 1656 | 2.6 | 78 | | 1552 | 2.5 | 75 | | 1601 | 2.8 | 84 |
| | 2146 | 0.7 | 22 | | 2154 | 0.6 | 18 | | 2220 | 0.6 | 18 | | 2252 | 0.7 | 21 | | 2139 | 0.5 | 14 | | 2205 | 0.5 | 15 |
| 8 Sa | 0409 | 2.6 | 79 | 23 Su | 0409 | 2.6 | 78 | 8 Tu | 0439 | 2.3 | 69 | 23 W | 0435 | 2.2 | 67 | 8 Tu | 0352 | 2.3 | 70 | 23 W | 0352 | 2.2 | 68 |
| | 1024 | 0.5 | 15 | | 1018 | 0.3 | 8 | | 1035 | 0.3 | 10 | | 1052 | 0.2 | 7 | | 0943 | 0.2 | 7 | | 0958 | 0.2 | 5 |
| | 1641 | 2.2 | 66 | | 1646 | 2.4 | 74 | | 1713 | 2.2 | 68 | | 1726 | 2.4 | 74 | | 1618 | 2.4 | 74 | | 1631 | 2.7 | 81 |
| | 2213 | 0.8 | 24 | | 2231 | 0.7 | 21 | | 2246 | 0.7 | 21 | | 2324 | 0.9 | 27 | | 2201 | 0.5 | 15 | | 2237 | 0.6 | 19 |
| 9 Su | 0437 | 2.5 | 75 | 24 M | 0433 | 2.4 | 74 | 9 W | 0458 | 2.1 | 65 | 24 Th | 0456 | 2.0 | 62 | 9 W | 0413 | 2.2 | 66 | 24 Th | 0416 | 2.1 | 65 |
| | 1045 | 0.5 | 15 | | 1050 | 0.3 | 8 | | 1058 | 0.4 | 11 | | 1118 | 0.4 | 12 | | 1001 | 0.2 | 7 | | 1026 | 0.3 | 9 |
| | 1713 | 2.1 | 65 | | 1720 | 2.4 | 73 | | 1741 | 2.1 | 65 | | 1801 | 2.2 | 68 | | 1643 | 2.4 | 72 | | 1701 | 2.5 | 75 |
| | 2239 | 0.9 | 26 | | 2309 | 0.9 | 26 | | 2316 | 0.8 | 25 | | 2356 | 1.1 | 33 | | 2226 | 0.6 | 17 | | 2307 | 0.8 | 24 |
| 10 M | 0505 | 2.3 | 71 | 25 Tu | 0456 | 2.3 | 69 | 10 Th | 0509 | 2.0 | 60 | 25 F | 0518 | 1.8 | 56 | 10 Th | 0430 | 2.0 | 62 | 25 F | 0445 | 2.0 | 60 |
| | 1109 | 0.5 | 16 | | 1122 | 0.4 | 11 | | 1122 | 0.5 | 14 | | 1141 | 0.6 | 19 | | 1026 | 0.3 | 9 | | 1052 | 0.5 | 15 |
| | 1748 | 2.1 | 64 | | 1758 | 2.3 | 71 | | 1813 | 2.0 | 62 | | 1843 | 2.0 | 61 | | 1707 | 2.3 | 69 | | 1733 | 2.3 | 69 |
| | 2309 | 1.0 | 29 | | 2348 | 1.0 | 32 | | 2350 | 1.0 | 31 | | ○ | | | | 2254 | 0.7 | 21 | | 2337 | 1.0 | 29 |
| 11 Tu | 0530 | 2.1 | 65 | 26 W | 0518 | 2.1 | 64 | 11 F | 0507 | 1.8 | 55 | 26 Sa | 0035 | 1.3 | 40 | 11 F | 0439 | 1.9 | 58 | 26 Sa | 0511 | 1.8 | 54 |
| | 1133 | 0.6 | 18 | | 1152 | 0.5 | 15 | | 1150 | 0.6 | 18 | | 0530 | 1.6 | 50 | | 1050 | 0.4 | 12 | | 1113 | 0.7 | 22 |
| | 1826 | 2.0 | 62 | | 1839 | 2.2 | 67 | | 1856 | 1.9 | 58 | | 1156 | 0.9 | 27 | | 1731 | 2.1 | 65 | | 1809 | 2.0 | 62 |
| | 2343 | 1.1 | 33 | | ○ | | | | ○ | | | | 1954 | 1.8 | 54 | | 2328 | 0.9 | 26 | | ○ | | |
| 12 W | 0552 | 2.0 | 60 | 27 Th | 0031 | 1.3 | 39 | 12 Sa | 0035 | 1.2 | 38 | 27 Su | 1115 | 1.1 | 35 | 12 Sa | 0443 | 1.8 | 54 | 27 Su | 0011 | 1.1 | 35 |
| | 1203 | 0.7 | 21 | | 0541 | 1.9 | 58 | | 0456 | 1.6 | 50 | | | | | | 1118 | 0.6 | 17 | | 0543 | 1.6 | 48 |
| | 1915 | 1.9 | 59 | | 1226 | 0.7 | 20 | | 1224 | 0.8 | 24 | | 2037 | 1.8 | 54 | | 1801 | 2.0 | 60 | | 1128 | 1.0 | 30 |
| | ○ | | | | 1937 | 2.0 | 62 | | | | | | | | | | | | | | 1903 | 1.8 | 54 |
| 13 Th | 0026 | 1.2 | 38 | 28 F | 0141 | 1.5 | 45 | 13 Su | 0205 | 1.4 | 44 | 28 M | 0000 | 1.8 | 54 | 13 Su | 0009 | 1.1 | 33 | 28 M | 0122 | 1.3 | 40 |
| | 0600 | 1.8 | 54 | | 0556 | 1.7 | 51 | | 0430 | 1.5 | 46 | | 0722 | 1.1 | 34 | | 0446 | 1.6 | 50 | | 0648 | 1.3 | 41 |
| | 1241 | 0.8 | 24 | | 1305 | 0.9 | 27 | | 1330 | 1.0 | 31 | | 1330 | 1.4 | 44 | | 1148 | 0.8 | 24 | | 1058 | 1.2 | 38 |
| | 2028 | 1.9 | 57 | | 2131 | 1.9 | 59 | | 2335 | 1.9 | 57 | | 1818 | 1.1 | 34 | | ○ 1850 | 1.8 | 54 | | 2128 | 1.6 | 49 |
| 14 F | 0133 | 1.4 | 44 | 29 Sa | 1516 | 1.1 | 34 | 14 M | 0830 | 1.1 | 35 | 14 M | 0116 | 1.3 | 40 | 14 M | 0116 | 1.3 | 40 | 29 Tu | 0616 | 1.1 | 34 |
| | 0513 | 1.6 | 48 | | | | | | 1233 | 1.3 | 40 | | 0445 | 1.5 | 45 | | 0445 | 1.5 | 45 | | 1307 | 1.5 | 46 |
| | 1331 | 1.0 | 29 | | | | | | 1646 | 1.1 | 34 | | 1239 | 1.0 | 32 | | 2246 | 1.7 | 52 | | 1813 | 1.2 | 36 |
| | 2224 | 1.9 | 59 | | | | | | | | | | | | | | | | | | | | |
| 15 Sa | 1505 | 1.0 | 32 | 30 Su | 0009 | 2.0 | 62 | 15 Tu | 0043 | 2.1 | 64 | 15 Tu | 0754 | 1.0 | 30 | 15 Tu | 0754 | 1.2 | 37 | 30 W | 0005 | 1.7 | 53 |
| | 2358 | 2.1 | 64 | | 0731 | 1.2 | 36 | | 1318 | 1.6 | 49 | | 1224 | 1.4 | 43 | | 1224 | 1.4 | 43 | | 0648 | 0.9 | 27 |
| | | | | | 1258 | 1.4 | 43 | | 1831 | 0.9 | 28 | | 1648 | 1.2 | 37 | | 1307 | 1.8 | 54 | | 1307 | 1.8 | 54 |
| | | | | | 1758 | 1.0 | 32 | | | | | | | | | | | | | | 1858 | 1.0 | 29 |
| | | | 31 M | 0101 | 2.2 | 67 | | | | | | | | | | | | | | | | | |
| | | | | 0748 | 1.0 | 29 | | | | | | | | | | | | 0046 | 1.9 | 58 | | | |
| | | | | 1337 | 1.6 | 50 | | | | | | | | | | | | 0715 | 0.7 | 21 | | | |
| | | | | 1901 | 0.9 | 27 | | | | | | | | | | | | | | | | | |

Colombo, Sri Lanka, 2011

Times and Heights of High and Low Waters

| July | | | | August | | | | September | | | | | | | | | | | | | | | | | | | | | |
|-----------------|--------|------|----|--------|-----------------|------|------|-----------|--------|-----------------|------|------|--------|----|-----------------|------|------|----|--|-----------------|------|------|-----|----|-----------------|------|------|-----|----|
| Time | Height | | | Time | Height | | | Time | Height | | | Time | Height | | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | | | | | | |
| 1 F | 0230 | 1.3 | 40 | | 16 Sa | 0300 | 1.4 | 44 | | 1 M | 0328 | 1.6 | 49 | | 16 Tu | 0339 | 1.7 | 52 | | 1 Th | 0407 | 2.1 | 63 | | 16 F | 0403 | 2.0 | 60 | |
| | 0743 | 0.2 | 7 | | | 0845 | 0.1 | 3 | | | 0900 | -0.1 | -2 | | | 0931 | 0.0 | -1 | | | 1001 | 0.0 | 0 | | | 0950 | 0.1 | 3 | |
| | 1445 | 2.1 | 65 | | | 1501 | 2.0 | 61 | | | 1531 | 1.9 | 59 | | | 1537 | 1.8 | 56 | | | 1556 | 1.8 | 54 | | | 1601 | 1.7 | 51 | |
| | 2100 | 0.2 | 6 | | | 2131 | -0.1 | -2 | | | 2131 | -0.3 | -9 | | | 2148 | -0.3 | -9 | | | 2203 | -0.4 | -11 | | | 2148 | -0.1 | -3 | |
| 2 Sa | 0307 | 1.4 | 43 | | 17 Su | 0331 | 1.5 | 47 | | 2 Tu | 0401 | 1.7 | 52 | | 17 W | 0407 | 1.7 | 53 | | 2 F | 0439 | 2.0 | 62 | | 17 Sa | 0431 | 1.9 | 58 | |
| | 0824 | 0.2 | 5 | | | 0918 | 0.1 | 3 | | | 0939 | -0.1 | -2 | | | 0954 | 0.0 | -1 | | | 1037 | 0.1 | 4 | | | 1015 | 0.2 | 5 | |
| | 1518 | 2.1 | 65 | | | 1531 | 2.0 | 61 | | | 1558 | 1.9 | 57 | | | 1605 | 1.8 | 54 | | | 1620 | 1.6 | 50 | | | 1624 | 1.6 | 48 | |
| | 2124 | 0.1 | 3 | | | 2158 | -0.1 | -4 | | | 2201 | -0.4 | -11 | | | 2207 | -0.3 | -9 | | | 2235 | -0.3 | -9 | | | 2211 | 0.0 | -1 | |
| 3 Su | 0343 | 1.5 | 46 | | 18 M | 0403 | 1.6 | 49 | | 3 W | 0433 | 1.8 | 54 | | 18 Th | 0435 | 1.7 | 52 | | 3 Sa | 0511 | 1.9 | 59 | | 18 Su | 0500 | 1.8 | 56 | |
| | 0903 | 0.1 | 4 | | | 0950 | 0.1 | 3 | | | 1016 | 0.0 | 0 | | | 1016 | 0.0 | 1 | | | 1113 | 0.3 | 9 | | | 1043 | 0.3 | 9 | |
| | 1548 | 2.1 | 64 | | | 1601 | 1.9 | 59 | | | 1622 | 1.8 | 54 | | | 1631 | 1.6 | 50 | | | 1646 | 1.5 | 46 | | | 1641 | 1.4 | 44 | |
| | 2154 | 0.0 | 0 | | | 2222 | -0.2 | -5 | | | 2233 | -0.4 | -12 | | | 2226 | -0.3 | -8 | | | 2305 | -0.1 | -4 | | | 2237 | 0.1 | 2 | |
| 4 M | 0416 | 1.6 | 48 | | 19 Tu | 0435 | 1.6 | 49 | | 4 Th | 0507 | 1.8 | 55 | | 19 F | 0505 | 1.6 | 50 | | 4 Su | 0546 | 1.8 | 54 | | 19 M | 0528 | 1.7 | 52 | |
| | 0945 | 0.1 | 4 | | | 1016 | 0.1 | 4 | | | 1054 | 0.1 | 4 | | | 1041 | 0.1 | 3 | | | 1150 | 0.5 | 15 | | | 1116 | 0.4 | 13 | |
| | 1618 | 2.0 | 62 | | | 1630 | 1.8 | 56 | | | 1646 | 1.6 | 50 | | | 1656 | 1.5 | 46 | | | 1713 | 1.3 | 41 | | | 1650 | 1.3 | 40 | |
| | 2224 | -0.1 | -2 | | | 2245 | -0.2 | -6 | | | 2305 | -0.3 | -10 | | | 2248 | -0.2 | -6 | | | 2335 | 0.1 | 3 | | | 2307 | 0.2 | 6 | |
| 5 Tu | 0452 | 1.6 | 50 | | 20 W | 0507 | 1.6 | 49 | | 5 F | 0541 | 1.7 | 53 | | 20 Sa | 0537 | 1.6 | 48 | | 5 M | 0630 | 1.6 | 48 | | 20 Tu | 0601 | 1.6 | 48 | |
| | 1026 | 0.2 | 6 | | | 1043 | 0.2 | 6 | | | 1133 | 0.3 | 9 | | | 1109 | 0.2 | 6 | | | 1237 | 0.7 | 21 | | | 1158 | 0.6 | 19 | |
| | 1645 | 1.9 | 58 | | | 1700 | 1.7 | 53 | | | 1711 | 1.5 | 46 | | | 1715 | 1.3 | 41 | | | 1741 | 1.1 | 35 | | | 1652 | 1.2 | 36 | |
| | 2258 | -0.1 | -3 | | | 2305 | -0.2 | -5 | | | 2337 | -0.2 | -7 | | | 2315 | -0.1 | -4 | | | 1741 | 1.1 | 35 | | | 2343 | 0.4 | 12 | |
| 6 W | 0528 | 1.7 | 51 | | 21 Th | 0541 | 1.5 | 47 | | 6 Sa | 0620 | 1.6 | 50 | | 21 Su | 0611 | 1.5 | 45 | | 6 Tu | 0733 | 1.4 | 42 | | 21 W | 0658 | 1.4 | 43 | |
| | 1107 | 0.3 | 9 | | | 1109 | 0.3 | 8 | | | 1216 | 0.5 | 15 | | | 1143 | 0.4 | 11 | | | 1431 | 0.9 | 27 | | | 1303 | 0.8 | 25 | |
| | 1711 | 1.8 | 54 | | | 1728 | 1.6 | 48 | | | 1735 | 1.3 | 40 | | | 1726 | 1.2 | 36 | | | 1824 | 0.9 | 28 | | | 1654 | 1.0 | 32 | |
| | 2331 | -0.1 | -3 | | | 2330 | -0.1 | -3 | | | 1801 | 1.1 | 34 | | | 2343 | 0.0 | 0 | | | 1824 | 0.9 | 28 | | | 2318 | 1.0 | 31 | |
| 7 Th | 0607 | 1.7 | 51 | | 22 F | 0616 | 1.5 | 45 | | 7 Su | 0709 | 1.5 | 46 | | 22 M | 0652 | 1.3 | 41 | | 7 W | 0101 | 0.7 | 20 | | 22 Th | 0043 | 0.7 | 20 | |
| | 1152 | 0.5 | 14 | | | 1141 | 0.4 | 11 | | | 1311 | 0.7 | 21 | | | 1226 | 0.6 | 17 | | | 1011 | 1.3 | 39 | | | 0933 | 1.3 | 40 | |
| | 1737 | 1.6 | 49 | | | 1754 | 1.4 | 43 | | | 1801 | 1.1 | 34 | | | 1718 | 1.0 | 31 | | | 1815 | 0.7 | 21 | | | 1846 | 0.9 | 26 | |
| | | | | | | 2356 | 0.0 | -1 | | | | | | | | | | | | | | 1815 | 0.7 | 21 | | | 2318 | 1.0 | 31 |
| 8 F | 0009 | 0.0 | -1 | | 23 Sa | 0700 | 1.4 | 43 | | 8 M | 0052 | 0.2 | 5 | | 23 Tu | 0018 | 0.2 | 6 | | 8 Th | 0031 | 0.9 | 28 | | 23 F | 0331 | 0.8 | 25 | |
| | 0656 | 1.6 | 50 | | | 1218 | 0.5 | 15 | | | 0822 | 1.4 | 42 | | | 0807 | 1.2 | 37 | | | 0530 | 0.7 | 20 | | | 1130 | 1.4 | 44 | |
| | 1243 | 0.7 | 20 | | | 1818 | 1.2 | 37 | | | 1515 | 0.9 | 26 | | | 1335 | 0.8 | 23 | | | 1209 | 1.4 | 43 | | | 1813 | 0.7 | 21 | |
| | 1805 | 1.4 | 44 | | | | | | | | 1831 | 0.9 | 28 | | | 1652 | 0.9 | 27 | | | 1848 | 0.5 | 14 | | | 1813 | 0.7 | 21 | |
| 9 Sa | 0052 | 0.1 | 2 | | 24 Su | 0028 | 0.1 | 2 | | 9 Tu | 0205 | 0.4 | 12 | | 24 W | 0115 | 0.4 | 12 | | 9 F | 0103 | 1.2 | 37 | | 24 Sa | 0022 | 1.3 | 41 | |
| | 0756 | 1.6 | 48 | | | 0754 | 1.3 | 40 | | | 1052 | 1.3 | 41 | | | 1028 | 1.2 | 37 | | | 0637 | 0.5 | 15 | | | 0554 | 0.7 | 20 | |
| | 1354 | 0.9 | 26 | | | 1309 | 0.7 | 20 | | | 1846 | 0.7 | 20 | | | 1958 | 0.7 | 20 | | | 1250 | 1.6 | 48 | | | 1224 | 1.6 | 50 | |
| | 1839 | 1.2 | 38 | | | 1831 | 1.0 | 31 | | | 2333 | 0.7 | 22 | | | 2326 | 0.7 | 22 | | | 1918 | 0.3 | 8 | | | 1831 | 0.5 | 14 | |
| 10 Su | 0145 | 0.2 | 6 | | 25 M | 0109 | 0.2 | 7 | | 10 W | 0456 | 0.5 | 14 | | 25 Th | 0335 | 0.5 | 16 | | 10 Sa | 0128 | 1.4 | 44 | | 25 Su | 0100 | 1.7 | 51 | |
| | 0926 | 1.5 | 47 | | | 0918 | 1.3 | 39 | | | 1226 | 1.5 | 45 | | | 1203 | 1.4 | 43 | | | 0720 | 0.3 | 10 | | | 0643 | 0.5 | 14 | |
| | 1605 | 0.9 | 28 | | | 1443 | 0.8 | 25 | | | 1918 | 0.4 | 13 | | | 1928 | 0.5 | 15 | | | 1322 | 1.7 | 52 | | | 1303 | 1.8 | 55 | |
| | 1933 | 1.0 | 31 | | | 1656 | 0.9 | 26 | | | | | | | | | | | | | 1945 | 0.1 | 3 | | | 1858 | 0.2 | 7 | |
| 11 M | 0303 | 0.3 | 10 | | 26 Tu | 0215 | 0.4 | 11 | | 11 Th | 0109 | 1.0 | 29 | | 26 F | 0045 | 1.0 | 30 | | 11 Su | 0152 | 1.6 | 50 | | 26 M | 0133 | 2.0 | 60 | |
| | 1118 | 1.6 | 49 | | | 1107 | 1.3 | 41 | | | 0630 | 0.4 | 11 | | | 0556 | 0.4 | 13 | | | 0754 | 0.2 | 6 | | | 0722 | 0.3 | 9 | |
| | 1830 | 0.8 | 24 | | | 1950 | 0.6 | 19 | | | 1311 | 1.6 | 49 | | | 1254 | 1.6 | 49 | | | 1348 | 1.8 | 55 | | | 1337 | 1.9 | 58 | |
| | 2209 | 0.9 | 27 | | | 2322 | 0.7 | 22 | | | 1946 | 0.2 | 7 | | | 1926 | 0.3 | 9 | | | 2009 | 0.0 | -1 | | | 1928 | 0.1 | 2 | |
| 12 Tu | 0450 | 0.4 | 12 | | 27 W | 0409 | 0.4 | 13 | | 12 F | 0146 | 1.2 | 36 | | 27 Sa | 0126 | 1.2 | 38 | | 12 M | 0216 | 1.8 | 55 | | 27 Tu | 0205 | 2.2 | 67 | |
| | 1231 | 1.7 | 53 | | | 1222 | 1.5 | 46 | | | 0724 | 0.2 | 6 | | | 0652 | 0.2 | 7 | | | 0822 | 0.1 | 3 | | | 0800 | 0.2 | 5 | |
| | 1922 | 0.6 | 17 | | | 1956 | 0.5 | 14 | | | 1345 | 1.7 | 53 | | | 1333 | 1.8 | 54 | | | 1416 | 1.9 | 57 | | | 1409 | 2.0 | 60 | |
| | | | | | | | | | | | 2015 | 0.0 | 1 | | | 1941 | 0.1 | 3 | | | 2031 | -0.1 | -3 | | | 1958 | -0.1 | -3 | |
| 13 W | 0048 | 1.0 | 30 | | 28 Th | 0054 | 0.9 | 27 | | 13 Sa | 0216 | 1.4 | 42 | | 28 Su | 0200 | 1.5 | 46 | | 13 Tu | 0243 | 1.9 | 58 | | 28 W | 0237 | 2.4 | 72 | |
| | 0616 | 0.3 | 10 | | | 0554 | 0.4 | 11 | | | 0803 | 0.1 | 3 | | | 0735 | 0.1 | 2 | | | 0846 | 0.1 | 2 | | | 0835 | 0.1 | 4 | |
| | 1320 | 1.9 | 57 | | | 1313 | 1.7 | 52 | | | 1415 | 1.8 | 55 | | | 1407 | 1.9 | | | | | | | | | | | | |

Bombay, India, 2011

Times and Heights of High and Low Waters

| January | | | | February | | | | March | | | | | | | | | | | | | |
|-----------------|--------|------|------|----------|----------------|-----------------|--------|-------|-----------------|-----------------|------|------|-----------------|-----------------|------|------|-----------------|-----------------|------|------|-----|
| Time | Height | | Time | Height | | Time | Height | | Time | Height | | Time | Height | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | |
| 1 Sa | 0403 | 7.4 | 226 | | | 1 Tu | 0547 | 5.7 | 174 | 16 W | 0445 | 6.2 | 190 | 1 Tu | 0454 | 6.0 | 184 | 16 W | 0328 | 6.6 | 200 |
| | 0911 | 11.4 | 346 | | | | 1115 | 11.8 | 360 | | 1019 | 11.6 | 355 | | 1020 | 10.8 | 328 | | 0856 | 10.6 | 323 |
| | 1545 | 2.5 | 77 | | | | 1717 | 2.5 | 75 | | 1628 | 2.3 | 69 | | 1611 | 3.9 | 120 | | 1509 | 3.8 | 117 |
| | 2301 | 14.0 | 426 | | | | 2240 | 12.7 | 386 | | 2325 | 14.5 | 443 | | 2309 | 13.0 | 397 | | 2209 | 13.2 | 403 |
| 2 Su | 0508 | 6.8 | 206 | | | 2 W | 0007 | 14.3 | 437 | 17 Th | 0525 | 4.9 | 150 | 2 W | 0525 | 5.2 | 157 | 17 Th | 0415 | 5.1 | 156 |
| | 1026 | 11.6 | 355 | | | | 0622 | 5.1 | 154 | | 1116 | 13.0 | 396 | | 1104 | 11.7 | 356 | | 1008 | 12.0 | 367 |
| | 1641 | 2.1 | 64 | | | | 1200 | 12.5 | 380 | | 1718 | 1.5 | 45 | | 1657 | 3.4 | 103 | | 1608 | 3.0 | 92 |
| | 2343 | 14.6 | 445 | | | | 1757 | 2.2 | 67 | | 1806 | 1.1 | 33 | | 2341 | 13.5 | 413 | | 2252 | 14.3 | 437 |
| 3 M | 0558 | 6.1 | 186 | | | 3 Th | 0039 | 14.6 | 446 | 18 F | 0000 | 15.5 | 473 | 3 Th | 0551 | 4.4 | 135 | 18 F | 0457 | 3.5 | 107 |
| | 1124 | 12.1 | 369 | | | | 0652 | 4.6 | 141 | | 0607 | 3.5 | 108 | | 1143 | 12.4 | 378 | | 1104 | 13.6 | 414 |
| | 1730 | 1.8 | 55 | | | | 1239 | 12.9 | 393 | | 1208 | 14.2 | 434 | | 1734 | 3.1 | 94 | | 1702 | 2.4 | 74 |
| | | | | | | | 1829 | 2.2 | 67 | | 1806 | 1.1 | 33 | | | | | | 2332 | 15.3 | 465 |
| 4 Tu | 0023 | 15.0 | 457 | | | 4 F | 0107 | 14.7 | 447 | 19 Sa | 0037 | 16.2 | 495 | 4 F | 0009 | 13.9 | 423 | 19 Sa | 0538 | 2.0 | 61 |
| | 0642 | 5.6 | 170 | | | | 0718 | 4.3 | 130 | | 0650 | 2.2 | 68 | | 0614 | 3.9 | 119 | | 1155 | 14.9 | 454 |
| | 1210 | 12.6 | 383 | | | | 1313 | 13.1 | 398 | | 1256 | 15.1 | 461 | | 1218 | 12.9 | 394 | | 1752 | 2.1 | 65 |
| | 1812 | 1.7 | 52 | | | | 1858 | 2.5 | 76 | | 1853 | 1.1 | 34 | | 1804 | 3.1 | 93 | | | | |
| 5 W | 0059 | 15.1 | 461 | | | 5 Sa | 0134 | 14.6 | 444 | 20 Su | 0115 | 16.6 | 505 | 5 Sa | 0032 | 14.0 | 426 | 20 Su | 0011 | 15.8 | 482 |
| | 0719 | 5.2 | 158 | | | | 0744 | 4.0 | 121 | | 0732 | 1.2 | 36 | | 0637 | 3.4 | 104 | | 0621 | 0.8 | 24 |
| | 1252 | 12.8 | 391 | | | | 1344 | 13.1 | 391 | | 1342 | 15.6 | 475 | | 1250 | 13.3 | 404 | | 1243 | 15.8 | 481 |
| | 1848 | 1.8 | 56 | | | | 1922 | 3.0 | 90 | | 1935 | 1.6 | 49 | | 1832 | 3.2 | 98 | | 1838 | 2.2 | 68 |
| 6 Th | 0134 | 15.1 | 460 | | | 6 Su | 0157 | 14.4 | 438 | 21 M | 0154 | 16.4 | 501 | 6 Su | 0055 | 14.0 | 426 | 21 M | 0048 | 15.9 | 485 |
| | 0753 | 4.9 | 150 | | | | 0808 | 3.6 | 111 | | 0813 | 0.6 | 19 | | 0702 | 3.0 | 90 | | 0702 | 0.0 | 0 |
| | 1331 | 12.9 | 392 | | | | 1413 | 12.9 | 393 | | 1429 | 15.5 | 472 | | 1319 | 13.5 | 410 | | 1328 | 16.1 | 492 |
| | 1922 | 2.2 | 68 | | | | 1945 | 3.5 | 107 | | 2018 | 2.6 | 79 | | 1855 | 3.5 | 106 | | 1923 | 2.7 | 82 |
| 7 F | 0207 | 14.9 | 454 | | | 7 M | 0217 | 14.1 | 430 | 22 Tu | 0232 | 15.8 | 482 | 7 M | 0116 | 13.9 | 423 | 22 Tu | 0126 | 15.6 | 476 |
| | 0823 | 4.8 | 145 | | | | 0831 | 3.4 | 104 | | 0852 | 0.7 | 21 | | 0725 | 2.5 | 77 | | 0742 | -0.2 | -6 |
| | 1409 | 12.7 | 386 | | | | 1439 | 12.6 | 385 | | 1518 | 14.9 | 453 | | 1347 | 13.5 | 413 | | 1414 | 15.9 | 486 |
| | 1952 | 2.9 | 87 | | | | 2010 | 4.2 | 128 | | 2103 | 4.0 | 121 | | 1920 | 3.8 | 116 | | 2006 | 3.5 | 106 |
| 8 Sa | 0237 | 14.6 | 445 | | | 8 Tu | 0239 | 13.8 | 420 | 23 W | 0312 | 14.7 | 448 | 8 Tu | 0137 | 13.7 | 418 | 23 W | 0205 | 14.9 | 453 |
| | 0852 | 4.7 | 143 | | | | 0855 | 3.3 | 102 | | 0930 | 1.4 | 42 | | 0750 | 2.3 | 69 | | 0819 | 0.2 | 7 |
| | 1444 | 12.2 | 373 | | | | 1510 | 12.3 | 374 | | 1611 | 13.8 | 420 | | 1413 | 13.5 | 411 | | 1501 | 15.3 | 465 |
| | 2019 | 3.7 | 113 | | | | 2041 | 5.1 | 154 | | 2151 | 5.5 | 169 | | 1948 | 4.3 | 130 | | 2050 | 4.5 | 138 |
| 9 Su | 0303 | 14.1 | 431 | | | 9 W | 0306 | 13.3 | 404 | 24 Th | 0352 | 13.2 | 403 | 9 W | 0202 | 13.4 | 409 | 24 Th | 0245 | 13.7 | 419 |
| | 0918 | 4.7 | 142 | | | | 0925 | 3.6 | 109 | | 1011 | 2.5 | 77 | | 0815 | 2.3 | 71 | | 0858 | 1.3 | 39 |
| | 1517 | 11.7 | 357 | | | | 1549 | 11.7 | 358 | | 1712 | 12.5 | 381 | | 1445 | 13.2 | 403 | | 1551 | 14.1 | 430 |
| | 2044 | 4.7 | 142 | | | | 2121 | 6.0 | 184 | | 2250 | 7.1 | 215 | | 2023 | 4.9 | 150 | | 2142 | 5.8 | 176 |
| 10 M | 0325 | 13.6 | 416 | | | 10 Th | 0335 | 12.5 | 380 | 25 F | 0431 | 11.6 | 355 | 10 Th | 0232 | 12.9 | 393 | 25 F | 0329 | 12.3 | 375 |
| | 0944 | 4.7 | 144 | | | | 1002 | 4.0 | 123 | | 1106 | 3.8 | 116 | | 0843 | 2.7 | 83 | | 0940 | 2.8 | 84 |
| | 1551 | 11.2 | 341 | | | | 1640 | 11.1 | 338 | | 1830 | 11.5 | 349 | | 1522 | 12.6 | 385 | | 1649 | 12.8 | 390 |
| | 2114 | 5.6 | 172 | | | | 2212 | 7.1 | 216 | | 1830 | 11.5 | 349 | | 2105 | 5.8 | 177 | | 2248 | 7.0 | 212 |
| 11 Tu | 0348 | 13.1 | 399 | | | 11 F | 0407 | 11.5 | 352 | 26 Sa | 0030 | 8.1 | 246 | 11 F | 0304 | 12.1 | 370 | 26 Sa | 0419 | 10.8 | 329 |
| | 1018 | 4.8 | 147 | | | | 1052 | 4.6 | 140 | | 0536 | 10.2 | 311 | | 0916 | 3.4 | 104 | | 1033 | 4.3 | 130 |
| | 1634 | 10.7 | 326 | | | | 1756 | 10.5 | 321 | | 1222 | 4.7 | 144 | | 1608 | 11.8 | 361 | | 1756 | 11.7 | 356 |
| | 2153 | 6.7 | 203 | | | | 2320 | 8.1 | 246 | | 2011 | 11.1 | 338 | | 2152 | 6.8 | 207 | | | | |
| 12 W | 0417 | 12.4 | 378 | | | 12 Sa | 0444 | 10.7 | 325 | 27 Su | 0254 | 8.0 | 243 | 12 Sa | 0335 | 11.3 | 344 | 27 Su | 0034 | 7.6 | 233 |
| | 1102 | 5.0 | 152 | | | | 1203 | 5.0 | 151 | | 0722 | 9.4 | 288 | | 0957 | 4.2 | 129 | | 0538 | 9.6 | 292 |
| | 1741 | 10.3 | 315 | | | | 1934 | 10.5 | 319 | | 1351 | 5.0 | 152 | | 1709 | 11.1 | 338 | | 1149 | 5.4 | 165 |
| | 2247 | 7.7 | 234 | | | | | | | | 2142 | 11.6 | 353 | | 2257 | 7.7 | 235 | | 1921 | 11.1 | 338 |
| 13 Th | 0454 | 11.6 | 353 | | | 13 Su | 0108 | 8.5 | 260 | 28 M | 0412 | 7.1 | 215 | 13 Su | 0410 | 10.5 | 320 | 28 M | 0234 | 7.4 | 225 |
| | 1202 | 5.1 | 155 | | | | 0540 | 10.0 | 304 | | 0915 | 9.8 | 299 | | 1058 | 4.9 | 148 | | 0719 | 9.2 | 279 |
| | 1905 | 10.3 | 313 | | | | 1325 | 4.8 | 147 | | 1512 | 4.6 | 139 | | 1840 | 10.7 | 326 | | 1322 | 5.8 | 177 |
| | | | | | | | 2111 | 11.2 | 340 | | 2232 | 12.3 | 375 | | | | | | 2101 | 11.2 | 342 |
| 14 F | 0012 | 8.5 | 259 | | | 14 M | 0255 | 8.2 | 250 | 29 Tu | 0503 | 9.9 | 301 | 14 M | 0036 | 8.1 | 247 | 29 Tu | 0344 | 6.6 | 200 |
| | 0545 | 10.8 | 329 | | | | 0730 | 9.8 | 299 | | 0722 | 9.4 | 288 | | 0503 | 9.9 | 301 | | 0916 | 9.7 | 297 |
| | 1314 | 5.0 | 151 | | | | 1434 | 4.2 | 127 | | 1351 | 5.0 | 152 | | 1230 | 5.1 | 154 | | 1445 | 5.6 | 170 |
| | 2047 | 10.8 | 328 | | | | 2206 | 12.2 | 372 | | 2142 | 11.6 | 353 | | 2012 | 11.1 | 338 | | 2155 | 11.7 | 358 |
| 15 Sa | 0210 | 8.7 | 264 | | | 15 Tu | 0401 | 7.3 | 224 | 30 W | 0222 | 7.7 | 234 | 15 Tu | 0704 | 9.7 | 295 | 30 W | 0422 | 5.7 | 173 |
| | 0655 | 10.2 | 312 | | | | 0908 | 10.5 | 319 | | 1351 | 5.0 | 152 | | 0704 | 9.7 | 295 | | 1008 | 10.7 | 326 |
| | 1419 | 4.5 | 136 | | | | 1533 | 3.2 | 98 | | 2120 | 12.0 | 367 | | 1359 | 4.6 | 141 | | 1543 | 5.1 | 155 |
| | 2158 | 11.7 | 356 | | | | 2247 | 13.4 | 407 | | | | | | 2120 | 12.0 | 367 | | 2233 | 12.2 | 373 |
| | | | | | 31 M | 0508 | 6.6 | 200 | 31 Th | 0449 | 4.8 | 146 | 31 Th | 0449 | 4.8 | 146 | 31 Th | 0449 | 4.8 | 146 | |
| | | | | | | 1021 | 11.0 | 335 | | | | | | 1046 | 11.6 | 354 | | 1046 | 11.6 | 354 | |
| | | | | | | 1629 | 3.0 | 91 | | | | | | 1627 | 4.7 | 142 | | 1627 | 4.7 | 142 | |
| | | | | | | 2332 | 13.8 | 420 | | | | | | 2304 | 12.7 | 387 | | 2304 | 12.7 | 387 | |

Time meridian 82° 30' E. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
 Heights are referred to the chart datum of soundings.

Bombay, India, 2011

Times and Heights of High and Low Waters

| April | | | | May | | | | June | | | | | | | | | | | | | | | | | | | | | |
|-----------------|--------|------|------|--------|-----------------|------|--------|------|------|-----------------|------|------|--------|----|-----------------|------|------|-----|--|-----------------|------|------|-----|------|-----------------|------|------|-----|--|
| Time | Height | | Time | Height | | Time | Height | | Time | Height | | Time | Height | | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | | | | | | |
| 1 F | 0511 | 4.0 | 122 | | 16 Sa | 0428 | 2.4 | 74 | | 1 Su | 0454 | 3.2 | 97 | | 16 M | 0445 | 1.0 | 31 | | 1 W | 0519 | 2.4 | 73 | | 16 Th | 0559 | 1.0 | 32 | |
| | 1122 | 12.4 | 377 | | | 1053 | 14.1 | 429 | | | 1131 | 13.0 | 395 | | | 1131 | 15.2 | 463 | | | 1219 | 13.8 | 421 | | | 1253 | 15.3 | 466 | |
| | 1704 | 4.4 | 135 | | | 1643 | 3.9 | 119 | | | 1715 | 5.7 | 174 | | | 1726 | 5.2 | 159 | | | 1817 | 6.2 | 190 | | | 1908 | 5.3 | 161 | |
| | 2330 | 13.0 | 396 | | | 2303 | 14.6 | 444 | | | 2318 | 12.2 | 373 | | | 2323 | 13.8 | 421 | | | 2353 | 12.0 | 367 | | | | | | |
| 2 Sa | 0533 | 3.3 | 101 | | 17 Su | 0512 | 1.1 | 33 | | 2 M | 0522 | 2.6 | 78 | | 17 Tu | 0530 | 0.5 | 14 | | 2 Th | 0550 | 2.0 | 62 | | 17 F | 0046 | 13.3 | 405 | |
| | 1154 | 13.0 | 396 | | | 1142 | 15.3 | 465 | | | 1204 | 13.5 | 413 | | | 1217 | 15.7 | 479 | | | 1255 | 14.2 | 432 | | | 0642 | 1.2 | 37 | |
| | 1738 | 4.3 | 132 | | | 1736 | 3.7 | 114 | | | 1753 | 5.6 | 170 | | | 1822 | 5.1 | 155 | | | 1853 | 6.0 | 183 | | | 1336 | 15.2 | 464 | |
| | 2355 | 13.1 | 400 | | | 2344 | 14.9 | 454 | | | 2348 | 12.4 | 378 | | | | | | | | | | | 1954 | | 5.1 | 155 | | |
| 3 Su | 0558 | 2.7 | 83 | | 18 M | 0553 | 0.2 | 6 | | 3 Tu | 0551 | 2.1 | 64 | | 18 W | 0009 | 13.8 | 422 | | 3 F | 0027 | 12.4 | 377 | | 18 Sa | 0130 | 13.2 | 403 | |
| | 1226 | 13.5 | 411 | | | 1229 | 16.0 | 487 | | | 1237 | 14.0 | 426 | | | 0613 | 0.3 | 10 | | | 0621 | 1.9 | 57 | | | 0724 | 1.7 | 51 | |
| | 1809 | 4.4 | 133 | | | 1827 | 3.8 | 116 | | | 1827 | 5.5 | 167 | | | 1304 | 15.8 | 483 | | | 1331 | 14.4 | 440 | | | 1501 | 15.0 | 456 | |
| | | | | | | | | | | | | | | | | 1913 | 5.0 | 153 | | | 1932 | 5.8 | 177 | | | 2036 | 5.0 | 152 | |
| 4 M | 0019 | 13.2 | 402 | | 19 Tu | 0025 | 14.9 | 453 | | 4 W | 0016 | 12.5 | 382 | | 19 Th | 0052 | 13.7 | 418 | | 4 Sa | 0105 | 12.6 | 384 | | 19 Su | 0213 | 12.9 | 393 | |
| | 0623 | 2.2 | 68 | | | 0635 | -0.2 | -6 | | | 0618 | 1.8 | 56 | | | 0654 | 0.6 | 18 | | | 0658 | 1.9 | 59 | | | 0804 | 2.4 | 74 | |
| | 1257 | 13.8 | 421 | | | 1316 | 16.2 | 494 | | | 1311 | 14.2 | 434 | | | 1350 | 15.6 | 477 | | | 1410 | 14.6 | 444 | | | 1501 | 14.6 | 444 | |
| | 1838 | 4.4 | 135 | | | 1914 | 4.0 | 123 | | | 1901 | 5.4 | 165 | | | 2001 | 5.0 | 153 | | | 2014 | 5.6 | 172 | | | 2116 | 5.1 | 154 | |
| 5 Tu | 0041 | 13.2 | 402 | | 20 W | 0104 | 14.5 | 443 | | 5 Th | 0044 | 12.6 | 384 | | 20 F | 0136 | 13.4 | 408 | | 5 Su | 0144 | 12.6 | 385 | | 20 M | 0258 | 12.3 | 375 | |
| | 0648 | 1.9 | 57 | | | 0714 | -0.1 | -3 | | | 0646 | 1.8 | 54 | | | 0737 | 1.2 | 36 | | | 0741 | 2.2 | 68 | | | 0843 | 3.4 | 105 | |
| | 1326 | 14.0 | 428 | | | 1402 | 16.0 | 487 | | | 1345 | 14.3 | 437 | | | 1436 | 15.2 | 464 | | | 1452 | 14.5 | 443 | | | 1540 | 14.0 | 426 | |
| | 1907 | 4.6 | 139 | | | 2000 | 4.4 | 135 | | | 1937 | 5.5 | 167 | | | 2048 | 5.2 | 158 | | | 2059 | 5.5 | 169 | | | 2152 | 5.3 | 161 | |
| 6 W | 0107 | 13.1 | 400 | | 21 Th | 0145 | 13.9 | 425 | | 6 F | 0117 | 12.5 | 382 | | 21 Sa | 0221 | 12.8 | 390 | | 6 M | 0227 | 12.5 | 381 | | 21 Tu | 0344 | 11.5 | 352 | |
| | 0713 | 1.7 | 53 | | | 0754 | 0.6 | 17 | | | 0716 | 2.0 | 60 | | | 0821 | 2.1 | 65 | | | 0825 | 2.8 | 84 | | | 0918 | 4.6 | 140 | |
| | 1358 | 14.1 | 429 | | | 1449 | 15.3 | 467 | | | 1422 | 14.2 | 433 | | | 1523 | 14.6 | 444 | | | 1534 | 14.4 | 438 | | | 1617 | 13.3 | 405 | |
| | 1939 | 4.8 | 147 | | | 2049 | 5.0 | 153 | | | 2015 | 5.7 | 174 | | | 2137 | 5.5 | 168 | | | 2145 | 5.4 | 165 | | | 2230 | 5.5 | 169 | |
| 7 Th | 0134 | 12.9 | 392 | | 22 F | 0228 | 13.0 | 397 | | 7 Sa | 0153 | 12.3 | 374 | | 22 Su | 0311 | 12.0 | 366 | | 7 Tu | 0315 | 12.2 | 372 | | 22 W | 0432 | 10.8 | 329 | |
| | 0741 | 1.9 | 59 | | | 0835 | 1.7 | 51 | | | 0751 | 2.4 | 74 | | | 0907 | 3.3 | 102 | | | 0916 | 3.5 | 107 | | | 0955 | 5.7 | 175 | |
| | 1431 | 13.8 | 428 | | | 1538 | 14.4 | 439 | | | 1503 | 13.9 | 423 | | | 1609 | 13.8 | 421 | | | 1616 | 14.1 | 430 | | | 1650 | 12.6 | 384 | |
| | 2015 | 5.3 | 161 | | | 2142 | 5.8 | 176 | | | 2059 | 6.1 | 185 | | | 2229 | 5.9 | 180 | | | 2235 | 5.2 | 160 | | | 2308 | 5.7 | 175 | |
| 8 F | 0208 | 12.4 | 379 | | 23 Sa | 0319 | 11.9 | 362 | | 8 Su | 0232 | 11.9 | 362 | | 23 M | 0407 | 11.1 | 337 | | 8 W | 0412 | 11.8 | 360 | | 23 Th | 0524 | 10.2 | 312 | |
| | 0811 | 2.4 | 74 | | | 0921 | 3.1 | 95 | | | 0830 | 3.1 | 93 | | | 0954 | 4.6 | 141 | | | 1011 | 4.4 | 134 | | | 1037 | 6.7 | 205 | |
| | 1510 | 13.3 | 405 | | | 1629 | 13.3 | 406 | | | 1546 | 13.4 | 409 | | | 1654 | 13.0 | 396 | | | 1703 | 13.7 | 418 | | | 1723 | 11.9 | 364 | |
| | 2058 | 6.0 | 182 | | | 2247 | 6.5 | 199 | | | 2151 | 6.4 | 196 | | | 2325 | 6.3 | 191 | | | 2329 | 4.9 | 150 | | | 2355 | 5.7 | 175 | |
| 9 Sa | 0242 | 11.8 | 360 | | 24 Su | 0418 | 10.7 | 325 | | 9 M | 0315 | 11.4 | 348 | | 24 Tu | 0508 | 10.3 | 313 | | 9 Th | 0521 | 11.5 | 351 | | 24 F | 0625 | 10.0 | 305 | |
| | 0845 | 3.2 | 97 | | | 1015 | 4.6 | 139 | | | 0915 | 3.8 | 116 | | | 1044 | 5.8 | 177 | | | 1114 | 5.3 | 162 | | | 1135 | 7.5 | 230 | |
| | 1553 | 12.6 | 383 | | | 1725 | 12.3 | 376 | | | 1633 | 13.0 | 395 | | | 1738 | 12.3 | 374 | | | 1752 | 13.3 | 406 | | | 1803 | 11.4 | 346 | |
| | 2146 | 6.7 | 205 | | | | | | | | 2251 | 6.6 | 201 | | | | | | | | | | | | | | | | |
| 10 Su | 0317 | 11.1 | 339 | | 25 M | 0010 | 7.0 | 212 | | 10 Tu | 0405 | 10.9 | 333 | | 25 W | 0027 | 6.4 | 195 | | 10 F | 0029 | 4.4 | 135 | | 25 Sa | 0054 | 5.5 | 169 | |
| | 0924 | 4.0 | 122 | | | 0531 | 9.7 | 296 | | | 1013 | 4.6 | 139 | | | 0614 | 9.8 | 299 | | | 0648 | 11.5 | 352 | | | 0739 | 10.1 | 309 | |
| | 1646 | 11.9 | 362 | | | 1119 | 5.7 | 175 | | | 1729 | 12.7 | 386 | | | 1139 | 6.7 | 205 | | | 1226 | 6.1 | 186 | | | 1301 | 8.0 | 244 | |
| | 2251 | 7.3 | 224 | | | 1825 | 11.6 | 354 | | | 2359 | 6.4 | 194 | | | 1820 | 11.7 | 357 | | | 1848 | 12.9 | 393 | | | 1853 | 10.9 | 331 | |
| 11 M | 0358 | 10.5 | 320 | | 26 Tu | 0138 | 6.9 | 209 | | 11 W | 0515 | 10.6 | 324 | | 26 Th | 0125 | 6.2 | 189 | | 11 Sa | 0132 | 3.7 | 114 | | 26 Su | 0153 | 5.1 | 155 | |
| | 1021 | 4.7 | 143 | | | 0655 | 9.4 | 286 | | | 1127 | 5.2 | 158 | | | 0732 | 9.8 | 300 | | | 0814 | 12.0 | 367 | | | 0908 | 10.7 | 327 | |
| | 1800 | 11.5 | 350 | | | 1239 | 6.4 | 195 | | | 1830 | 12.6 | 383 | | | 1253 | 7.3 | 221 | | | 1347 | 6.6 | 200 | | | 1428 | 8.0 | 244 | |
| | | | | | | 1928 | 11.3 | 344 | | | | | | | | 1905 | 11.4 | 346 | | | 1951 | 12.6 | 384 | | | 1953 | 10.5 | 321 | |
| 12 Tu | 0022 | 7.4 | 227 | | 27 W | 0247 | 6.4 | 194 | | 12 Th | 0110 | 5.6 | 172 | | 27 F | 0214 | 5.7 | 173 | | 12 Su | 0232 | 3.0 | 90 | | 27 M | 0246 | 4.5 | 138 | |
| | 0500 | 10.0 | 305 | | | 0849 | 9.8 | 298 | | | 0657 | 10.8 | 329 | | | 0903 | 10.4 | 317 | | | 0929 | 12.9 | 394 | | | 1003 | 11.5 | 351 | |
| | 1147 | 5.2 | 157 | | | 1358 | 6.5 | 199 | | | 1251 | 5.6 | 170 | | | 1408 | 7.4 | 225 | | | 1504 | 6.6 | 202 | | | 1538 | 7.7 | 235 | |
| | 1917 | 11.6 | 355 | | | 2035 | 11.3 | 345 | | | 1933 | 12.7 | 388 | | | 1957 | 11.2 | 341 | | | 2059 | 12.4 | 379 | | | 2057 | 10.5 | 319 | |
| 13 W | 0149 | 6.8 | 207 | | 28 Th | 0329 | 5.6 | 171 | | 13 F | 0213 | 4.5 | 138 | | 28 Sa | 0257 | 5.0 | 151 | | 13 M | 0329 | 2.2 | 67 | | 28 Tu | 0333 | 3.9 | 118 | |
| | 0702 | 10.0 | 306 | | | 0946 | 10.6 | 323 | | | 0832 | 11.7 | 357 | | | 0954 | 11.2 | 341 | | | 1029 | 13.8 | 422 | | | 1043 | 12.3 | 374 | |
| | 1323 | 5.1 | 156 | | | 1501 | 6.3 | 193 | | | 1412 | 5.7 | 173 | | | 1512 | 7.3 | 222 | | | 1617 | 6.4 | 196 | | | 1635 | 7.3 | 223 | |
| | 2026 | 12.3 | 374 | | | 2126 | 11.5 | 352 | | | 2035 | 13.0 | 396 | | | 2054 | 11. | | | | | | | | | | | | |

Bombay, India, 2011

Times and Heights of High and Low Waters

| July | | | | August | | | | September | | | | | | | | | | | | | | | |
|-----------------|------|--------|------|-----------------|------|--------|------|-----------------|------|--------|------|-----------------|------|--------|------|-----------------|------|------|------|-----------------|-----------------|------|------|
| Time | | Height | | Time | | Height | | Time | | Height | | Time | | Height | | | | | | | | | |
| h | m | ft | cm | h | m | ft | cm | h | m | ft | cm | h | m | ft | cm | | | | | | | | |
| 1 F | 0525 | 2.1 | 63 | 16 Sa | 0038 | 13.0 | 397 | 1 M | 0044 | 13.6 | 415 | 16 Tu | 0135 | 13.0 | 395 | 1 Th | 0201 | 15.1 | 461 | | | | |
| | 1232 | 14.2 | 432 | | 0629 | 1.7 | 51 | | 0632 | 1.3 | 39 | | 0704 | 3.1 | 93 | | 0747 | 2.6 | 78 | | | | |
| | 1835 | 6.0 | 182 | | 1316 | 14.8 | 451 | | 1321 | 15.5 | 472 | | 1346 | 13.8 | 421 | | 1412 | 15.2 | 464 | 16 F | 0730 | 4.5 | 138 |
| ● | | | 1931 | 4.7 | 142 | 1932 | 3.3 | 100 | 1954 | 3.5 | 108 | 2026 | 0.7 | 21 | 2000 | 2.6 | 78 | | | | | | |
| 2 Sa | 0012 | 12.5 | 381 | 17 Su | 0120 | 13.1 | 400 | 2 Tu | 0129 | 14.1 | 431 | 17 W | 0204 | 12.7 | 388 | 2 F | 0248 | 14.8 | 450 | | 17 Sa | 0230 | 12.8 | 389 |
| | 0602 | 1.7 | 51 | | 0705 | 2.0 | 62 | | 0717 | 1.5 | 46 | | 0728 | 3.7 | 112 | | 0833 | 3.6 | 111 | 0802 | | 5.1 | 155 |
| | 1311 | 14.6 | 446 | | 1353 | 14.6 | 446 | | 1401 | 15.7 | 478 | | 1411 | 13.5 | 410 | | 1454 | 14.4 | 439 | 1424 | | 12.3 | 374 |
| 1915 | 5.4 | 165 | 2007 | 4.5 | 137 | 2016 | 2.5 | 76 | 2056 | 2.0 | 62 | 2017 | 3.4 | 104 | 2106 | 1.1 | 35 | 2029 | 3.0 | 91 | | | |
| 3 Su | 0054 | 13.0 | 397 | 18 M | 0159 | 12.9 | 394 | 3 W | 0213 | 14.3 | 437 | 18 Th | 0232 | 12.4 | 378 | 3 Sa | 0338 | 13.9 | 425 | 18 Su | 0305 | 12.2 | 373 |
| | 0645 | 1.6 | 48 | | 0736 | 2.7 | 81 | | 0803 | 2.2 | 66 | | 0752 | 4.4 | 133 | | 0923 | 5.0 | 152 | | 0842 | 5.9 | 179 |
| | 1349 | 15.0 | 458 | | 1428 | 14.3 | 435 | | 1443 | 15.5 | 473 | | 1435 | 13.0 | 397 | | 1538 | 13.2 | 402 | | 1459 | 11.6 | 353 |
| 1959 | 4.8 | 147 | 2038 | 4.4 | 135 | 2056 | 2.0 | 62 | 2042 | 3.4 | 104 | 2042 | 3.4 | 104 | 2150 | 2.1 | 65 | 2102 | 3.7 | 114 | | | |
| 4 M | 0136 | 13.3 | 406 | 19 Tu | 0235 | 12.5 | 381 | 4 Th | 0302 | 14.1 | 430 | 19 F | 0259 | 12.0 | 365 | 4 Su | 0438 | 12.8 | 390 | 19 M | 0346 | 11.5 | 350 |
| | 0731 | 1.8 | 54 | | 0806 | 3.5 | 107 | | 0850 | 3.2 | 98 | | 0822 | 5.1 | 156 | | 1022 | 6.4 | 194 | | 0933 | 6.8 | 207 |
| | 1430 | 15.2 | 464 | | 1501 | 13.8 | 421 | | 1525 | 14.9 | 455 | | 1501 | 12.5 | 382 | | 1623 | 11.8 | 359 | | 1534 | 10.8 | 328 |
| 2042 | 4.3 | 130 | 2107 | 4.5 | 136 | 2139 | 2.0 | 62 | 2139 | 2.0 | 62 | 2110 | 3.7 | 112 | 2242 | 3.4 | 103 | 2143 | 4.6 | 140 | | | |
| 5 Tu | 0222 | 13.4 | 408 | 20 W | 0311 | 11.9 | 363 | 5 F | 0355 | 13.5 | 410 | 20 Sa | 0333 | 11.5 | 349 | 5 M | 0550 | 11.7 | 357 | 20 Tu | 0443 | 10.7 | 327 |
| | 0818 | 2.3 | 71 | | 0833 | 4.5 | 136 | | 0939 | 4.6 | 140 | | 0902 | 6.0 | 183 | | 1151 | 7.4 | 227 | | 1041 | 7.6 | 232 |
| | 1511 | 15.2 | 463 | | 1528 | 13.2 | 403 | | 1606 | 13.9 | 425 | | 1533 | 11.8 | 361 | | 1728 | 10.4 | 317 | | 1614 | 10.0 | 304 |
| 2125 | 3.8 | 116 | 2134 | 4.6 | 139 | 2222 | 2.5 | 75 | 2222 | 2.5 | 75 | 2146 | 4.2 | 127 | 2355 | 4.4 | 135 | 2247 | 5.3 | 162 | | | |
| 6 W | 0312 | 13.2 | 402 | 21 Th | 0344 | 11.3 | 344 | 6 Sa | 0457 | 12.6 | 384 | 21 Su | 0420 | 10.8 | 330 | 6 Tu | 0715 | 11.1 | 339 | 21 W | 0608 | 10.3 | 315 |
| | 0907 | 3.2 | 98 | | 0902 | 5.4 | 166 | | 1036 | 6.0 | 184 | | 0954 | 7.0 | 212 | | 1352 | 7.6 | 231 | | 1222 | 8.0 | 243 |
| | 1553 | 14.9 | 453 | | 1552 | 12.6 | 385 | | 1650 | 12.7 | 386 | | 1608 | 11.0 | 336 | | 1903 | 9.6 | 293 | | 1708 | 9.4 | 287 |
| 2208 | 3.5 | 108 | 2203 | 4.7 | 144 | 2314 | 3.1 | 96 | 2314 | 3.1 | 96 | 2237 | 4.8 | 146 | 2200 | 10.7 | 325 | 2041 | 10.1 | 309 | | | |
| 7 Th | 0407 | 12.8 | 389 | 22 F | 0423 | 10.7 | 327 | 7 Su | 0611 | 11.8 | 359 | 22 M | 0528 | 10.2 | 312 | 7 W | 0123 | 4.8 | 147 | 22 Th | 0016 | 5.5 | 168 |
| | 0959 | 4.4 | 133 | | 0939 | 6.4 | 195 | | 1152 | 7.2 | 220 | | 1108 | 7.8 | 239 | | 0850 | 11.3 | 344 | | 0736 | 10.6 | 323 |
| | 1636 | 14.2 | 433 | | 1619 | 12.0 | 365 | | 1744 | 11.4 | 348 | | 1651 | 10.1 | 309 | | 1524 | 6.9 | 210 | | 1359 | 7.5 | 230 |
| 2257 | 3.5 | 106 | 2242 | 5.0 | 151 | 2347 | 5.2 | 159 | 2347 | 5.2 | 159 | 2046 | 9.8 | 299 | 2046 | 9.8 | 299 | 1859 | 9.3 | 284 | | | |
| 8 F | 0514 | 12.2 | 373 | 23 Sa | 0517 | 10.3 | 314 | 8 M | 0022 | 3.7 | 114 | 23 Tu | 0659 | 10.1 | 307 | 8 Th | 0241 | 4.6 | 139 | 23 F | 0140 | 5.1 | 156 |
| | 1057 | 5.6 | 171 | | 1033 | 7.3 | 223 | | 0739 | 11.4 | 348 | | 1253 | 8.2 | 250 | | 0952 | 11.9 | 363 | | 0845 | 11.4 | 348 |
| | 1721 | 13.4 | 407 | | 1656 | 11.3 | 343 | | 1337 | 7.7 | 236 | | 1752 | 9.5 | 289 | | 1616 | 5.9 | 180 | | 1502 | 6.6 | 200 |
| 2351 | 3.5 | 106 | 2338 | 5.2 | 157 | 1902 | 10.5 | 320 | 1902 | 10.5 | 320 | 2200 | 10.7 | 325 | 2200 | 10.7 | 325 | 2041 | 10.1 | 309 | | | |
| 9 Sa | 0631 | 11.9 | 362 | 24 Su | 0630 | 10.1 | 307 | 9 Tu | 0137 | 3.9 | 120 | 24 W | 0106 | 5.2 | 158 | 9 F | 0342 | 4.0 | 122 | 24 Sa | 0245 | 4.4 | 134 |
| | 1207 | 6.7 | 204 | | 1152 | 8.0 | 245 | | 0906 | 11.7 | 357 | | 0834 | 10.6 | 322 | | 1036 | 12.6 | 385 | | 0936 | 12.5 | 380 |
| | 1814 | 12.4 | 379 | | 1745 | 10.5 | 320 | | 1519 | 7.3 | 224 | | 1430 | 7.9 | 241 | | 1653 | 5.0 | 151 | | 1549 | 5.2 | 160 |
| | | | | | | | | 2033 | 10.3 | 314 | 2033 | 10.3 | 314 | 1930 | 9.4 | 285 | 2249 | 11.6 | 354 | 2149 | 11.5 | 350 | |
| 10 Su | 0054 | 3.4 | 105 | 25 M | 0047 | 5.2 | 158 | 10 W | 0251 | 3.6 | 111 | 25 Th | 0214 | 4.6 | 141 | 10 Sa | 0430 | 3.5 | 106 | 25 Su | 0341 | 3.6 | 111 |
| | 0755 | 11.9 | 363 | | 0758 | 10.3 | 313 | | 1010 | 12.4 | 379 | | 0937 | 11.5 | 350 | | 1112 | 13.2 | 402 | | 1021 | 13.5 | 412 |
| | 1332 | 7.3 | 222 | | 1336 | 8.2 | 251 | | 1625 | 6.5 | 198 | | 1536 | 7.2 | 218 | | 1724 | 4.2 | 127 | | 1630 | 3.8 | 116 |
| 1919 | 11.7 | 356 | 1855 | 9.9 | 303 | 2156 | 10.9 | 331 | 2156 | 10.9 | 331 | 2056 | 10.0 | 304 | 2329 | 12.4 | 378 | 2244 | 12.9 | 394 | | | |
| 11 M | 0201 | 3.2 | 99 | 26 Tu | 0155 | 4.9 | 148 | 11 Th | 0354 | 3.1 | 94 | 26 F | 0311 | 3.8 | 115 | 11 Su | 0509 | 3.2 | 97 | 26 M | 0432 | 3.0 | 92 |
| | 0917 | 12.4 | 378 | | 0926 | 11.0 | 334 | | 1059 | 13.2 | 403 | | 1019 | 12.5 | 381 | | 1145 | 13.5 | 412 | | 1102 | 14.4 | 438 |
| | 1501 | 7.3 | 222 | | 1503 | 8.0 | 243 | | 1712 | 5.6 | 170 | | 1620 | 6.2 | 188 | | 1752 | 3.6 | 110 | | 1711 | 2.4 | 73 |
| 2037 | 11.4 | 346 | 2010 | 9.8 | 300 | 2255 | 11.7 | 357 | 2255 | 11.7 | 357 | 2202 | 11.0 | 336 | 2202 | 11.0 | 336 | 2332 | 14.2 | 433 | | | |
| 12 Tu | 0304 | 2.8 | 86 | 27 W | 0252 | 4.2 | 129 | 12 F | 0447 | 2.5 | 77 | 27 Sa | 0400 | 2.9 | 88 | 12 M | 0006 | 12.9 | 393 | 27 Tu | 0520 | 2.7 | 82 |
| | 1020 | 13.1 | 400 | | 1015 | 11.8 | 359 | | 1139 | 13.8 | 422 | | 1057 | 13.5 | 413 | | 0542 | 3.2 | 98 | | 1144 | 14.9 | 455 |
| | 1621 | 6.8 | 206 | | 1607 | 7.4 | 226 | | 1750 | 4.8 | 147 | | 1659 | 5.0 | 153 | | 1214 | 13.6 | 414 | | 1754 | 1.2 | 36 |
| 2155 | 11.5 | 352 | 2121 | 10.2 | 311 | 2343 | 12.4 | 379 | 2343 | 12.4 | 379 | 2256 | 12.3 | 374 | 1818 | 3.2 | 98 | ● | | | | | |
| 13 W | 0406 | 2.3 | 70 | 28 Th | 0340 | 3.5 | 106 | 13 Sa | 0531 | 2.2 | 67 | 28 Su | 0448 | 2.1 | 65 | 13 Tu | 0039 | 13.1 | 400 | 28 W | 0019 | 15.2 | 463 |
| | 1112 | 13.9 | 423 | | 1054 | 12.7 | 386 | | 1215 | 14.2 | 433 | | 1135 | 14.5 | 442 | | 0611 | 3.4 | 105 | | 0606 | 2.6 | 80 |
| | 1721 | 6.1 | 185 | | 1650 | 6.8 | 206 | | 1825 | 4.3 | 131 | | 1739 | 3.8 | 116 | | 1240 | 13.5 | 410 | | 1222 | 15.2 | 462 |
| 2301 | 12.1 | 369 | 2221 | 11.0 | 335 | | | | | 2345 | 13.5 | 410 | 1845 | 2.9 | 88 | 1836 | 0.3 | 10 | | | | | |
| 14 Th | 0500 | 1.9 | 57 | 29 F | 0422 | 2.7 | 81 | 14 Su | 0024 | 12.9 | 393 | 29 M | 0534 | 1.7 | 51 | 14 W | 0109 | 13.2 | 403 | 29 Th | 0102 | 15.7 | 479 |
| | 1156 | 14.4 | 440 | | 1129 | 13.5 | 412 | | 0608 | 2.2 | 68 | | 1212 | 15.2 | 463 | | 0637 | 3.8 | 115 | | 0652 | 2.9 | 88 |
| | 1809 | 5.4 | 166 | | 1729 | 6.0 | 184 | | 1248 | 14.3 | 435 | | 1820 | 2.6 | 79 | | 1303 | 13.3 | 405 | | 1303 | 15.1 | 459 |
| 2353 | 12.7 | 386 | 2311 | 11.9 | 363 | 1858 | 4.0 | 121 | 1858 | 4.0 | 121 | ● | | | 1910 | 2.6 | 80 | 1917 | 0.0 | -1 | | | |
| 15 F | 0547 | 1.6 | 49 | 30 Sa | 0505 | 1.9 | 59 | 15 M | 0102 | 13.1 | 398 | 30 Tu | 0032 | 14.4 | 439 | 15 Th | 0137 | 13.2 | 402 | 30 F | 0148 | 15.7 | 480 |

Karachi, Pakistan, 2011

Times and Heights of High and Low Waters

| January | | | | February | | | | March | | | | | | | | | | | |
|-----------------|--------|------|------|-----------------|--------|------|--------|-----------------|--------|--------|-----|-----------------|--------|------|-----|-----------------|---------------|------|-----|
| Time | Height | | Time | Height | | Time | Height | | Time | Height | | Time | Height | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | |
| 1 Sa | 0144 | 4.9 | 150 | 16 Su | 0139 | 5.9 | 180 | 1 Tu | 0351 | 3.9 | 120 | 16 W | 0311 | 4.3 | 130 | | | | |
| | 0712 | 8.2 | 250 | | 0630 | 7.5 | 230 | | 0911 | 7.5 | 230 | | 0832 | 7.5 | 230 | 1 Tu | 0234 | 4.3 | 130 |
| | 1412 | 0.3 | 10 | | 1348 | 1.3 | 40 | | 1541 | 0.3 | 10 | | 1510 | 0.7 | 20 | | 1427 | 1.3 | 40 |
| | 2125 | 8.5 | 260 | | 2127 | 8.2 | 250 | | 2239 | 9.2 | 280 | | 2208 | 9.2 | 280 | | 2134 | 8.5 | 260 |
| 2 Su | 0259 | 4.9 | 150 | 17 M | 0247 | 5.6 | 170 | 2 W | 0438 | 3.3 | 100 | 17 Th | 0357 | 3.3 | 100 | | 2 W | 0323 | 3.6 | 110 |
| | 0815 | 8.2 | 250 | | 0740 | 7.5 | 230 | | 1003 | 7.9 | 240 | | 0936 | 8.2 | 250 | 0900 | | 7.5 | 230 |
| | 1507 | 0.0 | 0 | | 1441 | 1.0 | 30 | | 1624 | 0.3 | 10 | | 1555 | 0.3 | 10 | 1515 | | 1.3 | 40 |
| | 2214 | 9.2 | 280 | | 2207 | 8.9 | 270 | | 2314 | 9.5 | 290 | | 2242 | 9.8 | 300 | 2209 | | 8.9 | 270 |
| 3 M | 0404 | 4.3 | 130 | 18 Tu | 0340 | 4.9 | 150 | 3 Th | 0516 | 3.0 | 90 | 18 F | 0439 | 2.6 | 80 | 3 Th | 0403 | 3.0 | 90 |
| | 0914 | 8.2 | 250 | | 0846 | 7.9 | 240 | | 1047 | 7.9 | 240 | | 1029 | 8.5 | 260 | | 0949 | 7.9 | 240 |
| | 1557 | -0.3 | -10 | | 1531 | 0.3 | 10 | | 1701 | 0.7 | 20 | | 1638 | 0.3 | 10 | | 1556 | 1.3 | 40 |
| | 2256 | 9.5 | 290 | | 2244 | 9.5 | 290 | | ● 2345 | 9.8 | 300 | | ○ 2315 | 10.2 | 310 | | 2240 | 9.2 | 280 |
| 4 Tu | 0456 | 3.9 | 120 | 19 W | 0425 | 4.3 | 130 | 4 F | 0551 | 2.6 | 80 | 19 Sa | 0519 | 1.6 | 50 | 4 F | 0439 | 2.6 | 80 |
| | 1007 | 8.2 | 250 | | 0946 | 8.2 | 250 | | 1125 | 8.2 | 250 | | 1115 | 9.2 | 280 | | 1031 | 8.2 | 250 |
| | 1643 | -0.3 | -10 | | 1617 | 0.0 | 0 | | 1733 | 1.0 | 30 | | 1717 | 0.3 | 10 | | 1631 | 1.6 | 50 |
| | ● 2335 | 9.8 | 300 | | ● 2318 | 9.8 | 300 | | ○ 2349 | 10.5 | 320 | | ○ 2307 | 9.2 | 280 | | 2307 | 9.2 | 280 |
| 5 W | 0539 | 3.3 | 100 | 20 Th | 0505 | 3.3 | 100 | 5 Sa | 0013 | 9.8 | 300 | 20 Su | 0559 | 1.0 | 30 | 5 Sa | 0511 | 2.3 | 70 |
| | 1053 | 8.2 | 250 | | 1038 | 8.5 | 260 | | 0622 | 2.3 | 70 | | 1158 | 9.2 | 280 | | 1108 | 8.5 | 260 |
| | 1722 | 0.0 | 0 | | 1700 | -0.3 | -10 | | 1159 | 8.2 | 250 | | 1756 | 1.0 | 30 | | 1701 | 2.0 | 60 |
| | ○ 2351 | 10.2 | 310 | | ○ 2351 | 10.2 | 310 | | 1800 | 1.3 | 40 | | ● 2332 | 9.2 | 280 | | ● 2332 | 9.2 | 280 |
| 6 Th | 0010 | 9.8 | 300 | 21 F | 0544 | 2.6 | 80 | 6 Su | 0038 | 9.8 | 300 | 21 M | 0023 | 10.5 | 320 | 6 Su | 0541 | 2.0 | 60 |
| | 0617 | 3.3 | 100 | | 1123 | 8.9 | 270 | | 0651 | 2.3 | 70 | | 0639 | 0.3 | 10 | | 1141 | 8.9 | 270 |
| | 1133 | 8.2 | 250 | | 1740 | 0.0 | 0 | | 1233 | 8.2 | 250 | | 1240 | 9.2 | 280 | | 1729 | 2.3 | 70 |
| | 1756 | 0.3 | 10 | | 1827 | 2.0 | 60 | | 1827 | 2.0 | 60 | | 1834 | 1.6 | 50 | | 2355 | 9.2 | 280 |
| 7 F | 0043 | 9.8 | 300 | 22 Sa | 0023 | 10.5 | 320 | 7 M | 0102 | 9.5 | 290 | 22 Tu | 0058 | 10.5 | 320 | 7 M | 0609 | 1.6 | 50 |
| | 0652 | 3.0 | 90 | | 0623 | 2.0 | 60 | | 0719 | 2.3 | 70 | | 0722 | 0.3 | 10 | | 1213 | 8.9 | 270 |
| | 1210 | 7.9 | 240 | | 1207 | 8.9 | 270 | | 1307 | 7.9 | 240 | | 1324 | 8.9 | 270 | | 1757 | 2.6 | 80 |
| | 1827 | 1.0 | 30 | | 1818 | 0.3 | 10 | | 1856 | 2.6 | 80 | | 1916 | 2.3 | 70 | | 1813 | 2.6 | 80 |
| 8 Sa | 0113 | 9.8 | 300 | 23 Su | 0057 | 10.5 | 320 | 8 Tu | 0125 | 9.2 | 280 | 23 W | 0133 | 9.8 | 300 | 8 Tu | 0017 | 9.2 | 280 |
| | 0726 | 3.0 | 90 | | 0703 | 1.6 | 50 | | 0749 | 2.3 | 70 | | 0809 | 0.3 | 10 | | 0636 | 1.6 | 50 |
| | 1246 | 7.9 | 240 | | 1249 | 8.9 | 270 | | 1344 | 7.5 | 230 | | 1414 | 8.2 | 250 | | 1246 | 8.5 | 260 |
| | 1856 | 1.6 | 50 | | 1857 | 1.0 | 30 | | 1929 | 3.6 | 110 | | 2003 | 3.3 | 100 | | 1827 | 3.3 | 100 |
| 9 Su | 0139 | 9.5 | 290 | 24 M | 0131 | 10.5 | 320 | 9 W | 0149 | 9.2 | 280 | 24 Th | 0209 | 9.2 | 280 | 9 W | 0040 | 9.2 | 280 |
| | 0758 | 3.0 | 90 | | 0747 | 1.3 | 40 | | 0823 | 2.3 | 70 | | 0902 | 0.7 | 20 | | 0706 | 1.6 | 50 |
| | 1324 | 7.5 | 230 | | 1335 | 8.5 | 260 | | 1428 | 7.2 | 220 | | 1517 | 7.5 | 230 | | 1320 | 8.2 | 250 |
| | 1927 | 2.6 | 80 | | 1940 | 1.6 | 50 | | 2008 | 4.3 | 130 | | 2059 | 4.3 | 130 | | 1901 | 3.9 | 120 |
| 10 M | 0205 | 9.2 | 280 | 25 Tu | 0207 | 10.2 | 310 | 10 Th | 0216 | 8.9 | 270 | 25 F | 0250 | 8.5 | 260 | 10 Th | 0104 | 8.9 | 270 |
| | 0831 | 3.0 | 90 | | 0836 | 1.0 | 30 | | 0904 | 2.3 | 70 | | 1001 | 1.0 | 30 | | 0740 | 1.6 | 50 |
| | 1406 | 7.2 | 220 | | 1428 | 7.9 | 240 | | 1524 | 6.9 | 210 | | 1648 | 6.9 | 210 | | 1359 | 7.9 | 240 |
| | 2000 | 3.3 | 100 | | 2027 | 3.0 | 90 | | 2056 | 4.9 | 150 | | ● 2213 | 4.9 | 150 | | 1941 | 4.6 | 140 |
| 11 Tu | 0231 | 8.9 | 270 | 26 W | 0245 | 9.5 | 290 | 11 F | 0249 | 8.2 | 250 | 26 Sa | 0342 | 7.9 | 240 | 11 F | 0132 | 8.5 | 260 |
| | 0908 | 3.0 | 90 | | 0930 | 1.0 | 30 | | 0954 | 2.3 | 70 | | 1109 | 1.3 | 40 | | 0821 | 1.6 | 50 |
| | 1456 | 6.9 | 210 | | 1536 | 7.2 | 220 | | 1644 | 6.6 | 200 | | 1855 | 7.2 | 220 | | 1450 | 7.5 | 230 |
| | 2039 | 4.3 | 130 | | ● 2122 | 3.9 | 120 | | ● 2159 | 5.6 | 170 | | 2355 | 5.2 | 160 | | 2031 | 5.2 | 160 |
| 12 W | 0259 | 8.5 | 260 | 27 Th | 0327 | 9.2 | 280 | 12 Sa | 0331 | 7.9 | 240 | 27 Su | 0507 | 7.2 | 220 | 12 Sa | 0207 | 8.2 | 250 |
| | 0952 | 3.0 | 90 | | 1032 | 1.0 | 30 | | 1057 | 2.3 | 70 | | 1223 | 1.3 | 40 | | 0910 | 2.0 | 60 |
| | 1601 | 6.6 | 200 | | 1719 | 6.9 | 210 | | 1926 | 6.9 | 210 | | 2007 | 7.5 | 230 | | 1603 | 7.2 | 220 |
| | ● 2127 | 4.9 | 150 | | 2230 | 4.6 | 140 | | 2324 | 5.9 | 180 | | 2324 | 5.9 | 180 | | 2139 | 5.6 | 170 |
| 13 Th | 0332 | 8.2 | 250 | 28 F | 0419 | 8.2 | 250 | 13 Su | 0427 | 7.5 | 230 | 28 M | 0127 | 4.9 | 150 | 13 Su | 0253 | 7.9 | 240 |
| | 1045 | 3.0 | 90 | | 1141 | 1.0 | 30 | | 1211 | 2.0 | 60 | | 0642 | 6.9 | 210 | | 1012 | 2.3 | 70 |
| | 1742 | 6.2 | 190 | | 1914 | 7.2 | 220 | | 2024 | 7.5 | 230 | | 1331 | 1.3 | 40 | | 1736 | 7.2 | 220 |
| | 2231 | 5.6 | 170 | | 2231 | 5.6 | 170 | | 2055 | 8.2 | 250 | | 2055 | 8.2 | 250 | | ● 2303 | 5.9 | 180 |
| 14 F | 0415 | 7.9 | 240 | 29 Sa | 0003 | 5.2 | 160 | 14 M | 0111 | 5.9 | 180 | 29 Tu | 0355 | 7.2 | 220 | 14 M | 0355 | 7.2 | 220 |
| | 1147 | 2.6 | 80 | | 0529 | 7.9 | 240 | | 0546 | 7.2 | 220 | | 1129 | 2.3 | 70 | | 1129 | 2.3 | 70 |
| | 1945 | 6.9 | 210 | | 1252 | 0.7 | 20 | | 1322 | 1.6 | 50 | | 1907 | 7.5 | 230 | | 1907 | 7.5 | 230 |
| | 2025 | 7.9 | 240 | | 2025 | 7.9 | 240 | | 2101 | 8.2 | 250 | | 2101 | 8.2 | 250 | | 2012 | 7.9 | 240 |
| 15 Sa | 0002 | 5.9 | 180 | 30 Su | 0137 | 5.2 | 160 | 15 Tu | 0220 | 5.2 | 160 | 15 Tu | 0039 | 5.2 | 160 | 15 Tu | 0039 | 5.2 | 160 |
| | 0515 | 7.5 | 230 | | 0652 | 7.5 | 230 | | 0716 | 7.2 | 220 | | 0522 | 6.9 | 210 | | 0522 | 6.9 | 210 |
| | 1251 | 2.0 | 60 | | 1355 | 0.7 | 20 | | 1419 | 1.0 | 30 | | 1248 | 2.0 | 60 | | 1248 | 2.0 | 60 |
| | 2043 | 7.5 | 230 | | 2118 | 8.5 | 260 | | 2135 | 8.5 | 260 | | 1956 | 8.2 | 250 | | 1956 | 8.2 | 250 |
| 31 M | 0253 | 4.6 | 140 | 31 M | 0807 | 7.5 | 230 | 31 Th | 0246 | 3.3 | 100 | 31 Th | 0841 | 7.5 | 230 | 31 Th | 0246 | 3.3 | 100 |
| | 1452 | 0.3 | 10 | | 1452 | 0.3 | 10 | | 2201 | 8.9 | 270 | | 1441 | 2.6 | 80 | | 1441 | 2.6 | 80 |
| | 2201 | 8.9 | 270 | | 2201 | 8.9 | 270 | | 2201 | 8.9 | 270 | | 2120 | 8.5 | 260 | | 2120 | 8.5 | 260 |
| | | | | | | | | | | | | | | | | | | | |

Time meridian 75° E. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
 Heights are referred to the chart datum of soundings.

Karachi, Pakistan, 2011

Times and Heights of High and Low Waters

| April | | | | May | | | | June | | | | | | | | | | | | | | | | | | | | | |
|-----------------|------|--------|-----|------|-----------------|--------|------|------|----|-----------------|------|------|-----|--------|-----------------|------|------|-----|----|-----------------|------|-----|-----|--|-----------------|------|------|-----|--|
| Time | | Height | | Time | | Height | | Time | | Height | | Time | | Height | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | |
| 1 F | 0321 | 3.0 | 90 | | 16 Sa | 0249 | 1.6 | 50 | | 1 Su | 0310 | 2.0 | 60 | | 16 M | 0312 | 0.0 | 0 | | 1 W | 0355 | 1.0 | 30 | | 16 Th | 0437 | -0.7 | -20 | |
| | 0928 | 7.9 | 240 | | | 0908 | 8.9 | 270 | | | 0948 | 8.5 | 260 | | | 0954 | 9.5 | 290 | | | 1100 | 9.5 | 290 | | | 1126 | 10.2 | 310 | |
| | 1521 | 2.6 | 80 | | | 1500 | 2.6 | 80 | | | 1526 | 4.3 | 130 | | | 1534 | 3.9 | 120 | | | 1636 | 4.9 | 150 | | | 1723 | 4.3 | 130 | |
| | 2149 | 8.5 | 260 | | | 2104 | 9.8 | 300 | | | 2117 | 8.5 | 260 | | | 2111 | 9.5 | 290 | | | 2146 | 8.5 | 260 | | | 2237 | 8.9 | 270 | |
| 2 Sa | 0354 | 2.3 | 70 | | 17 Su | 0334 | 0.7 | 20 | | 2 M | 0344 | 1.6 | 50 | | 17 Tu | 0400 | -0.7 | -20 | | 2 Th | 0436 | 0.7 | 20 | | 17 F | 0523 | -0.3 | -10 | |
| | 1009 | 8.5 | 260 | | | 1002 | 9.5 | 290 | | | 1030 | 9.2 | 280 | | | 1044 | 9.8 | 300 | | | 1140 | 9.8 | 300 | | | 1208 | 10.2 | 310 | |
| | 1557 | 3.0 | 90 | | | 1547 | 2.6 | 80 | | | 1604 | 4.3 | 130 | | | 1627 | 3.9 | 120 | | | 1716 | 4.9 | 150 | | | 1810 | 3.9 | 120 | |
| | 2216 | 8.9 | 270 | | | 2147 | 9.8 | 300 | | | 2147 | 8.9 | 270 | | | 2159 | 9.5 | 290 | | | 2228 | 8.5 | 260 | | | 2324 | 8.5 | 260 | |
| 3 Su | 0425 | 2.0 | 60 | | 18 M | 0420 | 0.0 | 0 | | 3 Tu | 0419 | 1.3 | 40 | | 18 W | 0446 | -0.7 | -20 | | 3 F | 0517 | 0.7 | 20 | | 18 Sa | 0605 | 0.0 | 0 | |
| | 1047 | 8.9 | 270 | | | 1050 | 9.8 | 300 | | | 1109 | 9.5 | 290 | | | 1130 | 10.2 | 310 | | | 1218 | 9.8 | 300 | | | 1249 | 10.2 | 310 | |
| | 1629 | 3.0 | 90 | | | 1633 | 3.0 | 90 | | | 1641 | 4.3 | 130 | | | 1717 | 3.9 | 120 | | | 1754 | 4.6 | 140 | | | 1855 | 3.9 | 120 | |
| | 2242 | 8.9 | 270 | | | 2230 | 9.8 | 300 | | | 2218 | 8.9 | 270 | | | 2245 | 9.2 | 280 | | | 2308 | 8.5 | 260 | | | | | | |
| 4 M | 0456 | 1.6 | 50 | | 19 Tu | 0504 | -0.7 | -20 | | 4 W | 0455 | 1.0 | 30 | | 19 Th | 0531 | -0.7 | -20 | | 4 Sa | 0556 | 0.7 | 20 | | 19 Su | 0008 | 8.2 | 250 | |
| | 1123 | 9.2 | 280 | | | 1135 | 10.2 | 310 | | | 1146 | 9.5 | 290 | | | 1214 | 10.2 | 310 | | | 1254 | 9.8 | 300 | | | 0644 | 0.7 | 20 | |
| | 1659 | 3.3 | 100 | | | 1718 | 3.3 | 100 | | | 1718 | 4.3 | 130 | | | 1805 | 4.3 | 130 | | | 1834 | 4.6 | 140 | | | 1329 | 9.8 | 300 | |
| | 2306 | 8.9 | 270 | | | 2310 | 9.8 | 300 | | | 2249 | 8.9 | 270 | | | 2328 | 8.9 | 270 | | | 2348 | 8.5 | 260 | | | 1941 | 3.9 | 120 | |
| 5 Tu | 0526 | 1.3 | 40 | | 20 W | 0547 | -0.7 | -20 | | 5 Th | 0531 | 0.7 | 20 | | 20 F | 0615 | -0.3 | -10 | | 5 Su | 0635 | 1.0 | 30 | | 20 M | 0052 | 7.9 | 240 | |
| | 1156 | 9.2 | 280 | | | 1218 | 10.2 | 310 | | | 1222 | 9.5 | 290 | | | 1258 | 10.2 | 310 | | | 1330 | 9.8 | 300 | | | 0723 | 1.6 | 50 | |
| | 1732 | 3.6 | 110 | | | 1802 | 3.6 | 110 | | | 1756 | 4.6 | 140 | | | 1853 | 4.3 | 130 | | | 1916 | 4.3 | 130 | | | 1408 | 9.5 | 290 | |
| | 2329 | 9.2 | 280 | | | 2348 | 9.5 | 290 | | | 2322 | 8.9 | 270 | | | | | | | | | | | | | 2030 | 3.9 | 120 | |
| 6 W | 0557 | 1.0 | 30 | | 21 Th | 0630 | -0.3 | -10 | | 6 F | 0607 | 0.7 | 20 | | 21 Sa | 0010 | 8.5 | 260 | | 6 M | 0029 | 8.5 | 260 | | 21 Tu | 0138 | 7.2 | 220 | |
| | 1229 | 9.2 | 280 | | | 1302 | 9.8 | 300 | | | 1258 | 9.5 | 290 | | | 0657 | 0.3 | 10 | | | 0715 | 1.3 | 40 | | | 0802 | 2.6 | 80 | |
| | 1806 | 3.9 | 120 | | | 1847 | 3.9 | 120 | | | 1835 | 4.6 | 140 | | | 1345 | 9.8 | 300 | | | 1408 | 9.8 | 300 | | | 1445 | 9.2 | 280 | |
| | 2355 | 8.9 | 270 | | | | | | | | 2356 | 8.9 | 270 | | | 1946 | 4.6 | 140 | | | 2004 | 4.3 | 130 | | | 2119 | 3.9 | 120 | |
| 7 Th | 0630 | 1.0 | 30 | | 22 F | 0025 | 8.9 | 270 | | 7 Sa | 0644 | 1.0 | 30 | | 22 Su | 0053 | 7.9 | 240 | | 7 Tu | 0115 | 7.9 | 240 | | 22 W | 0234 | 6.9 | 210 | |
| | 1302 | 8.9 | 270 | | | 0713 | 0.3 | 10 | | | 1336 | 9.2 | 280 | | | 0740 | 1.3 | 40 | | | 0800 | 2.0 | 60 | | | 0842 | 3.6 | 110 | |
| | 1842 | 4.3 | 130 | | | 1350 | 9.2 | 280 | | | 1919 | 4.9 | 150 | | | 1433 | 9.5 | 290 | | | 1449 | 9.5 | 290 | | | 1521 | 8.9 | 270 | |
| | | | | | | 1938 | 4.6 | 140 | | | | | | | | 2049 | 4.6 | 140 | | | 2100 | 3.9 | 120 | | | 2209 | 3.9 | 120 | |
| 8 F | 0023 | 8.9 | 270 | | 23 Sa | 0103 | 8.2 | 250 | | 8 Su | 0032 | 8.5 | 260 | | 23 M | 0142 | 7.2 | 220 | | 8 W | 0215 | 7.5 | 230 | | 23 Th | 0344 | 6.6 | 200 | |
| | 0705 | 1.3 | 40 | | | 0801 | 1.0 | 30 | | | 0724 | 1.3 | 40 | | | 0827 | 2.3 | 70 | | | 0851 | 2.6 | 80 | | | 0925 | 4.3 | 130 | |
| | 1340 | 8.5 | 260 | | | 1447 | 8.5 | 260 | | | 1420 | 9.2 | 280 | | | 1524 | 8.9 | 270 | | | 1532 | 9.5 | 290 | | | 1556 | 8.5 | 260 | |
| | 1924 | 4.9 | 150 | | | 2045 | 4.9 | 150 | | | 2011 | 4.9 | 150 | | | 2155 | 4.6 | 140 | | | 2202 | 3.6 | 110 | | | 2301 | 3.9 | 120 | |
| 9 Sa | 0055 | 8.5 | 260 | | 24 Su | 0146 | 7.2 | 220 | | 9 M | 0114 | 7.9 | 240 | | 24 Tu | 0252 | 6.6 | 200 | | 9 Th | 0337 | 7.2 | 220 | | 24 F | 0508 | 6.6 | 200 | |
| | 0744 | 1.6 | 50 | | | 0854 | 2.0 | 60 | | | 0810 | 2.0 | 60 | | | 0918 | 3.3 | 100 | | | 0950 | 3.3 | 100 | | | 1020 | 5.2 | 160 | |
| | 1427 | 8.2 | 250 | | | 1553 | 8.2 | 250 | | | 1511 | 8.9 | 270 | | | 1613 | 8.5 | 260 | | | 1619 | 9.5 | 290 | | | 1634 | 8.2 | 250 | |
| | 2017 | 5.2 | 160 | | | 2210 | 5.2 | 160 | | | 2115 | 4.9 | 150 | | | 2300 | 4.6 | 140 | | | 2308 | 3.0 | 90 | | | 2355 | 3.6 | 110 | |
| 10 Su | 0132 | 8.2 | 250 | | 25 M | 0254 | 6.6 | 200 | | 10 Tu | 0209 | 7.5 | 230 | | 25 W | 0429 | 6.2 | 190 | | 10 F | 0517 | 7.2 | 220 | | 25 Sa | 0627 | 6.9 | 210 | |
| | 0832 | 2.0 | 60 | | | 0955 | 2.6 | 80 | | | 0908 | 2.6 | 80 | | | 1015 | 4.3 | 130 | | | 1059 | 3.9 | 120 | | | 1139 | 5.6 | 170 | |
| | 1532 | 7.9 | 240 | | | 1701 | 7.9 | 240 | | | 1606 | 8.9 | 270 | | | 1701 | 8.5 | 260 | | | 1711 | 9.5 | 290 | | | 1718 | 8.2 | 250 | |
| | 2126 | 5.6 | 170 | | | 2333 | 4.9 | 150 | | | 2226 | 4.6 | 140 | | | | | | | | | | | | | | | | |
| 11 M | 0222 | 7.5 | 230 | | 26 Tu | 0451 | 6.2 | 190 | | 11 W | 0331 | 7.2 | 220 | | 26 Th | 0001 | 4.3 | 130 | | 11 Sa | 0014 | 2.3 | 70 | | 26 Su | 0046 | 3.3 | 100 | |
| | 0934 | 2.3 | 70 | | | 1102 | 3.6 | 110 | | | 1016 | 3.3 | 100 | | | 0551 | 6.6 | 200 | | | 0644 | 7.5 | 230 | | | 0731 | 7.2 | 220 | |
| | 1646 | 7.9 | 240 | | | 1806 | 7.9 | 240 | | | 1701 | 8.9 | 270 | | | 1122 | 4.6 | 140 | | | 1216 | 4.6 | 140 | | | 1301 | 5.9 | 180 | |
| | 2246 | 5.2 | 160 | | | | | | | | 2338 | 3.9 | 120 | | | 1748 | 8.2 | 250 | | | 1806 | 9.2 | 280 | | | 1808 | 7.9 | 240 | |
| 12 Tu | 0335 | 7.2 | 220 | | 27 W | 0043 | 4.3 | 130 | | 12 Th | 0520 | 7.2 | 220 | | 27 F | 0051 | 3.6 | 110 | | 12 Su | 0114 | 1.3 | 40 | | 27 M | 0131 | 2.6 | 80 | |
| | 1050 | 2.6 | 80 | | | 0619 | 6.6 | 200 | | | 1133 | 3.6 | 110 | | | 0658 | 6.9 | 210 | | | 0752 | 8.2 | 250 | | | 0825 | 7.9 | 240 | |
| | 1752 | 8.2 | 250 | | | 1213 | 3.9 | 120 | | | 1755 | 9.2 | 280 | | | 1231 | 5.2 | 160 | | | 1327 | 4.6 | 140 | | | 1404 | 5.9 | 180 | |
| | | | | | | 1900 | 8.2 | 250 | | | | | | | | 1832 | 8.2 | 250 | | | 1901 | 9.2 | 280 | | | 1859 | 7.9 | 240 | |
| 13 W | 0007 | 4.6 | 140 | | 28 Th | 0131 | 3.9 | 120 | | 13 F | 0042 | 3.0 | 90 | | 28 Sa | 0128 | 3.3 | 100 | | 13 M | 0208 | 0.3 | 10 | | 28 Tu | 0214 | 2.0 | 60 | |
| | 0517 | 6.9 | 210 | | | 0725 | 6.9 | 210 | | | 0651 | 7.5 | 230 | | | 0753 | 7.5 | 230 | | | 0853 | 8.9 | 270 | | | 0916 | 8.5 | 260 | |
| | 1210 | 3.0 | 90 | | | 1314 | 4.3 | 130 | | | 1244 | 3.9 | 120 | | | 1330 | 5.2 | 160 | | | 1432 | 4.6 | 140 | | | 1458 | 5.6 | 170 | |
| | 1847 | 8.5 | 260 | | | 1940 | 8.2 | 250 | | | 1846 | 9.2 | 280 | | | 1911 | 8.2 | 250 | | | 1955 | 9.2 | 280 | | | 1949 | 8.2 | 250 | |
| 14 Th | 0111 | 3.6 | 110 | | | | | | | | | | | | | | | | | | | | | | | | | | |

Karachi, Pakistan, 2011

Times and Heights of High and Low Waters

| July | | | | August | | | | September | | | | | | | | | | | | | | | |
|-----------------|--------|------|------|-----------------|------|------|--------|-----------------|------|--------|-----|-----------------|--------|-----|-----|-----------------|------|-----|-----|-----------------|------|------|-----|
| Time | Height | | Time | Height | | Time | Height | | Time | Height | | Time | Height | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | |
| 1 F | 0425 | 0.7 | 20 | 16 Sa | 0512 | 0.0 | 0 | 1 M | 0528 | 0.7 | 20 | 16 Tu | 0600 | 1.6 | 50 | 1 Th | 0016 | 9.5 | 290 | 16 F | 0028 | 8.5 | 260 |
| | 1125 | 9.8 | 300 | | 1149 | 9.8 | 300 | | 1159 | 9.8 | 300 | | 1213 | 9.2 | 280 | | 0613 | 1.6 | 50 | | 0612 | 3.3 | 100 |
| | 1709 | 4.6 | 140 | | 1758 | 3.0 | 90 | | 1802 | 2.3 | 70 | | 1837 | 2.3 | 70 | | 1225 | 9.8 | 300 | | 1211 | 8.5 | 260 |
| | 2224 | 8.5 | 260 | | 2323 | 8.5 | 260 | | 2348 | 9.2 | 280 | | 1904 | 2.3 | 70 | | 1850 | 0.3 | 10 | | 1841 | 1.6 | 50 |
| 2 Sa | 0507 | 0.3 | 10 | 17 Su | 0551 | 0.3 | 10 | 2 Tu | 0605 | 0.7 | 20 | 17 W | 0021 | 8.5 | 260 | 2 F | 0058 | 9.2 | 280 | 17 Sa | 0100 | 8.2 | 250 |
| | 1200 | 9.8 | 300 | | 1225 | 9.8 | 300 | | 1231 | 10.2 | 310 | | 0625 | 2.3 | 70 | | 0653 | 2.3 | 70 | | 0642 | 3.9 | 120 |
| | 1746 | 3.9 | 120 | | 1837 | 3.0 | 90 | | 1840 | 2.0 | 60 | | 1238 | 9.2 | 280 | | 1258 | 9.5 | 290 | | 1235 | 8.5 | 260 |
| | 2309 | 8.5 | 260 | | 2323 | 8.5 | 260 | | 2348 | 9.2 | 280 | | 1904 | 2.3 | 70 | | 1934 | 0.7 | 20 | | 1911 | 2.0 | 60 |
| 3 Su | 0546 | 0.3 | 10 | 18 M | 0603 | 8.2 | 250 | 3 W | 0029 | 8.9 | 270 | 18 Th | 0055 | 8.2 | 250 | 3 Sa | 0144 | 8.5 | 260 | 18 Su | 0135 | 7.9 | 240 |
| | 1234 | 10.2 | 310 | | 0626 | 1.0 | 30 | | 0641 | 1.3 | 40 | | 0649 | 3.0 | 90 | | 0737 | 3.3 | 100 | | 0718 | 4.6 | 140 |
| | 1824 | 3.6 | 110 | | 1257 | 9.8 | 300 | | 1305 | 9.8 | 300 | | 1302 | 8.9 | 270 | | 1332 | 8.9 | 270 | | 1303 | 8.2 | 250 |
| | 2351 | 8.5 | 260 | | 1915 | 3.0 | 90 | | 1921 | 1.6 | 50 | | 1932 | 2.3 | 70 | | 2025 | 1.0 | 30 | | 1946 | 2.3 | 70 |
| 4 M | 0625 | 0.7 | 20 | 19 Tu | 0041 | 7.9 | 240 | 4 Th | 0113 | 8.5 | 260 | 19 F | 0131 | 7.9 | 240 | 4 Su | 0244 | 7.9 | 240 | 19 M | 0219 | 7.2 | 220 |
| | 1307 | 10.2 | 310 | | 0659 | 2.0 | 60 | | 0721 | 2.0 | 60 | | 0718 | 3.9 | 120 | | 0830 | 3.9 | 120 | | 0803 | 4.9 | 150 |
| | 1904 | 3.3 | 100 | | 1257 | 9.8 | 290 | | 1340 | 9.8 | 300 | | 1325 | 8.5 | 260 | | 1410 | 8.2 | 250 | | 1335 | 7.9 | 240 |
| | | | | | 1952 | 3.0 | 90 | | 2007 | 1.3 | 40 | | 2002 | 2.6 | 80 | | 2125 | 1.3 | 40 | | 2030 | 2.6 | 80 |
| 5 Tu | 0034 | 8.5 | 260 | 20 W | 0120 | 7.5 | 230 | 5 F | 0204 | 8.2 | 250 | 20 Sa | 0213 | 7.2 | 220 | 5 M | 0412 | 7.2 | 220 | 20 Tu | 0334 | 6.9 | 210 |
| | 0703 | 1.3 | 40 | | 0730 | 3.0 | 90 | | 0806 | 3.0 | 90 | | 0754 | 4.6 | 140 | | 0939 | 4.9 | 150 | | 0906 | 5.6 | 170 |
| | 1341 | 10.2 | 310 | | 1355 | 9.2 | 280 | | 1418 | 9.5 | 290 | | 1351 | 8.2 | 250 | | 1503 | 7.5 | 230 | | 1416 | 7.2 | 220 |
| | 1947 | 3.0 | 90 | | 2029 | 3.3 | 100 | | 2100 | 1.3 | 40 | | 2039 | 3.0 | 90 | | 2238 | 1.6 | 50 | | 2130 | 3.0 | 90 |
| 6 W | 0121 | 8.2 | 250 | 21 Th | 0204 | 7.2 | 220 | 6 Sa | 0310 | 7.5 | 230 | 21 Su | 0310 | 6.9 | 210 | 6 Tu | 0606 | 7.2 | 220 | 21 W | 0517 | 6.9 | 210 |
| | 0745 | 2.0 | 60 | | 0801 | 3.6 | 110 | | 0859 | 3.9 | 120 | | 0839 | 5.2 | 160 | | 1127 | 4.9 | 150 | | 1026 | 5.6 | 170 |
| | 1418 | 9.8 | 300 | | 1423 | 8.9 | 270 | | 1501 | 8.9 | 270 | | 1424 | 7.9 | 240 | | 1651 | 6.9 | 210 | | 1521 | 6.9 | 210 |
| | 2037 | 2.6 | 80 | | 2107 | 3.3 | 100 | | 2202 | 1.6 | 50 | | 2127 | 3.0 | 90 | | 2127 | 3.0 | 90 | | 2250 | 3.0 | 90 |
| 7 Th | 0217 | 7.9 | 240 | 22 F | 0257 | 6.9 | 210 | 7 Su | 0441 | 7.2 | 220 | 22 M | 0434 | 6.6 | 200 | 7 W | 0002 | 2.0 | 60 | 22 Th | 0644 | 7.2 | 220 |
| | 0832 | 2.6 | 80 | | 0837 | 4.6 | 140 | | 1005 | 4.6 | 140 | | 0940 | 5.6 | 170 | | 0724 | 7.5 | 230 | | 1217 | 5.2 | 160 |
| | 1458 | 9.5 | 290 | | 1453 | 8.2 | 250 | | 1557 | 8.2 | 250 | | 1509 | 7.2 | 220 | | 1308 | 4.6 | 140 | | 1706 | 6.6 | 200 |
| | 2133 | 2.3 | 70 | | 2150 | 3.3 | 100 | | 2315 | 1.3 | 40 | | 2230 | 3.0 | 90 | | 1833 | 6.9 | 210 | | 1706 | 6.6 | 200 |
| 8 F | 0330 | 7.5 | 230 | 23 Sa | 0405 | 6.6 | 200 | 8 M | 0626 | 7.2 | 220 | 23 Tu | 0649 | 6.9 | 210 | 8 Th | 0118 | 1.6 | 50 | 23 F | 0030 | 3.0 | 90 |
| | 0926 | 3.6 | 110 | | 0922 | 5.2 | 160 | | 1140 | 4.9 | 150 | | 1108 | 5.9 | 180 | | 0816 | 7.9 | 240 | | 0728 | 7.9 | 240 |
| | 1542 | 9.5 | 290 | | 1526 | 7.9 | 240 | | 1711 | 7.9 | 240 | | 1614 | 6.9 | 210 | | 1415 | 3.9 | 120 | | 1330 | 4.6 | 140 |
| | 2237 | 2.0 | 60 | | 2243 | 3.3 | 100 | | | | | | | | | | 1947 | 7.2 | 220 | | 1855 | 6.9 | 210 |
| 9 Sa | 0504 | 7.2 | 220 | 24 Su | 0541 | 6.9 | 210 | 9 Tu | 0032 | 1.3 | 40 | 24 W | 0002 | 3.0 | 90 | 9 F | 0218 | 1.6 | 50 | 24 Sa | 0141 | 2.6 | 80 |
| | 1031 | 4.3 | 130 | | 1024 | 5.6 | 170 | | 0740 | 7.9 | 240 | | 0748 | 7.2 | 220 | | 0857 | 8.5 | 260 | | 0804 | 8.2 | 250 |
| | 1634 | 9.2 | 280 | | 1611 | 7.9 | 240 | | 1316 | 4.9 | 150 | | 1329 | 5.6 | 170 | | 1504 | 3.3 | 100 | | 1415 | 3.6 | 110 |
| | 2346 | 1.6 | 50 | | 2351 | 3.3 | 100 | | 1833 | 7.5 | 230 | | 1747 | 6.9 | 210 | | 2044 | 7.5 | 230 | | 2004 | 7.5 | 230 |
| 10 Su | 0636 | 7.5 | 230 | 25 M | 0713 | 7.2 | 220 | 10 W | 0141 | 1.0 | 30 | 25 Th | 0123 | 2.3 | 70 | 10 Sa | 0307 | 1.3 | 40 | 25 Su | 0230 | 2.0 | 60 |
| | 1154 | 4.9 | 150 | | 1232 | 5.9 | 180 | | 0836 | 8.2 | 250 | | 0826 | 7.9 | 240 | | 0934 | 8.5 | 260 | | 0842 | 8.9 | 270 |
| | 1735 | 8.9 | 270 | | 1712 | 7.5 | 230 | | 1428 | 4.3 | 130 | | 1419 | 4.9 | 150 | | 1545 | 2.6 | 80 | | 1456 | 2.6 | 80 |
| | | | | | | | | | 1946 | 7.5 | 230 | | 1912 | 7.2 | 220 | | 2133 | 8.2 | 250 | | 2101 | 8.2 | 250 |
| 11 M | 0054 | 1.0 | 30 | 26 Tu | 0057 | 2.6 | 80 | 11 Th | 0239 | 0.7 | 20 | 26 F | 0219 | 2.0 | 60 | 11 Su | 0350 | 1.3 | 40 | 26 M | 0313 | 2.0 | 60 |
| | 0748 | 8.2 | 250 | | 0810 | 7.5 | 230 | | 0924 | 8.9 | 270 | | 0859 | 8.5 | 260 | | 1007 | 8.9 | 270 | | 0920 | 9.2 | 280 |
| | 1319 | 4.9 | 150 | | 1352 | 5.9 | 180 | | 1612 | 3.0 | 90 | | 1458 | 4.3 | 130 | | 1622 | 2.3 | 70 | | 1537 | 1.6 | 50 |
| | 1840 | 8.5 | 260 | | 1823 | 7.5 | 230 | | 2050 | 7.9 | 240 | | 2018 | 7.5 | 230 | | 2215 | 8.5 | 260 | | 2152 | 8.9 | 270 |
| 12 Tu | 0155 | 0.3 | 10 | 27 W | 0153 | 2.0 | 60 | 12 F | 0329 | 0.3 | 10 | 27 Sa | 0304 | 1.3 | 40 | 12 M | 0427 | 1.6 | 50 | 27 Tu | 0353 | 1.6 | 50 |
| | 0848 | 8.5 | 260 | | 0857 | 8.2 | 250 | | 1006 | 9.2 | 280 | | 0933 | 8.9 | 270 | | 1036 | 8.9 | 270 | | 0958 | 9.8 | 300 |
| | 1431 | 4.9 | 150 | | 1446 | 5.2 | 160 | | 1612 | 3.0 | 90 | | 1537 | 3.3 | 100 | | 1655 | 2.0 | 60 | | 1619 | 0.7 | 20 |
| | 1944 | 8.5 | 260 | | 1928 | 7.5 | 230 | | 2144 | 8.2 | 250 | | 2117 | 8.2 | 250 | | 2253 | 8.9 | 270 | | 2238 | 9.5 | 290 |
| 13 W | 0250 | 0.0 | 0 | 28 Th | 0242 | 1.6 | 50 | 13 Sa | 0414 | 0.3 | 10 | 28 Su | 0346 | 1.0 | 30 | 13 Tu | 0459 | 2.0 | 60 | 28 W | 0432 | 1.6 | 50 |
| | 0942 | 9.2 | 280 | | 0939 | 8.5 | 260 | | 1044 | 9.2 | 280 | | 1008 | 9.2 | 280 | | 1102 | 8.9 | 270 | | 1036 | 9.8 | 300 |
| | 1535 | 4.3 | 130 | | 1530 | 4.9 | 150 | | 1654 | 2.6 | 80 | | 1615 | 2.6 | 80 | | 1725 | 1.6 | 50 | | 1700 | 0.0 | 0 |
| | 2047 | 8.5 | 260 | | 2029 | 7.9 | 240 | | 2231 | 8.5 | 260 | | 2208 | 8.9 | 270 | | 2326 | 8.9 | 270 | | 2321 | 9.8 | 300 |
| 14 Th | 0342 | -0.3 | -10 | 29 F | 0328 | 1.0 | 30 | 14 Su | 0454 | 0.7 | 20 | 29 M | 0425 | 1.0 | 30 | 14 W | 0525 | 2.6 | 80 | 29 Th | 0511 | 2.0 | 60 |
| | 1029 | 9.5 | 290 | | 1018 | 9.2 | 280 | | 1117 | 9.5 | 290 | | 1043 | 9.5 | 290 | | 1126 | 8.9 | 270 | | 1113 | 9.8 | 300 |
| | 1629 | 3.9 | 120 | | 1610 | 4.3 | 130 | | 1731 | 2.3 | 70 | | 1654 | 1.6 | 50 | | 1751 | 1.6 | 50 | | 1741 | -0.3 | -10 |
| | 2146 | 8.5 | 260 | | 2128 | 8.2 | 250 | | 2312 | 8.5 | 260 | | 2253 | 9.2 | 280 | | 2358 | 8.9 | 270 | | | | |
| 15 F | 0429 | -0.3 | -10 | 30 Sa | 0411 | 0.7 | 20 | 15 M | 0529 | 1.0 | 30 | 30 Tu | 0501 | 1.0 | 30 | 15 Th | 0547 | 3.0 | 90 | 30 F | 0001 | 9.8 | 300 |
| | 1111 | 9.8 | 300 | | 1053 | 9.5 | 290 | | 1147 | 9.5 | 290 | | 1117 | 9.8 | 300 | | 1148 | 8.9 | 270 | | 0549 | 2.3 | 70 |
| | 1716 | 3.3 | 100 | | 1648 | 3.6 | 110 | | 1805 | 2.0 | 60 | | 1732 | 1.0 | 30 | | 1816 | 1.6 | 50 | | 1148 | 9.8 | 300 |
| | 2238 | 8.5 | 260 | | 2220 | 8.5 | 260 | | 2347 | 8.5 | 260 | | 2335 | 9.5 | 290 | | | | | | 1822 | -0.3 | -10 |
| | | | | | | | | | | | | | | | | | | | | | | | |

Karachi, Pakistan, 2011

Times and Heights of High and Low Waters

| October | | | | November | | | | December | | | | | | | | | | | | | | | | | | | | | |
|-----------------|--------|-----|------|----------|-----------------|------|--------|----------|------|-----------------|------|------|--------|----|-----------------|------|------|-----|--|-----------------|------|-----|-----|--|-----------------|------|------|-----|--|
| Time | Height | | Time | Height | | Time | Height | | Time | Height | | Time | Height | | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | | | | | | |
| 1 Sa | 0042 | 9.2 | 280 | | 16 Su | 0041 | 8.9 | 270 | | 1 Tu | 0207 | 8.5 | 260 | | 16 W | 0146 | 8.9 | 270 | | 1 Th | 0241 | 8.9 | 270 | | 16 F | 0213 | 9.5 | 290 | |
| | 0629 | 3.0 | 90 | | | 0620 | 4.3 | 130 | | | 0800 | 4.3 | 130 | | | 0737 | 4.3 | 130 | | | 0900 | 3.9 | 120 | | | 0820 | 3.3 | 100 | |
| | 1222 | 9.5 | 290 | | | 1201 | 8.5 | 260 | | | 1314 | 7.5 | 230 | | | 1253 | 8.2 | 250 | | | 1407 | 6.9 | 210 | | | 1341 | 7.9 | 240 | |
| | 1905 | 0.0 | 0 | | | 1837 | 1.3 | 40 | | | 2021 | 1.6 | 50 | | | 1938 | 2.0 | 60 | | | 2047 | 2.6 | 80 | | | 2014 | 2.3 | 70 | |
| 2 Su | 0126 | 8.9 | 270 | | 17 M | 0113 | 8.5 | 260 | | 2 W | 0310 | 8.2 | 250 | | 17 Th | 0228 | 8.5 | 260 | | 2 F | 0330 | 8.5 | 260 | | 17 Sa | 0252 | 9.2 | 280 | |
| | 0713 | 3.6 | 110 | | | 0658 | 4.6 | 140 | | | 0909 | 4.6 | 140 | | | 0831 | 4.6 | 140 | | | 1000 | 3.9 | 120 | | | 0913 | 3.0 | 90 | |
| | 1254 | 8.9 | 270 | | | 1231 | 8.5 | 260 | | | 1401 | 6.9 | 210 | | | 1336 | 7.5 | 230 | | | 1524 | 6.2 | 190 | | | 1438 | 7.2 | 220 | |
| | 1953 | 0.7 | 20 | | | 1912 | 1.6 | 50 | | | 2121 | 2.3 | 70 | | | 2027 | 2.6 | 80 | | | 2140 | 3.6 | 110 | | | 2105 | 3.0 | 90 | |
| 3 M | 0221 | 7.9 | 240 | | 18 Tu | 0151 | 7.9 | 240 | | 3 Th | 0423 | 7.5 | 230 | | 18 F | 0320 | 8.2 | 250 | | 3 Sa | 0421 | 7.9 | 240 | | 18 Su | 0335 | 9.2 | 280 | |
| | 0806 | 4.3 | 130 | | | 0743 | 4.9 | 150 | | | 1036 | 4.6 | 140 | | | 0933 | 4.3 | 130 | | | 1104 | 3.9 | 120 | | | 1014 | 2.6 | 80 | |
| | 1329 | 7.9 | 240 | | | 1304 | 7.9 | 240 | | | 1558 | 5.9 | 180 | | | 1436 | 7.2 | 220 | | | 1724 | 6.2 | 190 | | | 1600 | 6.9 | 210 | |
| | 2050 | 1.3 | 40 | | | 1953 | 2.3 | 70 | | | 2230 | 3.3 | 100 | | | 2129 | 3.3 | 100 | | | 2243 | 4.6 | 140 | | | 2206 | 3.9 | 120 | |
| 4 Tu | 0340 | 7.5 | 230 | | 19 W | 0246 | 7.5 | 230 | | 4 F | 0536 | 7.5 | 230 | | 19 Sa | 0420 | 8.2 | 250 | | 4 Su | 0517 | 7.5 | 230 | | 19 M | 0426 | 8.9 | 270 | |
| | 0919 | 4.9 | 150 | | | 0843 | 5.2 | 160 | | | 1204 | 4.3 | 130 | | | 1043 | 3.9 | 120 | | | 1208 | 3.6 | 110 | | | 1120 | 2.3 | 70 | |
| | 1414 | 6.9 | 210 | | | 1344 | 7.5 | 230 | | | 1807 | 6.2 | 190 | | | 1609 | 6.6 | 200 | | | 1854 | 6.6 | 200 | | | 1759 | 6.9 | 210 | |
| | 2159 | 2.0 | 60 | | | 2047 | 2.6 | 80 | | | 2349 | 3.9 | 120 | | | 2242 | 3.6 | 110 | | | | | | | | 2320 | 4.6 | 140 | |
| 5 W | 0520 | 7.2 | 220 | | 20 Th | 0409 | 7.5 | 230 | | 5 Sa | 0639 | 7.5 | 230 | | 20 Su | 0521 | 8.2 | 250 | | 5 M | 0001 | 4.9 | 150 | | 20 Tu | 0526 | 8.9 | 270 | |
| | 1107 | 4.9 | 150 | | | 0956 | 5.2 | 160 | | | 1312 | 3.9 | 120 | | | 1153 | 3.3 | 100 | | | 0612 | 7.5 | 230 | | | 1226 | 1.6 | 50 | |
| | 1631 | 6.2 | 190 | | | 1445 | 6.9 | 210 | | | 1920 | 6.6 | 200 | | | 1819 | 6.9 | 210 | | | 1301 | 3.3 | 100 | | | 1932 | 7.5 | 230 | |
| | 2320 | 2.6 | 80 | | | 2201 | 3.3 | 100 | | | | | | | | | | | | | 1954 | 6.9 | 210 | | | | | | |
| 6 Th | 0646 | 7.5 | 230 | | 21 F | 0525 | 7.5 | 230 | | 6 Su | 0102 | 4.3 | 130 | | 21 M | 0002 | 3.9 | 120 | | 6 Tu | 0114 | 5.2 | 160 | | 21 W | 0042 | 4.6 | 140 | |
| | 1247 | 4.6 | 140 | | | 1118 | 4.9 | 150 | | | 0725 | 7.9 | 240 | | | 0618 | 8.5 | 260 | | | 0702 | 7.5 | 230 | | | 0629 | 8.5 | 260 | |
| | 1828 | 6.2 | 190 | | | 1628 | 6.6 | 200 | | | 1356 | 3.3 | 100 | | | 1256 | 2.3 | 70 | | | 1341 | 2.6 | 80 | | | 1328 | 0.7 | 20 | |
| | | | | | | 2329 | 3.3 | 100 | | | 2012 | 7.2 | 220 | | | 1938 | 7.5 | 230 | | | 2042 | 7.5 | 230 | | | 2036 | 8.2 | 250 | |
| 7 F | 0041 | 3.0 | 90 | | 22 Sa | 0624 | 7.9 | 240 | | 7 M | 0159 | 4.3 | 130 | | 22 Tu | 0113 | 3.9 | 120 | | 7 W | 0214 | 5.2 | 160 | | 22 Th | 0158 | 4.6 | 140 | |
| | 0740 | 7.9 | 240 | | | 1234 | 3.9 | 120 | | | 0802 | 7.9 | 240 | | | 0711 | 8.9 | 270 | | | 0744 | 7.5 | 230 | | | 0730 | 8.5 | 260 | |
| | 1353 | 3.9 | 120 | | | 1838 | 6.9 | 210 | | | 1428 | 2.6 | 80 | | | 1350 | 1.3 | 40 | | | 1418 | 2.3 | 70 | | | 1424 | 0.0 | 0 | |
| | 1938 | 6.9 | 210 | | | | | | | | 2057 | 7.9 | 240 | | | 2038 | 8.2 | 250 | | | 2126 | 8.2 | 250 | | | 2131 | 8.9 | 270 | |
| 8 Sa | 0147 | 3.0 | 90 | | 23 Su | 0050 | 3.3 | 100 | | 8 Tu | 0246 | 4.3 | 130 | | 23 W | 0213 | 3.9 | 120 | | 8 Th | 0305 | 4.9 | 150 | | 23 F | 0307 | 4.6 | 140 | |
| | 0820 | 8.2 | 250 | | | 0711 | 8.5 | 260 | | | 0835 | 8.2 | 250 | | | 0800 | 9.2 | 280 | | | 0824 | 7.9 | 240 | | | 0828 | 8.5 | 260 | |
| | 1435 | 3.3 | 100 | | | 1331 | 3.0 | 90 | | | 1458 | 2.3 | 70 | | | 1440 | 0.3 | 10 | | | 1455 | 1.6 | 50 | | | 1517 | -0.7 | -20 | |
| | 2030 | 7.5 | 230 | | | 1950 | 7.5 | 230 | | | 2138 | 8.2 | 250 | | | 2132 | 8.9 | 270 | | | 2209 | 8.5 | 260 | | | 2220 | 9.5 | 290 | |
| 9 Su | 0237 | 2.6 | 80 | | 24 M | 0150 | 3.0 | 90 | | 9 W | 0327 | 4.3 | 130 | | 24 Th | 0310 | 3.9 | 120 | | 9 F | 0351 | 4.9 | 150 | | 24 Sa | 0409 | 3.9 | 120 | |
| | 0852 | 8.2 | 250 | | | 0755 | 8.9 | 270 | | | 0906 | 8.2 | 250 | | | 0849 | 9.2 | 280 | | | 0904 | 7.9 | 240 | | | 0926 | 8.9 | 270 | |
| | 1511 | 2.6 | 80 | | | 1418 | 2.0 | 60 | | | 1528 | 1.6 | 50 | | | 1530 | -0.3 | -10 | | | 1535 | 1.3 | 40 | | | 1609 | -0.7 | -20 | |
| | 2115 | 7.9 | 240 | | | 2047 | 8.5 | 260 | | | 2218 | 8.9 | 270 | | | 2221 | 9.5 | 290 | | | 2249 | 9.2 | 280 | | | 2304 | 9.8 | 300 | |
| 10 M | 0320 | 3.0 | 90 | | 25 Tu | 0239 | 3.0 | 90 | | 10 Th | 0403 | 4.3 | 130 | | 25 F | 0405 | 3.6 | 110 | | 10 Sa | 0431 | 4.6 | 140 | | 25 Su | 0501 | 3.6 | 110 | |
| | 0922 | 8.5 | 260 | | | 0837 | 9.2 | 280 | | | 0936 | 8.5 | 260 | | | 0938 | 9.5 | 290 | | | 0944 | 8.2 | 250 | | | 1020 | 8.9 | 270 | |
| | 1542 | 2.0 | 60 | | | 1504 | 1.0 | 30 | | | 1601 | 1.3 | 40 | | | 1619 | -0.7 | -20 | | | 1616 | 0.7 | 20 | | | 1657 | -0.7 | -20 | |
| | 2156 | 8.5 | 260 | | | 2139 | 9.2 | 280 | | | 2255 | 9.2 | 280 | | | 2307 | 9.8 | 300 | | | 2326 | 9.5 | 290 | | | 2344 | 10.2 | 310 | |
| 11 Tu | 0357 | 3.0 | 90 | | 26 W | 0325 | 3.0 | 90 | | 11 F | 0435 | 4.3 | 130 | | 26 Sa | 0455 | 3.6 | 110 | | 11 Su | 0506 | 4.3 | 130 | | | | | | |
| | 0950 | 8.5 | 260 | | | 0920 | 9.5 | 290 | | | 1006 | 8.5 | 260 | | | 1025 | 9.2 | 280 | | | 1024 | 8.5 | 260 | | 1108 | 8.5 | 260 | | |
| | 1612 | 1.6 | 50 | | | 1550 | 0.0 | 0 | | | 1636 | 1.0 | 30 | | | 1706 | -1.0 | -30 | | | 1657 | 0.7 | 20 | | 1740 | -0.7 | -20 | | |
| | 2233 | 8.9 | 270 | | | 2226 | 9.5 | 290 | | | 2331 | 9.2 | 280 | | | 2349 | 10.2 | 310 | | | | | | | | | | | |
| 12 W | 0427 | 3.0 | 90 | | 27 Th | 0411 | 3.0 | 90 | | 12 Sa | 0506 | 3.9 | 120 | | 27 Su | 0542 | 3.6 | 110 | | 12 M | 0001 | 9.8 | 300 | | 27 Tu | 0022 | 10.2 | 310 | |
| | 1016 | 8.5 | 260 | | | 1002 | 9.8 | 300 | | | 1037 | 8.5 | 260 | | | 1110 | 9.2 | 280 | | | 0539 | 3.9 | 120 | | | 0630 | 3.0 | 90 | |
| | 1639 | 1.3 | 40 | | | 1635 | -0.3 | -10 | | | 1711 | 1.0 | 30 | | | 1750 | -0.7 | -20 | | | 1102 | 8.5 | 260 | | | 1152 | 8.5 | 260 | |
| | 2307 | 8.9 | 270 | | | 2310 | 9.8 | 300 | | | | | | | | | | | | | 1735 | 0.7 | 20 | | | 1820 | 0.0 | 0 | |
| 13 Th | 0452 | 3.3 | 100 | | 28 F | 0455 | 3.0 | 90 | | 13 Su | 0005 | 9.2 | 280 | | 28 M | 0030 | 10.2 | 310 | | 13 Tu | 0035 | 9.8 | 300 | | 28 W | 0100 | 10.2 | 310 | |
| | 1041 | 8.9 | 270 | | | 1043 | 9.8 | 300 | | | 0538 | 4.3 | 130 | | | 0626 | 3.6 | 110 | | | 0614 | 3.9 | 120 | | | 0712 | 2.6 | 80 | |
| | 1707 | 1.3 | 40 | | | 1719 | -0.7 | -20 | | | 1110 | 8.9 | 270 | | | 1152 | 8.9 | 270 | | | 1139 | 8.5 | 260 | | | 1234 | 8.2 | 250 | |
| | 2340 | 9.2 | 280 | | | 2352 | 9.8 | 300 | | | 1745 | 0.7 | 20 | | | 1832 | 0.0 | 0 | | | 1812 | 0.7 | 20 | | | 1859 | 1.0 | 30 | |
| 14 F | 0518 | 3.6 | 110 | | 29 Sa | 0537 | 3.3 | 100 | | < | | | | | | | | | | | | | | | | | | | |

Shatt Al Arab (Outer Bar), Iraq, 2011

Times and Heights of High and Low Waters

| January | | | | February | | | | March | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|--------|------|------|----------|-----------------|------|--------|-------|------|-----------------|------|------|--------|----|-----------------|------|------|-----|--|-----------------|------|------|-----|--|-----------------|------|------|-----|--|-----------------|------|------|-----|--|-----------------|------|------|-----|--|
| Time | Height | | Time | Height | | Time | Height | | Time | Height | | Time | Height | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 Sa | 0224 | 1.0 | 30 | | 16 Su | 0220 | 2.3 | 70 | | 1 Tu | 0415 | 0.0 | 0 | | 16 W | 0341 | 0.7 | 20 | | 1 Tu | 0254 | 1.0 | 30 | | 16 W | 0158 | 1.3 | 40 | | | | | | | | | | | |
| | 0853 | 6.6 | 200 | | | 0911 | 5.9 | 180 | | | 1029 | 7.5 | 230 | | | 1012 | 7.5 | 230 | | | 0925 | 7.2 | 220 | | | 0856 | 7.2 | 220 | | | | | | | | | | | |
| | 1309 | 4.6 | 140 | | | 1224 | 5.2 | 160 | | | 1528 | 5.2 | 160 | | | 1440 | 5.2 | 160 | | | 1411 | 5.2 | 160 | | | 1320 | 4.9 | 150 | | 1320 | 4.9 | 150 | | | | | | | |
| | 1946 | 9.5 | 290 | | | 1900 | 9.2 | 280 | | | 2126 | 9.5 | 290 | | | 2053 | 9.5 | 290 | | | 2025 | 8.5 | 260 | | | 1930 | 8.5 | 260 | | 1930 | 8.5 | 260 | | | | | | | |
| 2 Su | 0334 | 0.3 | 10 | | 17 M | 0325 | 1.6 | 50 | | 2 W | 0500 | -0.3 | -10 | | 17 Th | 0426 | 0.0 | 0 | | 2 W | 0347 | 0.7 | 20 | | 17 Th | 0257 | 1.0 | 30 | | 17 Th | 0931 | 7.9 | 240 | | | | | | |
| | 0954 | 6.9 | 210 | | | 1001 | 6.6 | 200 | | | 1105 | 8.2 | 250 | | | 1044 | 8.2 | 250 | | | 1001 | 7.9 | 240 | | | 0931 | 7.9 | 240 | | | 0931 | 7.9 | 240 | | | | | | |
| | 1416 | 4.9 | 150 | | | 1331 | 5.6 | 170 | | | 1633 | 4.6 | 140 | | | 1550 | 4.6 | 140 | | | 1531 | 4.6 | 140 | | | 1439 | 4.3 | 130 | | | 1439 | 4.3 | 130 | | | | | | |
| | 2043 | 9.8 | 300 | | | 2005 | 9.5 | 290 | | | 2214 | 9.8 | 300 | | | 2149 | 9.8 | 300 | | | 2121 | 8.9 | 270 | | | 2046 | 9.2 | 280 | | | 2046 | 9.2 | 280 | | | | | | |
| 3 M | 0430 | -0.3 | -10 | | 18 Tu | 0414 | 0.7 | 20 | | 3 Th | 0539 | -0.3 | -10 | | 18 F | 0507 | -0.3 | -10 | | 3 Th | 0429 | 0.3 | 10 | | 18 F | 0346 | 0.7 | 20 | | 18 F | 1003 | 8.5 | 260 | | 18 F | 1544 | 3.3 | 100 | |
| | 1043 | 7.5 | 230 | | | 1041 | 7.2 | 220 | | | 1139 | 8.5 | 260 | | | 1116 | 8.9 | 270 | | | 1033 | 8.5 | 260 | | | 1003 | 8.9 | 270 | | | 1003 | 8.9 | 270 | | | | | | |
| | 1526 | 5.2 | 160 | | | 1439 | 5.6 | 170 | | | 1725 | 4.3 | 130 | | | 1650 | 3.6 | 110 | | | 1626 | 3.9 | 120 | | | 1544 | 3.3 | 100 | | | 1544 | 3.3 | 100 | | | 1544 | 3.3 | 100 | |
| | 2133 | 10.2 | 310 | | | 2102 | 9.8 | 300 | | | 2256 | 9.8 | 300 | | | 2240 | 10.2 | 310 | | | 2206 | 9.2 | 280 | | | 2144 | 9.5 | 290 | | | 2144 | 9.5 | 290 | | | | | | |
| 4 Tu | 0518 | -0.7 | -20 | | 19 W | 0457 | 0.0 | 0 | | 4 F | 0613 | -0.3 | -10 | | 19 Sa | 0545 | -0.3 | -10 | | 4 F | 0505 | 0.7 | 20 | | 19 Sa | 0429 | 0.7 | 20 | | 19 Sa | 1035 | 9.5 | 290 | | 19 Sa | 1641 | 2.3 | 70 | |
| | 1126 | 7.9 | 240 | | | 1117 | 7.9 | 240 | | | 1210 | 8.9 | 270 | | | 1147 | 9.2 | 280 | | | 1102 | 8.9 | 270 | | | 1035 | 9.5 | 290 | | | 1035 | 9.5 | 290 | | | | | | |
| | 1632 | 5.2 | 160 | | | 1547 | 5.2 | 160 | | | 1808 | 3.9 | 120 | | | 1744 | 3.0 | 90 | | | 1710 | 3.6 | 110 | | | 1641 | 2.3 | 70 | | | 1641 | 2.3 | 70 | | | | | | |
| | 2220 | 10.2 | 310 | | | 2153 | 10.2 | 310 | | | 2336 | 9.5 | 290 | | | 2327 | 10.2 | 310 | | | 2247 | 9.2 | 280 | | | 2235 | 9.8 | 300 | | | 2235 | 9.8 | 300 | | | | | | |
| 5 W | 0602 | -1.0 | -30 | | 20 Th | 0536 | -0.3 | -10 | | 5 Sa | 0644 | 0.0 | 0 | | 20 Su | 0622 | 0.0 | 0 | | 5 Sa | 0536 | 0.7 | 20 | | 20 Su | 0509 | 1.0 | 30 | | 20 Su | 1108 | 9.8 | 300 | | 20 Su | 1732 | 1.6 | 50 | |
| | 1205 | 8.2 | 250 | | | 1150 | 8.2 | 250 | | | 1238 | 9.2 | 280 | | | 1218 | 9.8 | 300 | | | 1130 | 9.2 | 280 | | | 1108 | 9.8 | 300 | | | 1108 | 9.8 | 300 | | | | | | |
| | 1731 | 4.9 | 150 | | | 1652 | 4.9 | 150 | | | 1847 | 3.6 | 110 | | | 1834 | 2.0 | 60 | | | 1749 | 3.3 | 100 | | | 1732 | 1.6 | 50 | | | 1732 | 1.6 | 50 | | | | | | |
| | 2303 | 10.2 | 310 | | | 2242 | 10.5 | 320 | | | | | | | | | | | | | 2324 | 9.2 | 280 | | | 2323 | 9.8 | 300 | | | 2323 | 9.8 | 300 | | | | | | |
| 6 Th | 0640 | -0.7 | -20 | | 21 F | 0614 | -0.7 | -20 | | 6 Su | 0013 | 9.5 | 290 | | 21 M | 0014 | 9.8 | 300 | | 6 Su | 0604 | 1.3 | 40 | | 21 M | 0548 | 1.3 | 40 | | 21 M | 1140 | 10.2 | 310 | | 21 M | 1822 | 1.0 | 30 | |
| | 1241 | 8.5 | 260 | | | 1222 | 8.9 | 270 | | | 0709 | 0.7 | 20 | | | 0656 | 0.7 | 20 | | | 1156 | 9.5 | 290 | | | 1140 | 10.2 | 310 | | | 1140 | 10.2 | 310 | | | | | | |
| | 1821 | 4.6 | 140 | | | 1750 | 4.3 | 130 | | | 1305 | 9.2 | 280 | | | 1249 | 10.2 | 310 | | | 1823 | 3.0 | 90 | | | 1822 | 1.0 | 30 | | | 1822 | 1.0 | 30 | | | | | | |
| | 2345 | 9.8 | 300 | | | 2329 | 10.5 | 320 | | | 1921 | 3.3 | 100 | | | 1922 | 1.6 | 50 | | | 2359 | 8.9 | 270 | | | 2359 | 8.9 | 270 | | | 2359 | 8.9 | 270 | | | | | | |
| 7 F | 0715 | -0.3 | -10 | | 22 Sa | 0650 | -0.7 | -20 | | 7 M | 0048 | 8.9 | 270 | | 22 Tu | 0100 | 9.5 | 290 | | 7 M | 0627 | 1.6 | 50 | | 22 Tu | 0010 | 9.5 | 290 | | 22 Tu | 0624 | 2.0 | 60 | | 22 Tu | 1213 | 10.5 | 320 | |
| | 1315 | 8.9 | 270 | | | 1254 | 9.2 | 280 | | | 0732 | 1.0 | 30 | | | 0729 | 1.0 | 30 | | | 1220 | 9.5 | 290 | | | 0624 | 2.0 | 60 | | | 0624 | 2.0 | 60 | | | | | | |
| | 1906 | 4.6 | 140 | | | 1844 | 3.6 | 110 | | | 1329 | 9.5 | 290 | | | 1321 | 10.2 | 310 | | | 1855 | 2.6 | 80 | | | 1213 | 10.5 | 320 | | | 1213 | 10.5 | 320 | | | | | | |
| | | | | | | | | | | | 1954 | 3.3 | 100 | | | 2010 | 1.3 | 40 | | | | | | | | 1910 | 0.3 | 10 | | | 1910 | 0.3 | 10 | | | | | | |
| 8 Sa | 0024 | 9.5 | 290 | | 23 Su | 0016 | 10.2 | 310 | | 8 Tu | 0121 | 8.5 | 260 | | 23 W | 0146 | 8.5 | 260 | | 8 Tu | 0033 | 8.5 | 260 | | 23 W | 0056 | 8.9 | 270 | | 23 W | 0659 | 2.3 | 70 | | 23 W | 1246 | 10.5 | 320 | |
| | 0745 | 0.0 | 0 | | | 0725 | -0.3 | -10 | | | 0752 | 1.6 | 50 | | | 0801 | 2.0 | 60 | | | 0647 | 2.0 | 60 | | | 0659 | 2.3 | 70 | | | 0659 | 2.3 | 70 | | | | | | |
| | 1346 | 8.9 | 270 | | | 1326 | 9.5 | 290 | | | 1352 | 9.5 | 290 | | | 1353 | 10.2 | 310 | | | 1242 | 9.8 | 300 | | | 1246 | 10.5 | 320 | | | 1246 | 10.5 | 320 | | | | | | |
| | 1945 | 4.3 | 130 | | | 1933 | 3.0 | 90 | | | 2026 | 3.0 | 90 | | | 2059 | 1.0 | 30 | | | 1924 | 2.3 | 70 | | | 1957 | 0.3 | 10 | | | 1957 | 0.3 | 10 | | | | | | |
| 9 Su | 0102 | 9.2 | 280 | | 24 M | 0103 | 9.8 | 300 | | 9 W | 0153 | 7.9 | 240 | | 24 Th | 0235 | 7.5 | 230 | | 9 W | 0106 | 8.2 | 250 | | 24 Th | 0143 | 8.2 | 250 | | 24 Th | 0732 | 3.0 | 90 | | 24 Th | 1320 | 10.5 | 320 | |
| | 0812 | 0.3 | 10 | | | 0758 | 0.3 | 10 | | | 0811 | 2.0 | 60 | | | 0832 | 2.6 | 80 | | | 0705 | 2.6 | 80 | | | 0732 | 3.0 | 90 | | | 0732 | 3.0 | 90 | | | | | | |
| | 1415 | 9.2 | 280 | | | 1358 | 9.8 | 300 | | | 1415 | 9.5 | 290 | | | 1427 | 10.2 | 310 | | | 1304 | 9.8 | 300 | | | 1320 | 10.5 | 320 | | | 1320 | 10.5 | 320 | | | | | | |
| | 2023 | 3.9 | 120 | | | 2023 | 2.3 | 70 | | | 2103 | 3.0 | 90 | | | 2155 | 1.3 | 40 | | | 1954 | 2.3 | 70 | | | 2046 | 0.3 | 10 | | | 2046 | 0.3 | 10 | | | | | | |
| 10 M | 0137 | 8.5 | 260 | | 25 Tu | 0150 | 9.2 | 280 | | 10 Th | 0228 | 7.2 | 220 | | 25 F | 0333 | 6.6 | 200 | | 10 Th | 0139 | 7.9 | 240 | | 25 F | 0233 | 7.5 | 230 | | 25 F | 0807 | 3.6 | 110 | | 25 F | 1355 | 10.2 | 310 | |
| | 0836 | 1.0 | 30 | | | 0831 | 1.0 | 30 | | | 0833 | 2.6 | 80 | | | 0907 | 3.6 | 110 | | | 0725 | 3.0 | 90 | | | 0807 | 3.6 | 110 | | | 0807 | 3.6 | 110 | | | | | | |
| | 1442 | 9.2 | 280 | | | 1431 | 9.8 | 300 | | | 1440 | 9.5 | 290 | | | 1505 | 9.5 | 290 | | | 1327 | 10.2 | 310 | | | 1355 | 10.2 | 310 | | | 1355 | 10.2 | 310 | | | | | | |
| | 2102 | 3.9 | 120 | | | 2116 | 2.0 | 60 | | | 2148 | 3.0 | 90 | | | 2301 | 1.3 | 40 | | | 2029 | 2.0 | 60 | | | 2139 | 0.7 | 20 | | | 2139 | 0.7 | 20 | | | | | | |
| 11 Tu | 0213 | 7.9 | 240 | | 26 W | 0240 | 7.9 | 240 | | 11 F | 0311 | 6.2 | 190 | | 26 Sa | 0502 | 5.9 | 180 | | 11 F | 0215 | 7.2 | 220 | | 26 Sa | 0331 | 6.9 | 210 | | 26 Sa | 0846 | 4.3 | 130 | | 26 Sa | 1433 | 9.5 | 290 | |
| | 0900 | 1.6 | 50 | | | 0905 | 1.6 | 50 | | | 0859 | 3.3 | 100 | | | 0951 | 4.3 | 130 | | | 0747 | 3.3 | 100 | | | 0846 | 4.3 | 130 | | | 0846 | 4.3 | 130 | | | | | | |
| | 1510 | 9.2 | 280 | | | 1507 | 9.8 | 300 | | | 1510 | 9.5 | 290 | | | 1552 | 8.9 | 270 | | | 1354 | 10.2 | 310 | | | 1433 | 9.5 | 290 | | | 1433 | 9.5 | 290 | | | | | | |
| | 2145 | 3.6 | 110 | | | 2214 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Shatt Al Arab (Outer Bar), Iraq, 2011

Times and Heights of High and Low Waters

| July | | | | August | | | | September | | | | | | | | | | | | | | | |
|-----------------|--------|------|------|-----------------|------|------|--------|-----------------|------|--------|------|-----------------|--------|------|------|-----------------|------|------|------|-----------------|------|------|-----|
| Time | Height | | Time | Height | | Time | Height | | Time | Height | | Time | Height | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | |
| 1 F | 0333 | 5.9 | 180 | 16 Sa | 0512 | 5.2 | 160 | 1 M | 0522 | 4.9 | 150 | 16 Tu | 0016 | 9.8 | 300 | 1 Th | 0021 | 10.5 | 320 | 16 F | 0026 | 10.2 | 310 |
| | 0953 | 10.8 | 330 | | 1052 | 10.8 | 330 | | 1112 | 11.2 | 340 | | 0630 | 3.6 | 110 | | 0652 | 2.0 | 60 | | 0715 | 2.3 | 70 |
| | 1746 | 1.0 | 30 | | 1824 | 0.0 | 0 | | 1828 | 0.7 | 20 | | 1206 | 10.2 | 310 | | 1240 | 10.2 | 310 | | 1302 | 8.9 | 270 |
| | 2356 | 8.2 | 250 | | | | | | | | | | 1857 | 1.3 | 40 | | 1905 | 2.0 | 60 | | 1900 | 3.3 | 100 |
| 2 Sa | 0427 | 5.9 | 180 | 17 Su | 0020 | 9.2 | 280 | 2 Tu | 0028 | 9.5 | 290 | 17 W | 0045 | 10.2 | 310 | 2 F | 0054 | 10.8 | 330 | 17 Sa | 0050 | 10.2 | 310 |
| | 1034 | 11.2 | 340 | | 0603 | 4.9 | 150 | | 0613 | 4.3 | 130 | | 0707 | 3.6 | 110 | | 0740 | 1.6 | 50 | | 0745 | 2.3 | 70 |
| | 1820 | 0.7 | 20 | | 1136 | 10.8 | 330 | | 1158 | 11.2 | 340 | | 1242 | 9.8 | 300 | | 1325 | 9.5 | 290 | | 1336 | 8.5 | 260 |
| | | | 1859 | | 0.3 | 10 | 1901 | | 0.7 | 20 | 1922 | | 2.0 | 60 | 1938 | | 2.6 | 80 | 1921 | | 3.6 | 110 | |
| 3 Su | 0029 | 8.5 | 260 | 18 M | 0054 | 9.5 | 290 | 3 W | 0059 | 9.8 | 300 | 18 Th | 0111 | 10.2 | 310 | 3 Sa | 0127 | 10.8 | 330 | 18 Su | 0113 | 10.5 | 320 |
| | 0522 | 5.6 | 170 | | 0649 | 4.6 | 140 | | 0702 | 3.6 | 110 | | 0741 | 3.3 | 100 | | 0829 | 1.3 | 40 | | 0817 | 2.3 | 70 |
| | 1116 | 11.2 | 340 | | 1216 | 10.5 | 320 | | 1242 | 10.8 | 330 | | 1316 | 9.5 | 290 | | 1413 | 8.9 | 270 | | 1411 | 7.9 | 240 |
| | 1853 | 0.3 | 10 | | 1932 | 0.7 | 20 | | 1934 | 1.0 | 30 | | 1944 | 2.3 | 70 | | 2012 | 3.3 | 100 | | 1944 | 4.3 | 130 |
| 4 M | 0101 | 8.9 | 270 | 19 Tu | 0126 | 9.5 | 290 | 4 Th | 0130 | 10.2 | 310 | 19 F | 0136 | 10.2 | 310 | 4 Su | 0201 | 10.8 | 330 | 19 M | 0139 | 10.2 | 310 |
| | 0616 | 5.2 | 160 | | 0730 | 4.3 | 130 | | 0751 | 3.0 | 90 | | 0815 | 3.3 | 100 | | 0922 | 1.6 | 50 | | 0855 | 2.6 | 80 |
| | 1200 | 11.2 | 340 | | 1255 | 10.2 | 310 | | 1328 | 10.2 | 310 | | 1350 | 8.9 | 270 | | 1506 | 7.9 | 240 | | 1452 | 7.2 | 220 |
| | 1927 | 0.3 | 10 | | 2000 | 1.0 | 30 | | 2007 | 1.6 | 50 | | 2005 | 3.0 | 90 | | 2049 | 3.9 | 120 | | 2013 | 4.6 | 140 |
| 5 Tu | 0132 | 9.2 | 280 | 20 W | 0155 | 9.8 | 300 | 5 F | 0202 | 10.5 | 320 | 20 Sa | 0200 | 10.2 | 310 | 5 M | 0239 | 10.2 | 310 | 20 Tu | 0209 | 10.2 | 310 |
| | 0708 | 4.6 | 140 | | 0809 | 4.3 | 130 | | 0841 | 2.6 | 80 | | 0850 | 3.3 | 100 | | 1024 | 1.6 | 50 | | 0944 | 2.6 | 80 |
| | 1244 | 11.2 | 340 | | 1332 | 9.5 | 290 | | 1415 | 9.2 | 280 | | 1425 | 8.2 | 250 | | 1618 | 6.9 | 210 | | 1548 | 6.9 | 210 |
| | 2000 | 0.7 | 20 | | 2026 | 1.6 | 50 | | 2040 | 2.3 | 70 | | 2027 | 3.6 | 110 | | 2135 | 4.6 | 140 | | 2054 | 5.2 | 160 |
| 6 W | 0204 | 9.5 | 290 | 21 Th | 0224 | 9.8 | 300 | 6 Sa | 0237 | 10.5 | 320 | 21 Su | 0225 | 10.2 | 310 | 6 Tu | 0324 | 9.5 | 290 | 21 W | 0245 | 9.8 | 300 |
| | 0800 | 4.3 | 130 | | 0847 | 3.9 | 120 | | 0936 | 2.3 | 70 | | 0931 | 3.3 | 100 | | 1137 | 2.0 | 60 | | 1048 | 2.6 | 80 |
| | 1330 | 10.5 | 320 | | 1408 | 8.9 | 270 | | 1508 | 8.2 | 250 | | 1505 | 7.2 | 220 | | 1816 | 6.6 | 200 | | 1735 | 6.6 | 200 |
| | 2035 | 1.0 | 30 | | 2051 | 2.3 | 70 | | 2116 | 3.3 | 100 | | 2053 | 4.3 | 130 | | 2240 | 5.2 | 160 | | 2159 | 5.6 | 170 |
| 7 Th | 0238 | 9.8 | 300 | 22 F | 0252 | 9.8 | 300 | 7 Su | 0316 | 10.2 | 310 | 22 M | 0253 | 9.8 | 300 | 7 W | 0428 | 8.9 | 270 | 22 Th | 0335 | 9.2 | 280 |
| | 0854 | 3.6 | 110 | | 0928 | 3.9 | 120 | | 1041 | 2.3 | 70 | | 1024 | 3.6 | 110 | | 1300 | 2.0 | 60 | | 1203 | 2.6 | 80 |
| | 1419 | 9.5 | 290 | | 1446 | 8.2 | 250 | | 1620 | 7.2 | 220 | | 1604 | 6.6 | 200 | | 1959 | 6.9 | 210 | | 1932 | 6.9 | 210 |
| | 2112 | 1.6 | 50 | | 2116 | 3.0 | 90 | | 2159 | 4.3 | 130 | | 2128 | 4.9 | 150 | | 2128 | 4.9 | 150 | | 2326 | 5.9 | 180 |
| 8 F | 0316 | 9.8 | 300 | 23 Sa | 0321 | 9.8 | 300 | 8 M | 0403 | 9.8 | 300 | 23 Tu | 0328 | 9.8 | 300 | 8 Th | 0008 | 5.6 | 170 | 23 F | 0454 | 8.5 | 260 |
| | 0954 | 3.3 | 100 | | 1016 | 4.3 | 130 | | 1159 | 2.3 | 70 | | 1135 | 3.6 | 110 | | 0625 | 8.5 | 260 | | 1317 | 2.6 | 80 |
| | 1515 | 8.5 | 260 | | 1531 | 7.2 | 220 | | 1821 | 6.6 | 200 | | 1836 | 6.2 | 190 | | 1418 | 1.6 | 50 | | 2025 | 7.5 | 230 |
| | 2152 | 2.6 | 80 | | 2145 | 3.6 | 110 | | 2256 | 4.9 | 150 | | 2221 | 5.6 | 170 | | 2054 | 7.9 | 240 | | 2054 | 7.9 | 240 |
| 9 Sa | 0400 | 9.8 | 300 | 24 Su | 0353 | 9.5 | 290 | 9 Tu | 0509 | 9.5 | 290 | 24 W | 0416 | 9.5 | 290 | 9 F | 0147 | 5.6 | 170 | 24 Sa | 0053 | 5.6 | 170 |
| | 1101 | 3.3 | 100 | | 1116 | 4.3 | 130 | | 1328 | 2.0 | 60 | | 1300 | 3.3 | 100 | | 0805 | 8.9 | 270 | | 0657 | 8.5 | 260 |
| | 1630 | 7.5 | 230 | | 1645 | 6.6 | 200 | | 2015 | 6.9 | 210 | | 2026 | 6.6 | 200 | | 1518 | 1.6 | 50 | | 1420 | 2.3 | 70 |
| | 2238 | 3.3 | 100 | | 2221 | 4.6 | 140 | | | | | | 2336 | 5.9 | 180 | | 2133 | 8.5 | 260 | | 2102 | 8.2 | 250 |
| 10 Su | 0453 | 9.8 | 300 | 25 M | 0434 | 9.5 | 290 | 10 W | 0010 | 5.6 | 170 | 25 Th | 0535 | 9.2 | 280 | 10 Sa | 0309 | 4.9 | 150 | 25 Su | 0211 | 4.6 | 140 |
| | 1219 | 2.6 | 80 | | 1232 | 3.9 | 120 | | 0644 | 9.5 | 290 | | 1419 | 2.6 | 80 | | 0907 | 9.2 | 280 | | 0824 | 9.2 | 280 |
| | 1827 | 6.9 | 210 | | 1920 | 6.2 | 190 | | 1449 | 1.6 | 50 | | 2114 | 7.2 | 220 | | 1605 | 1.3 | 40 | | 1512 | 2.0 | 60 |
| | 2332 | 4.3 | 130 | | 2308 | 5.2 | 160 | | 2119 | 7.5 | 230 | | | | | | 2207 | 8.9 | 270 | | 2135 | 9.2 | 280 |
| 11 M | 0600 | 9.8 | 300 | 26 Tu | 0529 | 9.2 | 280 | 11 Th | 0139 | 5.6 | 170 | 26 F | 0059 | 5.9 | 180 | 11 Su | 0406 | 4.3 | 130 | 26 M | 0315 | 3.6 | 110 |
| | 1345 | 2.0 | 60 | | 1401 | 3.3 | 100 | | 0810 | 9.5 | 290 | | 0722 | 9.2 | 280 | | 0955 | 9.5 | 290 | | 0924 | 9.5 | 290 |
| | 2016 | 6.9 | 210 | | 2051 | 6.6 | 200 | | 1550 | 1.0 | 30 | | 1517 | 2.0 | 60 | | 1644 | 1.3 | 40 | | 1557 | 1.6 | 50 |
| | | | | | | | | | 2203 | 8.2 | 250 | | 2149 | 7.9 | 240 | | 2238 | 9.5 | 290 | | 2207 | 9.8 | 300 |
| 12 Tu | 0035 | 4.9 | 150 | 27 W | 0008 | 5.6 | 170 | 12 F | 0305 | 5.6 | 170 | 27 Sa | 0217 | 5.6 | 170 | 12 M | 0452 | 3.6 | 110 | 27 Tu | 0412 | 2.6 | 80 |
| | 0714 | 10.2 | 310 | | 0643 | 9.5 | 290 | | 0912 | 10.2 | 310 | | 0837 | 9.8 | 300 | | 1037 | 9.8 | 300 | | 1015 | 9.8 | 300 |
| | 1504 | 1.3 | 40 | | 1513 | 2.6 | 80 | | 1638 | 0.7 | 20 | | 1602 | 1.6 | 50 | | 1719 | 1.6 | 50 | | 1639 | 2.0 | 60 |
| | 2126 | 7.5 | 230 | | 2143 | 7.2 | 220 | | 2241 | 8.9 | 270 | | 2220 | 8.5 | 260 | | 2307 | 9.8 | 300 | | 2239 | 10.2 | 310 |
| 13 W | 0147 | 5.2 | 160 | 28 Th | 0114 | 5.9 | 180 | 13 Sa | 0413 | 4.9 | 150 | 28 Su | 0324 | 4.9 | 150 | 13 Tu | 0533 | 3.0 | 90 | 28 W | 0504 | 2.0 | 60 |
| | 0820 | 10.5 | 320 | | 0754 | 9.8 | 300 | | 1002 | 10.5 | 320 | | 0932 | 10.2 | 310 | | 1116 | 9.8 | 300 | | 1103 | 10.2 | 310 |
| | 1607 | 0.7 | 20 | | 1602 | 2.0 | 60 | | 1719 | 0.7 | 20 | | 1642 | 1.3 | 40 | | 1749 | 2.0 | 60 | | 1720 | 2.3 | 70 |
| | 2219 | 7.9 | 240 | | 2223 | 7.9 | 240 | | 2315 | 9.2 | 280 | | 2250 | 9.2 | 280 | | 2335 | 10.2 | 310 | | 2312 | 10.5 | 320 |
| 14 Th | 0301 | 5.6 | 170 | 29 F | 0222 | 6.2 | 190 | 14 Su | 0506 | 4.6 | 140 | 29 M | 0422 | 4.3 | 130 | 14 W | 0609 | 2.6 | 80 | 29 Th | 0554 | 1.0 | 30 |
| | 0916 | 10.8 | 330 | | 0851 | 10.2 | 310 | | 1046 | 10.5 | 320 | | 1022 | 10.5 | 320 | | 1153 | 9.8 | 300 | | 1150 | 9.8 | 300 |
| | 1658 | 0.0 | 0 | | 1642 | 1.3 | 40 | | 1756 | 0.7 | 20 | | 1719 | 1.0 | 30 | | 1816 | 2.6 | 80 | | 1759 | 2.6 | 80 |
| | 2303 | 8.5 | 260 | | 2257 | 8.2 | 250 | | 2346 | 9.5 | 290 | | 2320 | 9.8 | 300 | | | | | | 2346 | 10.8 | 330 |
| 15 F | 0411 | 5.6 | 170 | 30 Sa | 0326 | 5.9 | 180 | 15 M | 0551 | 3.9 | 120 | 30 Tu | 0515 | 3.3 | 100 | 15 Th | 0002 | 10.2 | 310 | 30 F | 0643 | 0.7 | 20 |
| | 1006 | 10.8 | 330 | | 0940 | 10.8 | 330 | | 1127 | 10.5 | 320 | | 1108 | 10.8 | 330 | | 1228 | 9.5 | 290 | | 1237 | 9.5 | 290 |
| | 1743 | 0.0 | 0 | | 1719 | 1.0 | 30 | | 1828 | 1.0 | 30 | | 1756 | 1.3 | 40 | | 1839 | 3.0 | 90 | | 1837 | 3.3 | 100 |
| | 2343 | 8.9 | 270 | | 2328 | 8.9 | 270 | | | | | | 2350 | 10.2 | 310 | | | | | | | | |

Shatt Al Arab (Outer Bar), Iraq, 2011

Times and Heights of High and Low Waters

| October | | | | November | | | | December | | | | | | | | | | | |
|-----------------|--------|------|----------------|-----------------|------|------|--------|-----------------|------|--------|-----|-----------------|--------|------|-----------------|-----------------|------|------|-----|
| Time | Height | | Time | Height | | Time | Height | | Time | Height | | Time | Height | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | |
| 1 Sa | 0020 | 10.8 | 330 | 16 Su | 0007 | 10.5 | 320 | 1 Tu | 0112 | 10.2 | 310 | 16 W | 0041 | 10.5 | 320 | | | | |
| | 0731 | 0.3 | 10 | | 0724 | 1.6 | 50 | | 0859 | 0.0 | 0 | | 0815 | 0.7 | 20 | 0919 | 0.3 | 10 | |
| | 1324 | 9.2 | 280 | | 1328 | 8.2 | 250 | | 1504 | 7.9 | 240 | | 1434 | 7.9 | 240 | 1529 | 8.5 | 260 | |
| | 1914 | 3.6 | 110 | | 1842 | 4.6 | 140 | | 2036 | 4.9 | 150 | | 1944 | 5.2 | 160 | 2127 | 4.6 | 140 | |
| 2 Su | 0056 | 10.8 | 330 | 17 M | 0034 | 10.5 | 320 | 2 W | 0154 | 9.5 | 290 | 17 Th | 0121 | 10.2 | 310 | 2 F | 0230 | 8.5 | 260 |
| | 0820 | 0.3 | 10 | | 0756 | 1.6 | 50 | | 0946 | 0.7 | 20 | | 0854 | 0.7 | 20 | | 0958 | 1.0 | 30 |
| | 1413 | 8.5 | 260 | | 1404 | 7.9 | 240 | | 1600 | 7.9 | 240 | | 1515 | 7.9 | 240 | | 1615 | 8.5 | 260 |
| | 1953 | 4.3 | 130 | | 1912 | 4.9 | 150 | | 2134 | 4.9 | 150 | | 2043 | 4.9 | 150 | | 2224 | 4.3 | 130 |
| 3 M | 0132 | 10.5 | 320 | 18 Tu | 0104 | 10.5 | 320 | 3 Th | 0241 | 8.5 | 260 | 18 F | 0206 | 9.5 | 290 | 3 Sa | 0325 | 7.5 | 230 |
| | 0911 | 0.7 | 20 | | 0832 | 1.6 | 50 | | 1036 | 1.3 | 40 | | 0939 | 1.0 | 30 | | 1038 | 1.6 | 50 |
| | 1507 | 7.9 | 240 | | 1445 | 7.5 | 230 | | 1707 | 7.9 | 240 | | 1604 | 7.9 | 240 | | 1707 | 8.5 | 260 |
| | 2036 | 4.6 | 140 | | 1950 | 4.9 | 150 | | 2242 | 4.9 | 150 | | 2151 | 4.6 | 140 | | 2329 | 3.9 | 120 |
| 4 Tu | 0212 | 9.8 | 300 | 19 W | 0138 | 10.2 | 310 | 4 F | 0344 | 7.9 | 240 | 19 Sa | 0300 | 8.9 | 270 | 4 Su | 0444 | 6.6 | 200 |
| | 1007 | 1.0 | 30 | | 0916 | 1.6 | 50 | | 1130 | 2.0 | 60 | | 1030 | 1.6 | 50 | | 1121 | 2.6 | 80 |
| | 1616 | 7.2 | 220 | | 1536 | 7.2 | 220 | | 1817 | 7.9 | 240 | | 1702 | 8.2 | 250 | | 1804 | 8.5 | 260 |
| | 2131 | 5.2 | 160 | | 2043 | 5.2 | 160 | | 2359 | 4.6 | 140 | | 2305 | 4.3 | 130 | | | | |
| 5 W | 0257 | 9.2 | 280 | 20 Th | 0220 | 9.8 | 300 | 5 Sa | 0532 | 6.9 | 210 | 20 Su | 0415 | 7.9 | 240 | 5 M | 0041 | 3.6 | 110 |
| | 1110 | 1.6 | 50 | | 1011 | 2.0 | 60 | | 1226 | 2.3 | 70 | | 1127 | 2.0 | 60 | | 0640 | 6.2 | 190 |
| | 1751 | 6.9 | 210 | | 1646 | 7.2 | 220 | | 1915 | 8.2 | 250 | | 1807 | 8.5 | 260 | | 1209 | 3.3 | 100 |
| | 2243 | 5.2 | 160 | | 2155 | 5.2 | 160 | | | | | | | | 1858 | | 8.9 | 270 | |
| 6 Th | 0402 | 8.2 | 250 | 21 F | 0312 | 8.9 | 270 | 6 Su | 0120 | 4.3 | 130 | 21 M | 0023 | 3.6 | 110 | 6 Tu | 0158 | 3.3 | 100 |
| | 1219 | 2.0 | 60 | | 1113 | 2.0 | 60 | | 0725 | 6.9 | 210 | | 0607 | 7.2 | 220 | | 0807 | 6.6 | 200 |
| | 1917 | 7.5 | 230 | | 1813 | 7.2 | 220 | | 1321 | 3.0 | 90 | | 1226 | 2.6 | 80 | | 1257 | 3.9 | 120 |
| | | | | | 2319 | 5.2 | 160 | | 2001 | 8.9 | 270 | | 1906 | 9.2 | 280 | | 1946 | 9.2 | 280 |
| 7 F | 0012 | 5.2 | 160 | 22 Sa | 0431 | 8.2 | 250 | 7 M | 0233 | 3.3 | 100 | 22 Tu | 0139 | 2.6 | 80 | 7 W | 0304 | 2.6 | 80 |
| | 0606 | 7.5 | 230 | | 1219 | 2.3 | 70 | | 0834 | 7.5 | 230 | | 0754 | 7.2 | 220 | | 0909 | 6.9 | 210 |
| | 1328 | 2.0 | 60 | | 1919 | 7.9 | 240 | | 1411 | 3.3 | 100 | | 1324 | 3.0 | 90 | | 1345 | 4.3 | 130 |
| | 2011 | 7.9 | 240 | | | | | | 2039 | 9.2 | 280 | | 1958 | 9.8 | 300 | | 2026 | 9.5 | 290 |
| 8 Sa | 0144 | 4.9 | 150 | 23 Su | 0041 | 4.6 | 140 | 8 Tu | 0329 | 2.6 | 80 | 23 W | 0249 | 1.6 | 50 | 8 Th | 0357 | 2.0 | 60 |
| | 0753 | 7.9 | 240 | | 0633 | 7.9 | 240 | | 0925 | 7.9 | 240 | | 0906 | 7.9 | 240 | | 0959 | 7.2 | 220 |
| | 1428 | 2.3 | 70 | | 1322 | 2.3 | 70 | | 1455 | 3.6 | 110 | | 1421 | 3.6 | 110 | | 1429 | 4.6 | 140 |
| | 2051 | 8.5 | 260 | | 2006 | 8.9 | 270 | | 2113 | 9.5 | 290 | | 2044 | 10.2 | 310 | | 2101 | 9.5 | 290 |
| 9 Su | 0257 | 3.9 | 120 | 24 M | 0157 | 3.6 | 110 | 9 W | 0415 | 2.0 | 60 | 24 Th | 0351 | 0.7 | 20 | 9 F | 0440 | 1.3 | 40 |
| | 0854 | 8.5 | 260 | | 0809 | 8.2 | 250 | | 1010 | 7.9 | 240 | | 1004 | 8.2 | 250 | | 1044 | 7.5 | 230 |
| | 1516 | 2.3 | 70 | | 1418 | 2.3 | 70 | | 1533 | 3.9 | 120 | | 1515 | 3.9 | 120 | | 1511 | 5.2 | 160 |
| | 2125 | 9.2 | 280 | | 2046 | 9.5 | 290 | | 2143 | 9.8 | 300 | | 2127 | 10.8 | 330 | | 2133 | 9.8 | 300 |
| 10 M | 0350 | 3.3 | 100 | 25 Tu | 0302 | 2.3 | 70 | 10 Th | 0456 | 1.6 | 50 | 25 F | 0448 | -0.3 | -10 | 10 Sa | 0519 | 1.0 | 30 |
| | 0942 | 8.9 | 270 | | 0914 | 8.9 | 270 | | 1052 | 8.2 | 250 | | 1057 | 8.5 | 260 | | 1125 | 7.5 | 230 |
| | 1557 | 2.6 | 80 | | 1509 | 2.6 | 80 | | 1606 | 4.3 | 130 | | 1609 | 4.3 | 130 | | 1552 | 5.2 | 160 |
| | 2157 | 9.5 | 290 | | 2124 | 10.2 | 310 | | 2211 | 10.2 | 310 | | 2210 | 10.8 | 330 | | 2204 | 10.2 | 310 |
| 11 Tu | 0434 | 2.6 | 80 | 26 W | 0400 | 1.3 | 40 | 11 F | 0533 | 1.3 | 40 | 26 Sa | 0541 | -0.7 | -20 | 11 Su | 0553 | 0.7 | 20 |
| | 1024 | 8.9 | 270 | | 1009 | 9.2 | 280 | | 1132 | 8.2 | 250 | | 1147 | 8.5 | 260 | | 1203 | 7.9 | 240 |
| | 1631 | 3.0 | 90 | | 1556 | 3.0 | 90 | | 1637 | 4.6 | 140 | | 1705 | 4.6 | 140 | | 1633 | 5.6 | 170 |
| | 2226 | 9.8 | 300 | | 2201 | 10.5 | 320 | | 2238 | 10.2 | 310 | | 2252 | 10.8 | 330 | | 2236 | 10.2 | 310 |
| 12 W | 0513 | 2.3 | 70 | 27 Th | 0454 | 0.7 | 20 | 12 Sa | 0608 | 1.0 | 30 | 27 Su | 0631 | -1.0 | -30 | 12 M | 0625 | 0.3 | 10 |
| | 1103 | 8.9 | 270 | | 1059 | 9.2 | 280 | | 1210 | 8.2 | 250 | | 1234 | 8.5 | 260 | | 1237 | 7.9 | 240 |
| | 1701 | 3.3 | 100 | | 1642 | 3.3 | 100 | | 1707 | 4.9 | 150 | | 1800 | 4.6 | 140 | | 1717 | 5.6 | 170 |
| | 2253 | 10.2 | 310 | | 2238 | 10.8 | 330 | | 2305 | 10.2 | 310 | | 2335 | 10.8 | 330 | | 2311 | 10.5 | 320 |
| 13 Th | 0549 | 2.0 | 60 | 28 F | 0546 | 0.0 | 0 | 13 Su | 0640 | 1.0 | 30 | 28 M | 0717 | -1.0 | -30 | 13 Tu | 0656 | 0.3 | 10 |
| | 1141 | 8.9 | 270 | | 1148 | 9.2 | 280 | | 1247 | 7.9 | 240 | | 1320 | 8.5 | 260 | | 1309 | 8.2 | 250 |
| | 1728 | 3.6 | 110 | | 1727 | 3.6 | 110 | | 1739 | 5.2 | 160 | | 1853 | 4.9 | 150 | | 1804 | 5.2 | 160 |
| | 2318 | 10.2 | 310 | | 2315 | 11.2 | 340 | | 2333 | 10.5 | 320 | | | | | | 2348 | 10.5 | 320 |
| 14 F | 0623 | 1.6 | 50 | 29 Sa | 0636 | -0.3 | -10 | 14 M | 0711 | 0.7 | 20 | 29 Tu | 0017 | 10.5 | 320 | 14 W | 0726 | 0.0 | 0 |
| | 1217 | 8.5 | 260 | | 1236 | 8.9 | 270 | | 1322 | 7.9 | 240 | | 0800 | -0.7 | -20 | | 1340 | 8.2 | 250 |
| | 1753 | 3.9 | 120 | | 1813 | 4.3 | 130 | | 1815 | 5.2 | 160 | | 1404 | 8.5 | 260 | | 1853 | 4.9 | 150 |
| | 2343 | 10.2 | 310 | | 2353 | 10.8 | 330 | | | | | | 1944 | 4.6 | 140 | | | | |
| 15 Sa | 0654 | 1.6 | 50 | 30 Su | 0725 | -0.3 | -10 | 15 Tu | 0005 | 10.5 | 320 | 30 W | 0100 | 9.8 | 300 | 15 Th | 0029 | 10.2 | 310 |
| | 1252 | 8.5 | 260 | | 1324 | 8.5 | 260 | | 0742 | 0.7 | 20 | | 0840 | -0.3 | -10 | | 0757 | 0.0 | 0 |
| | 1817 | 4.3 | 130 | | 1859 | 4.6 | 140 | | 1357 | 7.9 | 240 | | 1446 | 8.5 | 260 | | 1412 | 8.5 | 260 |
| | | | | | | | | | 1855 | 5.2 | 160 | | 2035 | 4.6 | 140 | | 1944 | 4.6 | 140 |
| | | | 31 M | 0032 | 10.8 | 330 | | | | | | | | | 31 Sa | 0216 | 8.2 | 250 | |
| | | | | 0812 | -0.3 | -10 | | | | | | | | | | | 0916 | 1.0 | 30 |
| | | | | 1413 | 8.2 | 250 | | | | | | | | | | | 1524 | 9.2 | 280 |
| | | | | 1945 | 4.6 | 140 | | | | | | | | | | 2154 | 3.6 | 110 | |

Time meridian 45° E. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to the chart datum of soundings.

Mina Al Ahmandi, Kuwait, 2011

Times and Heights of High and Low Waters

| January | | | | February | | | | March | | | | | | | | | | | | | | | |
|-----------------|--------|--------|----------------|-----------------|--------|--------|-----|-----------------|--------|--------|-----|-----------------|--------|--------|------|-----------------|------|--------|------|-----------------|--------|--------|-----|
| Time | | Height | | Time | | Height | | Time | | Height | | Time | | Height | | | | | | | | | |
| | h m | ft | cm | | h m | ft | cm | | h m | ft | cm | | h m | ft | cm | | | | | | | | |
| 1 Sa | 0323 | 2.3 | 70 | 16 Su | 0318 | 3.3 | 100 | 1 Tu | 0512 | 1.6 | 50 | 16 W | 0425 | 1.6 | 50 | 1 Tu | 0354 | 2.0 | 60 | 16 W | 0248 | 2.0 | 60 |
| | 1014 | 6.9 | 210 | | 1033 | 6.6 | 200 | | 1216 | 7.9 | 240 | | 1135 | 7.5 | 230 | | 1109 | 7.5 | 230 | | 1011 | 7.2 | 220 |
| | 1419 | 5.2 | 160 | | 1259 | 6.2 | 190 | | 1624 | 5.9 | 180 | | 1538 | 6.2 | 190 | | 1525 | 6.2 | 190 | | 1414 | 6.2 | 190 |
| | 2035 | 9.5 | 290 | | 1952 | 9.2 | 280 | | 2216 | 9.5 | 290 | | 2127 | 9.5 | 290 | | 2107 | 8.9 | 270 | | 1950 | 8.5 | 260 |
| 2 Su | 0428 | 1.6 | 50 | 17 M | 0413 | 2.3 | 70 | 2 W | 0550 | 1.3 | 40 | 17 Th | 0503 | 1.3 | 40 | 2 W | 0439 | 2.0 | 60 | 17 Th | 0338 | 1.6 | 50 |
| | 1128 | 7.2 | 220 | | 1127 | 6.9 | 210 | | 1249 | 8.2 | 250 | | 1202 | 8.2 | 250 | | 1143 | 7.9 | 240 | | 1042 | 7.5 | 230 |
| | 1526 | 5.6 | 170 | | 1437 | 6.6 | 200 | | 1713 | 5.6 | 170 | | 1634 | 5.6 | 170 | | 1623 | 5.6 | 170 | | 1530 | 5.2 | 160 |
| | 2129 | 9.5 | 290 | | 2050 | 9.5 | 290 | | 2306 | 9.8 | 300 | | 2228 | 9.8 | 300 | | 2209 | 8.9 | 270 | | 2116 | 8.5 | 260 |
| 3 M | 0520 | 1.3 | 40 | 18 Tu | 0457 | 2.0 | 60 | 3 Th | 0621 | 1.6 | 50 | 18 F | 0537 | 1.0 | 30 | 3 Th | 0514 | 2.0 | 60 | 18 F | 0419 | 1.3 | 40 |
| | 1223 | 7.5 | 230 | | 1205 | 7.5 | 230 | | 1315 | 8.2 | 250 | | 1230 | 8.5 | 260 | | 1208 | 8.2 | 250 | | 1110 | 8.2 | 250 |
| | 1626 | 5.6 | 170 | | 1549 | 6.2 | 190 | | 1752 | 5.2 | 160 | | 1722 | 4.6 | 140 | | 1706 | 4.9 | 150 | | 1623 | 4.3 | 130 |
| | 2221 | 9.8 | 300 | | 2145 | 9.8 | 300 | | ● 2349 | 9.8 | 300 | | ○ 2324 | 10.2 | 310 | | 2259 | 8.9 | 270 | | 2224 | 8.9 | 270 |
| 4 Tu | 0604 | 1.0 | 30 | 19 W | 0534 | 1.3 | 40 | 4 F | 0647 | 1.6 | 50 | 19 Sa | 0611 | 1.0 | 30 | 4 F | 0542 | 2.0 | 60 | 19 Sa | 0456 | 1.3 | 40 |
| | 1306 | 7.9 | 240 | | 1238 | 7.9 | 240 | | 1336 | 8.5 | 260 | | 1256 | 8.9 | 270 | | 1228 | 8.5 | 260 | | 1137 | 8.5 | 260 |
| | 1717 | 5.6 | 170 | | 1644 | 5.9 | 180 | | 1828 | 4.9 | 150 | | 1807 | 3.9 | 120 | | 1741 | 4.6 | 140 | | 1710 | 3.3 | 100 |
| | ● 2310 | 9.8 | 300 | | ● 2237 | 10.2 | 310 | | ● | | ● | | | ● 2342 | 8.9 | | 270 | ● 2342 | 8.9 | | 270 | ○ 2323 | 9.2 | 280 |
| 5 W | 0642 | 1.0 | 30 | 20 Th | 0609 | 1.0 | 30 | 5 Sa | 0027 | 9.5 | 290 | 20 Su | 0017 | 10.2 | 310 | 5 Sa | 0608 | 2.3 | 70 | 20 Su | 0533 | 1.6 | 50 |
| | 1341 | 7.9 | 240 | | 1309 | 8.2 | 250 | | 0711 | 2.0 | 60 | | 0644 | 1.3 | 40 | | 1245 | 8.5 | 260 | | 1204 | 9.2 | 280 |
| | 1802 | 5.2 | 160 | | 1732 | 5.6 | 170 | | 1355 | 8.5 | 260 | | 1324 | 9.2 | 280 | | 1812 | 3.9 | 120 | | 1755 | 2.3 | 70 |
| | 2354 | 9.8 | 300 | | ○ 2327 | 10.5 | 320 | | 1900 | 4.6 | 140 | | 1852 | 3.3 | 100 | | ● | | ● | | | ● | |
| 6 Th | 0714 | 1.0 | 30 | 21 F | 0642 | 0.7 | 20 | 6 Su | 0103 | 9.5 | 290 | 21 M | 0110 | 9.8 | 300 | 6 Su | 0020 | 8.9 | 270 | 21 M | 0019 | 9.2 | 280 |
| | 1411 | 7.9 | 240 | | 1339 | 8.5 | 260 | | 0734 | 2.3 | 70 | | 0719 | 1.6 | 50 | | 0630 | 2.6 | 80 | | 0609 | 2.3 | 70 |
| | 1842 | 5.2 | 160 | | 1818 | 4.9 | 150 | | 1412 | 8.9 | 270 | | 1353 | 9.5 | 290 | | 1300 | 8.9 | 270 | | 1233 | 9.5 | 290 |
| | | | | | | | | | 1933 | 4.3 | 130 | | 1940 | 2.6 | 80 | | 1841 | 3.6 | 110 | | 1839 | 1.6 | 50 |
| 7 F | 0035 | 9.5 | 290 | 22 Sa | 0017 | 10.5 | 320 | 7 M | 0137 | 9.2 | 280 | 22 Tu | 0204 | 9.5 | 290 | 7 M | 0056 | 8.9 | 270 | 22 Tu | 0115 | 8.9 | 270 |
| | 0743 | 1.3 | 40 | | 0716 | 0.7 | 20 | | 0755 | 2.6 | 80 | | 0755 | 2.6 | 80 | | 0651 | 3.0 | 90 | | 0646 | 2.6 | 80 |
| | 1438 | 7.9 | 240 | | 1410 | 8.5 | 260 | | 1431 | 9.2 | 280 | | 1424 | 9.8 | 300 | | 1316 | 9.2 | 280 | | 1304 | 9.8 | 300 |
| | 1919 | 4.9 | 150 | | 1904 | 4.6 | 140 | | 2008 | 4.3 | 130 | | 2030 | 2.3 | 70 | | 1911 | 3.3 | 100 | | 1926 | 1.0 | 30 |
| 8 Sa | 0113 | 9.5 | 290 | 23 Su | 0109 | 10.2 | 310 | 8 Tu | 0212 | 8.5 | 260 | 23 W | 0301 | 8.9 | 270 | 8 Tu | 0131 | 8.5 | 260 | 23 W | 0211 | 8.5 | 260 |
| | 0811 | 1.6 | 50 | | 0751 | 1.0 | 30 | | 0816 | 3.3 | 100 | | 0832 | 3.3 | 100 | | 0711 | 3.6 | 110 | | 0724 | 3.3 | 100 |
| | 1502 | 8.2 | 250 | | 1441 | 8.9 | 270 | | 1450 | 9.2 | 280 | | 1457 | 9.8 | 300 | | 1332 | 9.2 | 280 | | 1336 | 9.8 | 300 |
| | 1956 | 4.9 | 150 | | 1952 | 3.9 | 120 | | 2047 | 3.9 | 120 | | 2128 | 2.3 | 70 | | 1943 | 3.0 | 90 | | 2016 | 1.0 | 30 |
| 9 Su | 0149 | 9.2 | 280 | 24 M | 0201 | 9.8 | 300 | 9 W | 0250 | 8.2 | 250 | 24 Th | 0403 | 7.9 | 240 | 9 W | 0207 | 8.2 | 250 | 24 Th | 0309 | 8.2 | 250 |
| | 0838 | 2.0 | 60 | | 0828 | 1.6 | 50 | | 0837 | 3.9 | 120 | | 0912 | 4.3 | 130 | | 0731 | 3.9 | 120 | | 0804 | 3.9 | 120 |
| | 1526 | 8.2 | 250 | | 1513 | 9.2 | 280 | | 1512 | 9.5 | 290 | | 1535 | 9.8 | 300 | | 1350 | 9.5 | 290 | | 1412 | 9.8 | 300 |
| | 2035 | 4.9 | 150 | | 2045 | 3.6 | 110 | | 2131 | 3.9 | 120 | | 2235 | 2.3 | 70 | | 2018 | 2.6 | 80 | | 2112 | 1.0 | 30 |
| 10 M | 0225 | 8.5 | 260 | 25 Tu | 0257 | 9.2 | 280 | 10 Th | 0334 | 7.5 | 230 | 25 F | 0519 | 7.2 | 220 | 10 Th | 0247 | 7.5 | 230 | 25 F | 0411 | 7.5 | 230 |
| | 0904 | 2.6 | 80 | | 0906 | 2.3 | 70 | | 0859 | 4.3 | 130 | | 0954 | 4.9 | 150 | | 0753 | 4.3 | 130 | | 0847 | 4.6 | 140 |
| | 1552 | 8.5 | 260 | | 1547 | 9.5 | 290 | | 1538 | 9.5 | 290 | | 1618 | 9.8 | 300 | | 1412 | 9.5 | 290 | | 1452 | 9.5 | 290 |
| | 2119 | 4.6 | 140 | | 2144 | 3.6 | 110 | | 2225 | 3.9 | 120 | | ● 2355 | 2.6 | 80 | | 2059 | 2.6 | 80 | | 2214 | 1.3 | 40 |
| 11 Tu | 0304 | 7.9 | 240 | 26 W | 0358 | 8.2 | 250 | 11 F | 0431 | 6.9 | 210 | 26 Sa | 0659 | 6.6 | 200 | 11 F | 0333 | 7.2 | 220 | 26 Sa | 0523 | 6.9 | 210 |
| | 0930 | 3.0 | 90 | | 0946 | 3.3 | 100 | | 0923 | 4.9 | 150 | | 1046 | 5.6 | 170 | | 0817 | 4.9 | 150 | | 0936 | 5.2 | 160 |
| | 1620 | 8.5 | 260 | | 1625 | 9.5 | 290 | | 1610 | 9.5 | 290 | | 1712 | 9.5 | 290 | | 1439 | 9.5 | 290 | | 1536 | 8.9 | 270 |
| | 2210 | 4.6 | 140 | | ● 2253 | 3.3 | 100 | | ● 2336 | 3.9 | 120 | | ● | | ● | | 2148 | 2.6 | 80 | | ● 2325 | 1.6 | 50 |
| 12 W | 0350 | 7.2 | 220 | 27 Th | 0513 | 7.5 | 230 | 12 Sa | 0600 | 6.2 | 190 | 27 Su | 0128 | 2.3 | 70 | 12 Sa | 0433 | 6.6 | 200 | 27 Su | 0652 | 6.6 | 200 |
| | 0955 | 3.6 | 110 | | 1029 | 4.3 | 130 | | 0949 | 5.6 | 170 | | 1204 | 6.2 | 190 | | 0845 | 5.2 | 160 | | 1039 | 5.9 | 180 |
| | 1650 | 8.9 | 270 | | 1708 | 9.8 | 300 | | 1650 | 9.5 | 290 | | 1821 | 8.9 | 270 | | 1512 | 9.5 | 290 | | 1632 | 8.5 | 260 |
| | ○ 2314 | 4.6 | 140 | | | | | | | | | | | | 2251 | | 2.6 | 80 | | | | | |
| 13 Th | 0450 | 6.6 | 200 | 28 F | 0018 | 3.3 | 100 | 13 Su | 0110 | 3.6 | 110 | 28 M | 0252 | 2.3 | 70 | 13 Su | 0600 | 6.2 | 190 | 28 M | 0044 | 2.0 | 60 |
| | 1022 | 4.6 | 140 | | 0651 | 6.9 | 210 | | 0843 | 6.2 | 190 | | 1022 | 7.2 | 220 | | 0919 | 5.6 | 170 | | 0826 | 6.9 | 210 |
| | 1725 | 8.9 | 270 | | 1120 | 4.9 | 150 | | 1020 | 6.2 | 190 | | 1357 | 6.6 | 200 | | 1554 | 9.2 | 280 | | 1212 | 5.9 | 180 |
| | | | | | 1758 | 9.5 | 290 | | 1744 | 9.2 | 280 | | 1947 | 8.9 | 270 | | ● | | 1748 | | 7.9 | 240 | |
| 14 F | 0036 | 4.3 | 130 | 29 Sa | 0154 | 3.0 | 90 | 14 M | 0239 | 3.0 | 90 | 14 M | 0011 | 2.6 | 80 | 14 M | 0011 | 2.6 | 80 | 29 Tu | 0201 | 2.0 | 60 |
| | 0629 | 6.2 | 190 | | 0851 | 6.6 | 200 | | 1032 | 6.6 | 200 | | 0812 | 6.2 | 190 | | 0931 | 7.2 | 220 | | 0931 | 7.2 | 220 |
| | 1054 | 5.2 | 160 | | 1226 | 5.9 | 180 | | 1150 | 6.6 | 200 | | 1014 | 6.2 | 190 | | 1014 | 6.2 | 190 | | 1405 | 5.9 | 180 |
| | 1806 | 9.2 | 280 | | 1900 | 9.5 | 290 | | 1855 | 9.2 | 280 | | 1653 | 8.9 | 270 | | 1653 | 8.9 | 270 | | 1928 | 7.5 | 230 |
| 15 Sa | 0206 | 3.9 | 120 | 30 Su | 0319 | 2.3 | 70 | 15 Tu | 0340 | 2.3 | 70 | 15 Tu | 0140 | 2.3 | 70 | 15 Tu | 0140 | 2.3 | 70 | 30 W | 0301 | 2.0 | 60 |
| | 0851 | 5.9 | 180 | | 1031 | 6.9 | 210 | | 1106 | 7.2 | 220 | | 0932 | 6.6 | 200 | | 1208 | 6.6 | 200 | | 1013 | 7.5 | 230 |
| | 1138 | 5.9 | 180 | | 1356 | 6.2 | 190 | | 1413 | 6.6 | 200 | | 1813 | 8.5 | 260 | | 1523 | 5.2 | 160 | | 1523 | 5.2 | 160 |
| | 1856 | 9.2 | 280 | | 2009 | 9.5 | 290 | | 2015 | 9.5 | 290 | | | | | | | | 2055 | | 7.5 | 230 | |
| | | | 31</ | | | | | | | | | | | | | | | | | | | | |

Mina Al Ahmandi, Kuwait, 2011

Times and Heights of High and Low Waters

| April | | | | May | | | | June | | | | | | | | | | | | | | |
|-----------------|--------|-----|------|--------|--|-----------|--------|------|------|-----------|------|------|--------|-----------|------|-----|------|-----------|------|-----|------|-----|
| Time | Height | | Time | Height | | Time | Height | | Time | Height | | Time | Height | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | |
| 1 F | 0424 | 2.3 | 70 | | | 1 | 0406 | 3.6 | 110 | 16 | 0338 | 3.3 | 100 | 1 | 0012 | 6.9 | 210 | 16 | 0045 | 7.5 | 230 | |
| | 1108 | 8.2 | 250 | | | Su | 1025 | 8.2 | 250 | M | 0953 | 8.9 | 270 | W | 0430 | 5.2 | 160 | Th | 0459 | 4.9 | 150 | |
| | 1652 | 3.9 | 120 | | | | 1700 | 2.3 | 70 | | 1645 | 0.7 | 20 | | 1026 | 8.9 | 270 | | 1055 | 9.8 | 300 | |
| | 2251 | 7.5 | 230 | | | | 2331 | 6.9 | 210 | | 2336 | 7.2 | 220 | | 1747 | 1.3 | 40 | | 1825 | 0.3 | 10 | |
| 2 Sa | 0456 | 2.6 | 80 | | | 2 | 0439 | 3.9 | 120 | 17 | 0427 | 3.9 | 120 | 2 | 0054 | 7.2 | 220 | 17 | 0133 | 7.5 | 230 | |
| | 1127 | 8.2 | 250 | | | Su | 1047 | 8.5 | 260 | Tu | 1032 | 9.2 | 280 | Th | 0505 | 5.2 | 160 | F | 0550 | 4.9 | 150 | |
| | 1723 | 3.3 | 100 | | | | 1731 | 1.6 | 50 | | 1733 | 0.3 | 10 | | 1056 | 8.9 | 270 | | 1143 | 9.5 | 290 | |
| | 2336 | 7.9 | 240 | | | | 2327 | 7.9 | 240 | | ○ | | | ● | 1822 | 1.0 | 30 | | 1909 | 0.3 | 10 | |
| 3 Su | 0523 | 3.0 | 90 | | | 3 | 0015 | 7.2 | 220 | 18 | 0037 | 7.5 | 230 | 3 | 0133 | 7.2 | 220 | 18 | 0215 | 7.5 | 230 | |
| | 1145 | 8.5 | 260 | | | M | 0507 | 4.3 | 130 | W | 0514 | 4.3 | 130 | F | 0541 | 5.2 | 160 | Sa | 0638 | 4.9 | 150 | |
| | 1752 | 2.6 | 80 | | | | 1109 | 8.5 | 260 | | 1112 | 9.5 | 290 | | 1129 | 9.2 | 280 | | 1230 | 9.5 | 290 | |
| | ● | | | | | | 1800 | 1.3 | 40 | | 1821 | 0.0 | 0 | | 1857 | 0.7 | 20 | | 1950 | 0.7 | 20 | |
| 4 M | 0016 | 7.9 | 240 | | | 4 | 0057 | 7.2 | 220 | 19 | 0132 | 7.5 | 230 | 4 | 0210 | 7.2 | 220 | 19 | 0253 | 7.5 | 230 | |
| | 0547 | 3.3 | 100 | | | W | 0534 | 4.6 | 140 | Th | 0601 | 4.6 | 140 | Sa | 0619 | 5.2 | 160 | Su | 0724 | 4.9 | 150 | |
| | 1202 | 8.9 | 270 | | | | 1130 | 8.9 | 270 | | 1154 | 9.5 | 290 | | 1205 | 9.2 | 280 | | 1315 | 9.2 | 280 | |
| | 1820 | 2.3 | 70 | | | | 1830 | 1.0 | 30 | | 1909 | 0.0 | 0 | | 1933 | 0.7 | 20 | | 2027 | 1.0 | 30 | |
| 5 Tu | 0055 | 7.9 | 240 | | | 5 | 0136 | 7.2 | 220 | 20 | 0223 | 7.5 | 230 | 5 | 0248 | 7.2 | 220 | 20 | 0328 | 7.5 | 230 | |
| | 0610 | 3.9 | 120 | | | Th | 0602 | 4.9 | 150 | F | 0649 | 4.6 | 140 | Su | 0701 | 5.2 | 160 | M | 0810 | 4.9 | 150 | |
| | 1219 | 8.9 | 270 | | | | 1154 | 8.9 | 270 | | 1237 | 9.2 | 280 | | 1246 | 9.2 | 280 | | 1359 | 8.9 | 270 | |
| | 1849 | 1.6 | 50 | | | | 1903 | 0.7 | 20 | | 1958 | 0.0 | 0 | | 2012 | 0.7 | 20 | | 2103 | 1.3 | 40 | |
| 6 W | 0132 | 7.5 | 230 | | | 6 | 0215 | 7.2 | 220 | 21 | 0310 | 7.5 | 230 | 6 | 0327 | 7.2 | 220 | 21 | 0402 | 7.9 | 240 | |
| | 0632 | 4.3 | 130 | | | F | 0632 | 4.9 | 150 | Sa | 0737 | 4.6 | 140 | M | 0748 | 4.9 | 150 | Tu | 0857 | 4.9 | 150 | |
| | 1237 | 9.2 | 280 | | | | 1222 | 8.9 | 270 | | 1322 | 8.9 | 270 | | 1332 | 8.9 | 270 | | 1443 | 8.2 | 250 | |
| | 1919 | 1.3 | 40 | | | | 1939 | 0.7 | 20 | | 2045 | 0.3 | 10 | | 2053 | 0.7 | 20 | | 2138 | 2.0 | 60 | |
| 7 Th | 0210 | 7.5 | 230 | | | 7 | 0257 | 6.9 | 210 | 22 | 0356 | 7.2 | 220 | 7 | 0407 | 7.5 | 230 | 22 | 0435 | 7.9 | 240 | |
| | 0655 | 4.6 | 140 | | | Sa | 0707 | 4.9 | 150 | Su | 0828 | 4.9 | 150 | Tu | 0841 | 4.9 | 150 | W | 0947 | 4.9 | 150 | |
| | 1258 | 9.2 | 280 | | | | 1255 | 8.9 | 270 | | 1408 | 8.5 | 260 | | 1424 | 8.5 | 260 | | 1528 | 7.5 | 230 | |
| | 1954 | 1.3 | 40 | | | | 2020 | 0.7 | 20 | | 2131 | 1.0 | 30 | | 2137 | 1.0 | 30 | | 2213 | 2.3 | 70 | |
| 8 F | 0252 | 7.2 | 220 | | | 8 | 0342 | 6.9 | 210 | 23 | 0442 | 7.2 | 220 | 8 | 0448 | 7.5 | 230 | 23 | 0510 | 8.2 | 250 | |
| | 0722 | 4.9 | 150 | | | Su | 0749 | 5.2 | 160 | M | 0922 | 4.9 | 150 | W | 0941 | 4.6 | 140 | Th | 1045 | 4.6 | 140 | |
| | 1324 | 9.2 | 280 | | | | 1333 | 8.9 | 270 | | 1456 | 7.9 | 240 | | 1523 | 8.2 | 250 | | 1619 | 6.9 | 210 | |
| | 2034 | 1.3 | 40 | | | | 2106 | 0.7 | 20 | | 2217 | 1.3 | 40 | | 2223 | 1.3 | 40 | | 2249 | 3.0 | 90 | |
| 9 Sa | 0341 | 6.9 | 210 | | | 9 | 0432 | 6.9 | 210 | 24 | 0529 | 7.2 | 220 | 9 | 0531 | 7.9 | 240 | 24 | 0547 | 8.2 | 250 | |
| | 0753 | 4.9 | 150 | | | M | 0840 | 5.2 | 160 | Tu | 1022 | 4.9 | 150 | Th | 1050 | 4.6 | 140 | F | 1156 | 4.6 | 140 | |
| | 1355 | 9.2 | 280 | | | | 1419 | 8.5 | 260 | | 1550 | 7.2 | 220 | | 1633 | 7.5 | 230 | | 1728 | 6.6 | 200 | |
| | 2121 | 1.3 | 40 | | | | 2157 | 1.0 | 30 | | ● | 2304 | 2.0 | 60 | | ● | 2313 | 2.0 | 60 | | 2326 | 3.9 | 120 |
| 10 Su | 0440 | 6.6 | 200 | | | 10 | 0526 | 6.9 | 210 | 25 | 0617 | 7.2 | 220 | 10 | 0615 | 8.2 | 250 | 25 | 0627 | 8.5 | 260 | |
| | 0833 | 5.2 | 160 | | | Tu | 0943 | 5.2 | 160 | W | 1133 | 4.9 | 150 | F | 1208 | 3.9 | 120 | Sa | 1315 | 4.3 | 130 | |
| | 1433 | 8.9 | 270 | | | | 1516 | 7.9 | 240 | | 1654 | 6.6 | 200 | | 1800 | 6.9 | 210 | | 1906 | 5.9 | 180 | |
| | 2219 | 1.6 | 50 | | | | ● | 2253 | 1.3 | 40 | | 2353 | 2.3 | 70 | | | | | | | | |
| 11 M | 0553 | 6.2 | 190 | | | 11 | 0621 | 6.9 | 210 | 26 | 0702 | 7.5 | 230 | 11 | 0007 | 2.6 | 80 | 26 | 0009 | 4.6 | 140 | |
| | 0927 | 5.6 | 170 | | | W | 1058 | 4.9 | 150 | Th | 1256 | 4.6 | 140 | Sa | 0659 | 8.5 | 260 | Su | 0707 | 8.5 | 260 | |
| | 1522 | 8.5 | 260 | | | | 1627 | 7.5 | 230 | | 1822 | 6.2 | 190 | | 1331 | 3.3 | 100 | | 1428 | 3.6 | 110 | |
| | 2326 | 1.6 | 50 | | | | 2352 | 1.6 | 50 | | | | | | 1941 | 6.6 | 200 | | 2049 | 5.9 | 180 | |
| 12 Tu | 0715 | 6.6 | 200 | | | 12 | 0712 | 7.2 | 220 | 27 | 0044 | 3.0 | 90 | 12 | 0106 | 3.6 | 110 | 27 | 0102 | 5.2 | 160 | |
| | 1046 | 5.9 | 180 | | | Th | 1226 | 4.6 | 140 | F | 0744 | 7.9 | 240 | Su | 0744 | 8.9 | 270 | M | 0749 | 8.9 | 270 | |
| | 1628 | 7.9 | 240 | | | | 1757 | 6.9 | 210 | | 1413 | 3.9 | 120 | | 1445 | 2.3 | 70 | | 1528 | 3.0 | 90 | |
| | | | | | | | | | | | 1959 | 5.9 | 180 | | 2116 | 6.6 | 200 | | 2214 | 6.2 | 190 | |
| 13 W | 0039 | 1.6 | 50 | | | 13 | 0052 | 2.0 | 60 | 28 | 0137 | 3.6 | 110 | 13 | 0207 | 4.3 | 130 | 28 | 0204 | 5.6 | 170 | |
| | 0819 | 6.9 | 210 | | | F | 0756 | 7.5 | 230 | Sa | 0822 | 7.9 | 240 | M | 0831 | 9.2 | 280 | Tu | 0831 | 8.9 | 270 | |
| | 1230 | 5.6 | 170 | | | | 1351 | 3.6 | 110 | | 1511 | 3.3 | 100 | | 1548 | 1.6 | 50 | | 1617 | 2.6 | 80 | |
| | 1756 | 7.5 | 230 | | | | 1942 | 6.6 | 200 | | 2120 | 5.9 | 180 | | 2238 | 6.9 | 210 | | 2318 | 6.9 | 210 | |
| 14 Th | 0147 | 1.6 | 50 | | | 14 | 0152 | 2.3 | 70 | 29 | 0227 | 3.9 | 120 | 14 | 0308 | 4.6 | 140 | 29 | 0304 | 5.9 | 180 | |
| | 0903 | 7.2 | 220 | | | Sa | 0837 | 8.2 | 250 | Su | 0856 | 8.2 | 250 | Tu | 0918 | 9.5 | 290 | W | 0913 | 9.2 | 280 | |
| | 1409 | 4.9 | 150 | | | | 1459 | 2.6 | 80 | | 1557 | 2.6 | 80 | | 1645 | 1.0 | 30 | | 1701 | 2.0 | 60 | |
| | 1942 | 7.2 | 220 | | | | 2113 | 6.9 | 210 | | 2228 | 6.2 | 190 | | 2348 | 7.2 | 220 | | | | | |
| 15 F | 0244 | 1.6 | 50 | | | 15 | 0247 | 3.0 | 90 | 30 | 0313 | 4.6 | 140 | 15 | 0405 | 4.9 | 150 | 30 | 0005 | 7.2 | 220 | |
| | 0938 | 7.9 | 240 | | | Su | 0915 | 8.5 | 260 | M | 0927 | 8.5 | 260 | W | 1006 | 9.5 | 290 | Th | 0356 | 5.9 | 180 | |
| | 1516 | 3.9 | 120 | | | | 1554 | 1.6 | 50 | | 1637 | 2.0 | 60 | | 1737 | 0.7 | 20 | | 0954 | 9.5 | 290 | |
| | 2113 | 7.5 | 230 | | | | 2229 | 6.9 | 210 | | 2324 | 6.6 | 200 | | ○ | | | | 1739 | 1.6 | 50 | |
| | | | | | | | | | | 31 | 0354 | 4.9 | 150 | | | | | | | | | |
| | | | | | | | | | | Tu | 0957 | 8.5 | 260 | | | | | | | | | |
| | | | | | | | | | | | 1713 | 1.6 | 50 | | | | | | | | | |

Time meridian 45° E. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
 Heights are referred to the chart datum of soundings.

Mina Al Ahmandi, Kuwait, 2011

Times and Heights of High and Low Waters

| July | | | | August | | | | September | | | | | | | | | | | | | | | | | | | | | |
|---------------------|--------|-----|-----|--------|-----------------|------|-----|-----------|--------|-----------------|------|------|--------|----|-----------------|------|-----|-----|----|-----------------|------|-----|-----|--|-----------------|------|-----|-----|--|
| Time | Height | | | Time | Height | | | Time | Height | | | Time | Height | | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | |
| 1 F ● | 0044 | 7.5 | 230 | | 16 Sa | 0122 | 7.9 | 240 | | 1 M | 0116 | 8.2 | 250 | | 16 Tu | 0135 | 8.5 | 260 | | 1 Th | 0121 | 9.5 | 290 | | 16 F | 0112 | 9.2 | 280 | |
| | 0442 | 5.9 | 180 | | | 0541 | 5.2 | 160 | | | 0557 | 4.9 | 150 | | | 0648 | 4.3 | 130 | | | 0712 | 2.6 | 80 | | | 0730 | 2.6 | 80 | |
| | 1035 | 9.5 | 290 | | | 1139 | 9.8 | 300 | | | 1157 | 10.2 | 310 | | | 1255 | 9.2 | 280 | | | 1339 | 9.2 | 280 | | | 1402 | 7.9 | 240 | |
| | 1814 | 1.3 | 40 | | | 1857 | 1.3 | 40 | | | 1852 | 1.3 | 40 | | | 1916 | 2.3 | 70 | | | 1925 | 2.6 | 80 | | | 1917 | 3.9 | 120 | |
| 2 Sa | 0119 | 7.5 | 230 | | 17 Su | 0154 | 8.2 | 250 | | 2 Tu | 0144 | 8.5 | 260 | | 17 W | 0153 | 8.9 | 270 | | 2 F | 0152 | 9.8 | 300 | | 17 Sa | 0130 | 9.2 | 280 | |
| | 0525 | 5.6 | 170 | | | 0625 | 5.2 | 160 | | | 0641 | 4.6 | 140 | | | 0722 | 3.9 | 120 | | | 0801 | 2.3 | 70 | | | 0804 | 2.3 | 70 | |
| | 1116 | 9.8 | 300 | | | 1225 | 9.8 | 300 | | | 1246 | 10.2 | 310 | | | 1332 | 8.9 | 270 | | | 1436 | 8.9 | 270 | | | 1441 | 7.5 | 230 | |
| | 1847 | 1.0 | 30 | | | 1928 | 1.3 | 40 | | | 1925 | 1.3 | 40 | | | 1940 | 3.0 | 90 | | | 2004 | 3.3 | 100 | | | 1939 | 4.6 | 140 | |
| 3 Su | 0152 | 7.9 | 240 | | 18 M | 0222 | 8.2 | 250 | | 3 W | 0212 | 8.9 | 270 | | 18 Th | 0212 | 9.2 | 280 | | 3 Sa | 0226 | 9.8 | 300 | | 18 Su | 0152 | 9.5 | 290 | |
| | 0608 | 5.2 | 160 | | | 0706 | 4.9 | 150 | | | 0727 | 3.9 | 120 | | | 0757 | 3.9 | 120 | | | 0856 | 2.0 | 60 | | | 0844 | 2.3 | 70 | |
| | 1200 | 9.8 | 300 | | | 1307 | 9.5 | 290 | | | 1337 | 9.8 | 300 | | | 1408 | 8.5 | 260 | | | 1538 | 7.9 | 240 | | | 1527 | 7.2 | 220 | |
| | 1920 | 1.0 | 30 | | | 1957 | 1.6 | 50 | | | 1959 | 1.6 | 50 | | | 2002 | 3.3 | 100 | | | 2044 | 3.9 | 120 | | | 2003 | 4.9 | 150 | |
| 4 M | 0224 | 7.9 | 240 | | 19 Tu | 0247 | 8.2 | 250 | | 4 Th | 0243 | 9.2 | 280 | | 19 F | 0232 | 9.2 | 280 | | 4 Su | 0304 | 9.8 | 300 | | 19 M | 0218 | 9.2 | 280 | |
| | 0653 | 5.2 | 160 | | | 0746 | 4.6 | 140 | | | 0817 | 3.6 | 110 | | | 0835 | 3.6 | 110 | | | 1001 | 2.0 | 60 | | | 0931 | 2.3 | 70 | |
| | 1247 | 9.8 | 300 | | | 1346 | 9.2 | 280 | | | 1431 | 9.2 | 280 | | | 1447 | 7.9 | 240 | | | 1651 | 7.2 | 220 | | | 1624 | 6.6 | 200 | |
| | 1954 | 1.0 | 30 | | | 2025 | 2.3 | 70 | | | 2037 | 2.3 | 70 | | | 2024 | 3.9 | 120 | | | 2129 | 4.9 | 150 | | | 2031 | 5.2 | 160 | |
| 5 Tu | 0256 | 8.2 | 250 | | 20 W | 0311 | 8.5 | 260 | | 5 F | 0315 | 9.5 | 290 | | 20 Sa | 0254 | 9.5 | 290 | | 5 M | 0348 | 9.8 | 300 | | 20 Tu | 0250 | 9.2 | 280 | |
| | 0740 | 4.9 | 150 | | | 0826 | 4.6 | 140 | | | 0912 | 3.3 | 100 | | | 0919 | 3.6 | 110 | | | 1117 | 2.0 | 60 | | | 1031 | 2.6 | 80 | |
| | 1336 | 9.5 | 290 | | | 1424 | 8.5 | 260 | | | 1531 | 8.5 | 260 | | | 1531 | 7.5 | 230 | | | 1822 | 6.9 | 210 | | | 1745 | 6.2 | 190 | |
| | 2031 | 1.0 | 30 | | | 2052 | 2.6 | 80 | | | 2116 | 3.3 | 100 | | | 2047 | 4.6 | 140 | | | 2224 | 5.6 | 170 | | | 2107 | 5.6 | 170 | |
| 6 W | 0330 | 8.2 | 250 | | 21 Th | 0336 | 8.9 | 270 | | 6 Sa | 0352 | 9.8 | 300 | | 21 Su | 0320 | 9.5 | 290 | | 6 Tu | 0442 | 9.2 | 280 | | 21 W | 0331 | 8.9 | 270 | |
| | 0831 | 4.6 | 140 | | | 0910 | 4.6 | 140 | | | 1017 | 3.3 | 100 | | | 1012 | 3.6 | 110 | | | 1245 | 2.0 | 60 | | | 1146 | 2.6 | 80 | |
| | 1429 | 9.2 | 280 | | | 1504 | 8.2 | 250 | | | 1640 | 7.5 | 230 | | | 1627 | 6.9 | 210 | | | 2011 | 6.9 | 210 | | | 1938 | 6.2 | 190 | |
| | 2110 | 1.6 | 50 | | | 2118 | 3.3 | 100 | | | 2159 | 3.9 | 120 | | | 2111 | 4.9 | 150 | | | 2340 | 6.2 | 190 | | | 2205 | 6.2 | 190 | |
| 7 Th | 0405 | 8.5 | 260 | | 22 F | 0403 | 8.9 | 270 | | 7 Su | 0434 | 9.8 | 300 | | 22 M | 0351 | 9.5 | 290 | | 7 W | 0551 | 8.9 | 270 | | 22 Th | 0427 | 8.5 | 260 | |
| | 0928 | 4.3 | 130 | | | 1000 | 4.6 | 140 | | | 1135 | 3.0 | 90 | | | 1120 | 3.6 | 110 | | | 1411 | 2.0 | 60 | | | 1308 | 2.3 | 70 | |
| | 1528 | 8.5 | 260 | | | 1549 | 7.5 | 230 | | | 1809 | 6.9 | 210 | | | 1752 | 6.2 | 190 | | | 2137 | 7.2 | 220 | | | 2058 | 6.6 | 200 | |
| | 2151 | 2.3 | 70 | | | 2144 | 3.9 | 120 | | | 2248 | 4.9 | 150 | | | 2138 | 5.6 | 170 | | | 2137 | 7.2 | 220 | | | 2353 | 6.2 | 190 | |
| 8 F ● | 0442 | 8.9 | 270 | | 23 Sa | 0433 | 8.9 | 270 | | 8 M | 0524 | 9.8 | 300 | | 23 Tu | 0431 | 9.2 | 280 | | 8 Th | 0126 | 6.2 | 190 | | 23 F | 0545 | 8.2 | 250 | |
| | 1033 | 3.9 | 120 | | | 1100 | 4.6 | 140 | | | 1306 | 2.6 | 80 | | | 1247 | 3.3 | 100 | | | 0717 | 8.5 | 260 | | | 1417 | 2.0 | 60 | |
| | 1636 | 7.9 | 240 | | | 1646 | 6.9 | 210 | | | 2001 | 6.6 | 200 | | | 2012 | 6.2 | 190 | | | 1518 | 1.6 | 50 | | | 2139 | 7.2 | 220 | |
| | 2236 | 3.0 | 90 | | | 2211 | 4.6 | 140 | | | 2350 | 5.6 | 170 | | | 2213 | 6.2 | 190 | | | 2230 | 7.5 | 230 | | | 2139 | 7.2 | 220 | |
| 9 Sa | 0523 | 9.2 | 280 | | 24 Su | 0506 | 9.2 | 280 | | 9 Tu | 0624 | 9.8 | 300 | | 24 W | 0523 | 9.2 | 280 | | 9 F | 0259 | 5.9 | 180 | | 24 Sa | 0155 | 5.9 | 180 | |
| | 1150 | 3.6 | 110 | | | 1216 | 4.3 | 130 | | | 1435 | 2.3 | 70 | | | 1413 | 3.0 | 90 | | | 0841 | 8.5 | 260 | | | 0721 | 7.9 | 240 | |
| | 1801 | 6.9 | 210 | | | 1815 | 6.2 | 190 | | | 2146 | 6.9 | 210 | | | 2157 | 6.6 | 200 | | | 1608 | 1.6 | 50 | | | 1508 | 2.0 | 60 | |
| | 2325 | 3.9 | 120 | | | 2241 | 5.2 | 160 | | | | | | | | 2339 | 6.6 | 200 | | | 2309 | 7.9 | 240 | | | 2210 | 7.5 | 230 | |
| 10 Su | 0609 | 9.5 | 290 | | 25 M | 0547 | 9.2 | 280 | | 10 W | 0115 | 6.2 | 190 | | 25 Th | 0632 | 8.9 | 270 | | 10 Sa | 0402 | 5.2 | 160 | | 25 Su | 0310 | 5.2 | 160 | |
| | 1317 | 3.0 | 90 | | | 1342 | 3.9 | 120 | | | 0734 | 9.5 | 290 | | | 1515 | 2.6 | 80 | | | 0949 | 8.5 | 260 | | | 0850 | 8.2 | 250 | |
| | 1945 | 6.6 | 200 | | | 2024 | 6.2 | 190 | | | 1546 | 2.0 | 60 | | | 2238 | 7.2 | 220 | | | 1646 | 1.6 | 50 | | | 1550 | 1.6 | 50 | |
| | | | | | | 2320 | 5.9 | 180 | | | 2257 | 7.2 | 220 | | | | | | | | 2338 | 8.2 | 250 | | | 2238 | 8.2 | 250 | |
| 11 M | 0023 | 4.6 | 140 | | 26 Tu | 0636 | 9.2 | 280 | | 11 Th | 0246 | 6.2 | 190 | | 26 F | 0155 | 6.6 | 200 | | 11 Su | 0448 | 4.6 | 140 | | 26 M | 0402 | 4.3 | 130 | |
| | 0701 | 9.5 | 290 | | | 1457 | 3.3 | 100 | | | 0846 | 9.5 | 290 | | | 0751 | 9.2 | 280 | | | 1043 | 8.5 | 260 | | | 0959 | 8.5 | 260 | |
| | 1440 | 2.3 | 70 | | | 2211 | 6.6 | 200 | | | 1641 | 1.6 | 50 | | | 1601 | 2.0 | 60 | | | 1718 | 2.0 | 60 | | | 1627 | 1.6 | 50 | |
| | 2129 | 6.6 | 200 | | | | | | | | 2345 | 7.9 | 240 | | | 2308 | 7.5 | 230 | | | | | | | | 2305 | 8.5 | 260 | |
| 12 Tu | 0133 | 5.2 | 160 | | 27 W | 0031 | 6.2 | 190 | | 12 F | 0357 | 5.9 | 180 | | 27 Sa | 0320 | 6.2 | 190 | | 12 M | 0001 | 8.5 | 260 | | 27 Tu | 0447 | 3.0 | 90 | |
| | 0758 | 9.8 | 300 | | | 0732 | 9.2 | 280 | | | 0951 | 9.5 | 290 | | | 0905 | 9.2 | 280 | | | 0525 | 3.9 | 120 | | | 1059 | 8.5 | 260 | |
| | 1552 | 2.0 | 60 | | | 1555 | 2.6 | 80 | | | 1723 | 1.3 | 40 | | | 1638 | 1.6 | 50 | | | 1130 | 8.5 | 260 | | | 1703 | 2.0 | 60 | |
| | 2253 | 6.9 | 210 | | | 2310 | 6.9 | 210 | | | | | | | | 2335 | 7.9 | 240 | | | 1745 | 2.3 | 70 | | | 2332 | 8.9 | 270 | |
| 13 W | 0247 | 5.6 | 170 | | 28 Th | 0215 | 6.6 | 200 | | 13 Sa | 0022 | 8.2 | 250 | | 28 Su | 0415 | 5.6 | 170 | | 13 Tu | 0021 | 8.5 | 260 | | 28 W | 0530 | 2.0 | 60 | |
| | 0857 | 9.8 | 300 | | | 0831 | 9.5 | 290 | | | 0450 | 5.6 | 170 | | | 1006 | 9.5 | 290 | | | 0558 | 3.6 | 110 | | | 1154 | 8.9 | 270 | |
| | 1651 | 1.3 | 40 | | | 1640 | 2.0 | 60 | | | 1047 | 9.8 | 300 | | | 1711 | 1.3 | 40 | | | 1211 | 8.5 | 260 | | | 1740 | 2.3 | 70 | |
| | 2355 | 7.5 | 230 | | | 2347 | 7.2 | 220 | | | 1757 | 1.6 | 50 | | | | | | | | 1810 | 2.6 | 80 | | | | | | |
| 14 Th | 0355 | 5.9 | 180 | | 29 F | 0331 | 6.6 | 200 | | 14 Su | 0051 | 8.2 | 250 | | 29 M | 0001 | 8.5 | 260 | | 14 W | 0038 | 8.9 | 270 | | 29 Th | 0001 | 9.5 | 290 | |
| | 0955 | 9.8 | 300 | | | 0927 | 9.8 | 300 | | | 0534 | 4.9 | 150 | | | 0500 | 4.6 | 140 | | | 0628 | 3.3 | 100 | | | 0612 | 1.3 | 40 | |
| | 1741 | 1.0 | 30 | | | 1717 | 1.6 | 50 | | | 1135 | 9.8 | 300 | | | 1102 | 9.8 | 300 | | | 1249 | 8.5 | 260 | | | 1250 | 8.5 | 260 | |
| | | | | | | | | | | | 1826 | 1.6 | 50 | | | 1743 | 1.3 | 40 | | | 1834 | 3.3 | 100 | | | 1817 | 2.6 | 80 | |
| 15 F ○ | 0043 | 7.9 | 240 | | 30 Sa | 0018 | 7.9 | 240 | | 15 M | 0115 | | | | | | | | | | | | | | | | | | |

Ras At Tannurah, Persian Gulf, Saudi Arabia, 2011

Times and Heights of High and Low Waters

| January | | | | February | | | | March | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|--------|------|------|----------|-----------------|------|--------|-------|------|-----------------|------|------|--------|-----|-----------------|------|------|------|-----|-----------------|------|------|------|-----|-----------------|------|------|-----|------|-----|-----|
| Time | Height | | Time | Height | | Time | Height | | Time | Height | | Time | Height | | | | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | | | | | | | | |
| 1 Sa | 0124 | 5.5 | 168 | | 16 Su | 0040 | 4.8 | 146 | | 1 Tu | 0326 | 5.4 | 165 | | 16 W | 0232 | 5.1 | 155 | | 1 Tu | 0211 | 5.0 | 152 | | 16 W | 0046 | 4.9 | 149 | | | |
| | 0802 | 1.4 | 43 | | | 0729 | 1.8 | 55 | | | 0953 | 1.1 | 34 | | | 0900 | 1.1 | 34 | | | 0844 | 1.5 | 46 | | | 0720 | 1.5 | 46 | | | |
| | 1441 | 5.9 | 180 | | | 1414 | 5.2 | 158 | | | 1634 | 6.3 | 192 | | | 1545 | 6.0 | 183 | | | 1533 | 5.8 | 177 | | | 1411 | 5.6 | 171 | | | |
| | 2104 | 3.0 | 91 | | | 2030 | 3.3 | 101 | | | 2300 | 2.5 | 76 | | | 2206 | 2.6 | 79 | | | 2157 | 2.7 | 82 | | | 2038 | 2.8 | 85 | | | |
| 2 Su | 0233 | 5.5 | 168 | | 17 M | 0157 | 4.9 | 149 | | 2 W | 0415 | 5.6 | 171 | | 17 Th | 0331 | 5.6 | 171 | | 2 W | 0312 | 5.3 | 162 | | 17 Th | 0204 | 5.3 | 162 | | | |
| | 0904 | 1.2 | 37 | | | 0832 | 1.5 | 46 | | | 1038 | 0.9 | 27 | | | 0952 | 0.7 | 21 | | | 0938 | 1.3 | 40 | | | 0828 | 1.2 | 37 | | | |
| | 1546 | 6.3 | 192 | | | 1520 | 5.7 | 174 | | | 1713 | 6.5 | 198 | | | 1629 | 6.5 | 198 | | | 1615 | 6.1 | 186 | | | 1509 | 6.0 | 183 | | | |
| | 2213 | 2.9 | 88 | | | 2141 | 3.1 | 94 | | | 2334 | 2.3 | 70 | | | 2247 | 2.0 | 61 | | | 2235 | 2.3 | 70 | | | 2129 | 2.2 | 67 | | | |
| 3 M | 0333 | 5.6 | 171 | | 18 Tu | 0301 | 5.2 | 158 | | 3 Th | 0457 | 5.8 | 177 | | 18 F | 0421 | 6.1 | 186 | | 3 Th | 0359 | 5.6 | 171 | | 18 F | 0306 | 5.8 | 177 | | | |
| | 0958 | 1.0 | 30 | | | 0927 | 1.2 | 37 | | | 1114 | 0.7 | 21 | | | 1038 | 0.3 | 9 | | | 1020 | 1.0 | 30 | | | 0924 | 0.8 | 24 | | | |
| | 1638 | 6.6 | 201 | | | 1611 | 6.1 | 186 | | | 1746 | 6.6 | 201 | | | 1709 | 6.9 | 210 | | | 1650 | 6.2 | 189 | | | 1556 | 6.5 | 198 | | | |
| | 2306 | 2.7 | 82 | | | 2233 | 2.8 | 85 | | ● | | | | | ○ | 2325 | 1.5 | 46 | | | 2305 | 2.0 | 61 | | | 2213 | 1.6 | 49 | | | |
| 4 Tu | 0424 | 5.8 | 177 | | 19 W | 0354 | 5.5 | 168 | | 4 F | 0003 | 2.0 | 61 | | 19 Sa | 0507 | 6.6 | 201 | | 4 F | 0438 | 5.8 | 177 | | 19 Sa | 0359 | 6.4 | 195 | | | |
| | 1044 | 0.8 | 24 | | | 1015 | 0.8 | 24 | | | 0533 | 6.0 | 183 | | | 1121 | 0.1 | 3 | | | 1054 | 0.9 | 27 | | | 1013 | 0.5 | 15 | | | |
| | 1723 | 6.8 | 207 | | | 1654 | 6.6 | 201 | | | 1145 | 0.7 | 21 | | | 1748 | 7.2 | 219 | | | 1719 | 6.3 | 192 | | | 1638 | 6.8 | 207 | | | |
| | 2348 | 2.6 | 79 | | | 2315 | 2.4 | 73 | | | 1815 | 6.6 | 201 | | | ● | | | | | ● | 2331 | 1.7 | 52 | | | 2253 | 1.1 | 34 | | |
| 5 W | 0509 | 6.0 | 183 | | 20 Th | 0441 | 5.9 | 180 | | 5 Sa | 0028 | 1.8 | 55 | | 20 Su | 0003 | 1.1 | 34 | | 5 Sa | 0512 | 6.0 | 183 | | 20 Su | 0448 | 6.8 | 207 | | | |
| | 1125 | 0.7 | 21 | | | 1058 | 0.4 | 12 | | | 0606 | 6.1 | 186 | | | 0553 | 6.9 | 210 | | | 1123 | 0.9 | 27 | | | 1059 | 0.4 | 12 | | | |
| | 1802 | 6.9 | 210 | | | 1734 | 7.0 | 213 | | | 1214 | 0.7 | 21 | | | 1203 | 0.1 | 3 | | | 1745 | 6.4 | 195 | | | 1719 | 7.1 | 216 | | | |
| | | | | | | ○ | 2353 | 2.1 | 64 | | | 1842 | 6.6 | 201 | | | 1827 | 7.3 | 223 | | | 2355 | 1.5 | 46 | | | 2332 | 0.7 | 21 | | |
| 6 Th | 0023 | 2.4 | 73 | | 21 F | 0525 | 6.3 | 192 | | 6 Su | 0053 | 1.6 | 49 | | 21 M | 0040 | 0.8 | 24 | | 6 Su | 0543 | 6.2 | 189 | | 21 M | 0535 | 7.2 | 219 | | | |
| | 0549 | 6.1 | 186 | | | 1140 | 0.2 | 6 | | | 0638 | 6.1 | 186 | | | 0638 | 7.0 | 213 | | | 1150 | 0.9 | 27 | | | 1144 | 0.6 | 18 | | | |
| | 1202 | 0.7 | 21 | | | 1813 | 7.2 | 219 | | | 1242 | 0.8 | 24 | | | 1244 | 0.3 | 9 | | | 1810 | 6.3 | 192 | | | 1759 | 7.1 | 216 | | | |
| | 1837 | 6.9 | 210 | | | | | | | | 1908 | 6.5 | 198 | | | 1906 | 7.2 | 219 | | | | | | | | | | | | | |
| 7 F | 0055 | 2.3 | 70 | | 22 Sa | 0030 | 1.7 | 52 | | 7 M | 0118 | 1.5 | 46 | | 22 Tu | 0119 | 0.6 | 18 | | 7 M | 0018 | 1.3 | 40 | | 22 Tu | 0011 | 0.4 | 12 | | | |
| | 0626 | 6.1 | 186 | | | 0609 | 6.6 | 201 | | | 0709 | 6.1 | 186 | | | 0724 | 7.0 | 213 | | | 0614 | 6.2 | 189 | | | 0622 | 7.3 | 223 | | | |
| | 1235 | 0.7 | 21 | | | 1220 | 0.1 | 3 | | | 1310 | 0.9 | 27 | | | 1326 | 0.8 | 24 | | | 1217 | 1.0 | 30 | | | 1227 | 0.9 | 27 | | | |
| | 1909 | 6.8 | 207 | | | 1852 | 7.3 | 223 | | | 1934 | 6.3 | 192 | | | 1945 | 6.9 | 210 | | | 1835 | 6.3 | 192 | | | 1839 | 7.0 | 213 | | | |
| 8 Sa | 0124 | 2.1 | 64 | | 23 Su | 0108 | 1.5 | 46 | | 8 Tu | 0145 | 1.4 | 43 | | 23 W | 0201 | 0.6 | 18 | | 8 Tu | 0042 | 1.2 | 37 | | 23 W | 0052 | 0.4 | 12 | | | |
| | 0701 | 6.0 | 183 | | | 0654 | 6.7 | 204 | | | 0742 | 6.0 | 183 | | | 0812 | 6.8 | 207 | | | 0644 | 6.3 | 192 | | | 0709 | 7.3 | 223 | | | |
| | 1307 | 0.8 | 24 | | | 1301 | 0.2 | 6 | | | 1339 | 1.2 | 37 | | | 1411 | 1.4 | 43 | | | 1243 | 1.2 | 37 | | | 1312 | 1.4 | 43 | | | |
| | 1940 | 6.6 | 201 | | | 1931 | 7.3 | 223 | | | 2000 | 6.1 | 186 | | | 2027 | 6.5 | 198 | | | 1859 | 6.2 | 189 | | | 1920 | 6.8 | 207 | | | |
| 9 Su | 0154 | 2.0 | 61 | | 24 M | 0147 | 1.3 | 40 | | 9 W | 0214 | 1.4 | 43 | | 24 Th | 0246 | 0.8 | 24 | | 9 W | 0108 | 1.1 | 34 | | 24 Th | 0135 | 0.5 | 15 | | | |
| | 0736 | 5.9 | 180 | | | 0740 | 6.6 | 201 | | | 0816 | 5.8 | 177 | | | 0905 | 6.3 | 192 | | | 0715 | 6.2 | 189 | | | 0757 | 7.0 | 213 | | | |
| | 1339 | 1.0 | 30 | | | 1343 | 0.5 | 15 | | | 1409 | 1.6 | 49 | | | 1500 | 2.1 | 64 | | | 1310 | 1.5 | 46 | | | 1359 | 2.0 | 61 | | | |
| | 2010 | 6.4 | 195 | | | 2011 | 7.0 | 213 | | | 2028 | 5.9 | 180 | | | 2112 | 6.0 | 183 | | | 1925 | 6.1 | 186 | | | 2003 | 6.4 | 195 | | | |
| 10 M | 0226 | 1.9 | 58 | | 25 Tu | 0229 | 1.2 | 37 | | 10 Th | 0247 | 1.5 | 46 | | 25 F | 0339 | 1.1 | 34 | | 10 Th | 0135 | 1.2 | 37 | | 25 F | 0221 | 0.8 | 24 | | | |
| | 0812 | 5.8 | 177 | | | 0828 | 6.5 | 198 | | | 0855 | 5.6 | 171 | | | 1005 | 5.9 | 180 | | | 0749 | 6.1 | 186 | | | 0850 | 6.6 | 201 | | | |
| | 1412 | 1.3 | 40 | | | 1427 | 1.1 | 34 | | | 1442 | 2.0 | 61 | | | 1602 | 2.8 | 85 | | | 1339 | 1.9 | 58 | | | 1452 | 2.6 | 79 | | | |
| | 2041 | 6.1 | 186 | | | 2053 | 6.7 | 204 | | | 2100 | 5.6 | 171 | | | ○ | 2206 | 5.5 | 168 | | | 1953 | 5.9 | 180 | | | 2051 | 5.9 | 180 | | |
| 11 Tu | 0300 | 1.9 | 58 | | 26 W | 0316 | 1.2 | 37 | | 11 F | 0326 | 1.6 | 49 | | 26 Sa | 0444 | 1.5 | 46 | | 11 F | 0206 | 1.3 | 40 | | 26 Sa | 0315 | 1.2 | 37 | | | |
| | 0851 | 5.6 | 171 | | | 0922 | 6.1 | 186 | | | 0941 | 5.3 | 162 | | | 1122 | 5.5 | 168 | | | 0827 | 5.9 | 180 | | | 0950 | 6.0 | 183 | | | |
| | 1448 | 1.6 | 49 | | | 1516 | 1.7 | 52 | | | 1521 | 2.5 | 76 | | | 1742 | 3.3 | 101 | | | 1410 | 2.3 | 70 | | | 1602 | 3.1 | 94 | | | |
| | 2113 | 5.8 | 177 | | | ○ | 2139 | 6.2 | 189 | | | ○ | 2138 | 5.3 | 162 | | | 2318 | 5.1 | 155 | | | 2025 | 5.6 | 171 | | | ○ | 2147 | 5.5 | 168 |
| 12 W | 0339 | 1.9 | 58 | | 27 Th | 0409 | 1.3 | 40 | | 12 Sa | 0415 | 1.8 | 55 | | 27 Su | 0606 | 1.7 | 52 | | 12 Sa | 0244 | 1.5 | 46 | | 27 Su | 0420 | 1.6 | 49 | | | |
| | 0935 | 5.3 | 162 | | | 1024 | 5.8 | 177 | | | 1039 | 5.1 | 155 | | | 1302 | 5.3 | 162 | | | 0911 | 5.6 | 171 | | | 1104 | 5.6 | 171 | | | |
| | 1528 | 2.1 | 64 | | | 1616 | 2.5 | 76 | | | 1616 | 3.0 | 91 | | | 1944 | 3.4 | 104 | | | 1449 | 2.7 | 82 | | | 1740 | 3.3 | 101 | | | |
| | ○ | 2149 | 5.5 | 168 | | | 2233 | 5.7 | 174 | | | 2229 | 5.0 | 152 | | | | | | | 2105 | 5.4 | 165 | | | 2259 | 5.1 | 155 | | | |
| 13 Th | 0424 | 1.9 | 58 | | 28 F | 0513 | 1.5 | 46 | | 13 Su | 0521 | 1.9 | 58 | | 28 M | 0048 | 4.9 | 149 | | 13 Su | 0331 | 1.7 | 52 | | 28 M | 0539 | 1.9 | 58 | | | |
| | 1026 | 5.1 | 155 | | | 1140 | | | | | | | | | | | | | | | | | | | | | | | | | |

Ras At Tannurah, Persian Gulf, Saudi Arabia, 2011

Times and Heights of High and Low Waters

| April | | | | May | | | | June | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|--------|-----|-----|------|-----------------|------|-----|------|--------|-----------------|------|------|--------|----|-----------------|------|-----|-----|----|-----------------|------|-----|-----|------|-----------------|------|-----|-----|--|------|-----|----|--|
| Time | Height | | | Time | Height | | | Time | Height | | | Time | Height | | | | | | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | | | | | |
| 1 F | 0333 | 5.6 | 171 | | 16 Sa | 0241 | 6.0 | 183 | | 1 Su | 0341 | 5.8 | 177 | | 16 M | 0320 | 6.7 | 204 | | 1 W | 0436 | 6.4 | 195 | | 16 Th | 0503 | 7.4 | 226 | | | | | |
| | 0949 | 1.4 | 43 | | | 0854 | 1.2 | 37 | | | 0950 | 2.0 | 61 | | | 0928 | 2.1 | 64 | | | 1047 | 2.9 | 88 | | | 1123 | 3.0 | 91 | | | | | |
| | 1613 | 6.0 | 183 | | | 1519 | 6.4 | 195 | | | 1601 | 5.8 | 177 | | | 1534 | 6.5 | 198 | | | 1631 | 5.9 | 180 | | | 1656 | 6.6 | 201 | | 2314 | 1.0 | 30 | |
| | 2225 | 1.8 | 55 | | | 2136 | 1.3 | 40 | | | 2210 | 1.6 | 49 | | | 2152 | 0.9 | 27 | | | 2245 | 1.5 | 46 | | | 2321 | 1.4 | 43 | | | | | |
| 2 Sa | 0412 | 5.8 | 177 | | 17 Su | 0338 | 6.6 | 201 | | 2 M | 0420 | 6.1 | 186 | | 17 Tu | 0416 | 7.1 | 216 | | 2 Th | 0514 | 6.6 | 201 | | 17 F | 0551 | 7.5 | 229 | | | | | |
| | 1025 | 1.4 | 43 | | | 0948 | 1.2 | 37 | | | 1028 | 2.1 | 64 | | | 1026 | 2.2 | 67 | | | 1127 | 2.9 | 88 | | | 1212 | 2.9 | 88 | | | | | |
| | 1643 | 6.0 | 183 | | | 1605 | 6.7 | 204 | | | 1632 | 5.9 | 180 | | | 1623 | 6.6 | 201 | | | 1707 | 6.0 | 183 | | | 1743 | 6.7 | 204 | | | | | |
| | 2252 | 1.5 | 46 | | | 2220 | 0.9 | 27 | | | 2241 | 1.4 | 43 | | | 2239 | 0.7 | 21 | | | 2321 | 1.4 | 43 | | | | | | | | | | |
| 3 Su | 0447 | 6.1 | 186 | | 18 M | 0430 | 7.0 | 213 | | 3 Tu | 0456 | 6.3 | 192 | | 18 W | 0508 | 7.4 | 226 | | 3 F | 0552 | 6.8 | 207 | | 18 Sa | 0600 | 1.0 | 30 | | | | | |
| | 1056 | 1.4 | 43 | | | 1039 | 1.2 | 37 | | | 1103 | 2.2 | 67 | | | 1120 | 2.3 | 70 | | | 1205 | 3.0 | 91 | | | 0636 | 7.5 | 229 | | | | | |
| | 1710 | 6.1 | 186 | | | 1649 | 6.9 | 210 | | | 1702 | 5.9 | 180 | | | 1711 | 6.7 | 204 | | | 1743 | 6.2 | 189 | | | 1256 | 2.9 | 88 | | | | | |
| | 2318 | 1.3 | 40 | | | 2303 | 0.5 | 15 | | | 2312 | 1.3 | 40 | | | 2326 | 0.6 | 18 | | | 2356 | 1.3 | 40 | | | 1828 | 6.7 | 204 | | | | | |
| 4 M | 0519 | 6.2 | 189 | | 19 Tu | 0519 | 7.4 | 226 | | 4 W | 0531 | 6.5 | 198 | | 19 Th | 0558 | 7.5 | 229 | | 4 Sa | 0629 | 7.0 | 213 | | 19 Su | 0718 | 7.4 | 226 | | | | | |
| | 1126 | 1.4 | 43 | | | 1128 | 1.4 | 43 | | | 1137 | 2.3 | 70 | | | 1212 | 2.5 | 76 | | | 1243 | 3.0 | 91 | | | 0718 | 7.4 | 226 | | | | | |
| | 1736 | 6.1 | 186 | | | 1732 | 6.9 | 210 | | | 1732 | 6.0 | 180 | | | 1757 | 6.7 | 204 | | | 1821 | 6.3 | 192 | | | 1337 | 2.9 | 88 | | | | | |
| | 2343 | 1.2 | 37 | | | 2345 | 0.4 | 12 | | | 2342 | 1.3 | 40 | | | | | | | | | | | 1910 | | 6.6 | 201 | | | | | | |
| 5 Tu | 0551 | 6.4 | 195 | | 20 W | 0608 | 7.5 | 229 | | 5 Th | 0605 | 6.6 | 201 | | 20 F | 0611 | 0.7 | 21 | | 5 Su | 0708 | 7.0 | 213 | | 20 M | 0759 | 7.2 | 219 | | | | | |
| | 1154 | 1.6 | 49 | | | 1215 | 1.7 | 52 | | | 1210 | 2.5 | 76 | | | 1302 | 2.7 | 82 | | | 1320 | 3.0 | 91 | | | 1417 | 2.8 | 85 | | | | | |
| | 1802 | 6.1 | 186 | | | 1815 | 6.8 | 207 | | | 1803 | 6.0 | 183 | | | 1842 | 6.6 | 201 | | | 1901 | 6.3 | 192 | | | 1952 | 6.4 | 195 | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 W | 0009 | 1.1 | 34 | | 21 Th | 0028 | 0.4 | 12 | | 6 F | 0013 | 1.2 | 37 | | 21 Sa | 0057 | 0.9 | 27 | | 6 M | 0111 | 1.2 | 37 | | 21 Tu | 0203 | 1.5 | 46 | | | | | |
| | 0622 | 6.4 | 195 | | | 0656 | 7.4 | 226 | | | 0640 | 6.7 | 204 | | | 0733 | 7.3 | 223 | | | 0748 | 7.0 | 213 | | | 0838 | 6.9 | 210 | | | | | |
| | 1222 | 1.8 | 55 | | | 1303 | 2.1 | 64 | | | 1243 | 2.7 | 82 | | | 1351 | 2.8 | 85 | | | 1401 | 2.9 | 88 | | | 1457 | 2.8 | 85 | | | | | |
| | 1828 | 6.1 | 186 | | | 1859 | 6.6 | 201 | | | 1836 | 6.0 | 183 | | | 1928 | 6.4 | 195 | | | 1944 | 6.3 | 192 | | | 2035 | 6.2 | 189 | | | | | |
| 7 Th | 0036 | 1.1 | 34 | | 22 F | 0113 | 0.6 | 18 | | 7 Sa | 0045 | 1.3 | 40 | | 22 Su | 0143 | 1.2 | 37 | | 7 Tu | 0152 | 1.3 | 40 | | 22 W | 0243 | 1.8 | 55 | | | | | |
| | 0654 | 6.4 | 195 | | | 0745 | 7.2 | 219 | | | 0717 | 6.7 | 204 | | | 0821 | 7.0 | 213 | | | 0831 | 7.0 | 213 | | | 0917 | 6.6 | 201 | | | | | |
| | 1250 | 2.1 | 64 | | | 1354 | 2.5 | 76 | | | 1318 | 2.8 | 85 | | | 1442 | 3.0 | 91 | | | 1447 | 2.8 | 85 | | | 1538 | 2.8 | 85 | | | | | |
| | 1856 | 6.0 | 183 | | | 1945 | 6.3 | 192 | | | 1912 | 6.0 | 183 | | | 2015 | 6.2 | 189 | | | 2031 | 6.2 | 189 | | | 2119 | 6.0 | 183 | | | | | |
| 8 F | 0105 | 1.2 | 37 | | 23 Sa | 0201 | 1.0 | 30 | | 8 Su | 0122 | 1.3 | 40 | | 23 M | 0231 | 1.5 | 46 | | 8 W | 0238 | 1.4 | 43 | | 23 Th | 0325 | 2.1 | 64 | | | | | |
| | 0729 | 6.4 | 195 | | | 0836 | 6.8 | 207 | | | 0758 | 6.6 | 201 | | | 0909 | 6.6 | 201 | | | 0917 | 6.8 | 207 | | | 0956 | 6.3 | 192 | | | | | |
| | 1321 | 2.4 | 73 | | | 1451 | 2.9 | 88 | | | 1359 | 2.9 | 88 | | | 1535 | 3.0 | 91 | | | 1538 | 2.7 | 82 | | | 1623 | 2.7 | 82 | | | | | |
| | 1928 | 5.9 | 180 | | | 2034 | 6.0 | 183 | | | 1953 | 5.9 | 180 | | | 2105 | 5.9 | 180 | | | 2125 | 6.1 | 186 | | | 2209 | 5.7 | 174 | | | | | |
| 9 Sa | 0138 | 1.3 | 40 | | 24 Su | 0254 | 1.4 | 43 | | 9 M | 0203 | 1.4 | 43 | | 24 Tu | 0321 | 1.8 | 55 | | 9 Th | 0330 | 1.7 | 52 | | 24 F | 0412 | 2.5 | 76 | | | | | |
| | 0808 | 6.2 | 189 | | | 0933 | 6.3 | 192 | | | 0844 | 6.4 | 195 | | | 1000 | 6.3 | 192 | | | 1008 | 6.6 | 201 | | | 1040 | 6.0 | 183 | | | | | |
| | 1356 | 2.7 | 82 | | | 1558 | 3.1 | 94 | | | 1448 | 3.0 | 91 | | | 1630 | 3.0 | 91 | | | 1634 | 2.5 | 76 | | | 1712 | 2.7 | 82 | | | | | |
| | 2004 | 5.7 | 174 | | | 2129 | 5.6 | 171 | | | 2040 | 5.8 | 177 | | | 2159 | 5.6 | 171 | | | 2226 | 6.0 | 183 | | | 2305 | 5.5 | 168 | | | | | |
| 10 Su | 0217 | 1.4 | 43 | | 25 M | 0354 | 1.7 | 52 | | 10 Tu | 0252 | 1.5 | 46 | | 25 W | 0415 | 2.1 | 64 | | 10 F | 0428 | 2.0 | 61 | | 25 Sa | 0506 | 2.9 | 88 | | | | | |
| | 0854 | 6.0 | 183 | | | 1037 | 5.9 | 180 | | | 0935 | 6.3 | 192 | | | 1054 | 6.0 | 183 | | | 1103 | 6.4 | 195 | | | 1128 | 5.7 | 174 | | | | | |
| | 1440 | 2.9 | 88 | | | 1714 | 3.2 | 98 | | | 1550 | 3.0 | 91 | | | 1727 | 2.9 | 88 | | | 1735 | 2.3 | 70 | | | 1806 | 2.6 | 79 | | | | | |
| | 2048 | 5.5 | 168 | | | 2234 | 5.3 | 162 | | | 2137 | 5.6 | 171 | | | 2300 | 5.4 | 165 | | | 2334 | 6.0 | 183 | | | | | | | | | | |
| 11 M | 0307 | 1.6 | 49 | | 26 Tu | 0501 | 2.0 | 61 | | 11 W | 0350 | 1.6 | 49 | | 26 Th | 0513 | 2.3 | 70 | | 11 Sa | 0535 | 2.4 | 73 | | 26 Su | 0610 | 3.2 | 98 | | | | | |
| | 0949 | 5.8 | 177 | | | 1150 | 5.7 | 174 | | | 1034 | 6.1 | 186 | | | 1151 | 5.7 | 174 | | | 1204 | 6.3 | 192 | | | 1225 | 5.5 | 168 | | | | | |
| | 1545 | 3.2 | 98 | | | 1828 | 3.1 | 94 | | | 1701 | 2.9 | 88 | | | 1822 | 2.7 | 82 | | | 1838 | 2.0 | 61 | | | 1902 | 2.5 | 76 | | | | | |
| | 2145 | 5.3 | 162 | | | 2349 | 5.1 | 155 | | | 2243 | 5.5 | 168 | | | | | | | | | | | | | | | | | | | | |
| 12 Tu | 0410 | 1.7 | 52 | | 27 W | 0613 | 2.1 | 64 | | 12 Th | 0456 | 1.8 | 55 | | 27 F | 0606 | 5.3 | 162 | | 12 Su | 0649 | 6.1 | 186 | | 27 M | 0723 | 3.4 | 104 | | | | | |
| | 1056 | 5.6 | 171 | | | 1302 | 5.6 | 171 | | | 1138 | 6.1 | 186 | | | 1248 | 5.6 | 171 | | | 1308 | 6.2 | 189 | | | 1327 | 5.5 | 168 | | | | | |
| | 1717 | 3.2 | 98 | | | 1930 | 2.8 | 85 | | | 1811 | 2.6 | 79 | | | 1914 | 2.5 | 76 | | | 1939 | 1.8 | 55 | | | 1957 | 2.3 | 70 | | | | | |
| | 2258 | 5.1 | 155 | | | | | | | | 2357 | 5.6 | 171 | | | | | | | | | | | | | | | | | | | | |
| 13 W | 0525 | 1.7 | 52 | | 28 Th | 0103 | 5.1 | 155 | | 13 F | 0607 | 1.9 | 58 | | 28 Sa | 0717 | 2.7 | 82 | | 13 M | | | | | | | | | | | | | |

Ras At Tannurah, Persian Gulf, Saudi Arabia, 2011

Times and Heights of High and Low Waters

| July | | | | August | | | | September | | | | | | | | | | | | | | | | |
|---------------------|--------|-----|-----------------|-----------------|------|------|--------|-----------------|------|----------------|------|-----------------|--------|-----|-----|-----------------|---------------|------|-----|-----------------|------|-----------------|------|------|
| Time | Height | | Time | Height | | Time | Height | | Time | Height | | Time | Height | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | |
| 1 F ● | 0459 | 6.8 | 207 | 16 Sa | 0542 | 7.5 | 229 | 1 M | 0553 | 7.6 | 232 | 16 Tu | 0001 | 1.5 | 46 | | | | | | | | | |
| | 1117 | 3.3 | 101 | | 1203 | 3.0 | 91 | | 1207 | 2.6 | 79 | | 0626 | 7.3 | 223 | 1 Th | 0019 | 1.2 | 37 | | | | | |
| | 1645 | 6.2 | 189 | | 1731 | 6.8 | 207 | | 1748 | 7.2 | 219 | | 1235 | 2.4 | 73 | | 0639 | 7.8 | 238 | 16 F | 0030 | 2.4 | 73 | |
| | 2303 | 1.5 | 46 | | 2348 | 1.3 | 40 | | | | | | 1824 | 7.0 | 213 | | 1249 | 1.5 | 46 | | 1857 | 7.9 | 241 | 0101 | 1.6 | 49 |
| 2 Sa | 0538 | 7.1 | 216 | 17 Su | 0621 | 7.5 | 229 | 2 Tu | 0001 | 1.0 | 30 | 17 W | 0030 | 1.6 | 49 | | 2 F | 0101 | 1.6 | | 49 | 17 Sa | 0058 | 2.4 | 73 |
| | 1156 | 3.1 | 94 | | 1238 | 2.8 | 85 | | 0629 | 7.7 | 235 | | 0654 | 7.2 | 219 | 0718 | | 7.6 | 232 | | 0710 | | 6.6 | 201 |
| | 1726 | 6.5 | 198 | | 1811 | 6.9 | 210 | | 1242 | 2.3 | 70 | | 1301 | 2.3 | 70 | 1329 | | 1.4 | 43 | 1316 | 2.0 | | 61 | |
| | 2341 | 1.3 | 40 | | | | | | 1831 | 7.4 | 226 | | 1856 | 7.0 | 213 | 1945 | | 7.7 | 235 | 1934 | 6.9 | | 210 | |
| 3 Su | 0615 | 7.3 | 223 | 18 M | 0024 | 1.3 | 40 | 3 W | 0039 | 1.1 | 34 | 18 Th | 0058 | 1.8 | 55 | 3 Sa | 0145 | 2.1 | 64 | 18 Su | 0128 | 2.7 | 82 | |
| | 1232 | 2.9 | 88 | | 0656 | 7.4 | 226 | | 0707 | 7.8 | 238 | | 0721 | 7.0 | 213 | | 0800 | 7.3 | 223 | | 0738 | 6.5 | 198 | |
| | 1806 | 6.7 | 204 | | 1310 | 2.7 | 82 | | 1319 | 2.0 | 61 | | 1328 | 2.2 | 67 | | 1414 | 1.6 | 49 | | 1348 | 2.1 | 64 | |
| | | | | | 1848 | 6.9 | 210 | | 1915 | 7.4 | 226 | | 1929 | 6.9 | 210 | | 2036 | 7.4 | 226 | | 2011 | 6.7 | 204 | |
| 4 M | 0019 | 1.1 | 34 | 19 Tu | 0058 | 1.4 | 43 | 4 Th | 0120 | 1.3 | 40 | 19 F | 0128 | 2.1 | 64 | 4 Su | 0234 | 2.8 | 85 | 19 M | 0201 | 3.1 | 94 | |
| | 0653 | 7.5 | 229 | | 0729 | 7.3 | 223 | | 0746 | 7.6 | 232 | | 0748 | 6.8 | 207 | | 0845 | 6.9 | 210 | | 0811 | 6.2 | 189 | |
| | 1308 | 2.7 | 82 | | 1341 | 2.6 | 79 | | 1359 | 1.9 | 58 | | 1357 | 2.2 | 67 | | 1506 | 1.8 | 55 | | 1425 | 2.3 | 70 | |
| | 1847 | 6.8 | 207 | | 1925 | 6.8 | 207 | | 2001 | 7.4 | 226 | | 2003 | 6.7 | 204 | | 2134 | 7.0 | 213 | | 2054 | 6.4 | 195 | |
| 5 Tu | 0058 | 1.1 | 34 | 20 W | 0131 | 1.6 | 49 | 5 F | 0202 | 1.7 | 52 | 20 Sa | 0159 | 2.5 | 76 | 5 M | 0336 | 3.4 | 104 | 20 Tu | 0241 | 3.5 | 107 | |
| | 0731 | 7.5 | 229 | | 0800 | 7.1 | 216 | | 0826 | 7.4 | 226 | | 0816 | 6.6 | 201 | | 0939 | 6.4 | 195 | | 0851 | 5.9 | 180 | |
| | 1346 | 2.6 | 79 | | 1412 | 2.5 | 76 | | 1443 | 1.9 | 58 | | 1430 | 2.3 | 70 | | 1609 | 2.2 | 67 | | 1513 | 2.5 | 76 | |
| | 1931 | 6.9 | 210 | | 2001 | 6.6 | 201 | | 2052 | 7.1 | 216 | | 2041 | 6.5 | 198 | | 2245 | 6.5 | 198 | | 2147 | 6.1 | 186 | |
| 6 W | 0138 | 1.2 | 37 | 21 Th | 0204 | 1.9 | 58 | 6 Sa | 0249 | 2.3 | 70 | 21 Su | 0233 | 2.9 | 88 | 6 Tu | 0507 | 3.9 | 119 | 21 W | 0338 | 3.8 | 116 | |
| | 0811 | 7.4 | 226 | | 0831 | 6.8 | 207 | | 0911 | 7.0 | 213 | | 0848 | 6.3 | 192 | | 1048 | 6.0 | 183 | | 0944 | 5.7 | 174 | |
| | 1427 | 2.4 | 73 | | 1446 | 2.5 | 76 | | 1533 | 2.0 | 61 | | 1510 | 2.5 | 76 | | 1729 | 2.5 | 76 | | 1617 | 2.7 | 82 | |
| | 2018 | 6.8 | 207 | | 2039 | 6.4 | 195 | | 2149 | 6.8 | 207 | | 2125 | 6.2 | 189 | | | | | | 2256 | 5.9 | 180 | |
| 7 Th | 0221 | 1.5 | 46 | 22 F | 0239 | 2.2 | 67 | 7 Su | 0344 | 3.0 | 91 | 22 M | 0314 | 3.4 | 104 | 7 W | 0016 | 6.3 | 192 | 22 Th | 0517 | 4.0 | 122 | |
| | 0853 | 7.2 | 219 | | 0903 | 6.5 | 198 | | 1001 | 6.6 | 201 | | 0927 | 6.0 | 183 | | 0701 | 4.0 | 122 | | 1058 | 5.5 | 168 | |
| | 1513 | 2.3 | 70 | | 1523 | 2.5 | 76 | | 1633 | 2.1 | 64 | | 1559 | 2.7 | 82 | | 1215 | 5.8 | 177 | | 1738 | 2.7 | 82 | |
| | 2109 | 6.7 | 204 | | 2121 | 6.1 | 186 | | 2258 | 6.5 | 198 | | 2220 | 5.9 | 180 | | 1857 | 2.5 | 76 | | | | | |
| 8 F ● | 0308 | 1.9 | 58 | 23 Sa | 0318 | 2.7 | 82 | 8 M | 0458 | 3.6 | 110 | 23 Tu | 0410 | 3.8 | 116 | 8 Th | 0150 | 6.4 | 195 | 23 F | 0022 | 5.8 | 177 | |
| | 0939 | 7.0 | 213 | | 0938 | 6.2 | 189 | | 1104 | 6.2 | 189 | | 1018 | 5.7 | 174 | | 0827 | 3.7 | 113 | | 0704 | 3.9 | 119 | |
| | 1604 | 2.2 | 67 | | 1607 | 2.6 | 79 | | 1745 | 2.3 | 70 | | 1704 | 2.8 | 85 | | 1340 | 5.9 | 180 | | 1225 | 5.5 | 168 | |
| | 2207 | 6.5 | 198 | | 2210 | 5.9 | 180 | | | | | | 2335 | 5.7 | 174 | | 2013 | 2.3 | 70 | | 1858 | 2.5 | 76 | |
| 9 Sa | 0403 | 2.4 | 73 | 24 Su | 0404 | 3.1 | 94 | 9 Tu | 0023 | 6.3 | 192 | 24 W | 0545 | 4.1 | 125 | 9 F | 0258 | 6.6 | 201 | 24 Sa | 0142 | 6.1 | 186 | |
| | 1030 | 6.6 | 201 | | 1019 | 5.9 | 180 | | 0645 | 4.0 | 122 | | 1132 | 5.5 | 168 | | 0924 | 3.4 | 104 | | 0812 | 3.4 | 104 | |
| | 1702 | 2.1 | 64 | | 1659 | 2.7 | 82 | | 1223 | 5.9 | 180 | | 1823 | 2.8 | 85 | | 1446 | 6.2 | 189 | | 1342 | 5.9 | 180 | |
| | 2314 | 6.3 | 192 | | 2309 | 5.7 | 174 | | 1906 | 2.3 | 70 | | | | | | 2113 | 2.1 | 64 | | 2005 | 2.1 | 64 | |
| 10 Su | 0510 | 3.0 | 91 | 25 M | 0505 | 3.6 | 110 | 10 W | 0155 | 6.4 | 195 | 25 Th | 0108 | 5.8 | 177 | 10 Sa | 0347 | 6.8 | 207 | 25 Su | 0241 | 6.5 | 198 | |
| | 1130 | 6.3 | 192 | | 1112 | 5.6 | 171 | | 0829 | 3.9 | 119 | | 0738 | 4.1 | 125 | | 1007 | 3.0 | 91 | | 0902 | 2.9 | 88 | |
| | 1808 | 2.1 | 64 | | 1801 | 2.7 | 82 | | 1346 | 6.0 | 183 | | 1300 | 5.5 | 168 | | 1537 | 6.5 | 198 | | 1443 | 6.4 | 195 | |
| | | | | | | | | | 2022 | 2.1 | 64 | | 1939 | 2.5 | 76 | | 2159 | 1.9 | 58 | | 2100 | 1.7 | 52 | |
| 11 M | 0032 | 6.2 | 189 | 26 Tu | 0026 | 5.6 | 171 | 11 Th | 0310 | 6.7 | 204 | 26 F | 0227 | 6.1 | 186 | 11 Su | 0425 | 7.0 | 213 | 26 M | 0328 | 6.9 | 210 | |
| | 0635 | 3.5 | 107 | | 0630 | 3.9 | 119 | | 0940 | 3.6 | 110 | | 0852 | 3.8 | 116 | | 1040 | 2.6 | 79 | | 0944 | 2.3 | 70 | |
| | 1239 | 6.1 | 186 | | 1223 | 5.5 | 168 | | 1455 | 6.2 | 189 | | 1414 | 5.8 | 177 | | 1618 | 6.7 | 204 | | 1535 | 6.9 | 210 | |
| | 1917 | 2.0 | 61 | | 1910 | 2.6 | 79 | | 2125 | 1.9 | 58 | | 2041 | 2.2 | 67 | | 2236 | 1.7 | 52 | | 2148 | 1.5 | 46 | |
| 12 Tu | 0155 | 6.4 | 195 | 27 W | 0151 | 5.8 | 177 | 12 F | 0405 | 7.0 | 213 | 27 Sa | 0322 | 6.5 | 198 | 12 M | 0457 | 7.0 | 213 | 27 Tu | 0410 | 7.2 | 219 | |
| | 0811 | 3.6 | 110 | | 0806 | 4.0 | 122 | | 1030 | 3.3 | 101 | | 0942 | 3.3 | 101 | | 1108 | 2.4 | 73 | | 1023 | 1.8 | 55 | |
| | 1353 | 6.1 | 186 | | 1340 | 5.5 | 168 | | 1550 | 6.5 | 198 | | 1511 | 6.3 | 192 | | 1655 | 6.9 | 210 | | 1623 | 7.4 | 226 | |
| | 2026 | 1.8 | 55 | | 2015 | 2.4 | 73 | | 2215 | 1.7 | 52 | | 2132 | 1.7 | 52 | | 2307 | 1.7 | 52 | | 2234 | 1.3 | 40 | |
| 13 W | 0309 | 6.7 | 204 | 28 Th | 0302 | 6.1 | 186 | 13 Sa | 0448 | 7.2 | 219 | 28 Su | 0406 | 7.0 | 213 | 13 Tu | 0526 | 7.0 | 213 | 28 W | 0450 | 7.5 | 229 | |
| | 0933 | 3.6 | 110 | | 0921 | 3.8 | 116 | | 1109 | 3.0 | 91 | | 1022 | 2.9 | 88 | | 1134 | 2.1 | 64 | | 1101 | 1.4 | 43 | |
| | 1500 | 6.2 | 189 | | 1445 | 5.8 | 177 | | 1635 | 6.7 | 204 | | 1600 | 6.8 | 207 | | 1728 | 7.0 | 213 | | 1709 | 7.8 | 238 | |
| | 2127 | 1.6 | 49 | | 2111 | 2.1 | 64 | | 2256 | 1.5 | 46 | | 2217 | 1.4 | 43 | | 2336 | 1.8 | 55 | | 2318 | 1.4 | 43 | |
| 14 Th | 0409 | 7.1 | 216 | 29 F | 0354 | 6.5 | 198 | 14 Su | 0525 | 7.3 | 223 | 29 M | 0445 | 7.4 | 226 | 14 W | 0553 | 7.0 | 213 | 29 Th | 0531 | 7.6 | 232 | |
| | 1035 | 3.4 | 104 | | 1013 | 3.5 | 107 | | 1141 | 2.7 | 82 | | 1059 | 2.4 | 73 | | 1158 | 2.0 | 61 | | 1140 | 1.1 | 34 | |
| | 1557 | 6.5 | 198 | | 1538 | 6.1 | 186 | | 1715 | 6.9 | 210 | | 1644 | 7.2 | 219 | | 1759 | 7.1 | 216 | | 1755 | 8.1 | 247 | |
| | 2221 | 1.5 | 46 | | 2159 | 1.7 | 52 | | 2330 | 1.5 | 46 | | 2258 | 1.1 | 34 | | | | | | | | | |
| 15 F ○ | 0459 | 7.3 | 223 | 30 Sa | 0437 | 6.9 | 210 | 15 M | 0557 | 7.4 | 226 | 30 Tu | 0523 | 7.7 | 235 | 15 Th | 0003 | 1.9 | 58 | 30 F | 0001 | 1.6 | 49 | |
| | 1123 | 3.2 | 98 | | 1055 | 3.2 | 98 | | 1209 | 2.5 | 76 | | 1134 | 2.0 | 61 | | 0618 | 6.9 | 210 | | 0611 | 7.6 | 232 | |
| | 1647 | 6.7 | 204 | | 1623 | 6.5 | 198 | | 1750 | 7.0 | 213 | | 1728 | 7.6 | 232 | | 1222 | 1.9 | 58 | | 1221 | 1.0 | 30 | |
| | 2307 | 1.3 | 40 | | 2242 | 1.4 | 43 | | | | | | 2339 | 1.1 | 34 | | 1830 | 7.1 | 216 | | 1842 | 8.1 | 247 | |
| | | | 31 Su | 0516 | 7.3 | 223 | | | | 31 W | 0600 | 7 | | | | | | | | | | | | |

Ras At Tannurah, Persian Gulf, Saudi Arabia, 2011

Times and Heights of High and Low Waters

| October | | | November | | | December | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|--------|-----|----------|-----------------|------|----------|--------|-----------------|------|--------|-----|-----------------|------|-----|-----|-----------------|------|-----|-----|-----------------|------|-----|-----|-----------------|------|-----|-----|------|-----|----|
| Time | Height | | Time | Height | | Time | Height | | Time | Height | | | | | | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | | | | | | | |
| 1 Sa | 0047 | 2.0 | 61 | 16 Su | 0039 | 2.7 | 82 | 1 Tu | 0230 | 3.1 | 94 | 16 W | 0146 | 3.0 | 91 | 1 Th | 0313 | 2.7 | 82 | 16 F | 0221 | 2.4 | 73 | | | | | | | |
| | 0653 | 7.4 | 226 | | 0640 | 6.4 | 195 | | 0810 | 6.4 | 195 | | 0734 | 5.9 | 180 | | 0844 | 6.0 | 183 | | 0806 | 5.9 | 180 | | | | | | | |
| | 1304 | 1.1 | 34 | | 1247 | 1.7 | 52 | | 1426 | 1.5 | 46 | | 1341 | 1.5 | 46 | | 1456 | 1.5 | 46 | | 1407 | 1.1 | 34 | 1407 | 1.1 | 34 | | | | |
| | 1931 | 7.9 | 241 | | 1914 | 6.9 | 210 | | 2107 | 7.0 | 213 | | 2021 | 6.6 | 201 | | 2135 | 6.5 | 198 | | 2046 | 6.6 | 201 | 2046 | 6.6 | 201 | | | | |
| 2 Su | 0135 | 2.5 | 76 | 17 M | 0110 | 2.9 | 88 | 2 W | 0336 | 3.3 | 101 | 17 Th | 0230 | 3.1 | 94 | 2 F | 0407 | 2.7 | 82 | 17 Sa | 0304 | 2.3 | 70 | 17 Su | 0854 | 5.8 | 177 | | | |
| | 0737 | 7.1 | 216 | | 0712 | 6.2 | 189 | | 0906 | 6.0 | 183 | | 0818 | 5.8 | 177 | | 0938 | 5.6 | 171 | | 0854 | 5.8 | 177 | | 0854 | 5.8 | 177 | | | |
| | 1350 | 1.3 | 40 | | 1319 | 1.9 | 58 | | 1526 | 1.9 | 58 | | 1424 | 1.7 | 52 | | 1549 | 1.9 | 58 | | 1452 | 1.4 | 43 | | 1452 | 1.4 | 43 | 1452 | 1.4 | 43 |
| | 2023 | 7.5 | 229 | | 1951 | 6.7 | 204 | | 2209 | 6.5 | 198 | | 2107 | 6.4 | 195 | | 2226 | 6.1 | 186 | | 2131 | 6.4 | 195 | | 2131 | 6.4 | 195 | | | |
| 3 M | 0229 | 3.1 | 94 | 18 Tu | 0145 | 3.2 | 98 | 3 Th | 0450 | 3.3 | 101 | 18 F | 0323 | 3.0 | 91 | 3 Sa | 0504 | 2.7 | 82 | 18 Su | 0354 | 2.1 | 64 | 18 Mo | 0950 | 5.7 | 174 | | | |
| | 0826 | 6.6 | 201 | | 0747 | 6.1 | 186 | | 1011 | 5.7 | 174 | | 0910 | 5.6 | 171 | | 1039 | 5.3 | 162 | | 0950 | 5.7 | 174 | | 0950 | 5.7 | 174 | | | |
| | 1444 | 1.7 | 52 | | 1357 | 2.0 | 61 | | 1634 | 2.2 | 67 | | 1516 | 1.8 | 55 | | 1647 | 2.3 | 70 | | 1544 | 1.7 | 52 | | 1544 | 1.7 | 52 | 1544 | 1.7 | 52 |
| | 2121 | 7.0 | 213 | | 2034 | 6.5 | 198 | | 2318 | 6.2 | 189 | | 2159 | 6.2 | 189 | | 2322 | 5.7 | 174 | | 2220 | 6.2 | 189 | | 2220 | 6.2 | 189 | | | |
| 4 Tu | 0340 | 3.6 | 110 | 19 W | 0229 | 3.4 | 104 | 4 F | 0604 | 3.2 | 98 | 19 Sa | 0427 | 2.9 | 88 | 4 Su | 0600 | 2.5 | 76 | 19 M | 0451 | 2.0 | 61 | 19 Tu | 1054 | 5.6 | 171 | | | |
| | 0922 | 6.2 | 189 | | 0830 | 5.8 | 177 | | 1126 | 5.5 | 168 | | 1011 | 5.5 | 168 | | 1146 | 5.2 | 158 | | 1054 | 5.6 | 171 | | 1054 | 5.6 | 171 | | | |
| | 1549 | 2.1 | 64 | | 1443 | 2.2 | 67 | | 1748 | 2.4 | 73 | | 1617 | 2.0 | 61 | | 1751 | 2.6 | 79 | | 1647 | 2.1 | 64 | | 1647 | 2.1 | 64 | 1647 | 2.1 | 64 |
| | 2232 | 6.5 | 198 | | 2125 | 6.2 | 189 | | 0030 | 6.0 | 183 | | 2258 | 6.1 | 186 | | 0021 | 5.5 | 168 | | 2317 | 5.9 | 180 | | 2317 | 5.9 | 180 | | | |
| 5 W | 0513 | 3.8 | 116 | 20 Th | 0330 | 3.6 | 110 | 5 Sa | 0707 | 2.9 | 88 | 20 Su | 0534 | 2.7 | 82 | 5 M | 0655 | 2.3 | 70 | 20 Tu | 0555 | 1.8 | 55 | 20 W | 1208 | 5.6 | 171 | | | |
| | 1033 | 5.8 | 177 | | 0925 | 5.6 | 171 | | 1242 | 5.4 | 165 | | 1122 | 5.5 | 168 | | 1258 | 5.2 | 158 | | 1208 | 5.6 | 171 | | 1208 | 5.6 | 171 | | | |
| | 1708 | 2.4 | 73 | | 1542 | 2.3 | 70 | | 1859 | 2.5 | 76 | | 1727 | 2.1 | 64 | | 1900 | 2.8 | 85 | | 1802 | 2.5 | 76 | | 1802 | 2.5 | 76 | | | |
| | 2357 | 6.2 | 189 | | 2227 | 6.0 | 183 | | 0134 | 5.9 | 180 | | 2002 | 2.5 | 76 | | 0120 | 5.3 | 162 | | 2007 | 2.9 | 88 | | 2007 | 2.9 | 88 | | | |
| 6 Th | 0646 | 3.7 | 113 | 21 F | 0455 | 3.6 | 110 | 6 Su | 0800 | 2.6 | 79 | 21 M | 0002 | 6.0 | 183 | 6 Tu | 0746 | 2.1 | 64 | 21 W | 0700 | 1.5 | 46 | 21 Th | 1327 | 5.9 | 180 | | | |
| | 1159 | 5.6 | 171 | | 1034 | 5.5 | 168 | | 1349 | 5.6 | 171 | | 1237 | 5.7 | 174 | | 1404 | 5.3 | 162 | | 1327 | 5.9 | 180 | | 1327 | 5.9 | 180 | | | |
| | 1833 | 2.5 | 76 | | 1655 | 2.4 | 73 | | 2002 | 2.5 | 76 | | 1841 | 2.2 | 67 | | 2007 | 2.9 | 88 | | 1928 | 2.8 | 85 | | 1928 | 2.8 | 85 | | | |
| | | | | | 2339 | 6.0 | 183 | | 0225 | 5.9 | 180 | | 0225 | 5.9 | 180 | | 0214 | 5.3 | 162 | | 0214 | 5.3 | 162 | | 0214 | 5.3 | 162 | | | |
| 7 F | 0123 | 6.2 | 189 | 22 Sa | 0620 | 3.3 | 101 | 7 M | 0843 | 2.2 | 67 | 22 Tu | 0106 | 6.1 | 186 | 7 W | 0833 | 1.9 | 58 | 22 Th | 0804 | 1.2 | 37 | 22 F | 1441 | 6.2 | 189 | | | |
| | 0758 | 3.4 | 104 | | 1153 | 5.5 | 168 | | 1444 | 5.8 | 177 | | 0737 | 1.8 | 55 | | 1501 | 5.6 | 171 | | 0804 | 1.2 | 37 | | 1441 | 6.2 | 189 | | | |
| | 1320 | 5.7 | 174 | | 1812 | 2.3 | 70 | | 2054 | 2.5 | 76 | | 1348 | 6.1 | 186 | | 2108 | 2.9 | 88 | | 2052 | 2.8 | 85 | | 2052 | 2.8 | 85 | | | |
| | 1947 | 2.4 | 73 | | 0051 | 6.1 | 186 | | 0307 | 5.9 | 180 | | 2059 | 2.3 | 70 | | 0301 | 5.4 | 165 | | 0301 | 5.4 | 165 | | 0301 | 5.4 | 165 | | | |
| 8 Sa | 0226 | 6.3 | 192 | 23 Su | 0726 | 2.9 | 88 | 8 Tu | 0920 | 2.0 | 61 | 23 W | 0206 | 6.2 | 189 | 8 Th | 0916 | 1.6 | 49 | 23 F | 0905 | 0.9 | 27 | 23 Sa | 1545 | 6.7 | 204 | | | |
| | 0850 | 3.0 | 91 | | 1309 | 5.8 | 177 | | 1530 | 6.1 | 186 | | 0831 | 1.4 | 43 | | 1549 | 5.9 | 180 | | 0905 | 0.9 | 27 | | 1545 | 6.7 | 204 | | | |
| | 1425 | 6.0 | 183 | | 1923 | 2.1 | 64 | | 2139 | 2.4 | 73 | | 1452 | 6.6 | 201 | | 2200 | 2.8 | 85 | | 1545 | 6.7 | 204 | | 1545 | 6.7 | 204 | | | |
| | 2046 | 2.2 | 67 | | 0153 | 6.3 | 192 | | 0343 | 6.0 | 183 | | 2059 | 2.3 | 70 | | 0343 | 5.5 | 168 | | 2204 | 2.8 | 85 | | 2204 | 2.8 | 85 | | | |
| 9 Su | 0313 | 6.4 | 195 | 24 M | 0819 | 2.3 | 70 | 9 W | 0953 | 1.7 | 52 | 24 Th | 0302 | 6.4 | 195 | 9 F | 0956 | 1.5 | 46 | 24 Sa | 0338 | 6.0 | 183 | | | | | | | |
| | 0930 | 2.6 | 79 | | 1414 | 6.3 | 192 | | 1610 | 6.4 | 195 | | 0922 | 1.0 | 30 | | 1631 | 6.2 | 189 | | 1000 | 0.6 | 18 | 1000 | 0.6 | 18 | | | | |
| | 1514 | 6.3 | 192 | | 2025 | 1.9 | 58 | | 2219 | 2.5 | 76 | | 1550 | 7.1 | 216 | | 2245 | 2.8 | 85 | | 1641 | 7.1 | 216 | 1641 | 7.1 | 216 | | | | |
| | 2132 | 2.1 | 64 | | 0247 | 6.6 | 201 | | 0416 | 6.0 | 183 | | 2200 | 2.3 | 70 | | 0421 | 5.6 | 171 | | 2303 | 2.6 | 79 | 2303 | 2.6 | 79 | | | | |
| 10 M | 0350 | 6.5 | 198 | 25 Tu | 0906 | 1.8 | 55 | 10 Th | 1025 | 1.5 | 46 | 25 F | 0354 | 6.5 | 198 | 10 Sa | 1034 | 1.3 | 40 | 25 Su | 0432 | 6.2 | 189 | | | | | | | |
| | 1003 | 2.2 | 67 | | 1511 | 6.9 | 210 | | 1646 | 6.6 | 201 | | 1011 | 0.7 | 21 | | 1708 | 6.5 | 198 | | 1051 | 0.5 | 15 | 1051 | 0.5 | 15 | | | | |
| | 1556 | 6.5 | 198 | | 2121 | 1.8 | 55 | | 2255 | 2.5 | 76 | | 1644 | 7.5 | 229 | | 2325 | 2.8 | 85 | | 1730 | 7.3 | 223 | 1730 | 7.3 | 223 | | | | |
| | 2209 | 2.0 | 61 | | 0334 | 6.9 | 210 | | 0448 | 6.0 | 183 | | 2257 | 2.4 | 73 | | 0457 | 5.7 | 174 | | 2353 | 2.4 | 73 | 2353 | 2.4 | 73 | | | | |
| 11 Tu | 0422 | 6.6 | 201 | 26 W | 0949 | 1.3 | 40 | 11 F | 1056 | 1.4 | 43 | 26 Sa | 0444 | 6.7 | 204 | 11 Su | 1110 | 1.2 | 37 | 26 M | 0521 | 6.4 | 195 | | | | | | | |
| | 1032 | 2.0 | 61 | | 1604 | 7.4 | 226 | | 1720 | 6.8 | 207 | | 1059 | 0.5 | 15 | | 1743 | 6.7 | 204 | | 1138 | 0.4 | 12 | 1138 | 0.4 | 12 | | | | |
| | 1632 | 6.7 | 204 | | 2212 | 1.8 | 55 | | 2329 | 2.6 | 79 | | 1734 | 7.7 | 235 | | 2350 | 2.4 | 73 | | 1816 | 7.4 | 226 | 1816 | 7.4 | 226 | | | | |
| | 2242 | 2.0 | 61 | | 0420 | 7.1 | 216 | | 0518 | 6.1 | 186 | | 2044 | 6.7 | 204 | | 0532 | 6.7 | 204 | | 0001 | 2.7 | 82 | 0001 | 2.7 | 82 | | | | |
| 12 W | 0451 | 6.6 | 201 | 27 Th | 1032 | 0.9 | 27 | 12 Sa | 1126 | 1.4 | 43 | 27 Su | 1146 | 0.5 | 15 | 12 M | 1144 | 1.1 | 34 | 27 Tu | 0608 | 6.5 | 198 | | | | | | | |
| | 1058 | 1.8 | 55 | | 1653 | 7.8 | 238 | | 1753 | 6.9 | 210 | | 1823 | 7.7 | 235 | | 1818 | 6.8 | 207 | | 1222 | 0.4 | 12 | 1222 | 0.4 | 12 | | | | |
| | 1705 | 6.9 | 210 | | 2302 | 1.9 | 58 | | 0002 | 2.7 | 82 | | 0532 | 6.7 | 204 | | 0532 | 5.9 | 180 | | 1858 | 7.3 | 223 | 1858 | 7.3 | 223 | | | | |
| | 2312 | 2.1 | 64 | | 0504 | 7.2 | 219 | | 0549 | 6.1 | 186 | | 0619 | 6.7 | 204 | | 0607 | 5.9 | 180 | | 0119 | 2.2 | 67 | 0119 | 2.2 | 67 | | | | |
| 13 Th | 0519 | 6.6 | 201 | 28 F | 1115 | 0.7 | 21 | 13 Su | 1157 | 1.4 | 43 | 28 M | 0041 | 2.5 | 76 | 13 Tu | 0035 | 2.7 | 82 | 28 W | 0652 | 6.4 | 195 | | | | | | | |
| | 1124 | 1.7 | 52 | | 1742 | 8.0 | 244 | | 1827 | 6.9 | 210 | | 1233 | 0.6 | 18 | | 1217 | 1.0 | 30 | | 1303 | 0.6 | 18 | 1303 | 0.6 | 18 | | | | |
| | 1737 | 7.0 | 213 | | 2351 | 2.1 | 64 | | 0034 | 2.8 | 85 | | 1911 | 7.6 | 232 | | 1852 | 6.8 | 207 | | 1938 | 7.1 | 216 | 1938 | 7.1 | 216 | | | | |
| | 2341 | 2.3 | 70 | | 0548 | 7.2 | 219 | | 0621 | 6.1 | 186 | | 0131 | 2.6 | 79 | | 0108 | 2.6 | 79 | | 0158 | 2.1 | 64 | 0158 | 2.1 | 64 | | | | |
| 14 F | 0545 | 6.5 | 198 | 29 Sa | 1159 | 0.6 | 18 | 14 M | 1229 | 1.4 | 4 | | | | | | | | | | | | | | | | | | | |

Mina Salman, Bahrain, Persian Gulf, 2011

Times and Heights of High and Low Waters

| July | | | | August | | | | September | | | | | | | | | | | | | | | |
|-----------------|------|--------|-----------------|-----------------|------|--------|-----|-----------------|------|--------|-----|-----------------|------|--------|-----|-----------------|------|-----|-----|-----------------|------|-----|-----|
| Time | | Height | | Time | | Height | | Time | | Height | | Time | | Height | | | | | | | | | |
| h | m | ft | cm | h | m | ft | cm | h | m | ft | cm | h | m | ft | cm | | | | | | | | |
| 1 F | 0530 | 7.2 | 220 | 16 Sa | 0005 | 2.0 | 60 | 1 M | 0023 | 1.6 | 50 | 16 Tu | 0056 | 2.0 | 60 | 1 Th | 0122 | 1.3 | 40 | 16 F | 0122 | 2.0 | 60 |
| | 1141 | 3.6 | 110 | | 0614 | 7.5 | 230 | | 0627 | 7.9 | 240 | | 0700 | 7.9 | 240 | | 0717 | 8.5 | 260 | | 0718 | 7.9 | 240 |
| | 1724 | 7.9 | 240 | | 1226 | 3.0 | 90 | | 1244 | 3.0 | 90 | | 1312 | 2.6 | 80 | | 1341 | 1.6 | 50 | | 1338 | 2.3 | 70 |
| | 2358 | 2.3 | 70 | | 1806 | 8.2 | 250 | | 1827 | 8.5 | 260 | | 1900 | 8.2 | 250 | | 1934 | 8.9 | 270 | | 1933 | 7.5 | 230 |
| 2 Sa | 0609 | 7.5 | 230 | 17 Su | 0045 | 2.0 | 60 | 2 Tu | 0103 | 1.6 | 50 | 17 W | 0125 | 2.0 | 60 | 2 F | 0202 | 1.6 | 50 | 17 Sa | 0150 | 2.3 | 70 |
| | 1223 | 3.3 | 100 | | 0653 | 7.9 | 240 | | 0704 | 8.2 | 250 | | 0727 | 7.9 | 240 | | 0757 | 8.5 | 260 | | 0746 | 7.5 | 230 |
| | 1803 | 8.2 | 250 | | 1305 | 3.0 | 90 | | 1323 | 2.6 | 80 | | 1342 | 2.6 | 80 | | 1424 | 1.6 | 50 | | 1409 | 2.3 | 70 |
| | | | | | 1846 | 8.2 | 250 | | 1908 | 8.9 | 270 | | 1931 | 7.9 | 240 | | 2019 | 8.5 | 260 | | 2004 | 7.2 | 220 |
| 3 Su | 0037 | 2.0 | 60 | 18 M | 0121 | 2.0 | 60 | 3 W | 0142 | 1.6 | 50 | 18 Th | 0153 | 2.0 | 60 | 3 Sa | 0244 | 2.0 | 60 | 18 Su | 0219 | 2.6 | 80 |
| | 0647 | 7.5 | 230 | | 0728 | 7.9 | 240 | | 0742 | 8.5 | 260 | | 0754 | 7.9 | 240 | | 0840 | 8.5 | 260 | | 0816 | 7.5 | 230 |
| | 1303 | 3.3 | 100 | | 1342 | 3.0 | 90 | | 1404 | 2.3 | 70 | | 1413 | 2.6 | 80 | | 1509 | 2.0 | 60 | | 1441 | 2.3 | 70 |
| | 1841 | 8.2 | 250 | | 1923 | 8.2 | 250 | | 1950 | 8.9 | 270 | | 2002 | 7.5 | 230 | | 2109 | 7.9 | 240 | | 2040 | 6.9 | 210 |
| 4 M | 0117 | 2.0 | 60 | 19 Tu | 0155 | 2.3 | 70 | 4 Th | 0222 | 1.6 | 50 | 19 F | 0222 | 2.3 | 70 | 4 Su | 0328 | 2.3 | 70 | 19 M | 0251 | 3.0 | 90 |
| | 0725 | 7.9 | 240 | | 0801 | 7.9 | 240 | | 0823 | 8.5 | 260 | | 0824 | 7.9 | 240 | | 0928 | 7.9 | 240 | | 0851 | 7.2 | 220 |
| | 1343 | 3.3 | 100 | | 1417 | 3.0 | 90 | | 1446 | 2.3 | 70 | | 1445 | 2.6 | 80 | | 1600 | 2.3 | 70 | | 1519 | 2.6 | 80 |
| | 1922 | 8.5 | 260 | | 1959 | 7.9 | 240 | | 2035 | 8.5 | 260 | | 2034 | 7.2 | 220 | | 2206 | 7.2 | 220 | | 2122 | 6.6 | 200 |
| 5 Tu | 0157 | 2.0 | 60 | 20 W | 0227 | 2.3 | 70 | 5 F | 0304 | 2.0 | 60 | 20 Sa | 0252 | 2.6 | 80 | 5 M | 0418 | 3.0 | 90 | 20 Tu | 0328 | 3.3 | 100 |
| | 0804 | 8.2 | 250 | | 0833 | 7.9 | 240 | | 0906 | 8.2 | 250 | | 0856 | 7.5 | 230 | | 1024 | 7.5 | 230 | | 0934 | 6.9 | 210 |
| | 1423 | 3.0 | 90 | | 1452 | 3.0 | 90 | | 1531 | 2.3 | 70 | | 1519 | 3.0 | 90 | | 1702 | 2.6 | 80 | | 1606 | 3.0 | 90 |
| | 2005 | 8.5 | 260 | | 2034 | 7.9 | 240 | | 2125 | 8.2 | 250 | | 2110 | 6.9 | 210 | | 2318 | 6.6 | 200 | | 2218 | 6.2 | 190 |
| 6 W | 0239 | 2.0 | 60 | 21 Th | 0259 | 2.6 | 80 | 6 Sa | 0348 | 2.3 | 70 | 21 Su | 0324 | 3.0 | 90 | 6 Tu | 0522 | 3.6 | 110 | 21 W | 0416 | 3.6 | 110 |
| | 0846 | 8.2 | 250 | | 0907 | 7.5 | 230 | | 0955 | 8.2 | 250 | | 0933 | 7.2 | 220 | | 1133 | 7.2 | 220 | | 1030 | 6.9 | 210 |
| | 1507 | 3.0 | 90 | | 1528 | 3.3 | 100 | | 1621 | 2.6 | 80 | | 1559 | 3.0 | 90 | | 1827 | 3.0 | 90 | | 1709 | 3.0 | 90 |
| | 2051 | 8.2 | 250 | | 2111 | 7.2 | 220 | | 2220 | 7.5 | 230 | | 2153 | 6.6 | 200 | | 2006 | 3.0 | 90 | | 2335 | 5.9 | 180 |
| 7 Th | 0323 | 2.0 | 60 | 22 F | 0333 | 2.6 | 80 | 7 Su | 0437 | 3.0 | 90 | 22 M | 0401 | 3.3 | 100 | 7 W | 0051 | 6.2 | 190 | 22 Th | 0530 | 3.9 | 120 |
| | 0932 | 8.2 | 250 | | 0945 | 7.5 | 230 | | 1051 | 7.9 | 240 | | 1019 | 6.9 | 210 | | 0657 | 3.9 | 120 | | 1144 | 6.6 | 200 |
| | 1554 | 3.0 | 90 | | 1607 | 3.3 | 100 | | 1720 | 3.0 | 90 | | 1648 | 3.3 | 100 | | 1258 | 6.9 | 210 | | 1837 | 3.3 | 100 |
| | 2142 | 8.2 | 250 | | 2152 | 6.9 | 210 | | 2327 | 6.9 | 210 | | 2249 | 6.2 | 190 | | 2006 | 3.0 | 90 | | | | |
| 8 F | 0410 | 2.3 | 70 | 23 Sa | 0409 | 3.0 | 90 | 8 M | 0536 | 3.3 | 100 | 23 Tu | 0448 | 3.6 | 110 | 8 Th | 0225 | 6.6 | 200 | 23 F | 0107 | 5.9 | 180 |
| | 1023 | 7.9 | 240 | | 1027 | 7.2 | 220 | | 1157 | 7.5 | 230 | | 1117 | 6.9 | 210 | | 0835 | 3.9 | 120 | | 0712 | 3.9 | 120 |
| | 1645 | 3.0 | 90 | | 1651 | 3.3 | 100 | | 1834 | 3.0 | 90 | | 1753 | 3.3 | 100 | | 1420 | 6.9 | 210 | | 1309 | 6.6 | 200 |
| | 2239 | 7.5 | 230 | | 2239 | 6.6 | 200 | | | | | | | | | | 2119 | 2.6 | 80 | | 2007 | 3.0 | 90 |
| 9 Sa | 0502 | 2.6 | 80 | 24 Su | 0451 | 3.3 | 100 | 9 Tu | 0050 | 6.6 | 200 | 24 W | 0008 | 5.9 | 180 | 9 F | 0332 | 6.9 | 210 | 24 Sa | 0226 | 6.2 | 190 |
| | 1120 | 7.9 | 240 | | 1117 | 6.9 | 210 | | 0655 | 3.6 | 110 | | 0558 | 3.9 | 120 | | 0941 | 3.3 | 100 | | 0838 | 3.6 | 110 |
| | 1744 | 3.0 | 90 | | 1743 | 3.6 | 110 | | 1314 | 7.2 | 220 | | 1232 | 6.6 | 200 | | 1525 | 7.2 | 220 | | 1424 | 6.9 | 210 |
| | 2345 | 7.2 | 220 | | 2339 | 6.2 | 190 | | 2006 | 3.0 | 90 | | 1920 | 3.3 | 100 | | 2212 | 2.3 | 70 | | 2114 | 2.3 | 70 |
| 10 Su | 0603 | 3.0 | 90 | 25 M | 0543 | 3.6 | 110 | 10 W | 0222 | 6.6 | 200 | 25 Th | 0142 | 5.9 | 180 | 10 Sa | 0422 | 7.2 | 220 | 25 Su | 0324 | 6.9 | 210 |
| | 1224 | 7.5 | 230 | | 1218 | 6.9 | 210 | | 0833 | 3.9 | 120 | | 0743 | 4.3 | 130 | | 1030 | 3.0 | 90 | | 0938 | 3.0 | 90 |
| | 1852 | 3.0 | 90 | | 1849 | 3.6 | 110 | | 1429 | 7.5 | 230 | | 1351 | 6.9 | 210 | | 1616 | 7.5 | 230 | | 1526 | 7.5 | 230 |
| | | | | | | | | | 2127 | 2.6 | 80 | | 2046 | 3.0 | 90 | | 2253 | 2.0 | 60 | | 2206 | 2.0 | 60 |
| 11 M | 0100 | 6.9 | 210 | 26 Tu | 0055 | 5.9 | 180 | 11 Th | 0339 | 6.9 | 210 | 26 F | 0300 | 6.2 | 190 | 11 Su | 0501 | 7.2 | 220 | 26 M | 0410 | 7.5 | 230 |
| | 0714 | 3.3 | 100 | | 0654 | 3.9 | 120 | | 0950 | 3.6 | 110 | | 0910 | 3.9 | 120 | | 1109 | 2.6 | 80 | | 1027 | 2.6 | 80 |
| | 1333 | 7.5 | 230 | | 1326 | 6.9 | 210 | | 1534 | 7.5 | 230 | | 1459 | 7.2 | 220 | | 1659 | 7.9 | 240 | | 1617 | 7.9 | 240 |
| | 2007 | 3.0 | 90 | | 2004 | 3.6 | 110 | | 2227 | 2.3 | 70 | | 2148 | 2.6 | 80 | | 2328 | 2.0 | 60 | | 2252 | 1.6 | 50 |
| 12 Tu | 0220 | 6.9 | 210 | 27 W | 0217 | 6.2 | 190 | 12 F | 0437 | 7.2 | 220 | 27 Sa | 0357 | 6.9 | 210 | 12 M | 0535 | 7.5 | 230 | 27 Tu | 0452 | 7.9 | 240 |
| | 0834 | 3.6 | 110 | | 0822 | 3.9 | 120 | | 1045 | 3.3 | 100 | | 1009 | 3.6 | 110 | | 1142 | 2.6 | 80 | | 1111 | 2.0 | 60 |
| | 1439 | 7.9 | 240 | | 1432 | 6.9 | 210 | | 1628 | 7.9 | 240 | | 1554 | 7.5 | 230 | | 1736 | 7.9 | 240 | | 1705 | 8.5 | 260 |
| | 2122 | 2.6 | 80 | | 2115 | 3.3 | 100 | | 2313 | 2.0 | 60 | | 2237 | 2.0 | 60 | | 2358 | 1.6 | 50 | | 2336 | 1.3 | 40 |
| 13 W | 0335 | 7.2 | 220 | 28 Th | 0328 | 6.2 | 190 | 13 Sa | 0522 | 7.5 | 230 | 28 Su | 0443 | 7.2 | 220 | 13 Tu | 0603 | 7.5 | 230 | 28 W | 0532 | 8.5 | 260 |
| | 0949 | 3.6 | 110 | | 0938 | 3.9 | 120 | | 1130 | 3.0 | 90 | | 1056 | 3.0 | 90 | | 1212 | 2.3 | 70 | | 1154 | 1.3 | 40 |
| | 1540 | 7.9 | 240 | | 1530 | 7.2 | 220 | | 1714 | 8.2 | 250 | | 1642 | 8.2 | 250 | | 1808 | 7.9 | 240 | | 1749 | 8.9 | 270 |
| | 2226 | 2.3 | 70 | | 2213 | 3.0 | 90 | | 2352 | 2.0 | 60 | | 2320 | 1.6 | 50 | | | | | | | | |
| 14 Th | 0437 | 7.2 | 220 | 29 F | 0424 | 6.9 | 210 | 14 Su | 0600 | 7.5 | 230 | 29 M | 0523 | 7.9 | 240 | 14 W | 0026 | 2.0 | 60 | 29 Th | 0018 | 1.3 | 40 |
| | 1051 | 3.3 | 100 | | 1035 | 3.6 | 110 | | 1207 | 3.0 | 90 | | 1139 | 2.6 | 80 | | 0629 | 7.9 | 240 | | 0611 | 8.5 | 260 |
| | 1634 | 8.2 | 250 | | 1620 | 7.5 | 230 | | 1753 | 8.2 | 250 | | 1726 | 8.5 | 260 | | 1241 | 2.3 | 70 | | 1237 | 1.3 | 40 |
| | 2319 | 2.0 | 60 | | 2300 | 2.3 | 70 | | | | | | | | | | 1837 | 7.9 | 240 | | 1833 | 8.9 | 270 |
| 15 F | 0530 | 7.5 | 230 | 30 Sa | 0510 | 7.2 | 220 | 15 M | 0025 | 2.0 | 60 | 30 Tu | 0001 | 1.3 | 40 | 15 Th | 0054 | 2.0 | 60 | 30 F | 0100 | 1.3 | 40 |
| | 1142 | 3.3 | 100 | | 1122 | 3.3 | 100 | | 0631 | 7.9 | 240 | | 0601 | 8.2 | 250 | | 0653 | 7.9 | 240 | | 0651 | 8.9 | 270 |
| | 1723 | 8.2 | 250 | | 1705 | 8.2 | 250 | | 1241 | 2.6 | 80 | | 1220 | 2.0 | 60 | | 1309 | 2.3 | 70 | | 1320 | 1.0 | 30 |
| | | | | | 2343 | 2.0 | 60 | | 1828 | 8.2 | 250 | | 1808 | 8.9 | 270 | | 1905 | 7.5 | 230 | | 1918 | 8.5 | 260 |
| | | | 31 Su | 0550 | 7.5 | 230 | | | | | | | | | | | | | | | | | |

Mina Salman, Bahrain, Persian Gulf, 2011

Times and Heights of High and Low Waters

| October | | | November | | | December | | | | | | | | | | | | | | | | | |
|-----------------|--------|-----|-----------|-----------------|------|----------|--------|-----------------|------|--------|-----|-----------------|------|-----|-----|-----------------|------|------|-----|-----------------|------|-----|-----|
| Time | Height | | Time | Height | | Time | Height | | Time | Height | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | |
| 1 Sa | 0143 | 1.6 | 50 | 16 Su | 0126 | 2.6 | 80 | 1 Tu | 0304 | 3.0 | 90 | 16 W | 0221 | 3.3 | 100 | 1 Th | 0341 | 3.0 | 90 | 16 F | 0252 | 3.0 | 90 |
| | 0732 | 8.5 | 260 | | 0715 | 7.5 | 230 | | 0844 | 7.9 | 240 | | 0802 | 7.2 | 220 | | 0914 | 7.2 | 220 | | 0832 | 7.5 | 230 |
| | 1404 | 1.3 | 40 | | 1341 | 2.0 | 60 | | 1527 | 2.0 | 60 | | 1434 | 2.0 | 60 | | 1554 | 2.3 | 70 | | 1504 | 1.6 | 50 |
| | 2005 | 8.2 | 250 | | 1944 | 7.2 | 220 | | 2144 | 7.2 | 220 | | 2050 | 6.9 | 210 | | 2214 | 6.9 | 210 | | 2116 | 7.2 | 220 |
| 2 Su | 0227 | 2.0 | 60 | 17 M | 0156 | 3.0 | 90 | 2 W | 0400 | 3.3 | 100 | 17 Th | 0303 | 3.3 | 100 | 2 F | 0434 | 3.3 | 100 | 17 Sa | 0337 | 3.0 | 90 |
| | 0816 | 8.2 | 250 | | 0745 | 7.5 | 230 | | 0937 | 7.2 | 220 | | 0845 | 7.2 | 220 | | 1007 | 6.9 | 210 | | 0920 | 7.2 | 220 |
| | 1451 | 1.6 | 50 | | 1414 | 2.0 | 60 | | 1626 | 2.3 | 70 | | 1519 | 2.0 | 60 | | 1646 | 2.6 | 80 | | 1551 | 2.0 | 60 |
| | 2057 | 7.5 | 230 | | 2021 | 6.9 | 210 | | 2252 | 6.6 | 200 | | 2139 | 6.9 | 210 | | 2312 | 6.6 | 200 | | 2206 | 7.2 | 220 |
| 3 M | 0314 | 2.6 | 80 | 18 Tu | 0230 | 3.3 | 100 | 3 Th | 0507 | 3.6 | 110 | 18 F | 0354 | 3.3 | 100 | 3 Sa | 0532 | 3.3 | 100 | 18 Su | 0428 | 2.6 | 80 |
| | 0904 | 7.9 | 240 | | 0821 | 7.2 | 220 | | 1041 | 6.6 | 200 | | 0936 | 6.9 | 210 | | 1107 | 6.2 | 190 | | 1015 | 6.9 | 210 |
| | 1543 | 2.0 | 60 | | 1451 | 2.3 | 70 | | 1736 | 2.6 | 80 | | 1613 | 2.3 | 70 | | 1744 | 3.0 | 90 | | 1644 | 2.3 | 70 |
| | 2156 | 6.9 | 210 | | 2104 | 6.6 | 200 | | 2252 | 6.6 | 200 | | 2238 | 6.6 | 200 | | 2238 | 6.6 | 200 | | 2304 | 6.9 | 210 |
| 4 Tu | 0409 | 3.3 | 100 | 19 W | 0311 | 3.3 | 100 | 4 F | 0010 | 6.6 | 200 | 19 Sa | 0455 | 3.3 | 100 | 4 Su | 0015 | 6.6 | 200 | 19 M | 0528 | 2.6 | 80 |
| | 1000 | 7.2 | 220 | | 0904 | 7.2 | 220 | | 0624 | 3.6 | 110 | | 1038 | 6.9 | 210 | | 0635 | 3.3 | 100 | | 1120 | 6.9 | 210 |
| | 1647 | 2.6 | 80 | | 1538 | 2.6 | 80 | | 1159 | 6.2 | 190 | | 1717 | 2.6 | 80 | | 1219 | 5.9 | 180 | | 1747 | 2.3 | 70 |
| | 2311 | 6.6 | 200 | | 2158 | 6.2 | 190 | | 1852 | 3.0 | 90 | | 2345 | 6.6 | 200 | | 1847 | 3.0 | 90 | | 2017 | 2.6 | 80 |
| 5 W | 0520 | 3.6 | 110 | 20 Th | 0403 | 3.6 | 110 | 5 Sa | 0123 | 6.6 | 200 | 20 Su | 0606 | 3.3 | 100 | 5 M | 0117 | 6.6 | 200 | 20 Tu | 0009 | 6.9 | 210 |
| | 1109 | 6.9 | 210 | | 0957 | 6.9 | 210 | | 0737 | 3.6 | 110 | | 1151 | 6.6 | 200 | | 0738 | 3.3 | 100 | | 0635 | 2.6 | 80 |
| | 1812 | 2.6 | 80 | | 1637 | 2.6 | 80 | | 1321 | 6.2 | 190 | | 1830 | 2.6 | 80 | | 1333 | 5.9 | 180 | | 1235 | 6.6 | 200 |
| | | | | | 2308 | 6.2 | 190 | | 2001 | 2.6 | 80 | | 2001 | 2.6 | 80 | | 1952 | 3.0 | 90 | | 1859 | 2.6 | 80 |
| 6 Th | 0044 | 6.2 | 190 | 21 F | 0515 | 3.9 | 120 | 6 Su | 0222 | 6.6 | 200 | 21 M | 0055 | 6.9 | 210 | 6 Tu | 0214 | 6.6 | 200 | 21 W | 0119 | 6.9 | 210 |
| | 0654 | 3.9 | 120 | | 1106 | 6.6 | 200 | | 0837 | 3.3 | 100 | | 0718 | 3.0 | 90 | | 0836 | 3.0 | 90 | | 0748 | 2.3 | 70 |
| | 1236 | 6.6 | 200 | | 1755 | 3.0 | 90 | | 1430 | 6.2 | 190 | | 1310 | 6.9 | 210 | | 1440 | 5.9 | 180 | | 1355 | 6.6 | 200 |
| | 1942 | 2.6 | 80 | | | | | | 2056 | 2.6 | 80 | | 1945 | 2.6 | 80 | | 2051 | 3.0 | 90 | | 2017 | 2.6 | 80 |
| 7 F | 0207 | 6.6 | 200 | 22 Sa | 0029 | 6.2 | 190 | 7 M | 0310 | 6.9 | 210 | 22 Tu | 0200 | 7.2 | 220 | 7 W | 0303 | 6.6 | 200 | 22 Th | 0226 | 7.2 | 220 |
| | 0817 | 3.6 | 110 | | 0642 | 3.6 | 110 | | 0926 | 2.6 | 80 | | 0825 | 2.6 | 80 | | 0927 | 2.6 | 80 | | 0859 | 2.0 | 60 |
| | 1400 | 6.6 | 200 | | 1228 | 6.6 | 200 | | 1525 | 6.6 | 200 | | 1424 | 6.9 | 210 | | 1537 | 6.2 | 190 | | 1509 | 6.9 | 210 |
| | 2050 | 2.6 | 80 | | 1919 | 2.6 | 80 | | 2142 | 2.6 | 80 | | 2053 | 2.3 | 70 | | 2143 | 3.0 | 90 | | 2130 | 2.6 | 80 |
| 8 Sa | 0306 | 6.9 | 210 | 23 Su | 0143 | 6.6 | 200 | 8 Tu | 0351 | 7.2 | 220 | 23 W | 0258 | 7.5 | 230 | 8 Th | 0347 | 6.9 | 210 | 23 F | 0327 | 7.5 | 230 |
| | 0917 | 3.3 | 100 | | 0800 | 3.3 | 100 | | 1007 | 2.3 | 70 | | 0926 | 2.0 | 60 | | 1011 | 2.3 | 70 | | 1004 | 1.6 | 50 |
| | 1505 | 6.9 | 210 | | 1348 | 6.9 | 210 | | 1612 | 6.9 | 210 | | 1528 | 7.2 | 220 | | 1625 | 6.2 | 190 | | 1614 | 6.9 | 210 |
| | 2141 | 2.3 | 70 | | 2031 | 2.3 | 70 | | 2222 | 2.3 | 70 | | 2153 | 2.3 | 70 | | 2229 | 3.0 | 90 | | 2234 | 2.6 | 80 |
| 9 Su | 0352 | 7.2 | 220 | 24 M | 0243 | 7.2 | 220 | 9 W | 0426 | 7.2 | 220 | 24 Th | 0350 | 7.9 | 240 | 9 F | 0426 | 6.9 | 210 | 24 Sa | 0422 | 7.9 | 240 |
| | 1003 | 3.0 | 90 | | 0903 | 2.6 | 80 | | 1043 | 2.3 | 70 | | 1020 | 1.6 | 50 | | 1051 | 2.3 | 70 | | 1100 | 1.3 | 40 |
| | 1556 | 7.2 | 220 | | 1455 | 7.2 | 220 | | 1652 | 6.9 | 210 | | 1626 | 7.5 | 230 | | 1707 | 6.6 | 200 | | 1711 | 7.2 | 220 |
| | 2222 | 2.0 | 60 | | 2130 | 2.0 | 60 | | 2258 | 2.3 | 70 | | 2248 | 2.0 | 60 | | 2311 | 3.0 | 90 | | 2329 | 2.3 | 70 |
| 10 M | 0430 | 7.2 | 220 | 25 Tu | 0334 | 7.5 | 230 | 10 Th | 0459 | 7.2 | 220 | 25 F | 0439 | 8.2 | 250 | 10 Sa | 0502 | 7.2 | 220 | 25 Su | 0512 | 7.9 | 240 |
| | 1041 | 2.6 | 80 | | 0956 | 2.0 | 60 | | 1116 | 2.0 | 60 | | 1112 | 1.0 | 30 | | 1127 | 2.0 | 60 | | 1151 | 1.0 | 30 |
| | 1638 | 7.2 | 220 | | 1552 | 7.9 | 240 | | 1727 | 6.9 | 210 | | 1719 | 7.9 | 240 | | 1744 | 6.9 | 210 | | 1801 | 7.5 | 230 |
| | 2257 | 2.0 | 60 | | 2222 | 1.6 | 50 | | 2332 | 2.3 | 70 | | 2339 | 2.0 | 60 | | 2349 | 3.0 | 90 | | 2329 | 2.3 | 70 |
| 11 Tu | 0503 | 7.5 | 230 | 26 W | 0420 | 8.2 | 250 | 11 F | 0528 | 7.5 | 230 | 26 Sa | 0525 | 8.2 | 250 | 11 Su | 0535 | 7.2 | 220 | 26 M | 0018 | 2.3 | 70 |
| | 1114 | 2.3 | 70 | | 1044 | 1.6 | 50 | | 1148 | 2.0 | 60 | | 1200 | 1.0 | 30 | | 1202 | 1.6 | 50 | | 0558 | 8.2 | 250 |
| | 1715 | 7.5 | 230 | | 1644 | 8.2 | 250 | | 1800 | 6.9 | 210 | | 1808 | 7.9 | 240 | | 1817 | 6.9 | 210 | | 1238 | 1.0 | 30 |
| | 2328 | 2.0 | 60 | | 2310 | 1.6 | 50 | | | | | | | | | | | 1846 | 7.5 | | 230 | | |
| 12 W | 0531 | 7.5 | 230 | 27 Th | 0503 | 8.5 | 260 | 12 Sa | 0005 | 2.6 | 80 | 27 Su | 0028 | 2.0 | 60 | 12 M | 0025 | 3.0 | 90 | 27 Tu | 0104 | 2.3 | 70 |
| | 1144 | 2.0 | 60 | | 1131 | 1.0 | 30 | | 0555 | 7.5 | 230 | | 0610 | 8.5 | 260 | | 0607 | 7.5 | 230 | | 0643 | 8.2 | 250 |
| | 1747 | 7.5 | 230 | | 1732 | 8.2 | 250 | | 1219 | 1.6 | 50 | | 1248 | 1.0 | 30 | | 1236 | 1.6 | 50 | | 1321 | 1.0 | 30 |
| | 2357 | 2.0 | 60 | | 2356 | 1.6 | 50 | | 1829 | 7.2 | 220 | | 1856 | 7.9 | 240 | | 1848 | 6.9 | 210 | | 1928 | 7.5 | 230 |
| 13 Th | 0557 | 7.5 | 230 | 28 F | 0546 | 8.5 | 260 | 13 Su | 0038 | 2.6 | 80 | 28 M | 0116 | 2.3 | 70 | 13 Tu | 0100 | 3.0 | 90 | 28 W | 0147 | 2.3 | 70 |
| | 1212 | 2.0 | 60 | | 1216 | 1.0 | 30 | | 0623 | 7.5 | 230 | | 0655 | 8.2 | 250 | | 0639 | 7.5 | 230 | | 0725 | 7.9 | 240 |
| | 1817 | 7.5 | 230 | | 1819 | 8.5 | 260 | | 1249 | 1.6 | 50 | | 1334 | 1.0 | 30 | | 1309 | 1.6 | 50 | | 1401 | 1.3 | 40 |
| | | | | | | | | | 1900 | 7.2 | 220 | | 1943 | 7.9 | 240 | | 1920 | 7.2 | 220 | | 2008 | 7.5 | 230 |
| 14 F | 0026 | 2.3 | 70 | 29 Sa | 0041 | 1.6 | 50 | 14 M | 0110 | 3.0 | 90 | 29 Tu | 0203 | 2.6 | 80 | 14 W | 0135 | 3.0 | 90 | 29 Th | 0228 | 2.3 | 70 |
| | 0622 | 7.5 | 230 | | 0628 | 8.5 | 260 | | 0653 | 7.5 | 230 | | 0740 | 7.9 | 240 | | 0713 | 7.5 | 230 | | 0806 | 7.5 | 230 |
| | 1241 | 2.0 | 60 | | 1302 | 1.0 | 30 | | 1321 | 1.6 | 50 | | 1420 | 1.3 | 40 | | 1344 | 1.6 | 50 | | 1440 | 1.6 | 50 |
| | 1844 | 7.2 | 220 | | 1906 | 8.2 | 250 | | 1932 | 6.9 | 210 | | 2031 | 7.5 | 230 | | 1955 | 7.2 | 220 | | 2047 | 7.2 | 220 |
| 15 Sa | 0056 | 2.3 | 70 | 30 Su | 0127 | 2.0 | 60 | 15 Tu | 0144 | 3.0 | 90 | 30 W | 0251 | 2.6 | 80 | 15 Th | 0212 | 3.0 | 90 | 30 F | 0308 | 2.6 | 80 |
| | 0647 | 7.5 | 230 | | 0711 | 8.5 | 260 | | 0725 | 7.5 | 230 | | 0826 | 7.5 | 230 | | 0751 | 7.5 | 230 | | 0847 | 7.2 | 220 |
| | 1310 | 2.0 | 60 | | 1348 | 1.0 | 30 | | 1356 | 2.0 | 60 | | 1507 | 1.6 | 50 | | 1422 | 1.6 | 50 | | 1518 | 2.0 | 60 |
| | 1913 | 7.2 | 220 | | 1954 | 7.9 | 240 | | 2008 | 6.9 | 210 | | 2121 | 7.2 | 220 | | 2033 | 7.2 | 220 | | 2127 | 6.9 | 210 |
| | | | 31 | | | | | | | | | | | | | | | | | | | | |

Musay'id Outer Channel Entrance, Qatar, 2011

Times and Heights of High and Low Waters

| January | | | | February | | | | March | | | | | | | | | | | | | | | | |
|-----------------|--------|-----|----------------|-----------------|--------|------|--------|-----------------|--------|--------|------|-----------------|--------|-----|------|-----------------|--------|------|------|-----------------|--------|------|-----|----|
| Time | Height | | Time | Height | | Time | Height | | Time | Height | | Time | Height | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | |
| 1 Sa | 0401 | 5.9 | 180 | 16 Su | 0351 | 5.9 | 180 | 1 Tu | 0501 | 6.6 | 200 | 16 W | 0413 | 6.6 | 200 | 1 Tu | 0352 | 6.2 | 190 | 16 W | 0247 | 5.9 | 180 | |
| | 1111 | 3.6 | 110 | | 1929 | 1.6 | 50 | | 1229 | 2.6 | 80 | | 1147 | 3.0 | 90 | | 1131 | 2.3 | 70 | | 1029 | 2.6 | 80 | |
| | 1259 | 3.6 | 110 | | | | | | 1440 | 3.0 | 90 | | 1427 | 3.0 | 90 | | 1347 | 2.6 | 80 | | 1330 | 3.0 | 90 | |
| | 2044 | 1.3 | 40 | | | | | | 2159 | 1.3 | 40 | | 2107 | 1.3 | 40 | | 2058 | 2.0 | 60 | | 1938 | 2.0 | 60 | |
| 2 Su | 0440 | 6.6 | 200 | 17 M | 0420 | 6.2 | 190 | 2 W | 0534 | 6.6 | 200 | 17 Th | 0449 | 6.6 | 200 | 2 W | 0430 | 5.9 | 180 | 17 Th | 0329 | 6.2 | 190 | |
| | 1158 | 3.3 | 100 | | 2020 | 1.3 | 40 | | 1257 | 2.3 | 70 | | 1204 | 2.6 | 80 | | 1155 | 2.3 | 70 | | 1044 | 2.3 | 70 | |
| | 1356 | 3.3 | 100 | | | | | | 1536 | 3.0 | 90 | | 1536 | 3.3 | 100 | | 1511 | 2.6 | 80 | | 1506 | 3.3 | 100 | |
| | 2130 | 1.3 | 40 | | | | | | 2241 | 1.6 | 50 | | 2215 | 1.3 | 40 | | 2151 | 2.0 | 60 | | 2105 | 2.0 | 60 | |
| 3 M | 0517 | 6.9 | 210 | 18 Tu | 0450 | 6.9 | 210 | 3 Th | 0601 | 6.2 | 190 | 18 F | 0525 | 6.9 | 210 | 3 Th | 0500 | 5.9 | 180 | 18 F | 0410 | 6.2 | 190 | |
| | 1239 | 3.0 | 90 | | 1240 | 3.3 | 100 | | 1323 | 2.3 | 70 | | 1231 | 2.3 | 70 | | 1218 | 2.3 | 70 | | 1111 | 2.0 | 60 | |
| | 1450 | 3.3 | 100 | | 1419 | 3.3 | 100 | | 1629 | 3.0 | 90 | | 1642 | 3.6 | 110 | | 1615 | 3.0 | 90 | | 1616 | 3.6 | 110 | |
| | 2212 | 1.3 | 40 | | 2114 | 1.3 | 40 | | ● 2317 | 1.6 | 50 | | ○ 2315 | 1.3 | 40 | | 2235 | 1.6 | 50 | | 2218 | 2.0 | 60 | |
| 4 Tu | 0553 | 6.9 | 210 | 19 W | 0521 | 7.2 | 220 | 4 F | 0620 | 5.9 | 180 | 19 Sa | 0602 | 6.6 | 200 | 4 F | 0520 | 5.6 | 170 | 19 Sa | 0449 | 5.9 | 180 | |
| | 1318 | 2.6 | 80 | | 1251 | 3.0 | 90 | | 1346 | 2.3 | 70 | | 1302 | 2.0 | 60 | | 1236 | 2.0 | 60 | | 1142 | 1.6 | 50 | |
| | 1541 | 3.0 | 90 | | 1528 | 3.3 | 100 | | 1721 | 3.0 | 90 | | 1749 | 3.6 | 110 | | 1657 | 3.3 | 100 | | 1657 | 3.3 | 100 | |
| | ● 2249 | 1.3 | 40 | | 2211 | 1.3 | 40 | | 2353 | 1.6 | 50 | | | | | | ● 2313 | 1.6 | 50 | | ○ 2318 | 2.0 | 60 | |
| 5 W | 0625 | 6.9 | 210 | 20 Th | 0555 | 7.2 | 220 | 5 Sa | 0638 | 5.9 | 180 | 20 Su | 0011 | 1.6 | 50 | 5 Sa | 0537 | 5.2 | 160 | 20 Su | 0526 | 5.9 | 180 | |
| | 1353 | 2.6 | 80 | | 1316 | 2.6 | 80 | | 1405 | 2.0 | 60 | | 0637 | 6.2 | 190 | | 1250 | 2.0 | 60 | | 1215 | 1.3 | 40 | |
| | 1632 | 3.0 | 90 | | 1626 | 3.3 | 100 | | 1813 | 3.3 | 100 | | 1336 | 1.6 | 50 | | 1739 | 3.6 | 110 | | 1807 | 4.6 | 140 | |
| | 2322 | 1.6 | 50 | | ○ 2309 | 1.3 | 40 | | | | | | 1857 | 3.9 | 120 | | 2351 | 2.0 | 60 | | | | | |
| 6 Th | 0652 | 6.9 | 210 | 21 F | 0630 | 7.2 | 220 | 6 Su | 0030 | 2.0 | 60 | 21 M | 0106 | 1.6 | 50 | 6 Su | 0558 | 4.9 | 150 | 21 M | 0014 | 2.0 | 60 | |
| | 1426 | 2.3 | 70 | | 1347 | 2.3 | 70 | | 0700 | 5.6 | 170 | | 0710 | 5.9 | 180 | | 1303 | 2.0 | 60 | | 0559 | 5.6 | 170 | |
| | 1722 | 3.0 | 90 | | 1722 | 3.3 | 100 | | 1423 | 2.0 | 60 | | 1412 | 1.3 | 40 | | 1820 | 3.9 | 120 | | 1251 | 1.3 | 40 | |
| | 2351 | 1.6 | 50 | | | | | | 1908 | 3.3 | 100 | | 2002 | 4.3 | 130 | | | | | | 1900 | 5.2 | 160 | |
| 7 F | 0714 | 6.6 | 200 | 22 Sa | 0005 | 1.3 | 40 | 7 M | 0113 | 2.0 | 60 | 22 Tu | 0201 | 2.3 | 70 | 7 M | 0030 | 2.0 | 60 | 22 Tu | 0111 | 2.3 | 70 | |
| | 1456 | 2.3 | 70 | | 0705 | 6.9 | 210 | | 0721 | 5.2 | 160 | | 0737 | 5.2 | 160 | | 0620 | 4.6 | 140 | | 0625 | 4.9 | 150 | |
| | 1813 | 3.0 | 90 | | 1421 | 2.0 | 60 | | 1439 | 2.0 | 60 | | 1451 | 1.3 | 40 | | 1317 | 1.6 | 50 | | 1328 | 1.3 | 40 | |
| | | | | | 1824 | 3.3 | 100 | | 2010 | 3.6 | 110 | | 2110 | 4.6 | 140 | | 1902 | 3.9 | 120 | | 1955 | 5.6 | 170 | |
| 8 Sa | 0025 | 2.0 | 60 | 23 Su | 0100 | 1.6 | 50 | 8 Tu | 0158 | 2.6 | 80 | 23 W | 0301 | 2.6 | 80 | 8 Tu | 0112 | 2.3 | 70 | 23 W | 0210 | 2.6 | 80 | |
| | 0736 | 6.2 | 190 | | 0741 | 6.6 | 200 | | 0732 | 4.9 | 150 | | 0754 | 4.9 | 150 | | 0638 | 4.3 | 130 | | 0643 | 4.6 | 140 | |
| | 1523 | 2.3 | 70 | | 1457 | 1.6 | 50 | | 1458 | 1.6 | 50 | | 1532 | 1.3 | 40 | | 1334 | 1.6 | 50 | | 1407 | 1.3 | 40 | |
| | 1910 | 3.0 | 90 | | 1950 | 3.3 | 100 | | 2116 | 3.9 | 120 | | 2225 | 4.9 | 150 | | 1947 | 4.3 | 130 | | 2054 | 5.6 | 170 | |
| 9 Su | 0108 | 2.3 | 70 | 24 M | 0155 | 2.0 | 60 | 9 W | 0247 | 3.0 | 90 | 24 Th | 0409 | 3.3 | 100 | 9 W | 0157 | 2.6 | 80 | 24 Th | 0314 | 3.0 | 90 | |
| | 0800 | 5.9 | 180 | | 0815 | 6.2 | 190 | | 0721 | 4.6 | 140 | | 0808 | 4.3 | 130 | | 0641 | 4.3 | 130 | | 0704 | 4.3 | 130 | |
| | 1547 | 2.3 | 70 | | 1535 | 1.6 | 50 | | 1521 | 1.6 | 50 | | 1615 | 1.3 | 40 | | 1356 | 1.6 | 50 | | 1447 | 1.3 | 40 | |
| | 2041 | 3.3 | 100 | | 2120 | 3.6 | 110 | | 2231 | 3.9 | 120 | | 2346 | 5.2 | 160 | | 2037 | 4.6 | 140 | | 2158 | 5.9 | 180 | |
| 10 M | 0156 | 2.6 | 80 | 25 Tu | 0252 | 2.6 | 80 | 10 Th | 0341 | 3.3 | 100 | 25 F | 0538 | 3.6 | 110 | 10 Th | 0246 | 3.0 | 90 | 25 F | 0428 | 3.3 | 100 | |
| | 0820 | 5.6 | 170 | | 0844 | 5.6 | 170 | | 0727 | 4.3 | 130 | | 0811 | 3.9 | 120 | | 0639 | 3.9 | 120 | | 0730 | 3.6 | 110 | |
| | 1609 | 2.0 | 60 | | 1615 | 1.3 | 40 | | 1548 | 1.6 | 50 | | ○ 1700 | 1.6 | 50 | | 1418 | 1.6 | 50 | | 1527 | 1.6 | 50 | |
| | 2229 | 3.3 | 100 | | 2249 | 3.9 | 120 | | | | | | ○ | | | | 2134 | 4.6 | 140 | | 2307 | 5.9 | 180 | |
| 11 Tu | 0250 | 3.3 | 100 | 26 W | 0355 | 3.3 | 100 | 11 F | 0009 | 4.3 | 130 | 26 Sa | 0103 | 5.6 | 170 | 11 F | 0342 | 3.3 | 100 | 26 Sa | 0635 | 3.3 | 100 | |
| | 0821 | 5.2 | 160 | | 0906 | 4.9 | 150 | | 0444 | 3.9 | 120 | | 1749 | 1.6 | 50 | | 0653 | 3.9 | 120 | | 0744 | 3.3 | 100 | |
| | 1633 | 2.0 | 60 | | 1657 | 1.3 | 40 | | 0741 | 4.3 | 130 | | ○ 1618 | 1.6 | 50 | | 1442 | 1.6 | 50 | | 1609 | 2.0 | 60 | |
| | | | | | ○ | | | | | | | | | | | | 2240 | 4.9 | 150 | | ○ | | | |
| 12 W | 0118 | 3.6 | 110 | 27 Th | 0031 | 4.6 | 140 | 12 Sa | 0128 | 4.9 | 150 | 27 Su | 0211 | 5.9 | 180 | 12 Sa | 0453 | 3.6 | 110 | 27 Su | 0013 | 5.9 | 180 | |
| | 0347 | 3.6 | 110 | | 0513 | 3.6 | 110 | | 0618 | 3.9 | 120 | | 1845 | 2.0 | 60 | | 0711 | 3.6 | 110 | | 1652 | 2.3 | 70 | |
| | 0809 | 4.9 | 150 | | 0921 | 4.3 | 130 | | 0749 | 4.3 | 130 | | | | | | 1510 | 1.6 | 50 | | | | | |
| | ○ 1701 | 2.0 | 60 | | 1742 | 1.3 | 40 | | 1654 | 1.6 | 50 | | | | | | 2358 | 5.2 | 160 | | | | | |
| 13 Th | 0216 | 4.3 | 130 | 28 F | 0156 | 4.9 | 150 | 13 Su | 0220 | 5.2 | 160 | 28 M | 0307 | 5.9 | 180 | 13 Su | 0635 | 3.6 | 110 | 28 M | 0116 | 5.9 | 180 | |
| | 0452 | 3.9 | 120 | | 1830 | 1.3 | 40 | | 1745 | 1.6 | 50 | | 1124 | 2.6 | 80 | | 0713 | 3.6 | 110 | | 1246 | 2.6 | 80 | |
| | 0815 | 4.6 | 140 | | | | | | | | 1208 | | 2.6 | 80 | 1550 | | 1.6 | 50 | | | | | | |
| | 1732 | 2.0 | 60 | | | | | | | | 1952 | | 2.0 | 60 | ○ | | | | | | | | | |
| 14 F | 0253 | 4.9 | 150 | 29 Sa | 0256 | 5.6 | 170 | 14 M | 0301 | 5.9 | 180 | 14 M | 0106 | 5.6 | 170 | 14 M | 0162 | 1.6 | 50 | 29 Tu | 0211 | 5.9 | 180 | |
| | 0620 | 4.3 | 130 | | 1922 | 1.3 | 40 | | 1848 | 1.6 | 50 | | | | | | | | 1017 | | 2.3 | 70 | | |
| | 0820 | 4.6 | 140 | | | | | | | | | | | | | | | 1610 | 2.6 | | 80 | | | |
| | 1807 | 1.6 | 50 | | | | | | | | | | | | | | 1907 | 2.6 | 80 | | | | | |
| 15 Sa | 0322 | 5.2 | 160 | 30 Su | 0343 | 6.2 | 190 | 15 Tu | 0338 | 6.2 | 190 | 15 Tu | 0201 | 5.6 | 170 | 15 Tu | 0201 | 5.6 | 170 | 30 W | 0258 | 5.6 | 170 | |
| | 1845 | 1.6 | 50 | | 1144 | 3.0 | 90 | | 1957 | 1.6 | 50 | | 1816 | 2.0 | 60 | | 1816 | 2.0 | 60 | | 1041 | 2.3 | 70 | |
| | | | | | 1218 | 3.0 | 90 | | | | | | | | | | | 1612 | 3.0 | | 90 | 1612 | 3.0 | 90 |
| | | | | | 2017 | 1.3 | 40 | | | | | | | | | | | 2043 | 2.6 | | 80 | 2043 | 2.6 | 80 |
| | | | 31 M | 0424 | 6.6 | 200 | | | | | | | | | | | | | | | | | | |
| | | | | 1201 | 2.6 | 80 | | | | | | | | | | | | | | | | | | |
| | | | | 1339 | 3.0 | 90 | | | | | | | | | | | | | | | | | | |
| | | | | 2111 | 1.3 | 40 | | | | | | | | | | | | | | | | | | |

Time meridian 45° E. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
 Heights are referred to the chart datum

Musay'id Outer Channel Entrance, Qatar, 2011

Times and Heights of High and Low Waters

| July | | | | August | | | | September | | | | | | | | | | | | | | | |
|-----------------|------|--------|-----------------|-----------------|------|--------|-----|-----------------|------|----------------|------|-----------------|------|--------|------|-----------------|------|------|------|-----------------|------|-----|-----|
| Time | | Height | | Time | | Height | | Time | | Height | | Time | | Height | | | | | | | | | |
| | h m | ft | cm | | h m | ft | cm | | h m | ft | cm | | h m | ft | cm | | | | | | | | |
| 1 F | 0123 | 3.9 | 120 | 16 Sa | 0133 | 3.3 | 100 | 1 M | 0118 | 3.0 | 90 | 16 Tu | 0139 | 2.6 | 80 | 1 Th | 0136 | 2.0 | 60 | 16 F | 0103 | 2.0 | 60 |
| | 0307 | 3.9 | 120 | | 0417 | 3.6 | 110 | | 0503 | 3.9 | 120 | | 0614 | 3.9 | 120 | | 0735 | 5.2 | 160 | | 0740 | 5.2 | 160 |
| | 1008 | 2.0 | 60 | | 1116 | 2.0 | 60 | | 1144 | 2.0 | 60 | | 1226 | 2.6 | 80 | | 1340 | 3.0 | 90 | | 1353 | 3.3 | 100 |
| | 1806 | 7.9 | 240 | | 1837 | 7.5 | 230 | | 1840 | 7.5 | 230 | | 1842 | 5.9 | 180 | | 1904 | 5.6 | 170 | | 1807 | 4.3 | 130 |
| 2 Sa | 0138 | 3.6 | 110 | 17 Su | 0206 | 3.0 | 90 | 2 Tu | 0149 | 2.6 | 80 | 17 W | 0156 | 2.6 | 80 | 2 F | 0214 | 2.0 | 60 | 17 Sa | 0121 | 2.0 | 60 |
| | 0406 | 3.9 | 120 | | 0509 | 3.9 | 120 | | 0602 | 4.3 | 130 | | 0707 | 4.3 | 130 | | 0837 | 5.2 | 160 | | 0826 | 5.2 | 160 |
| | 1047 | 2.0 | 60 | | 1153 | 2.3 | 70 | | 1236 | 2.3 | 70 | | 1307 | 3.0 | 90 | | 1441 | 3.3 | 100 | | 1444 | 3.6 | 110 |
| | 1835 | 7.9 | 240 | | 1902 | 7.2 | 220 | | 1913 | 7.2 | 220 | | 1904 | 5.6 | 170 | | 1920 | 5.2 | 160 | | 1802 | 4.3 | 130 |
| 3 Su | 0204 | 3.3 | 100 | 18 M | 0236 | 3.0 | 90 | 3 W | 0223 | 2.6 | 80 | 18 Th | 0210 | 2.6 | 80 | 3 Sa | 0254 | 2.0 | 60 | 18 Su | 0140 | 2.0 | 60 |
| | 0500 | 3.9 | 120 | | 0602 | 3.9 | 120 | | 0715 | 4.3 | 130 | | 0802 | 4.6 | 140 | | 0947 | 5.6 | 170 | | 0916 | 5.6 | 170 |
| | 1130 | 2.0 | 60 | | 1230 | 2.6 | 80 | | 1331 | 2.6 | 80 | | 1351 | 3.3 | 100 | | 1553 | 3.6 | 110 | | 1545 | 3.6 | 110 |
| | 1906 | 7.9 | 240 | | 1925 | 6.9 | 210 | | 1945 | 6.6 | 200 | | 1916 | 5.2 | 160 | | 1936 | 4.6 | 140 | | 1811 | 3.9 | 120 |
| 4 M | 0235 | 3.3 | 100 | 19 Tu | 0303 | 3.0 | 90 | 4 Th | 0259 | 2.3 | 70 | 19 F | 0226 | 2.3 | 70 | 4 Su | 0336 | 2.0 | 60 | 19 M | 0157 | 2.0 | 60 |
| | 0553 | 3.9 | 120 | | 0701 | 3.9 | 120 | | 0837 | 4.6 | 140 | | 0901 | 4.6 | 140 | | 1106 | 5.9 | 180 | | 1014 | 5.6 | 170 |
| | 1217 | 2.3 | 70 | | 1308 | 3.0 | 90 | | 1428 | 3.3 | 100 | | 1439 | 3.6 | 110 | | 1730 | 3.9 | 120 | | 1713 | 3.9 | 120 |
| | 1940 | 7.5 | 230 | | 1947 | 6.6 | 200 | | 2012 | 6.2 | 190 | | 1859 | 4.9 | 150 | | 1947 | 4.3 | 130 | | 1809 | 3.9 | 120 |
| 5 Tu | 0310 | 3.0 | 90 | 20 W | 0327 | 3.0 | 90 | 5 F | 0339 | 2.0 | 60 | 20 Sa | 0247 | 2.3 | 70 | 5 M | 0420 | 2.0 | 60 | 20 Tu | 0216 | 2.0 | 60 |
| | 0649 | 3.9 | 120 | | 0818 | 3.9 | 120 | | 1001 | 4.9 | 150 | | 1011 | 4.9 | 150 | | 1223 | 6.2 | 190 | | 1123 | 5.9 | 180 |
| | 1310 | 2.6 | 80 | | 1351 | 3.3 | 100 | | 1531 | 3.6 | 110 | | 1535 | 4.3 | 130 | | | | | | | | |
| | 2015 | 7.2 | 220 | | 2007 | 5.9 | 180 | | 2031 | 5.6 | 170 | | 1856 | 4.6 | 140 | | | | | | | | |
| 6 W | 0347 | 2.6 | 80 | 21 Th | 0350 | 2.6 | 80 | 6 Sa | 0422 | 2.0 | 60 | 21 Su | 0310 | 2.3 | 70 | 6 Tu | 0509 | 2.3 | 70 | 21 W | 0246 | 2.3 | 70 |
| | 0802 | 3.9 | 120 | | 0953 | 4.3 | 130 | | 1144 | 5.2 | 160 | | 1150 | 5.2 | 160 | | 1330 | 6.6 | 200 | | 1232 | 5.9 | 180 |
| | 1409 | 3.0 | 90 | | 1440 | 3.9 | 120 | | 1654 | 4.3 | 130 | | 1651 | 4.6 | 140 | | | | | | | | |
| | 2049 | 6.6 | 200 | | 2013 | 5.6 | 170 | | 2043 | 4.9 | 150 | | 1858 | 4.6 | 140 | | | | | | | | |
| 7 Th | 0427 | 2.3 | 70 | 22 F | 0413 | 2.6 | 80 | 7 Su | 0508 | 2.0 | 60 | 22 M | 0336 | 2.3 | 70 | 7 W | 0606 | 2.3 | 70 | 22 Th | 0344 | 2.3 | 70 |
| | 1001 | 3.9 | 120 | | 1245 | 4.6 | 140 | | 1314 | 5.9 | 180 | | 1306 | 5.6 | 170 | | 1426 | 6.9 | 210 | | 1328 | 6.2 | 190 |
| | 1513 | 3.6 | 110 | | 1536 | 4.3 | 130 | | 1908 | 4.6 | 140 | | | | | | 2232 | 3.0 | 90 | | | | |
| | 2120 | 6.2 | 190 | | 1954 | 5.2 | 160 | | 2005 | 4.6 | 140 | | | | | | | | | | | | |
| 8 F | 0509 | 2.3 | 70 | 23 Sa | 0439 | 2.6 | 80 | 8 M | 0557 | 2.0 | 60 | 23 Tu | 0408 | 2.3 | 70 | 8 Th | 0000 | 3.0 | 90 | 23 F | 0515 | 2.6 | 80 |
| | 1259 | 4.6 | 140 | | 1353 | 5.2 | 160 | | 1418 | 6.6 | 200 | | 1357 | 6.2 | 190 | | 0718 | 2.6 | 80 | | 1414 | 6.2 | 190 |
| | 1625 | 4.3 | 130 | | 1644 | 4.9 | 150 | | | | | | | | 1515 | | 6.9 | 210 | 2209 | | 3.0 | 90 | |
| | 2148 | 5.6 | 170 | | 1948 | 5.2 | 160 | | | | | | | | 2254 | | 2.6 | 80 | | | | | |
| 9 Sa | 0553 | 2.0 | 60 | 24 Su | 0509 | 2.6 | 80 | 9 Tu | 0652 | 2.0 | 60 | 24 W | 0455 | 2.3 | 70 | 9 F | 0339 | 3.0 | 90 | 24 Sa | 0138 | 3.0 | 90 |
| | 1408 | 5.2 | 160 | | 1437 | 5.6 | 170 | | 1508 | 6.9 | 210 | | 1438 | 6.6 | 200 | | 0835 | 2.6 | 80 | | 0653 | 2.6 | 80 |
| | 1808 | 4.6 | 140 | | | | | | | | | | | | 1556 | | 6.6 | 200 | 1457 | | 6.6 | 200 | |
| | 2214 | 5.2 | 160 | | | | | | | | | | | | 2321 | | 2.6 | 80 | 2218 | | 2.6 | 80 | |
| 10 Su | 0640 | 2.0 | 60 | 25 M | 0543 | 2.3 | 70 | 10 W | 0750 | 2.0 | 60 | 25 Th | 0604 | 2.3 | 70 | 10 Sa | 0418 | 3.3 | 100 | 25 Su | 0322 | 3.6 | 110 |
| | 1456 | 5.9 | 180 | | 1509 | 6.2 | 190 | | 1552 | 7.2 | 220 | | 1514 | 6.9 | 210 | | 0934 | 2.3 | 70 | | 0830 | 2.6 | 80 |
| | 2126 | 4.6 | 140 | | | | | | 2336 | 3.3 | 100 | | | | | | 1629 | 6.2 | 190 | | 1536 | 6.2 | 190 |
| | 2247 | 4.6 | 140 | | | | | | | | | | | | 2346 | | 2.3 | 70 | 2241 | | 2.3 | 70 | |
| 11 M | 0729 | 2.0 | 60 | 26 Tu | 0623 | 2.3 | 70 | 11 Th | 0115 | 3.3 | 100 | 26 F | 0724 | 2.3 | 70 | 11 Su | 0448 | 3.6 | 110 | 26 M | 0412 | 3.9 | 120 |
| | 1537 | 6.6 | 200 | | 1537 | 6.6 | 200 | | 0848 | 2.0 | 60 | | 1549 | 6.9 | 210 | | 1022 | 2.3 | 70 | | 0954 | 2.6 | 80 |
| | 2304 | 4.3 | 130 | | | | | | 1632 | 7.2 | 220 | | 2327 | 3.3 | 100 | | 1654 | 5.9 | 180 | | 1614 | 6.2 | 190 |
| | 2357 | 4.3 | 130 | | | | | | | | | | | | | | | 2310 | 2.0 | | 60 | | |
| 12 Tu | 0818 | 1.6 | 50 | 27 W | 0712 | 2.3 | 70 | 12 F | 0002 | 3.0 | 90 | 27 Sa | 0208 | 3.6 | 110 | 12 M | 0006 | 2.3 | 70 | 27 Tu | 0500 | 4.6 | 140 |
| | 1616 | 7.2 | 220 | | 1606 | 6.9 | 210 | | 0228 | 3.3 | 100 | | 0841 | 2.3 | 70 | | 0514 | 3.9 | 120 | | 1057 | 2.6 | 80 |
| | 2343 | 3.9 | 120 | | | | | | 0940 | 2.0 | 60 | | 1624 | 7.2 | 220 | | 1105 | 2.6 | 80 | | 1650 | 5.9 | 180 |
| | | | | | | | | | 1707 | 7.2 | 220 | | 2336 | 3.0 | 90 | | 1713 | 5.6 | 170 | | 2342 | 1.6 | 50 |
| 13 W | 0121 | 3.9 | 120 | 28 Th | 0806 | 2.0 | 60 | 13 Sa | 0031 | 3.0 | 90 | 28 Su | 0325 | 3.6 | 110 | 13 Tu | 0022 | 2.3 | 70 | 28 W | 0548 | 5.2 | 160 |
| | 0906 | 1.6 | 50 | | 1635 | 7.2 | 220 | | 0330 | 3.6 | 110 | | 0953 | 2.0 | 60 | | 0545 | 4.3 | 130 | | 1154 | 2.6 | 80 |
| | 1655 | 7.5 | 230 | | | | | | 1027 | 2.0 | 60 | | 1658 | 7.2 | 220 | | 1146 | 2.6 | 80 | | 1722 | 5.6 | 170 |
| | | | | | | | | | 1737 | 7.2 | 220 | | 2359 | 2.6 | 80 | | 1733 | 5.2 | 160 | | | | |
| 14 Th | 0020 | 3.6 | 110 | 29 F | 0901 | 2.0 | 60 | 14 Su | 0057 | 3.0 | 90 | 29 M | 0431 | 3.9 | 120 | 14 W | 0036 | 2.3 | 70 | 29 Th | 0017 | 1.6 | 50 |
| | 0227 | 3.9 | 120 | | 1704 | 7.5 | 230 | | 0428 | 3.6 | 110 | | 1053 | 2.0 | 60 | | 0620 | 4.6 | 140 | | 0637 | 5.6 | 170 |
| | 0953 | 1.6 | 50 | | | | | | 1108 | 2.3 | 70 | | 1733 | 6.9 | 210 | | 1226 | 2.6 | 80 | | 1252 | 2.6 | 80 |
| | 1732 | 7.9 | 240 | | | | | | 1800 | 6.9 | 210 | | | | | | 1755 | 4.9 | 150 | | 1745 | 5.2 | 160 |
| 15 F | 0058 | 3.3 | 100 | 30 Sa | 0038 | 3.6 | 110 | 15 M | 0119 | 2.6 | 80 | 30 Tu | 0028 | 2.3 | 70 | 15 Th | 0048 | 2.3 | 70 | 30 F | 0054 | 1.6 | 50 |
| | 0323 | 3.6 | 110 | | 0305 | 3.9 | 120 | | 0522 | 3.9 | 120 | | 0534 | 4.3 | 130 | | 0658 | 4.9 | 150 | | 0729 | 6.2 | 190 |
| | 1036 | 2.0 | 60 | | 0957 | 2.0 | 60 | | 1147 | 2.3 | 70 | | 1150 | 2.3 | 70 | | 1308 | 3.0 | 90 | | 1351 | 3.0 | 90 |
| | 1806 | 7.9 | 240 | | 1734 | 7.5 | 230 | | 1820 | 6.2 | 190 | | 1807 | 6.6 | 200 | | 1812 | 4.6 | 140 | | 1805 | 4.6 | 140 |
| | | | 31 Su | 0053 | 3.3 | 100 | | | | 31 W | 0101 | 2.0 | 60 | | | | | | | | | | |
| | | | | 0406 | 3.9 | 120 | | | | | 0634 | 4.6 | 140 | | | | | | | | | | |
| | | | | 1051 | 2.0 | 60 | | | | 1244 | 2.6 | 80 | | | | | | | | | | | |
| | | | | 1806 | 7.5 | 230 | | | | 1838 | 6.2 | 190 | | | | | | | | | | | |

Musay'id Outer Channel Entrance, Qatar, 2011

Times and Heights of High and Low Waters

| October | | | | November | | | | December | | | | | | | | | | | | | | | |
|-----------------|--------|-----|----------------|-----------------|------|------|--------|-----------------|------|--------|-----|-----------------|--------|-----|------|-----------------|------|-----|------|-----------------|------|-----|-----|
| Time | Height | | Time | Height | | Time | Height | | Time | Height | | Time | Height | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | |
| 1 Sa | 0132 | 1.6 | 50 | 16 Su | 0018 | 1.6 | 50 | 1 Tu | 0209 | 2.3 | 70 | 16 W | 0002 | 2.0 | 60 | 1 Th | 0944 | 6.6 | 200 | 16 F | 0110 | 2.3 | 70 |
| | 0825 | 6.6 | 200 | | 0755 | 5.9 | 180 | | 0951 | 7.2 | 220 | | 0843 | 6.6 | 200 | | 1801 | 2.3 | 70 | | 0852 | 6.2 | 190 |
| | 1457 | 3.3 | 100 | | 1456 | 3.3 | 100 | | 1800 | 2.6 | 80 | | 2357 | 2.0 | 60 | | 1047 | 5.6 | 170 | | 1636 | 2.0 | 60 |
| | 1831 | 4.3 | 130 | | 1724 | 3.6 | 110 | | 1951 | 3.0 | 90 | | | | | | 1931 | 2.0 | 60 | | 2053 | 3.0 | 90 |
| 2 Su | 0211 | 1.6 | 50 | 17 M | 0025 | 1.6 | 50 | 2 W | 0006 | 2.6 | 80 | 17 Th | 0926 | 6.2 | 190 | 2 F | 1017 | 5.9 | 180 | 17 Sa | 0222 | 2.6 | 80 |
| | 0925 | 6.6 | 200 | | 0836 | 6.2 | 190 | | 1045 | 6.9 | 210 | | 1727 | 2.6 | 80 | | 1852 | 2.3 | 70 | | 0929 | 5.9 | 180 |
| | 1614 | 3.3 | 100 | | 1556 | 3.3 | 100 | | 1915 | 2.6 | 80 | | 2012 | 2.6 | 80 | | | | | | 1715 | 2.0 | 60 |
| | 1903 | 3.9 | 120 | | 1740 | 3.3 | 100 | | | | | | 2359 | 2.3 | 70 | | | | | | | | |
| 3 M | 0250 | 2.0 | 60 | 18 Tu | 0034 | 2.0 | 60 | 3 Th | 1137 | 6.2 | 190 | 18 F | 1011 | 6.2 | 190 | 3 Sa | 0317 | 3.6 | 110 | 18 Su | 0129 | 3.3 | 100 |
| | 1030 | 6.6 | 200 | | 0922 | 6.2 | 190 | | 2004 | 2.3 | 70 | | 1815 | 2.3 | 70 | | 0352 | 3.6 | 110 | | 0345 | 3.0 | 90 |
| | 1839 | 3.3 | 100 | | | | | | | | | | 2258 | 2.6 | 80 | | 1047 | 5.6 | 170 | | 1007 | 5.6 | 170 |
| | 1932 | 3.3 | 100 | | | | | | | | | | | | 1931 | | 2.0 | 60 | 1757 | | 1.6 | 50 | |
| 4 Tu | 0330 | 2.3 | 70 | 19 W | 0034 | 2.0 | 60 | 4 F | 1225 | 5.9 | 180 | 19 Sa | 0002 | 2.6 | 80 | 4 Su | 0340 | 4.3 | 130 | 19 M | 0214 | 3.9 | 120 |
| | 1136 | 6.6 | 200 | | 1012 | 6.2 | 190 | | 2044 | 2.0 | 60 | | 1057 | 5.9 | 180 | | 0504 | 4.3 | 130 | | 0501 | 3.6 | 110 |
| | | | | | | | | | | | | | 1859 | 2.0 | 60 | | 1118 | 4.9 | 150 | | 1046 | 4.9 | 150 |
| | | | | | | | | | | | | | | | 1958 | | 2.0 | 60 | 1840 | | 1.6 | 50 | |
| 5 W | 0411 | 2.6 | 80 | 20 Th | 0040 | 2.3 | 70 | 5 Sa | 0424 | 3.6 | 110 | 20 Su | 0254 | 3.3 | 100 | 5 M | 0358 | 4.6 | 140 | 20 Tu | 0249 | 4.6 | 140 |
| | 1239 | 6.6 | 200 | | 1108 | 6.2 | 190 | | 0528 | 3.6 | 110 | | 0500 | 3.3 | 100 | | 0711 | 4.3 | 130 | | 0636 | 3.9 | 120 |
| | 2102 | 2.6 | 80 | | | | | | 1305 | 5.6 | 170 | | 1146 | 5.6 | 170 | | 1150 | 4.6 | 140 | | 1131 | 4.6 | 140 |
| | | | | | | | | | 2116 | 2.0 | 60 | | 1939 | 2.0 | 60 | | 2020 | 2.0 | 60 | | 1925 | 1.3 | 40 |
| 6 Th | 0359 | 3.0 | 90 | 21 F | 0053 | 2.3 | 70 | 6 Su | 0430 | 3.9 | 120 | 21 M | 0311 | 3.9 | 120 | 6 Tu | 0415 | 4.9 | 150 | 21 W | 0323 | 5.2 | 160 |
| | 0502 | 3.0 | 90 | | 1206 | 5.9 | 180 | | 0810 | 3.9 | 120 | | 0627 | 3.6 | 110 | | 1040 | 4.3 | 130 | | 0914 | 3.9 | 120 |
| | 1334 | 6.6 | 200 | | 2039 | 2.6 | 80 | | 1337 | 4.9 | 150 | | 1234 | 5.2 | 160 | | 1225 | 4.3 | 130 | | 1226 | 4.3 | 130 |
| | 2135 | 2.3 | 70 | | | | | | 2139 | 2.0 | 60 | | 2019 | 1.6 | 50 | | 2043 | 2.0 | 60 | | 2012 | 1.3 | 40 |
| 7 F | 0431 | 3.3 | 100 | 22 Sa | 0309 | 3.0 | 90 | 7 M | 0436 | 4.6 | 140 | 22 Tu | 0335 | 4.9 | 150 | 7 W | 0433 | 5.2 | 160 | 22 Th | 0400 | 5.9 | 180 |
| | 0622 | 3.0 | 90 | | 0458 | 3.0 | 90 | | 0940 | 3.6 | 110 | | 0847 | 3.6 | 110 | | 1133 | 3.9 | 120 | | 1046 | 3.6 | 110 |
| | 1423 | 6.2 | 190 | | 1302 | 5.9 | 180 | | 1404 | 4.6 | 140 | | 1320 | 4.9 | 150 | | 1303 | 3.9 | 120 | | 1325 | 3.9 | 120 |
| | 2207 | 2.0 | 60 | | 2053 | 2.3 | 70 | | 2156 | 2.0 | 60 | | 2058 | 1.3 | 40 | | 2107 | 2.0 | 60 | | 2059 | 1.0 | 30 |
| 8 Sa | 0424 | 3.6 | 110 | 23 Su | 0316 | 3.6 | 110 | 8 Tu | 0452 | 4.9 | 150 | 23 W | 0409 | 5.6 | 170 | 8 Th | 0455 | 5.9 | 180 | 23 F | 0440 | 6.6 | 200 |
| | 0825 | 3.3 | 100 | | 0635 | 3.0 | 90 | | 1038 | 3.6 | 110 | | 1015 | 3.6 | 110 | | 1211 | 3.6 | 110 | | 1143 | 3.3 | 100 |
| | 1502 | 5.9 | 180 | | 1351 | 5.6 | 170 | | 1432 | 4.3 | 130 | | 1405 | 4.6 | 140 | | 1347 | 3.6 | 110 | | 1422 | 3.6 | 110 |
| | 2234 | 2.0 | 60 | | 2120 | 2.0 | 60 | | 2211 | 2.0 | 60 | | 2138 | 1.3 | 40 | | 2130 | 1.6 | 50 | | 2147 | 1.0 | 30 |
| 9 Su | 0437 | 3.6 | 110 | 24 M | 0341 | 3.9 | 120 | 9 W | 0512 | 5.2 | 160 | 24 Th | 0449 | 6.2 | 190 | 9 F | 0519 | 6.2 | 190 | 24 Sa | 0521 | 7.2 | 220 |
| | 0932 | 3.0 | 90 | | 0832 | 3.3 | 100 | | 1125 | 3.3 | 100 | | 1122 | 3.3 | 100 | | 1241 | 3.3 | 100 | | 1231 | 3.0 | 90 |
| | 1531 | 5.2 | 160 | | 1435 | 5.6 | 170 | | 1501 | 3.9 | 120 | | 1449 | 4.3 | 130 | | 1434 | 3.6 | 110 | | 1516 | 3.6 | 110 |
| | 2255 | 2.0 | 60 | | 2150 | 1.6 | 50 | | 2229 | 1.6 | 50 | | 2219 | 1.3 | 40 | | 2149 | 1.6 | 50 | | 2233 | 1.3 | 40 |
| 10 M | 0459 | 4.3 | 130 | 25 Tu | 0416 | 4.9 | 150 | 10 Th | 0535 | 5.6 | 170 | 25 F | 0531 | 6.9 | 210 | 10 Sa | 0545 | 6.6 | 200 | 25 Su | 0601 | 7.5 | 230 |
| | 1023 | 3.0 | 90 | | 1000 | 3.0 | 90 | | 1207 | 3.3 | 100 | | 1221 | 3.0 | 90 | | 1310 | 3.3 | 100 | | 1317 | 2.6 | 80 |
| | 1552 | 4.9 | 150 | | 1514 | 5.2 | 160 | | 1528 | 3.9 | 120 | | 1535 | 3.9 | 120 | | 1521 | 3.3 | 100 | | 1609 | 3.3 | 100 |
| | 2310 | 2.0 | 60 | | 2224 | 1.6 | 50 | | 2246 | 1.6 | 50 | | 2300 | 1.3 | 40 | | 2201 | 1.6 | 50 | | 2318 | 1.3 | 40 |
| 11 Tu | 0521 | 4.6 | 140 | 26 W | 0458 | 5.6 | 170 | 11 F | 0601 | 5.9 | 180 | 26 Sa | 0615 | 7.2 | 220 | 11 Su | 0611 | 6.6 | 200 | 26 M | 0641 | 7.5 | 230 |
| | 1107 | 3.0 | 90 | | 1105 | 3.0 | 90 | | 1248 | 3.3 | 100 | | 1316 | 3.0 | 90 | | 1340 | 3.0 | 90 | | 1401 | 2.6 | 80 |
| | 1613 | 4.6 | 140 | | 1547 | 4.9 | 150 | | 1556 | 3.6 | 110 | | 1621 | 3.9 | 120 | | 1607 | 3.3 | 100 | | 1702 | 3.3 | 100 |
| | 2324 | 2.0 | 60 | | 2259 | 1.3 | 40 | | 2259 | 1.6 | 50 | | 2341 | 1.3 | 40 | | 2222 | 1.6 | 50 | | | | |
| 12 W | 0545 | 4.9 | 150 | 27 Th | 0542 | 6.2 | 190 | 12 Sa | 0628 | 6.2 | 190 | 27 Su | 0659 | 7.5 | 230 | 12 M | 0637 | 6.9 | 210 | 27 Tu | 0002 | 1.6 | 50 |
| | 1149 | 3.0 | 90 | | 1205 | 3.0 | 90 | | 1330 | 3.0 | 90 | | 1410 | 2.6 | 80 | | 1411 | 3.0 | 90 | | 0718 | 7.2 | 220 |
| | 1636 | 4.3 | 130 | | 1616 | 4.6 | 140 | | 1623 | 3.6 | 110 | | 1709 | 3.6 | 110 | | 1653 | 3.3 | 100 | | 1444 | 2.3 | 70 |
| | 2338 | 2.0 | 60 | | 2336 | 1.3 | 40 | | 2302 | 1.6 | 50 | | | | | | 2257 | 1.6 | 50 | | 1755 | 3.3 | 100 |
| 13 Th | 0613 | 5.2 | 160 | 28 F | 0628 | 6.6 | 200 | 13 Su | 0657 | 6.6 | 200 | 28 M | 0021 | 1.6 | 50 | 13 Tu | 0706 | 6.9 | 210 | 28 W | 0044 | 2.0 | 60 |
| | 1231 | 3.0 | 90 | | 1304 | 3.0 | 90 | | 1414 | 3.0 | 90 | | 0743 | 7.5 | 230 | | 1445 | 2.6 | 80 | | 0752 | 6.9 | 210 |
| | 1656 | 4.3 | 130 | | 1648 | 4.3 | 130 | | 1651 | 3.3 | 100 | | 1506 | 2.6 | 80 | | 1739 | 3.0 | 90 | | 1524 | 2.3 | 70 |
| | 2353 | 2.0 | 60 | | | | | | 2313 | 1.6 | 50 | | 1759 | 3.3 | 100 | | 2337 | 1.6 | 50 | | 1857 | 3.0 | 90 |
| 14 F | 0644 | 5.6 | 170 | 29 Sa | 0014 | 1.3 | 40 | 14 M | 0729 | 6.6 | 200 | 29 Tu | 0101 | 2.0 | 60 | 14 W | 0739 | 6.9 | 210 | 29 Th | 0126 | 2.3 | 70 |
| | 1315 | 3.0 | 90 | | 0716 | 6.9 | 210 | | 1500 | 3.0 | 90 | | 0826 | 7.5 | 230 | | 1520 | 2.3 | 70 | | 0821 | 6.6 | 200 |
| | 1707 | 3.9 | 120 | | 1405 | 3.0 | 90 | | 1720 | 3.3 | 100 | | 1602 | 2.6 | 80 | | 1828 | 3.0 | 90 | | 1602 | 2.3 | 70 |
| | | | | | 1725 | 3.9 | 120 | | 2338 | 1.6 | 50 | | 1854 | 3.0 | 90 | | | | | | 2051 | 3.0 | 90 |
| 15 Sa | 0007 | 1.6 | 50 | 30 Su | 0053 | 1.6 | 50 | 15 Tu | 0804 | 6.6 | 200 | 30 W | 0139 | 2.3 | 70 | 15 Th | 0020 | 2.0 | 60 | 30 F | 0208 | 2.6 | 80 |
| | 0718 | 5.9 | 180 | | 0805 | 7.2 | 220 | | 1548 | 3.0 | 90 | | 0907 | 6.9 | 210 | | 0814 | 6.6 | 200 | | 0846 | 6.2 | 190 |
| | 1403 | 3.0 | 90 | | 1509 | 3.0 | 90 | | 1753 | 3.0 | 90 | | 1702 | 2.3 | 70 | | 1557 | 2.3 | 70 | | 1637 | 2.0 | 60 |
| | 1711 | 3.6 | 110 | | 1807 | 3.6 | 110 | | | | | | | | 1924 | | 3.0 | 90 | 2358 | | 3.3 | 100 | |
| | | | 31 M | 0132 | 1.6 | 50 | | | | | | | | | | | | | | | | | |
| | | | | 0857 | 7.2 | 220 | | | | | | | | | | | | | | | | | |
| | | | | 1623 | 3.0 | 90 | | | | | | | | | | | | | | | | | |

Mina Jebel Ali, United Arab Emirates, 2011

Times and Heights of High and Low Waters

| July | | | | August | | | | September | | | | | | |
|-----------------|--------|-----|------|--------|-----------------|------|--------|-----------|------|-----------------|------|------|--------|----|
| Time | Height | | Time | Height | | Time | Height | | Time | Height | | Time | Height | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm |
| 1 F | 0711 | 1.0 | 30 | | 16 Sa | 0038 | 6.6 | 200 | | 1 M | 0048 | 6.9 | 210 | |
| | 1318 | 4.6 | 140 | | | 0744 | 0.7 | 20 | | | 0750 | 0.7 | 20 | |
| | 1730 | 3.0 | 90 | | | 1401 | 4.9 | 150 | | | 1400 | 5.2 | 160 | |
| ● | | | | | | 1831 | 3.0 | 90 | | | 1905 | 2.3 | 70 | |
| 2 Sa | 0020 | 6.6 | 200 | | 17 Su | 0120 | 6.6 | 200 | | 2 Tu | 0133 | 6.9 | 210 | |
| | 0745 | 0.7 | 20 | | | 0815 | 0.7 | 20 | | | 0823 | 0.7 | 20 | |
| | 1354 | 4.6 | 140 | | | 1433 | 5.2 | 160 | | | 1432 | 5.6 | 170 | |
| | 1814 | 3.0 | 90 | | | 1918 | 3.0 | 90 | | | 1957 | 2.3 | 70 | |
| 3 Su | 0101 | 6.9 | 210 | | 18 M | 0158 | 6.2 | 190 | | 3 W | 0217 | 6.6 | 200 | |
| | 0819 | 0.7 | 20 | | | 0843 | 1.0 | 30 | | | 0855 | 1.0 | 30 | |
| | 1428 | 4.9 | 150 | | | 1505 | 5.2 | 160 | | | 1507 | 5.6 | 170 | |
| | 1904 | 3.0 | 90 | | | 2002 | 3.0 | 90 | | | 2051 | 2.0 | 60 | |
| 4 M | 0142 | 6.9 | 210 | | 19 Tu | 0232 | 6.2 | 190 | | 4 Th | 0302 | 6.2 | 190 | |
| | 0853 | 0.7 | 20 | | | 0909 | 1.0 | 30 | | | 0926 | 1.3 | 40 | |
| | 1503 | 4.9 | 150 | | | 1536 | 5.2 | 160 | | | 1545 | 5.9 | 180 | |
| | 1956 | 2.6 | 80 | | | 2045 | 3.0 | 90 | | | 2148 | 2.0 | 60 | |
| 5 Tu | 0224 | 6.6 | 200 | | 20 W | 0304 | 5.6 | 170 | | 5 F | 0351 | 5.6 | 170 | |
| | 0928 | 1.0 | 30 | | | 0934 | 1.3 | 40 | | | 0955 | 2.0 | 60 | |
| | 1539 | 5.2 | 160 | | | 1607 | 5.2 | 160 | | | 1627 | 5.9 | 180 | |
| | 2052 | 2.6 | 80 | | | 2127 | 3.0 | 90 | | | 2253 | 2.0 | 60 | |
| 6 W | 0309 | 6.2 | 190 | | 21 Th | 0335 | 5.2 | 160 | | 6 Sa | 0446 | 4.9 | 150 | |
| | 1004 | 1.3 | 40 | | | 0959 | 1.6 | 50 | | | 1024 | 2.3 | 70 | |
| | 1619 | 5.2 | 160 | | | 1639 | 5.2 | 160 | | ● | 1713 | 5.9 | 180 | |
| | 2151 | 2.6 | 80 | | | 2210 | 3.0 | 90 | | | | | | |
| 7 Th | 0358 | 5.9 | 180 | | 22 F | 0407 | 4.9 | 150 | | 7 Su | 0010 | 2.0 | 60 | |
| | 1041 | 1.6 | 50 | | | 1025 | 2.0 | 60 | | | 0556 | 4.3 | 130 | |
| | 1703 | 5.6 | 170 | | | 1711 | 5.2 | 160 | | | 1101 | 2.6 | 80 | |
| | 2256 | 2.6 | 80 | | | 2302 | 3.0 | 90 | | | 1806 | 5.9 | 180 | |
| 8 F | 0455 | 5.2 | 160 | | 23 Sa | 0445 | 4.3 | 130 | | 8 M | 0142 | 2.0 | 60 | |
| | 1120 | 2.0 | 60 | | | 1052 | 2.3 | 70 | | | 0740 | 3.9 | 120 | |
| | 1750 | 5.6 | 170 | | ● | 1747 | 5.2 | 160 | | | 1154 | 3.0 | 90 | |
| ● | | | | | | | | | | | 1910 | 5.9 | 180 | |
| 9 Sa | 0012 | 2.3 | 70 | | 24 Su | 0021 | 3.0 | 90 | | 9 Tu | 0315 | 1.6 | 50 | |
| | 0605 | 4.6 | 140 | | | 0541 | 3.6 | 110 | | | 0949 | 3.9 | 120 | |
| | 1203 | 2.3 | 70 | | | 1123 | 2.6 | 80 | | | 1333 | 3.3 | 100 | |
| | 1841 | 5.9 | 180 | | | 1830 | 5.2 | 160 | | | 2029 | 5.9 | 180 | |
| 10 Su | 0147 | 2.3 | 70 | | 25 M | 0245 | 2.6 | 80 | | 10 W | 0430 | 1.3 | 40 | |
| | 0736 | 4.3 | 130 | | | 0730 | 3.3 | 100 | | | 1105 | 4.3 | 130 | |
| | 1254 | 2.6 | 80 | | | 1204 | 3.0 | 90 | | | 1504 | 3.6 | 110 | |
| | 1940 | 5.9 | 180 | | | 1925 | 5.6 | 170 | | | 2147 | 5.9 | 180 | |
| 11 M | 0324 | 2.0 | 60 | | 26 Tu | 0401 | 2.3 | 70 | | 11 Th | 0527 | 1.0 | 30 | |
| | 0920 | 3.9 | 120 | | | 0939 | 3.3 | 100 | | | 1154 | 4.6 | 140 | |
| | 1356 | 3.0 | 90 | | | 1306 | 3.3 | 100 | | | 1608 | 3.3 | 100 | |
| | 2048 | 5.9 | 180 | | | 2030 | 5.6 | 170 | | | 2251 | 5.9 | 180 | |
| 12 Tu | 0437 | 1.3 | 40 | | 27 W | 0453 | 1.6 | 50 | | 12 F | 0612 | 0.7 | 20 | |
| | 1048 | 4.3 | 130 | | | 1106 | 3.6 | 110 | | | 1232 | 4.6 | 140 | |
| | 1503 | 3.3 | 100 | | | 1431 | 3.3 | 100 | | | 1701 | 3.3 | 100 | |
| | 2156 | 6.2 | 190 | | | 2133 | 5.9 | 180 | | | 2344 | 6.2 | 190 | |
| 13 W | 0536 | 1.0 | 30 | | 28 Th | 0535 | 1.3 | 40 | | 13 Sa | 0648 | 0.7 | 20 | |
| | 1153 | 4.3 | 130 | | | 1150 | 3.9 | 120 | | | 1305 | 4.9 | 150 | |
| | 1602 | 3.3 | 100 | | | 1542 | 3.3 | 100 | | | 1747 | 3.0 | 90 | |
| | 2256 | 6.2 | 190 | | | 2228 | 6.2 | 190 | | ○ | | | | |
| 14 Th | 0625 | 0.7 | 20 | | 29 F | 0611 | 1.0 | 30 | | 14 Su | 0028 | 6.2 | 190 | |
| | 1244 | 4.6 | 140 | | | 1226 | 4.3 | 130 | | | 0717 | 0.7 | 20 | |
| | 1655 | 3.3 | 100 | | | 1635 | 3.3 | 100 | | | 1333 | 5.2 | 160 | |
| | 2350 | 6.6 | 200 | | | 2317 | 6.6 | 200 | | | 1831 | 2.6 | 80 | |
| 15 F | 0708 | 0.7 | 20 | | 30 Sa | 0645 | 0.7 | 20 | | 15 M | 0108 | 6.2 | 190 | |
| | 1325 | 4.9 | 150 | | | 1258 | 4.6 | 140 | | | 0743 | 1.0 | 30 | |
| | 1744 | 3.3 | 100 | | ● | 1724 | 3.0 | 90 | | | 1400 | 5.2 | 160 | |
| ○ | | | | | | | | | | | 1912 | 2.6 | 80 | |
| 16 Sa | 0003 | 6.9 | 210 | | 31 Su | 0003 | 6.9 | 210 | | 16 Tu | 0036 | 6.6 | 200 | |
| | 0717 | 0.7 | 20 | | | 0717 | 0.7 | 20 | | | 0717 | 0.7 | 20 | |
| | 1330 | 4.9 | 150 | | | 1330 | 4.9 | 150 | | | 1327 | 5.6 | 170 | |
| | 1813 | 2.6 | 80 | | | 1813 | 2.6 | 80 | | | 1904 | 1.6 | 50 | |
| 17 Su | 0210 | 6.2 | 190 | | 1 M | 0210 | 6.2 | 190 | | 17 W | 0124 | 6.6 | 200 | |
| | 0819 | 1.3 | 40 | | | 0819 | 1.3 | 40 | | | 0749 | 1.0 | 30 | |
| | 1435 | 6.2 | 190 | | | 1435 | 6.2 | 190 | | | 1400 | 5.9 | 180 | |
| | 2049 | 1.3 | 40 | | | 2049 | 1.3 | 40 | | | 1956 | 1.3 | 40 | |
| 18 M | 0256 | 5.9 | 180 | | 2 Tu | 0256 | 5.9 | 180 | | 18 Th | 0210 | 6.2 | 190 | |
| | 0845 | 1.6 | 50 | | | 0845 | 1.6 | 50 | | | 0819 | 1.3 | 40 | |
| | 1512 | 6.2 | 190 | | | 1512 | 6.2 | 190 | | | 1435 | 6.2 | 190 | |
| | 2145 | 1.3 | 40 | | | 2145 | 1.3 | 40 | | | 2049 | 1.3 | 40 | |
| 19 Sa | 0255 | 4.6 | 140 | | 3 W | 0255 | 4.6 | 140 | | 19 F | 0210 | 6.2 | 190 | |
| | 0824 | 2.0 | 60 | | | 0824 | 2.0 | 60 | | | 0819 | 1.3 | 40 | |
| | 1456 | 5.6 | 170 | | | 1456 | 5.6 | 170 | | | 1435 | 6.2 | 190 | |
| | 2123 | 1.6 | 50 | | | 2123 | 1.6 | 50 | | | 2049 | 1.3 | 40 | |
| 20 Su | 0326 | 4.3 | 130 | | 4 Th | 0326 | 4.3 | 130 | | 20 Sa | 0256 | 5.9 | 180 | |
| | 0844 | 2.3 | 70 | | | 0844 | 2.3 | 70 | | | 0845 | 1.6 | 50 | |
| | 1520 | 5.6 | 170 | | | 1520 | 5.6 | 170 | | | 1512 | 6.2 | 190 | |
| | 2206 | 1.6 | 50 | | | 2206 | 1.6 | 50 | | | 2145 | 1.3 | 40 | |
| 21 M | 0403 | 3.9 | 120 | | 5 F | 0403 | 3.9 | 120 | | 21 Su | 0441 | 4.6 | 140 | |
| | 0903 | 2.3 | 70 | | | 0903 | 2.3 | 70 | | | 0934 | 2.6 | 80 | |
| | 1551 | 5.6 | 170 | | | 1551 | 5.6 | 170 | | | 1639 | 5.9 | 180 | |
| | 2302 | 1.6 | 50 | | | 2302 | 1.6 | 50 | | ● | | | | |
| 22 Tu | 0457 | 3.6 | 110 | | 6 Sa | 0457 | 3.6 | 110 | | 22 M | 0005 | 1.3 | 40 | |
| | 0918 | 2.6 | 80 | | | 0918 | 2.6 | 80 | | | 0556 | 3.9 | 120 | |
| | 1633 | 5.2 | 160 | | | 1633 | 5.2 | 160 | | | 1008 | 3.0 | 90 | |
| ○ | | | | | | | | | | | 1734 | 5.9 | 180 | |
| 23 W | 0026 | 1.6 | 50 | | 7 Su | 0026 | 1.6 | 50 | | 23 Tu | 0129 | 1.3 | 40 | |
| | 0631 | 3.3 | 100 | | | 0631 | 3.3 | 100 | | | 0803 | 3.6 | 110 | |
| | 0930 | 3.0 | 90 | | | 0930 | 3.0 | 90 | | | 1056 | 3.3 | 100 | |
| | 1735 | 5.2 | 160 | | | 1735 | 5.2 | 160 | | | 1845 | 5.6 | 170 | |
| 24 Th | 0205 | 1.6 | 50 | | 8 M | 0205 | 1.6 | 50 | | 24 W | 0258 | 1.3 | 40 | |
| | 1000 | 3.3 | 100 | | | 1000 | 3.3 | 100 | | | 0959 | 3.9 | 120 | |
| | 1138 | 3.3 | 100 | | | 1138 | 3.3 | 100 | | | | | | |

Mina Jebel Ali, United Arab Emirates, 2011

Times and Heights of High and Low Waters

| October | | | | November | | | | December | | | | | | | | | | | | | | | |
|-----------------|--------|-----|----------------|-----------------|------|------|--------|-----------------|------|--------|-----|-----------------|--------|------|------|-----------------|------|-----|------|-----------------|------|------|-----|
| Time | Height | | Time | Height | | Time | Height | | Time | Height | | Time | Height | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | |
| 1 Sa | 0251 | 5.2 | 160 | 16 Su | 0245 | 4.3 | 130 | 1 Tu | 0441 | 4.3 | 130 | 16 W | 0400 | 4.3 | 130 | 1 Th | 0514 | 4.6 | 140 | 16 F | 0424 | 4.6 | 140 |
| | 0807 | 2.0 | 60 | | 0748 | 2.3 | 70 | | 0854 | 3.0 | 90 | | 0833 | 3.0 | 90 | | 0948 | 3.3 | 100 | | 0926 | 2.6 | 80 |
| | 1443 | 6.6 | 200 | | 1418 | 5.6 | 170 | | 1546 | 5.9 | 180 | | 1457 | 5.6 | 170 | | 1615 | 5.2 | 160 | | 1535 | 5.2 | 160 |
| | 2141 | 0.7 | 20 | | 2113 | 1.0 | 30 | | 2324 | 0.7 | 20 | | 2230 | 1.0 | 30 | | 2328 | 1.0 | 30 | | 2245 | 1.0 | 30 |
| 2 Su | 0342 | 4.9 | 150 | 17 M | 0320 | 4.3 | 130 | 2 W | 0548 | 4.3 | 130 | 17 Th | 0449 | 3.9 | 120 | 2 F | 0604 | 4.6 | 140 | 17 Sa | 0506 | 4.6 | 140 |
| | 0834 | 2.3 | 70 | | 0813 | 2.3 | 70 | | 0940 | 3.3 | 100 | | 0923 | 3.0 | 90 | | 1057 | 3.3 | 100 | | 1029 | 2.6 | 80 |
| | 1523 | 6.2 | 190 | | 1442 | 5.6 | 170 | | 1640 | 5.2 | 160 | | 1541 | 5.2 | 160 | | 1712 | 4.6 | 140 | | 1629 | 4.9 | 150 |
| | 2242 | 0.7 | 20 | | 2155 | 1.0 | 30 | | 2324 | 0.7 | 20 | | 2319 | 1.0 | 30 | | 2328 | 1.0 | 30 | | 2326 | 1.3 | 40 |
| 3 M | 0441 | 4.3 | 130 | 18 Tu | 0401 | 3.9 | 120 | 3 Th | 0023 | 1.0 | 30 | 18 F | 0545 | 4.3 | 130 | 3 Sa | 0010 | 1.6 | 50 | 18 Su | 0553 | 4.9 | 150 |
| | 0904 | 3.0 | 90 | | 0840 | 2.6 | 80 | | 0704 | 4.3 | 130 | | 1029 | 3.0 | 90 | | 0654 | 4.6 | 140 | | 1143 | 2.6 | 80 |
| | 1609 | 5.9 | 180 | | 1514 | 5.6 | 170 | | 1056 | 3.6 | 110 | | 1639 | 4.9 | 150 | | 1249 | 3.3 | 100 | | 1736 | 4.6 | 140 |
| | 2351 | 1.0 | 30 | | 2247 | 1.3 | 40 | | 1750 | 4.9 | 150 | | 1930 | 4.3 | 130 | | 1822 | 4.3 | 130 | | 1822 | 4.3 | 130 |
| 4 Tu | 0601 | 3.9 | 120 | 19 W | 0458 | 3.6 | 110 | 4 F | 0124 | 1.3 | 40 | 19 Sa | 0010 | 1.3 | 40 | 4 Su | 0053 | 2.0 | 60 | 19 M | 0011 | 1.6 | 50 |
| | 0942 | 3.3 | 100 | | 0915 | 3.0 | 90 | | 0821 | 4.3 | 130 | | 0642 | 4.3 | 130 | | 0746 | 4.6 | 140 | | 0642 | 4.9 | 150 |
| | 1706 | 5.6 | 170 | | 1556 | 5.2 | 160 | | 1445 | 3.6 | 110 | | 1152 | 3.0 | 90 | | 1535 | 3.0 | 90 | | 1313 | 2.3 | 70 |
| | | | | | 2349 | 1.3 | 40 | | 1916 | 4.6 | 140 | | 1758 | 4.6 | 140 | | 1944 | 3.6 | 110 | | 1900 | 3.9 | 120 |
| 5 W | 0104 | 1.3 | 40 | 20 Th | 0614 | 3.6 | 110 | 5 Sa | 0225 | 1.6 | 50 | 20 Su | 0103 | 1.3 | 40 | 5 M | 0139 | 2.0 | 60 | 20 Tu | 0059 | 2.0 | 60 |
| | 0756 | 3.9 | 120 | | 1014 | 3.3 | 100 | | 0920 | 4.6 | 140 | | 0739 | 4.6 | 140 | | 0839 | 4.9 | 150 | | 0739 | 5.2 | 160 |
| | 1037 | 3.6 | 110 | | 1658 | 4.9 | 150 | | 1609 | 3.3 | 100 | | 1331 | 2.6 | 80 | | 1627 | 2.6 | 80 | | 1459 | 2.0 | 60 |
| | 1821 | 5.2 | 160 | | | | | | 2047 | 4.3 | 130 | | 1930 | 4.3 | 130 | | 2115 | 3.6 | 110 | | 2040 | 3.9 | 120 |
| 6 Th | 0223 | 1.3 | 40 | 21 F | 0057 | 1.3 | 40 | 6 Su | 0318 | 2.0 | 60 | 21 M | 0157 | 1.6 | 50 | 6 Tu | 0228 | 2.3 | 70 | 21 W | 0154 | 2.3 | 70 |
| | 0931 | 3.9 | 120 | | 0737 | 3.6 | 110 | | 1001 | 4.9 | 150 | | 0836 | 4.9 | 150 | | 0929 | 4.9 | 150 | | 0841 | 5.2 | 160 |
| | 1404 | 3.6 | 110 | | 1149 | 3.3 | 100 | | 1652 | 2.6 | 80 | | 1515 | 2.3 | 70 | | 1704 | 2.0 | 60 | | 1616 | 1.3 | 40 |
| | 1955 | 4.9 | 150 | | 1828 | 4.9 | 150 | | 2200 | 4.3 | 130 | | 2058 | 4.3 | 130 | | 2228 | 3.6 | 110 | | 2208 | 3.9 | 120 |
| 7 F | 0335 | 1.3 | 40 | 22 Sa | 0206 | 1.3 | 40 | 7 M | 0358 | 2.0 | 60 | 22 Tu | 0251 | 2.0 | 60 | 7 W | 0317 | 2.3 | 70 | 22 Th | 0253 | 2.3 | 70 |
| | 1022 | 4.3 | 130 | | 0850 | 3.9 | 120 | | 1034 | 4.9 | 150 | | 0929 | 5.2 | 160 | | 1012 | 5.2 | 160 | | 0944 | 5.6 | 170 |
| | 1605 | 3.3 | 100 | | 1345 | 3.0 | 90 | | 1723 | 2.3 | 70 | | 1624 | 1.6 | 50 | | 1735 | 1.6 | 50 | | 1715 | 0.7 | 20 |
| | 2125 | 4.9 | 150 | | 2000 | 4.9 | 150 | | 2253 | 4.3 | 130 | | 2213 | 4.6 | 140 | | 2321 | 3.9 | 120 | | 2320 | 3.9 | 120 |
| 8 Sa | 0427 | 1.3 | 40 | 23 Su | 0307 | 1.3 | 40 | 8 Tu | 0429 | 2.0 | 60 | 23 W | 0342 | 2.0 | 60 | 8 Th | 0400 | 2.6 | 80 | 23 F | 0351 | 2.6 | 80 |
| | 1057 | 4.6 | 140 | | 0941 | 4.6 | 140 | | 1105 | 5.2 | 160 | | 1019 | 5.6 | 170 | | 1051 | 5.6 | 170 | | 1042 | 5.9 | 180 |
| | 1655 | 3.0 | 90 | | 1527 | 2.6 | 80 | | 1751 | 2.0 | 60 | | 1719 | 1.0 | 30 | | 1808 | 1.3 | 40 | | 1807 | 0.3 | 10 |
| | 2228 | 4.9 | 150 | | 2118 | 4.9 | 150 | | 2337 | 4.3 | 130 | | 2317 | 4.6 | 140 | | | | | | | | |
| 9 Su | 0505 | 1.3 | 40 | 24 M | 0358 | 1.3 | 40 | 9 W | 0459 | 2.3 | 70 | 24 Th | 0429 | 2.0 | 60 | 9 F | 0006 | 3.9 | 120 | 24 Sa | 0020 | 4.3 | 130 |
| | 1126 | 4.9 | 150 | | 1022 | 4.9 | 150 | | 1135 | 5.6 | 170 | | 1107 | 5.9 | 180 | | 0439 | 2.6 | 80 | | 0444 | 2.6 | 80 |
| | 1728 | 2.6 | 80 | | 1629 | 2.0 | 60 | | 1821 | 1.3 | 40 | | 1810 | 0.3 | 10 | | 1126 | 5.6 | 170 | | 1135 | 6.2 | 190 |
| | 2316 | 5.2 | 160 | | 2224 | 5.2 | 160 | | | | | | | | 1841 | | 1.0 | 30 | 1855 | | 0.0 | 0 | |
| 10 M | 0533 | 1.6 | 50 | 25 Tu | 0441 | 1.3 | 40 | 10 Th | 0015 | 4.6 | 140 | 25 F | 0016 | 4.6 | 140 | 10 Sa | 0046 | 3.9 | 120 | 25 Su | 0113 | 4.6 | 140 |
| | 1152 | 5.2 | 160 | | 1101 | 5.2 | 160 | | 0527 | 2.3 | 70 | | 0512 | 2.3 | 70 | | 0514 | 2.6 | 80 | | 0535 | 2.6 | 80 |
| | 1758 | 2.0 | 60 | | 1721 | 1.3 | 40 | | 1205 | 5.6 | 170 | | 1153 | 6.2 | 190 | | 1159 | 5.9 | 180 | | 1225 | 6.2 | 190 |
| | 2356 | 4.9 | 150 | | 2323 | 5.2 | 160 | | 1853 | 1.3 | 40 | | 1859 | 0.0 | 0 | | 1915 | 0.7 | 20 | | 1939 | -0.3 | -10 |
| 11 Tu | 0557 | 1.6 | 50 | 26 W | 0520 | 1.6 | 50 | 11 F | 0052 | 4.6 | 140 | 26 Sa | 0111 | 4.9 | 150 | 11 Su | 0124 | 4.3 | 130 | 26 M | 0158 | 4.6 | 140 |
| | 1217 | 5.2 | 160 | | 1140 | 5.9 | 180 | | 0555 | 2.3 | 70 | | 0555 | 2.3 | 70 | | 0548 | 2.6 | 80 | | 0625 | 2.6 | 80 |
| | 1829 | 2.0 | 60 | | 1811 | 0.7 | 20 | | 1233 | 5.9 | 180 | | 1238 | 6.6 | 200 | | 1232 | 5.9 | 180 | | 1311 | 6.2 | 190 |
| | | | | | | | | | 1927 | 1.0 | 30 | | 1947 | -0.3 | -10 | | 1949 | 0.3 | 10 | | 2019 | -0.3 | -10 |
| 12 W | 0031 | 4.9 | 150 | 27 Th | 0018 | 5.2 | 160 | 12 Sa | 0128 | 4.3 | 130 | 27 Su | 0202 | 4.9 | 150 | 12 M | 0200 | 4.3 | 130 | 27 Tu | 0238 | 4.9 | 150 |
| | 0619 | 1.6 | 50 | | 0556 | 1.6 | 50 | | 0622 | 2.3 | 70 | | 0638 | 2.6 | 80 | | 0622 | 2.6 | 80 | | 0715 | 2.6 | 80 |
| | 1243 | 5.6 | 170 | | 1220 | 6.2 | 190 | | 1300 | 5.9 | 180 | | 1321 | 6.6 | 200 | | 1304 | 6.2 | 190 | | 1354 | 6.2 | 190 |
| | 1901 | 1.6 | 50 | | 1901 | 0.3 | 10 | | 2000 | 0.7 | 20 | | 2033 | -0.3 | -10 | | 2022 | 0.3 | 10 | | 2056 | 0.0 | 0 |
| 13 Th | 0105 | 4.9 | 150 | 28 F | 0111 | 5.2 | 160 | 13 Su | 0204 | 4.3 | 130 | 28 M | 0250 | 4.9 | 150 | 13 Tu | 0235 | 4.3 | 130 | 28 W | 0317 | 4.9 | 150 |
| | 0641 | 2.0 | 60 | | 0631 | 2.0 | 60 | | 0649 | 2.6 | 80 | | 0723 | 2.6 | 80 | | 0701 | 2.6 | 80 | | 0803 | 2.6 | 80 |
| | 1309 | 5.6 | 170 | | 1300 | 6.6 | 200 | | 1326 | 5.9 | 180 | | 1404 | 6.2 | 190 | | 1337 | 6.2 | 190 | | 1434 | 5.9 | 180 |
| | 1934 | 1.3 | 40 | | 1951 | 0.0 | 0 | | 2033 | 0.7 | 20 | | 2118 | 0.0 | 0 | | 2055 | 0.3 | 10 | | 2129 | 0.3 | 10 |
| 14 F | 0138 | 4.9 | 150 | 29 Sa | 0201 | 5.2 | 160 | 14 M | 0240 | 4.3 | 130 | 29 Tu | 0337 | 4.6 | 140 | 14 W | 0309 | 4.3 | 130 | 29 Th | 0354 | 4.9 | 150 |
| | 0702 | 2.0 | 60 | | 0705 | 2.3 | 70 | | 0719 | 2.6 | 80 | | 0808 | 3.0 | 90 | | 0744 | 2.6 | 80 | | 0850 | 2.6 | 80 |
| | 1334 | 5.6 | 170 | | 1340 | 6.6 | 200 | | 1352 | 5.9 | 180 | | 1445 | 6.2 | 190 | | 1412 | 5.9 | 180 | | 1513 | 5.6 | 170 |
| | 2006 | 1.3 | 40 | | 2041 | 0.0 | 0 | | 2108 | 0.7 | 20 | | 2202 | 0.3 | 10 | | 2129 | 0.7 | 20 | | 2201 | 0.7 | 20 |
| 15 Sa | 0212 | 4.6 | 140 | 30 Su | 0251 | 4.9 | 150 | 15 Tu | 0318 | 4.3 | 130 | 30 W | 0425 | 4.6 | 140 | 15 Th | 0345 | 4.6 | 140 | 30 F | 0432 | 4.9 | 150 |
| | 0725 | 2.0 | 60 | | 0739 | 2.3 | 70 | | 0753 | 2.6 | 80 | | 0855 | 3.0 | 90 | | 0832 | 2.6 | 80 | | 0938 | 2.6 | 80 |
| | 1356 | 5.6 | 170 | | 1419 | 6.6 | 200 | | 1421 | 5.9 | 180 | | 1528 | 5.6 | 170 | | 1451 | 5.9 | 180 | | 1552 | 4.9 | 150 |
| | 2038 | 1.0 | 30 | | 2133 | 0.0 | 0 | | 2146 | 0.7 | 20 | | 2245 | 0.7 | 20 | | 2206 | 0.7 | 20 | | 2232 | 1.0 | 30 |
| | | | 31 M | 0343 | 4.6 | 140 | | | | | | | | | | | | | | | | | |

Aden, Yemen, 2011

Times and Heights of High and Low Waters

| January | | | | February | | | | March | | | | | | | | | | | | | | | | | | | | | |
|-----------------|------|--------|-----|-----------------|------|--------|-----|-----------------|------|--------|------|-----------------|------|--------|------|-----------------|------|------|------|-----------------|------|------|------|-----------------|------|------|------|------|-----|
| Time | | Height | | Time | | Height | | Time | | Height | | Time | | Height | | | | | | | | | | | | | | | |
| | h m | ft | cm | | h m | ft | cm | | h m | ft | cm | | h m | ft | cm | | | | | | | | | | | | | | |
| 1 Sa | 0416 | 7.2 | 220 | 16 Su | 0312 | 6.9 | 210 | 1 Tu | 0058 | 4.9 | 150 | 16 W | 0512 | 6.9 | 210 | 1 Tu | 0027 | 4.6 | 140 | 16 W | 0357 | 6.2 | 190 | | | | | | |
| | 1203 | 0.7 | 20 | | 1132 | 1.0 | 30 | | 0555 | 6.6 | 200 | | 1226 | 0.7 | 20 | | 0516 | 6.2 | 190 | | 1107 | 1.6 | 50 | | | | | | |
| | 1940 | 6.2 | 190 | | 1924 | 5.9 | 180 | | 1307 | 1.0 | 30 | | 1918 | 6.9 | 210 | | 1211 | 2.0 | 60 | | 1804 | 6.9 | 210 | 1840 | 6.9 | 210 | | | |
| | 2352 | 5.2 | 160 | | 2239 | 5.2 | 160 | | 2017 | 6.9 | 210 | | 1943 | 7.5 | 230 | | 1918 | 6.6 | 200 | | 1918 | 6.6 | 200 | 2340 | 3.9 | 120 | | | |
| 2 Su | 0508 | 7.2 | 220 | 17 M | 0419 | 6.9 | 210 | 2 W | 0133 | 4.6 | 140 | 17 Th | 0040 | 3.9 | 120 | 2 W | 0056 | 4.3 | 130 | 17 Th | 0511 | 6.9 | 210 | 17 Th | 0511 | 6.9 | 210 | | |
| | 1245 | 0.3 | 10 | | 1212 | 0.7 | 20 | | 0638 | 6.6 | 200 | | 0611 | 7.2 | 220 | | 0604 | 6.2 | 190 | | 1154 | 1.6 | 50 | | 1154 | 1.6 | 50 | | |
| | 2014 | 6.6 | 200 | | 1940 | 6.2 | 190 | | 1337 | 1.3 | 40 | | 1306 | 0.7 | 20 | | 1241 | 2.0 | 60 | | 1829 | 7.5 | 230 | | 1829 | 7.5 | 230 | | |
| | | | | | 2352 | 5.2 | 160 | | 2033 | 6.9 | 210 | | 1943 | 7.5 | 230 | | 1929 | 6.9 | 210 | | 1929 | 6.9 | 210 | | | | | | |
| 3 M | 0049 | 5.2 | 160 | 18 Tu | 0518 | 7.2 | 220 | 3 Th | 0205 | 4.3 | 130 | 18 F | 0128 | 3.3 | 100 | 3 Th | 0119 | 3.9 | 120 | 18 F | 0027 | 3.0 | 90 | 18 F | 0027 | 3.0 | 90 | | |
| | 0555 | 7.2 | 220 | | 1251 | 0.3 | 10 | | 0717 | 6.6 | 200 | | 0706 | 7.5 | 230 | | 0642 | 6.6 | 200 | | 0612 | 7.2 | 220 | | 0612 | 7.2 | 220 | | |
| | 1324 | 0.3 | 10 | | 1959 | 6.6 | 200 | | 1405 | 1.3 | 40 | | 1344 | 0.7 | 20 | | 1308 | 2.3 | 70 | | 1237 | 1.6 | 50 | | 1237 | 1.6 | 50 | | |
| | 2045 | 6.9 | 210 | | | | | | 2048 | 7.2 | 220 | | 2013 | 7.9 | 240 | | 1941 | 6.9 | 210 | | 1941 | 6.9 | 210 | | 1859 | 7.9 | 240 | 1859 | 7.9 | 240 |
| 4 Tu | 0137 | 4.9 | 150 | 19 W | 0047 | 4.6 | 140 | 4 F | 0235 | 3.9 | 120 | 19 Sa | 0214 | 2.6 | 80 | 4 F | 0143 | 3.6 | 110 | 19 Sa | 0113 | 2.0 | 60 | 19 Sa | 0113 | 2.0 | 60 | | |
| | 0638 | 6.9 | 210 | | 0612 | 7.5 | 230 | | 0753 | 6.6 | 200 | | 0758 | 7.5 | 230 | | 0716 | 6.6 | 200 | | 0708 | 7.2 | 220 | | 0708 | 7.2 | 220 | | |
| | 1400 | 0.3 | 10 | | 1329 | 0.0 | 0 | | 1431 | 1.6 | 50 | | 1422 | 1.0 | 30 | | 1333 | 2.3 | 70 | | 1318 | 2.0 | 60 | | 1318 | 2.0 | 60 | | |
| | 2112 | 6.9 | 210 | | 2023 | 7.2 | 220 | | 2105 | 7.2 | 220 | | 2046 | 8.2 | 250 | | 1956 | 7.2 | 220 | | 1933 | 8.2 | 250 | | 1933 | 8.2 | 250 | | |
| 5 W | 0220 | 4.6 | 140 | 20 Th | 0138 | 4.3 | 130 | 5 Sa | 0305 | 3.6 | 110 | 20 Su | 0300 | 2.0 | 60 | 5 Sa | 0207 | 3.3 | 100 | 20 Su | 0158 | 1.3 | 40 | 20 Su | 0158 | 1.3 | 40 | | |
| | 0718 | 6.9 | 210 | | 0704 | 7.5 | 230 | | 0828 | 6.6 | 200 | | 0851 | 7.2 | 220 | | 0750 | 6.6 | 200 | | 0802 | 7.5 | 230 | | 0802 | 7.5 | 230 | | |
| | 1432 | 0.7 | 20 | | 1406 | 0.0 | 0 | | 1453 | 2.0 | 60 | | 1459 | 1.6 | 50 | | 1357 | 2.6 | 80 | | 1358 | 2.3 | 70 | | 1358 | 2.3 | 70 | | |
| | 2136 | 6.9 | 210 | | 2052 | 7.5 | 230 | | 2125 | 7.2 | 220 | | 2121 | 8.2 | 250 | | 2015 | 7.2 | 220 | | 2008 | 8.5 | 260 | | 2008 | 8.5 | 260 | | |
| 6 Th | 0259 | 4.6 | 140 | 21 F | 0227 | 3.6 | 110 | 6 Su | 0337 | 3.3 | 100 | 21 M | 0349 | 1.6 | 50 | 6 Su | 0233 | 3.0 | 90 | 21 M | 0243 | 1.0 | 30 | 21 M | 0243 | 1.0 | 30 | | |
| | 0756 | 6.6 | 200 | | 0755 | 7.5 | 230 | | 0903 | 6.2 | 190 | | 0945 | 6.9 | 210 | | 0823 | 6.6 | 200 | | 0855 | 7.2 | 220 | | 0855 | 7.2 | 220 | | |
| | 1501 | 1.0 | 30 | | 1444 | 0.3 | 10 | | 1513 | 2.3 | 70 | | 1536 | 2.6 | 80 | | 1419 | 2.6 | 80 | | 1437 | 3.0 | 90 | | 1437 | 3.0 | 90 | | |
| | 2157 | 6.9 | 210 | | 2125 | 7.9 | 240 | | 2144 | 7.2 | 220 | | 2156 | 8.2 | 250 | | 2035 | 7.5 | 230 | | 2043 | 8.5 | 260 | | 2043 | 8.5 | 260 | | |
| 7 F | 0337 | 4.3 | 130 | 22 Sa | 0317 | 3.3 | 100 | 7 M | 0410 | 3.3 | 100 | 22 Tu | 0442 | 1.6 | 50 | 7 M | 0301 | 2.6 | 80 | 22 Tu | 0330 | 0.7 | 20 | 22 Tu | 0330 | 0.7 | 20 | | |
| | 0833 | 6.2 | 190 | | 0847 | 7.2 | 220 | | 0938 | 5.9 | 180 | | 1045 | 6.2 | 190 | | 0857 | 6.2 | 190 | | 0950 | 6.9 | 210 | | 0950 | 6.9 | 210 | | |
| | 1527 | 1.6 | 50 | | 1522 | 1.0 | 30 | | 1529 | 2.6 | 80 | | 1612 | 3.3 | 100 | | 1440 | 3.0 | 90 | | 1516 | 3.6 | 110 | | 1516 | 3.6 | 110 | | |
| | 2217 | 6.9 | 210 | | 2200 | 7.9 | 240 | | 2203 | 7.2 | 220 | | 2230 | 7.9 | 240 | | 2053 | 7.5 | 230 | | 2118 | 8.2 | 250 | | 2118 | 8.2 | 250 | | |
| 8 Sa | 0415 | 4.3 | 130 | 23 Su | 0409 | 3.0 | 90 | 8 Tu | 0447 | 3.0 | 90 | 23 W | 0539 | 1.6 | 50 | 8 Tu | 0331 | 2.3 | 70 | 23 W | 0419 | 1.0 | 30 | 23 W | 0419 | 1.0 | 30 | | |
| | 0910 | 5.9 | 180 | | 0941 | 6.6 | 200 | | 1016 | 5.2 | 160 | | 1157 | 5.6 | 170 | | 0932 | 5.9 | 180 | | 1050 | 6.2 | 190 | | 1050 | 6.2 | 190 | | |
| | 1548 | 2.0 | 60 | | 1600 | 1.6 | 50 | | 1543 | 3.3 | 100 | | 1647 | 4.3 | 130 | | 1458 | 3.3 | 100 | | 1556 | 4.3 | 130 | | 1556 | 4.3 | 130 | | |
| | 2239 | 6.9 | 210 | | 2236 | 7.9 | 240 | | 2222 | 7.2 | 220 | | 2306 | 7.5 | 230 | | 2110 | 7.2 | 220 | | 2151 | 7.9 | 240 | | 2151 | 7.9 | 240 | | |
| 9 Su | 0457 | 3.9 | 120 | 24 M | 0506 | 2.6 | 80 | 9 W | 0530 | 3.0 | 90 | 24 Th | 0644 | 2.0 | 60 | 9 W | 0404 | 2.3 | 70 | 24 Th | 0512 | 1.3 | 40 | 24 Th | 0512 | 1.3 | 40 | | |
| | 0948 | 5.6 | 170 | | 1041 | 5.9 | 180 | | 1105 | 4.9 | 150 | | 1346 | 5.2 | 160 | | 1011 | 5.6 | 170 | | 1202 | 5.9 | 180 | | 1202 | 5.9 | 180 | | |
| | 1606 | 2.6 | 80 | | 1637 | 2.6 | 80 | | 1556 | 3.6 | 110 | | 1714 | 4.9 | 150 | | 1515 | 3.6 | 110 | | 1640 | 4.9 | 150 | | 1640 | 4.9 | 150 | | |
| | 2302 | 6.9 | 210 | | 2313 | 7.9 | 240 | | 2243 | 6.9 | 210 | | 2345 | 6.9 | 210 | | 2129 | 7.2 | 220 | | 2224 | 7.2 | 220 | | 2224 | 7.2 | 220 | | |
| 10 M | 0543 | 3.9 | 120 | 25 Tu | 0608 | 2.3 | 70 | 10 Th | 0624 | 3.0 | 90 | 25 F | 0800 | 2.0 | 60 | 10 Th | 0442 | 2.3 | 70 | 25 F | 0611 | 1.6 | 50 | 25 F | 0611 | 1.6 | 50 | | |
| | 1031 | 4.9 | 150 | | 1154 | 5.2 | 160 | | 1225 | 4.6 | 140 | | 1817 | 5.6 | 170 | | 1059 | 5.2 | 160 | | 1351 | 5.6 | 170 | | 1351 | 5.6 | 170 | | |
| | 1619 | 3.0 | 90 | | 1712 | 3.6 | 110 | | 1603 | 3.9 | 120 | | 1854 | 5.6 | 170 | | 1531 | 3.9 | 120 | | 1742 | 5.2 | 160 | | 1742 | 5.2 | 160 | | |
| | 2325 | 6.9 | 210 | | 2353 | 7.5 | 230 | | 2310 | 6.9 | 210 | | 2310 | 6.9 | 210 | | 2153 | 7.2 | 220 | | 2300 | 6.6 | 200 | | 2300 | 6.6 | 200 | | |
| 11 Tu | 0637 | 3.6 | 110 | 26 W | 0718 | 2.3 | 70 | 11 F | 0733 | 2.6 | 80 | 26 Sa | 0041 | 6.6 | 200 | 11 F | 0529 | 2.3 | 70 | 26 Sa | 0719 | 2.0 | 60 | 26 Sa | 0719 | 2.0 | 60 | | |
| | 1130 | 4.6 | 140 | | 1337 | 4.9 | 150 | | 2346 | 6.9 | 210 | | 0925 | 2.0 | 60 | | 1210 | 4.9 | 150 | | 1626 | 5.9 | 180 | | 1626 | 5.9 | 180 | | |
| | 1631 | 3.3 | 100 | | 1742 | 4.3 | 130 | | | | 1830 | | 5.9 | 180 | 2149 | | 5.6 | 170 | 1543 | | 4.6 | 140 | 1955 | | 5.6 | 170 | 1955 | 5.6 | 170 |
| | 2350 | 6.9 | 210 | | | | | | | | 2149 | | 5.6 | 170 | | | | 2222 | 6.9 | | 210 | 2354 | 5.9 | | 180 | 2354 | 5.9 | 180 | |
| 12 W | 0741 | 3.3 | 100 | 27 Th | 0038 | 7.2 | 220 | 12 Sa | 0852 | 2.3 | 70 | 27 Su | 0224 | 6.2 | 190 | 12 Sa | 0630 | 2.3 | 70 | 27 Su | 0838 | 2.6 | 80 | 27 Su | 0838 | 2.6 | 80 | | |
| | 1313 | 4.3 | 130 | | 0835 | 2.0 | 60 | | | | 1041 | | 2.0 | 60 | 2300 | | 6.6 | 200 | 1721 | | 6.2 | 190 | 1721 | | 6.2 | 190 | | | |
| | 1641 | 3.9 | 120 | | | | | | | | 1850 | | 6.2 | 190 | | | | 2300 | 6.6 | | 200 | 2238 | 5.2 | | 160 | 2238 | 5.2 | 160 | |
| | | | | | | | | | | | 2345 | | 5.2 | 160 | | | | | | | | | | | | | | | |
| 13 Th | 0021 | 6.6 | 200 | 28 F | 0135 | 6.9 | 210 | 13 Su | 0048 | 6.6 | 200 | 28 M | 0407 | 5.9 | 180 | 13 Su | 0747 | 2.3 | 70 | 28 M | 0219 | 5.6 | 170 | 28 M | 0219 | 5.6 | 170 | | |
| | 0851 | 3.0 | 90 | | 0954 | 1.6 | 50 | | 1002 | 2.0 | 60 | | 1134 | 2.0 | 60 | | | | 0953 | | 2.6 | 80 | 0953 | | 2.6 | 80 | | | |
| | | | | | 1903 | 5.6 | 170 | | 1854 | 5.6 | 170 | | 1906 | 6.6 | 200 | | | | 1749 | | 6.2 | 190 | 1749 | | 6.2 | 190 | | | |
| | | | | | 2108 | 5.6 | 170 | | 2027 | 5.6 | 170 | | | | | | | 2337 | 4.6 | | 140 | 2337 | 4.6 | | 140 | | | | |
| 14 F | 0102 | 6.6 | 200 | 29 Sa | 0246 | 6.9 | 210 | 14 M | 0236 | 6.6 | 200 | 2 | | | | | | | | | | | | | | | | | |

Aden, Yemen, 2011

Times and Heights of High and Low Waters

| April | | | | May | | | | June | | | | | | | | | | | | | | | | | | | | | |
|-----------------|------|--------|-----|------|-----------------|--------|-----|------|----|-----------------|------|------|-----|--------|-----------------|------|-----|-----|----|-----------------|------|-----|-----|--|-----------------|------|-----|-----|--|
| Time | | Height | | Time | | Height | | Time | | Height | | Time | | Height | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | |
| 1 F | 0054 | 3.3 | 100 | | 16 Sa | 0011 | 2.0 | 60 | | 1 Su | 0046 | 2.3 | 70 | | 16 M | 0042 | 0.3 | 10 | | 1 W | 0118 | 1.0 | 30 | | 16 Th | 0201 | 0.0 | 0 | |
| | 0641 | 6.2 | 190 | | | 0620 | 6.9 | 210 | | | 0708 | 6.2 | 190 | | | 0731 | 6.9 | 210 | | | 0815 | 6.2 | 190 | | | 0912 | 6.9 | 210 | |
| | 1229 | 3.3 | 100 | | | 1206 | 3.0 | 90 | | | 1212 | 4.3 | 130 | | | 1230 | 4.3 | 130 | | | 1248 | 4.9 | 150 | | | 1410 | 4.6 | 140 | |
| | 1844 | 7.2 | 220 | | | 1817 | 8.2 | 250 | | | 1813 | 7.2 | 220 | | | 1819 | 8.2 | 250 | | | 1823 | 7.2 | 220 | | | 1925 | 7.2 | 220 | |
| 2 Sa | 0116 | 3.0 | 90 | | 17 Su | 0057 | 1.0 | 30 | | 2 M | 0111 | 2.0 | 60 | | 17 Tu | 0129 | 0.0 | 0 | | 2 Th | 0150 | 0.7 | 20 | | 17 F | 0242 | 0.0 | 0 | |
| | 0713 | 6.2 | 190 | | | 0717 | 7.2 | 220 | | | 0742 | 6.2 | 190 | | | 0823 | 6.9 | 210 | | | 0851 | 6.2 | 190 | | | 0951 | 6.9 | 210 | |
| | 1256 | 3.3 | 100 | | | 1252 | 3.0 | 90 | | | 1243 | 4.3 | 130 | | | 1321 | 4.3 | 130 | | | 1330 | 4.9 | 150 | | | 1501 | 4.6 | 140 | |
| | 1905 | 7.2 | 220 | | | 1854 | 8.5 | 260 | | | 1838 | 7.2 | 220 | | | 1900 | 8.2 | 250 | | | 1857 | 7.2 | 220 | | | 2008 | 6.9 | 210 | |
| 3 Su | 0139 | 2.3 | 70 | | 18 M | 0142 | 0.7 | 20 | | 3 Tu | 0139 | 1.6 | 50 | | 18 W | 0214 | 0.0 | 0 | | 3 F | 0224 | 0.7 | 20 | | 18 Sa | 0321 | 0.7 | 20 | |
| | 0746 | 6.6 | 200 | | | 0811 | 7.2 | 220 | | | 0818 | 6.2 | 190 | | | 0914 | 6.9 | 210 | | | 0928 | 6.6 | 200 | | | 1025 | 6.9 | 210 | |
| | 1321 | 3.3 | 100 | | | 1336 | 3.6 | 110 | | | 1314 | 4.3 | 130 | | | 1412 | 4.6 | 140 | | | 1415 | 4.9 | 150 | | | 1550 | 4.3 | 130 | |
| | 1927 | 7.5 | 230 | | | 1932 | 8.5 | 260 | | | 1900 | 7.5 | 230 | | | 1941 | 7.9 | 240 | | | 1935 | 7.2 | 220 | | | 2050 | 6.6 | 200 | |
| 4 M | 0204 | 2.0 | 60 | | 19 Tu | 0227 | 0.3 | 10 | | 4 W | 0208 | 1.3 | 40 | | 19 Th | 0258 | 0.0 | 0 | | 4 Sa | 0301 | 0.7 | 20 | | 19 Su | 0356 | 1.0 | 30 | |
| | 0820 | 6.6 | 200 | | | 0904 | 7.2 | 220 | | | 0856 | 6.2 | 190 | | | 1003 | 6.9 | 210 | | | 1005 | 6.6 | 200 | | | 1057 | 6.6 | 200 | |
| | 1346 | 3.6 | 110 | | | 1420 | 3.9 | 120 | | | 1345 | 4.6 | 140 | | | 1503 | 4.6 | 140 | | | 1502 | 4.6 | 140 | | | 1641 | 4.3 | 130 | |
| | 1947 | 7.5 | 230 | | | 2009 | 8.2 | 250 | | | 1923 | 7.5 | 230 | | | 2021 | 7.5 | 230 | | | 2018 | 7.2 | 220 | | | 2131 | 5.9 | 180 | |
| 5 Tu | 0231 | 2.0 | 60 | | 20 W | 0313 | 0.3 | 10 | | 5 Th | 0240 | 1.0 | 30 | | 20 F | 0341 | 0.3 | 10 | | 5 Su | 0340 | 0.7 | 20 | | 20 M | 0428 | 1.6 | 50 | |
| | 0856 | 6.2 | 190 | | | 0958 | 6.9 | 210 | | | 0936 | 6.2 | 190 | | | 1052 | 6.9 | 210 | | | 1043 | 6.6 | 200 | | | 1126 | 6.6 | 200 | |
| | 1409 | 3.9 | 120 | | | 1505 | 4.3 | 130 | | | 1419 | 4.6 | 140 | | | 1558 | 4.9 | 150 | | | 1556 | 4.6 | 140 | | | 1733 | 4.3 | 130 | |
| | 2004 | 7.5 | 230 | | | 2045 | 7.9 | 240 | | | 1950 | 7.5 | 230 | | | 2100 | 6.9 | 210 | | | 2105 | 6.9 | 210 | | | 2214 | 5.6 | 170 | |
| 6 W | 0301 | 1.6 | 50 | | 21 Th | 0359 | 0.3 | 10 | | 6 F | 0315 | 1.0 | 30 | | 21 Sa | 0423 | 1.0 | 30 | | 6 M | 0420 | 1.3 | 40 | | 21 Tu | 0457 | 2.3 | 70 | |
| | 0934 | 6.2 | 190 | | | 1057 | 6.6 | 200 | | | 1018 | 6.2 | 190 | | | 1140 | 6.6 | 200 | | | 1122 | 6.9 | 210 | | | 1155 | 6.6 | 200 | |
| | 1433 | 3.9 | 120 | | | 1553 | 4.6 | 140 | | | 1456 | 4.9 | 150 | | | 1700 | 4.9 | 150 | | | 1657 | 4.6 | 140 | | | 1830 | 3.9 | 120 | |
| | 2024 | 7.5 | 230 | | | 2120 | 7.5 | 230 | | | 2024 | 7.2 | 220 | | | 2140 | 6.2 | 190 | | | 2200 | 6.6 | 200 | | | 2302 | 4.9 | 150 | |
| 7 Th | 0335 | 1.6 | 50 | | 22 F | 0447 | 1.0 | 30 | | 7 Sa | 0353 | 1.3 | 40 | | 22 Su | 0504 | 1.6 | 50 | | 7 Tu | 0504 | 1.6 | 50 | | 22 W | 0523 | 3.0 | 90 | |
| | 1015 | 5.9 | 180 | | | 1202 | 6.2 | 190 | | | 1102 | 6.2 | 190 | | | 1227 | 6.6 | 200 | | | 1204 | 6.9 | 210 | | | 1224 | 6.6 | 200 | |
| | 1457 | 4.3 | 130 | | | 1652 | 5.2 | 160 | | | 1540 | 4.9 | 150 | | | 1812 | 4.9 | 150 | | | 1806 | 4.3 | 130 | | | 1933 | 3.6 | 110 | |
| | 2049 | 7.2 | 220 | | | 2155 | 6.9 | 210 | | | 2103 | 6.9 | 210 | | | 2224 | 5.9 | 180 | | | 2306 | 5.9 | 180 | | | | | | |
| 8 F | 0412 | 1.6 | 50 | | 23 Sa | 0538 | 1.6 | 50 | | 8 Su | 0436 | 1.3 | 40 | | 23 M | 0545 | 2.3 | 70 | | 8 W | 0551 | 2.3 | 70 | | 23 Th | 0009 | 4.6 | 140 | |
| | 1104 | 5.6 | 170 | | | 1320 | 6.2 | 190 | | | 1151 | 6.2 | 190 | | | 1311 | 6.2 | 190 | | | 1249 | 6.9 | 210 | | | 0545 | 3.3 | 100 | |
| | 1523 | 4.6 | 140 | | | 1815 | 5.2 | 160 | | | 1640 | 4.9 | 150 | | | 1937 | 4.6 | 140 | | | 1922 | 3.6 | 110 | | | 1255 | 6.6 | 200 | |
| | 2118 | 7.2 | 220 | | | 2234 | 6.2 | 190 | | | 2150 | 6.6 | 200 | | | 2323 | 5.2 | 160 | | | | | | | | 2038 | 3.3 | 100 | |
| 9 Sa | 0456 | 1.6 | 50 | | 24 Su | 0633 | 2.3 | 70 | | 9 M | 0525 | 1.6 | 50 | | 24 Tu | 0626 | 3.0 | 90 | | 9 Th | 0030 | 5.2 | 160 | | 24 F | 0158 | 4.3 | 130 | |
| | 1206 | 5.6 | 170 | | | 1445 | 6.2 | 190 | | | 1245 | 6.2 | 190 | | | 1351 | 6.2 | 190 | | | 0644 | 3.0 | 90 | | | 0601 | 3.9 | 120 | |
| | 1558 | 4.9 | 150 | | | 2017 | 5.2 | 160 | | | 1800 | 4.9 | 150 | | | 2058 | 4.3 | 130 | | | 1337 | 7.2 | 220 | | | 1328 | 6.2 | 190 | |
| | 2154 | 6.9 | 210 | | | 2333 | 5.6 | 170 | | | 2253 | 6.2 | 190 | | | | | | | | 2037 | 3.0 | 90 | | | 2138 | 3.0 | 90 | |
| 10 Su | 0550 | 2.0 | 60 | | 25 M | 0734 | 3.0 | 90 | | 10 Tu | 0621 | 2.3 | 70 | | 25 W | 0110 | 4.6 | 140 | | 10 F | 0219 | 5.2 | 160 | | 25 Sa | 0405 | 4.3 | 130 | |
| | 1329 | 5.6 | 170 | | | 1546 | 6.2 | 190 | | | 1340 | 6.6 | 200 | | | 0708 | 3.6 | 110 | | | 0747 | 3.6 | 110 | | | 0620 | 4.3 | 130 | |
| | 1709 | 5.2 | 160 | | | 2202 | 4.6 | 140 | | | 1935 | 4.6 | 140 | | | 1429 | 6.2 | 190 | | | 1429 | 7.2 | 220 | | | 1407 | 6.6 | 200 | |
| | 2243 | 6.6 | 200 | | | | | | | | | | | | | 2159 | 3.6 | 110 | | | 2146 | 2.3 | 70 | | | 2227 | 2.6 | 80 | |
| 11 M | 0657 | 2.3 | 70 | | 26 Tu | 0203 | 4.9 | 150 | | 11 W | 0023 | 5.6 | 170 | | 26 Th | 0316 | 4.6 | 140 | | 11 Sa | 0420 | 5.2 | 160 | | 26 Su | 0608 | 4.6 | 140 | |
| | 1501 | 5.9 | 180 | | | 0837 | 3.3 | 100 | | | 0724 | 2.6 | 80 | | | 0757 | 3.9 | 120 | | | 0857 | 3.9 | 120 | | | 0741 | 4.6 | 140 | |
| | 1914 | 5.2 | 160 | | | 1619 | 6.2 | 190 | | | 1434 | 6.9 | 210 | | | 1504 | 6.6 | 200 | | | 1521 | 7.5 | 230 | | | 1453 | 6.6 | 200 | |
| | | | | | | 2258 | 4.3 | 130 | | | 2101 | 3.9 | 120 | | | 2242 | 3.3 | 100 | | | 2247 | 1.3 | 40 | | | 2308 | 2.0 | 60 | |
| 12 Tu | 0011 | 5.9 | 180 | | 27 W | 0405 | 4.9 | 150 | | 12 Th | 0214 | 5.6 | 170 | | 27 F | 0449 | 4.9 | 150 | | 12 Su | 0546 | 5.6 | 170 | | 27 M | 0643 | 4.9 | 150 | |
| | 0811 | 2.3 | 70 | | | 0936 | 3.6 | 110 | | | 0832 | 3.0 | 90 | | | 0850 | 4.3 | 130 | | | 1009 | 4.6 | 140 | | | 0919 | 4.9 | 150 | |
| | 1554 | 6.2 | 190 | | | 1639 | 6.6 | 200 | | | 1524 | 7.2 | 220 | | | 1539 | 6.6 | 200 | | | 1614 | 7.5 | 230 | | | 1542 | 6.6 | 200 | |
| | 2116 | 4.6 | 140 | | | 2332 | 3.6 | 110 | | | 2209 | 3.0 | 90 | | | 2315 | 2.6 | 80 | | | 2341 | 0.7 | 20 | | | 2346 | 1.3 | 40 | |
| 13 W | 0215 | 5.9 | 180 | | 28 Th | 0514 | 5.2 | 160 | | 13 F | 0405 | 5.6 | 170 | | 28 Sa | 0547 | 5.2 | 160 | | 13 M | 0650 | 6.2 | 190 | | | | | | |

Aden, Yemen, 2011

Times and Heights of High and Low Waters

| October | | | | November | | | | December | | | | | | | | | | | | | | | |
|-----------------|--------|-----|------|-----------------|------|------|--------|-----------------|------|--------|-----|-----------------|--------|------|-----|-----------------|------|-----|-----|-----------------|------|------|-----|
| Time | Height | | Time | Height | | Time | Height | | Time | Height | | Time | Height | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | |
| 1 Sa | 0342 | 3.6 | 110 | 16 Su | 0251 | 4.3 | 130 | 1 Tu | 0037 | 6.2 | 190 | 16 W | 0421 | 4.9 | 150 | 1 Th | 0041 | 6.6 | 200 | 16 F | 0533 | 4.3 | 130 |
| | 0926 | 7.2 | 220 | | 0827 | 6.6 | 200 | | 0557 | 4.6 | 140 | | 0918 | 6.2 | 190 | | 0710 | 4.3 | 130 | | 1026 | 5.6 | 170 |
| | 1639 | 0.3 | 10 | | 1549 | 1.3 | 40 | | 1026 | 5.6 | 170 | | 1645 | 1.6 | 50 | | 1120 | 4.9 | 150 | | 1700 | 2.3 | 70 |
| | 2332 | 5.9 | 180 | | 2249 | 5.6 | 170 | | 1803 | 1.6 | 50 | | | | | | 1801 | 3.0 | 90 | | | | |
| 2 Su | 0432 | 4.3 | 130 | 17 M | 0317 | 4.3 | 130 | 2 W | 0149 | 6.2 | 190 | 17 Th | 0010 | 6.2 | 190 | 2 F | 0123 | 6.6 | 200 | 17 Sa | 0008 | 6.9 | 210 |
| | 1003 | 6.6 | 200 | | 0854 | 6.6 | 200 | | 0754 | 4.6 | 140 | | 0534 | 4.6 | 140 | | 0841 | 3.9 | 120 | | 0644 | 3.6 | 110 |
| | 1736 | 1.0 | 30 | | 1627 | 1.3 | 40 | | 1137 | 4.9 | 150 | | 1014 | 5.6 | 170 | | 1305 | 4.6 | 140 | | 1144 | 5.2 | 160 |
| | | | | | 2342 | 5.2 | 160 | | 1903 | 2.6 | 80 | | 1732 | 2.0 | 60 | | 1843 | 3.6 | 110 | | 1741 | 3.0 | 90 |
| 3 M | 0055 | 5.6 | 170 | 18 Tu | 0352 | 4.6 | 140 | 3 Th | 0255 | 6.2 | 190 | 18 F | 0059 | 6.2 | 190 | 3 Sa | 0203 | 6.2 | 190 | 18 Su | 0054 | 7.2 | 220 |
| | 0540 | 4.6 | 140 | | 0924 | 6.2 | 190 | | 0947 | 3.9 | 120 | | 0705 | 4.3 | 130 | | 0955 | 3.3 | 100 | | 0800 | 3.0 | 90 |
| | 1047 | 5.9 | 180 | | 1713 | 1.6 | 50 | | 1356 | 4.6 | 140 | | 1142 | 5.2 | 160 | | 1521 | 4.3 | 130 | | 1325 | 4.9 | 150 |
| | 1841 | 1.6 | 50 | | 2009 | 3.3 | 100 | | 2009 | 3.3 | 100 | | 1831 | 2.6 | 80 | | 1932 | 4.3 | 130 | | 1836 | 3.6 | 110 |
| 4 Tu | 0250 | 5.6 | 170 | 19 W | 0051 | 5.2 | 160 | 4 F | 0343 | 6.2 | 190 | 19 Sa | 0151 | 6.6 | 200 | 4 Su | 0240 | 6.6 | 200 | 19 M | 0144 | 7.2 | 220 |
| | 0733 | 4.9 | 150 | | 0455 | 4.9 | 150 | | 1046 | 3.6 | 110 | | 0831 | 3.6 | 110 | | 1042 | 3.0 | 90 | | 0912 | 2.3 | 70 |
| | 1152 | 5.2 | 160 | | 1004 | 5.9 | 180 | | 1611 | 4.6 | 140 | | 1332 | 4.9 | 150 | | 1812 | 4.6 | 140 | | 1542 | 4.9 | 150 |
| | 1958 | 2.0 | 60 | | 1814 | 2.0 | 60 | | 2115 | 3.6 | 110 | | 1943 | 3.0 | 90 | | 2031 | 4.6 | 140 | | 1958 | 4.3 | 130 |
| 5 W | 0426 | 5.9 | 180 | 20 Th | 0214 | 5.2 | 160 | 5 Sa | 0415 | 6.2 | 190 | 20 Su | 0241 | 6.9 | 210 | 5 M | 0316 | 6.6 | 200 | 20 Tu | 0239 | 7.5 | 230 |
| | 1012 | 4.6 | 140 | | 0657 | 4.9 | 150 | | 1124 | 3.0 | 90 | | 0942 | 3.0 | 90 | | 1115 | 2.3 | 70 | | 1017 | 1.6 | 50 |
| | 1409 | 4.9 | 150 | | 1131 | 5.2 | 160 | | 1732 | 4.9 | 150 | | 1530 | 4.9 | 150 | | 1840 | 4.9 | 150 | | 1727 | 5.2 | 160 |
| | 2124 | 2.3 | 70 | | 1929 | 2.3 | 70 | | 2211 | 3.9 | 120 | | 2057 | 3.6 | 110 | | 2135 | 4.9 | 150 | | 2127 | 4.6 | 140 |
| 6 Th | 0509 | 5.9 | 180 | 21 F | 0317 | 5.6 | 170 | 6 Su | 0440 | 6.2 | 190 | 21 M | 0330 | 7.2 | 220 | 6 Tu | 0352 | 6.6 | 200 | 21 W | 0336 | 7.5 | 230 |
| | 1114 | 3.9 | 120 | | 0857 | 4.3 | 130 | | 1153 | 2.6 | 80 | | 1039 | 2.0 | 60 | | 1143 | 2.0 | 60 | | 1114 | 0.7 | 20 |
| | 1613 | 4.9 | 150 | | 1342 | 4.9 | 150 | | 1814 | 5.2 | 160 | | 1712 | 5.6 | 170 | | 1854 | 5.2 | 160 | | 1832 | 5.9 | 180 |
| | 2234 | 2.6 | 80 | | 2045 | 2.6 | 80 | | 2255 | 3.9 | 120 | | 2205 | 3.6 | 110 | | 2234 | 4.9 | 150 | | 2246 | 4.9 | 150 |
| 7 F | 0534 | 6.2 | 190 | 22 Sa | 0356 | 6.2 | 190 | 7 M | 0504 | 6.6 | 200 | 22 Tu | 0417 | 7.5 | 230 | 7 W | 0428 | 6.6 | 200 | 22 Th | 0431 | 7.5 | 230 |
| | 1152 | 3.3 | 100 | | 1010 | 3.6 | 110 | | 1216 | 2.0 | 60 | | 1129 | 1.0 | 30 | | 1210 | 1.6 | 50 | | 1205 | 0.0 | 0 |
| | 1726 | 5.2 | 160 | | 1529 | 5.2 | 160 | | 1844 | 5.6 | 170 | | 1819 | 5.9 | 180 | | 1917 | 5.6 | 170 | | 1923 | 6.6 | 200 |
| | 2320 | 3.0 | 90 | | 2151 | 2.6 | 80 | | 2332 | 4.3 | 130 | | 2307 | 3.9 | 120 | | 2325 | 4.9 | 150 | | 2354 | 4.9 | 150 |
| 8 Sa | 0553 | 6.2 | 190 | 23 Su | 0432 | 6.6 | 200 | 8 Tu | 0528 | 6.6 | 200 | 23 W | 0503 | 7.9 | 240 | 8 Th | 0503 | 6.9 | 210 | 23 F | 0524 | 7.9 | 240 |
| | 1222 | 3.0 | 90 | | 1101 | 2.6 | 80 | | 1238 | 1.6 | 50 | | 1217 | 0.3 | 10 | | 1239 | 1.0 | 30 | | 1252 | -0.3 | -10 |
| | 1812 | 5.6 | 170 | | 1657 | 5.6 | 170 | | 1914 | 5.9 | 180 | | 1914 | 6.6 | 200 | | 1944 | 5.9 | 180 | | 2008 | 6.9 | 210 |
| | 2353 | 3.0 | 90 | | 2247 | 2.6 | 80 | | | | | | | | | | | | | | | | |
| 9 Su | 0610 | 6.2 | 190 | 24 M | 0508 | 7.2 | 220 | 9 W | 0006 | 4.3 | 130 | 24 Th | 0004 | 4.3 | 130 | 9 F | 0010 | 4.9 | 150 | 24 Sa | 0054 | 4.6 | 140 |
| | 1245 | 2.3 | 70 | | 1147 | 1.6 | 50 | | 0553 | 6.9 | 210 | | 0548 | 7.9 | 240 | | 0537 | 6.9 | 210 | | 0615 | 7.5 | 230 |
| | 1846 | 5.9 | 180 | | 1804 | 6.2 | 190 | | 1303 | 1.3 | 40 | | 1303 | -0.3 | -10 | | 1309 | 0.7 | 20 | | 1337 | -0.3 | -10 |
| | | | | | 2338 | 3.0 | 90 | | 1943 | 5.9 | 180 | | 2004 | 6.9 | 210 | | 2013 | 6.2 | 190 | | 2049 | 7.2 | 220 |
| 10 M | 0020 | 3.3 | 100 | 25 Tu | 0545 | 7.5 | 230 | 10 Th | 0039 | 4.3 | 130 | 25 F | 0058 | 4.3 | 130 | 10 Sa | 0051 | 4.9 | 150 | 25 Su | 0150 | 4.6 | 140 |
| | 0627 | 6.6 | 200 | | 1231 | 0.7 | 20 | | 0617 | 6.9 | 210 | | 0632 | 7.9 | 240 | | 0610 | 6.9 | 210 | | 0703 | 7.5 | 230 |
| | 1307 | 2.0 | 60 | | 1900 | 6.6 | 200 | | 1328 | 1.0 | 30 | | 1348 | -0.7 | -20 | | 1339 | 0.7 | 20 | | 1419 | -0.3 | -10 |
| | 1917 | 5.9 | 180 | | | | | | 2016 | 6.2 | 190 | | 2052 | 6.9 | 210 | | 2044 | 6.6 | 200 | | 2127 | 7.2 | 220 |
| 11 Tu | 0047 | 3.3 | 100 | 26 W | 0026 | 3.0 | 90 | 11 F | 0110 | 4.3 | 130 | 26 Sa | 0151 | 4.3 | 130 | 11 Su | 0129 | 4.9 | 150 | 26 M | 0242 | 4.3 | 130 |
| | 0646 | 6.6 | 200 | | 0623 | 7.9 | 240 | | 0641 | 6.9 | 210 | | 0716 | 7.9 | 240 | | 0643 | 6.9 | 210 | | 0750 | 7.2 | 220 |
| | 1328 | 1.6 | 50 | | 1315 | 0.0 | 0 | | 1356 | 1.0 | 30 | | 1433 | -0.7 | -20 | | 1409 | 0.3 | 10 | | 1458 | 0.3 | 10 |
| | 1947 | 6.2 | 190 | | 1952 | 6.9 | 210 | | 2050 | 6.2 | 190 | | 2139 | 7.2 | 220 | | 2115 | 6.6 | 200 | | 2202 | 7.2 | 220 |
| 12 W | 0113 | 3.3 | 100 | 27 Th | 0112 | 3.3 | 100 | 12 Sa | 0141 | 4.3 | 130 | 27 Su | 0245 | 4.6 | 140 | 12 M | 0209 | 4.9 | 150 | 27 Tu | 0332 | 4.3 | 130 |
| | 0706 | 6.9 | 210 | | 0702 | 7.9 | 240 | | 0705 | 6.9 | 210 | | 0759 | 7.5 | 230 | | 0718 | 6.9 | 210 | | 0835 | 6.9 | 210 |
| | 1352 | 1.3 | 40 | | 1400 | -0.3 | -10 | | 1425 | 0.7 | 20 | | 1516 | -0.3 | -10 | | 1441 | 0.7 | 20 | | 1535 | 0.7 | 20 |
| | 2019 | 6.2 | 190 | | 2044 | 6.9 | 210 | | 2126 | 6.2 | 190 | | 2226 | 6.9 | 210 | | 2147 | 6.6 | 200 | | 2234 | 7.2 | 220 |
| 13 Th | 0139 | 3.6 | 110 | 28 F | 0159 | 3.6 | 110 | 13 Su | 0213 | 4.6 | 140 | 28 M | 0340 | 4.6 | 140 | 13 Tu | 0251 | 4.6 | 140 | 28 W | 0422 | 4.3 | 130 |
| | 0725 | 6.9 | 210 | | 0741 | 7.9 | 240 | | 0731 | 6.9 | 210 | | 0842 | 6.9 | 210 | | 0756 | 6.9 | 210 | | 0919 | 6.2 | 190 |
| | 1417 | 1.3 | 40 | | 1445 | -0.7 | -20 | | 1456 | 0.7 | 20 | | 1559 | 0.3 | 10 | | 1514 | 0.7 | 20 | | 1608 | 1.6 | 50 |
| | 2052 | 6.2 | 190 | | 2137 | 6.9 | 210 | | 2203 | 6.2 | 190 | | 2312 | 6.9 | 210 | | 2219 | 6.9 | 210 | | 2303 | 7.2 | 220 |
| 14 F | 0203 | 3.6 | 110 | 29 Sa | 0247 | 3.9 | 120 | 14 M | 0248 | 4.6 | 140 | 29 Tu | 0441 | 4.6 | 140 | 14 W | 0337 | 4.6 | 140 | 29 Th | 0514 | 3.9 | 120 |
| | 0743 | 6.9 | 210 | | 0819 | 7.5 | 230 | | 0802 | 6.9 | 210 | | 0927 | 6.2 | 190 | | 0839 | 6.6 | 200 | | 1003 | 5.6 | 170 |
| | 1445 | 1.0 | 30 | | 1531 | -0.3 | -10 | | 1529 | 1.0 | 30 | | 1640 | 1.3 | 40 | | 1548 | 1.0 | 30 | | 1636 | 2.3 | 70 |
| | 2127 | 5.9 | 180 | | 2232 | 6.6 | 200 | | 2243 | 6.2 | 190 | | 2357 | 6.9 | 210 | | 2253 | 6.9 | 210 | | 2332 | 6.9 | 210 |
| 15 Sa | 0227 | 3.9 | 120 | 30 Su | 0338 | 4.3 | 130 | 15 Tu | 0328 | 4.6 | 140 | 30 W | 0549 | 4.6 | 140 | 15 Th | 0430 | 4.3 | 130 | 30 F | 0610 | 3.9 | 120 |
| | 0803 | 6.9 | 210 | | 0858 | 7.2 | 220 | | 0837 | 6.6 | 200 | | 1015 | 5.6 | 170 | | 0927 | 6.2 | 190 | | 1053 | 4.9 | 150 |
| | 1515 | 1.0 | 30 | | 1619 | 0.3 | 10 | | 1605 | 1.3 | 40 | | 1721 | 2.0 | 60 | | 1623 | 1.6 | 50 | | 1658 | 3.0 | 90 |
| | 2206 | 5.9 | 180 | | 2331 | 6.6 | 200 | | 2324 | 6.2 | 190 | | | | | | 2328 | 6.9 | 210 | | | | |

Suez, Egypt, 2011

Times and Heights of High and Low Waters

| April | | | | May | | | | June | | | | | | | | | |
|-----------------|--------|---------|-----------------|--------|---------|-----------------|--------|-----------------|-----------------|---------|---------|-----------------|--------|---------|-----------------|------|---------|
| Time | Height | | Time | Height | | Time | Height | | Time | Height | | Time | Height | | | | |
| | h m | ft cm | | h m | ft cm | | h m | ft cm | | h m | ft cm | | h m | ft cm | | | |
| 1 F | 0435 | 2.3 69 | 16 Sa | 0333 | 1.4 44 | 1 Su | 0424 | 2.4 74 | 16 M | 0405 | 1.2 36 | 1 W | 0458 | 2.1 63 | 16 Th | 0537 | 0.9 26 |
| | 1050 | 5.8 176 | | 0933 | 6.5 198 | | 1043 | 5.5 169 | | 1005 | 6.4 194 | | 1109 | 5.3 161 | | 1148 | 5.8 177 |
| | 1646 | 2.5 75 | | 1554 | 1.3 41 | | 1630 | 2.6 79 | | 1622 | 1.1 34 | | 1709 | 2.2 67 | | 1756 | 1.0 32 |
| | 2309 | 5.7 175 | | 2201 | 6.7 203 | | 2258 | 5.7 174 | | 2237 | 6.8 206 | | 2322 | 5.6 172 | | | |
| 2 Sa | 0500 | 2.4 72 | 17 Su | 0422 | 1.2 37 | 2 M | 0450 | 2.4 73 | 17 Tu | 0456 | 1.0 32 | 2 Th | 0533 | 1.9 59 | 17 F | 0011 | 6.2 188 |
| | 1118 | 5.8 177 | | 1024 | 6.8 207 | | 1111 | 5.6 171 | | 1100 | 6.5 197 | | 1141 | 5.3 163 | | 0626 | 0.9 27 |
| | 1709 | 2.5 76 | | 1643 | 1.1 34 | | 1700 | 2.5 77 | | 1715 | 1.0 32 | | 1748 | 2.1 63 | | 1243 | 5.8 176 |
| | 2335 | 5.8 176 | | 2254 | 7.0 212 | | 2322 | 5.8 177 | | 2330 | 6.8 208 | | 2356 | 5.7 174 | | 1848 | 1.1 35 |
| 3 Su | 0524 | 2.4 73 | 18 M | 0511 | 1.0 32 | 3 Tu | 0520 | 2.3 71 | 18 W | 0546 | 1.0 31 | 3 F | 0613 | 1.8 55 | 18 Sa | 0103 | 6.0 183 |
| | 1143 | 5.9 179 | | 1116 | 7.0 212 | | 1135 | 5.7 174 | | 1156 | 6.5 198 | | 1215 | 5.4 165 | | 0713 | 1.0 30 |
| | 1731 | 2.5 75 | | 1731 | 1.0 30 | | 1731 | 2.4 74 | | 1807 | 1.1 33 | | 1830 | 2.0 60 | | 1335 | 5.7 173 |
| | 2358 | 5.8 178 | | 2345 | 7.1 217 | | 2348 | 5.9 179 | | | | | | | | 1939 | 1.3 40 |
| 4 M | 0548 | 2.4 72 | 19 Tu | 0601 | 1.0 30 | 4 W | 0554 | 2.3 69 | 19 Th | 0024 | 6.8 206 | 4 Sa | 0031 | 5.7 174 | 19 Su | 0152 | 5.8 176 |
| | 1205 | 5.9 181 | | 1207 | 7.0 213 | | 1201 | 5.7 175 | | 0639 | 1.0 32 | | 0654 | 1.7 52 | | 0800 | 1.1 35 |
| | 1800 | 2.4 74 | | 1822 | 1.0 30 | | 1809 | 2.4 72 | | 1252 | 6.4 195 | | 1254 | 5.4 166 | | 1428 | 5.5 169 |
| | | | | | | | | | | 1901 | 1.2 37 | | 1915 | 1.9 57 | | 2028 | 1.5 46 |
| 5 Tu | 0020 | 5.9 181 | 20 W | 0039 | 7.1 217 | 5 Th | 0016 | 5.9 180 | 20 F | 0118 | 6.6 200 | 5 Su | 0113 | 5.7 174 | 20 M | 0241 | 5.5 167 |
| | 0618 | 2.3 71 | | 0652 | 1.0 32 | | 0631 | 2.2 67 | | 0731 | 1.2 36 | | 0737 | 1.6 49 | | 0846 | 1.3 41 |
| | 1228 | 6.0 182 | | 1301 | 6.9 210 | | 1231 | 5.7 175 | | 1348 | 6.2 189 | | 1337 | 5.4 166 | | 1518 | 5.3 163 |
| | 1831 | 2.4 72 | | 1916 | 1.1 33 | | 1848 | 2.3 70 | | 1958 | 1.4 42 | | 2001 | 1.8 55 | | 2118 | 1.7 52 |
| 6 W | 0045 | 6.0 182 | 21 Th | 0133 | 7.0 212 | 6 F | 0052 | 5.9 180 | 21 Sa | 0213 | 6.3 192 | 6 M | 0158 | 5.6 172 | 21 Tu | 0331 | 5.2 158 |
| | 0652 | 2.3 70 | | 0745 | 1.2 38 | | 0711 | 2.1 65 | | 0824 | 1.4 42 | | 0822 | 1.5 47 | | 0930 | 1.6 48 |
| | 1254 | 6.0 182 | | 1358 | 6.7 203 | | 1307 | 5.7 174 | | 1446 | 6.0 182 | | 1426 | 5.4 166 | | 1611 | 5.2 158 |
| | 1909 | 2.3 71 | | 2013 | 1.3 40 | | 1931 | 2.2 68 | | 2054 | 1.6 49 | | 2050 | 1.8 54 | | 2207 | 1.9 59 |
| 7 Th | 0115 | 6.0 182 | 22 F | 0230 | 6.7 203 | 7 Sa | 0131 | 5.8 178 | 22 Su | 0311 | 6.0 182 | 7 Tu | 0246 | 5.6 170 | 22 W | 0422 | 4.9 150 |
| | 0731 | 2.3 70 | | 0841 | 1.5 45 | | 0754 | 2.1 65 | | 0918 | 1.6 49 | | 0911 | 1.5 45 | | 1016 | 1.8 55 |
| | 1326 | 5.9 180 | | 1458 | 6.3 192 | | 1348 | 5.6 172 | | 1546 | 5.7 175 | | 1518 | 5.4 166 | | 1703 | 5.0 153 |
| | 1950 | 2.3 71 | | 2113 | 1.6 49 | | 2016 | 2.2 68 | | 2154 | 1.9 57 | | 2145 | 1.7 53 | | 2300 | 2.1 65 |
| 8 F | 0150 | 5.9 179 | 23 Sa | 0331 | 6.3 191 | 8 Su | 0216 | 5.7 174 | 23 M | 0409 | 5.6 171 | 8 W | 0341 | 5.5 167 | 23 Th | 0515 | 4.7 143 |
| | 0813 | 2.4 72 | | 0941 | 1.8 54 | | 0841 | 2.1 65 | | 1015 | 1.9 57 | | 1003 | 1.5 45 | | 1103 | 2.0 61 |
| | 1403 | 5.8 176 | | 1603 | 6.0 182 | | 1435 | 5.5 169 | | 1648 | 5.5 168 | | 1618 | 5.4 166 | | 1756 | 4.9 149 |
| | 2033 | 2.4 73 | | 2218 | 1.9 58 | | 2107 | 2.2 68 | | 2256 | 2.1 64 | | 2245 | 1.7 53 | | 2354 | 2.2 68 |
| 9 Sa | 0233 | 5.7 174 | 24 Su | 0437 | 5.9 180 | 9 M | 0307 | 5.6 171 | 24 Tu | 0509 | 5.3 162 | 9 Th | 0441 | 5.4 164 | 24 F | 0609 | 4.5 138 |
| | 0858 | 2.5 75 | | 1048 | 2.1 63 | | 0931 | 2.1 65 | | 1113 | 2.1 64 | | 1101 | 1.5 45 | | 1156 | 2.2 66 |
| | 1448 | 5.6 170 | | 1713 | 5.7 173 | | 1531 | 5.4 166 | | 1750 | 5.3 163 | | 1722 | 5.5 168 | | 1850 | 4.9 148 |
| | 2124 | 2.5 75 | | 2330 | 2.1 65 | | 2203 | 2.2 68 | | 2358 | 2.3 69 | | 2348 | 1.7 52 | | 1941 | 4.9 148 |
| 10 Su | 0326 | 5.5 169 | 25 M | 0546 | 5.6 171 | 10 Tu | 0403 | 5.5 167 | 25 W | 0609 | 5.1 156 | 10 F | 0545 | 5.3 163 | 25 Sa | 0048 | 2.3 70 |
| | 0950 | 2.6 78 | | 1200 | 2.3 70 | | 1028 | 2.1 65 | | 1213 | 2.3 70 | | 1205 | 1.4 44 | | 0705 | 4.5 136 |
| | 1543 | 5.4 164 | | 1824 | 5.5 168 | | 1633 | 5.4 165 | | 1848 | 5.3 161 | | 1826 | 5.6 171 | | 1252 | 2.3 69 |
| | 2222 | 2.5 77 | | | | | 2307 | 2.2 67 | | | | | | | | 1941 | 4.9 148 |
| 11 M | 0428 | 5.4 165 | 26 Tu | 0045 | 2.3 69 | 11 W | 0507 | 5.4 166 | 26 Th | 0058 | 2.4 72 | 11 Sa | 0056 | 1.6 48 | 26 Su | 0143 | 2.3 69 |
| | 1052 | 2.6 79 | | 0654 | 5.4 166 | | 1130 | 2.1 63 | | 0707 | 5.0 152 | | 0648 | 5.4 164 | | 0758 | 4.5 136 |
| | 1648 | 5.2 160 | | 1311 | 2.4 73 | | 1741 | 5.5 167 | | 1309 | 2.4 74 | | 1313 | 1.4 42 | | 1346 | 2.2 68 |
| | 2330 | 2.5 76 | | 1931 | 5.4 166 | | | | | 1943 | 5.2 160 | | 1930 | 5.8 176 | | 2028 | 4.9 150 |
| 12 Tu | 0537 | 5.4 164 | 27 W | 0150 | 2.3 71 | 12 Th | 0013 | 2.1 64 | 27 F | 0152 | 2.4 74 | 12 Su | 0200 | 1.4 43 | 27 M | 0231 | 2.1 65 |
| | 1201 | 2.6 78 | | 0756 | 5.4 164 | | 0611 | 5.5 169 | | 0801 | 5.0 151 | | 0754 | 5.4 166 | | 0846 | 4.5 138 |
| | 1801 | 5.3 161 | | 1413 | 2.5 75 | | 1235 | 1.9 59 | | 1358 | 2.5 76 | | 1416 | 1.2 38 | | 1437 | 2.2 66 |
| | | | | 2030 | 5.5 167 | | 1846 | 5.7 173 | | 2031 | 5.3 161 | | 2031 | 6.0 182 | | 2109 | 5.0 153 |
| 13 W | 0043 | 2.4 72 | 28 Th | 0245 | 2.4 72 | 13 F | 0118 | 1.9 58 | 28 Sa | 0235 | 2.4 74 | 13 M | 0300 | 1.2 37 | 28 Tu | 0315 | 2.0 60 |
| | 0645 | 5.5 168 | | 0850 | 5.4 165 | | 0713 | 5.7 174 | | 0848 | 5.0 152 | | 0856 | 5.6 170 | | 0930 | 4.6 141 |
| | 1309 | 2.3 71 | | 1500 | 2.5 77 | | 1337 | 1.7 53 | | 1441 | 2.5 77 | | 1515 | 1.1 34 | | 1522 | 2.0 62 |
| | 1913 | 5.5 168 | | 2118 | 5.5 169 | | 1948 | 6.0 182 | | 2113 | 5.3 162 | | 2130 | 6.1 187 | | 2146 | 5.2 157 |
| 14 Th | 0146 | 2.1 64 | 29 F | 0324 | 2.4 73 | 14 Sa | 0218 | 1.6 50 | 29 Su | 0313 | 2.4 72 | 14 Tu | 0354 | 1.0 32 | 29 W | 0356 | 1.8 54 |
| | 0745 | 5.8 176 | | 0935 | 5.4 166 | | 0813 | 5.9 181 | | 0930 | 5.1 154 | | 0956 | 5.7 174 | | 1009 | 4.7 144 |
| | 1411 | 2.0 62 | | 1535 | 2.6 79 | | 1435 | 1.5 45 | | 1518 | 2.5 76 | | 1611 | 1.0 31 | | 1605 | 1.9 57 |
| | 2013 | 5.9 179 | | 2158 | 5.6 171 | | 2046 | 6.3 191 | | 2148 | 5.4 165 | | 2226 | 6.2 190 | | 2222 | 5.2 160 |
| 15 F | 0243 | 1.8 54 | 30 Sa | 0356 | 2.4 74 | 15 Su | 0313 | 1.4 42 | 30 M | 0348 | 2.3 70 | 15 W | 0446 | 0.9 28 | 30 Th | 0435 | 1.6 48 |
| | 0841 | 6.1 187 | | 1013 | 5.5 167 | | 0909 | 6.2 188 | | 1005 | 5.1 156 | | 1054 | 5.8 176 | | 1045 | 4.9 148 |
| | 1503 | 1.7 51 | | 1603 | 2.6 79 | | 1530 | 1.3 39 | | 1554 | 2.4 73 | | 1705 | 1.0 30 | | 1648 | 1.7 52 |
| | 2109 | 6.3 191 | | 2231 | 5.6 172 | | 2143 | 6.6 200 | | 2220 | 5.5 167 | | 2320 | 6.2 190 | | 2258 | 5.4 164 |
| | | | | | | | | 31 Tu | 0422 | 2.2 67 | | | | | | | |
| | | | | | | | | | 1037 | 5.2 159 | | | | | | | |
| | | | | | | | | | 1630 | 2.3 70 | | | | | | | |
| | | | | | | | | | 2250 | 5.6 170 | | | | | | | |

Time meridian 30° E. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to the chart datum of soundings.

Suez, Egypt, 2011

Times and Heights of High and Low Waters

| July | | | August | | | September | | | | | | | | | | | | | | | | | |
|-----------------|--------|-----|--------|-----------------|------|-----------|--------|-----------------|------|--------|-----|-----------------|------|-----|-----|-----------------|------|-----|-----|-----------------|------|-----|-----|
| Time | Height | | Time | Height | | Time | Height | | Time | Height | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | |
| 1 F | 0515 | 1.4 | 42 | 16 Sa | 0000 | 5.6 | 171 | 1 M | 0611 | 0.4 | 13 | 16 Tu | 0052 | 5.1 | 154 | 1 Th | 0054 | 6.0 | 184 | 16 F | 0105 | 5.1 | 154 |
| | 1120 | 5.0 | 153 | | 0611 | 0.7 | 22 | | 1218 | 5.4 | 165 | | 0650 | 1.0 | 31 | | 0715 | 0.0 | 1 | | 0713 | 1.5 | 45 |
| | 1730 | 1.5 | 47 | | 1233 | 5.3 | 161 | | 1833 | 0.7 | 22 | | 1324 | 5.0 | 153 | | 1331 | 6.1 | 185 | | 1337 | 5.2 | 158 |
| | 2333 | 5.5 | 167 | | 1831 | 1.0 | 32 | | 0031 | 5.7 | 175 | | 1913 | 1.4 | 44 | | 1946 | 0.5 | 16 | | 1941 | 1.8 | 56 |
| 2 Sa | 0554 | 1.2 | 37 | 17 Su | 0043 | 5.5 | 167 | 2 Tu | 0654 | 0.3 | 9 | 17 W | 0124 | 4.9 | 150 | 2 F | 0145 | 5.8 | 178 | 17 Sa | 0133 | 5.0 | 151 |
| | 1158 | 5.2 | 157 | | 0650 | 0.8 | 25 | | 1303 | 5.6 | 170 | | 1356 | 5.0 | 151 | | 1426 | 5.9 | 181 | | 0750 | 1.6 | 49 |
| | 1811 | 1.4 | 42 | | 1913 | 1.2 | 37 | | 1918 | 0.7 | 20 | | 1945 | 1.6 | 48 | | 2041 | 0.7 | 22 | | 1409 | 5.1 | 155 |
| 3 Su | 0013 | 5.6 | 170 | 18 M | 0126 | 5.3 | 161 | 3 W | 0116 | 5.7 | 175 | 18 Th | 0152 | 4.8 | 146 | 3 Sa | 0241 | 5.5 | 168 | 18 Su | 0207 | 4.8 | 145 |
| | 0635 | 1.0 | 31 | | 0728 | 1.0 | 29 | | 0739 | 0.2 | 7 | | 0752 | 1.2 | 38 | | 0900 | 0.5 | 14 | | 0831 | 1.7 | 53 |
| | 1239 | 5.3 | 161 | | 1400 | 5.2 | 157 | | 1350 | 5.6 | 172 | | 1428 | 4.9 | 148 | | 1526 | 5.7 | 174 | | 1448 | 5.0 | 151 |
| | 1856 | 1.2 | 38 | | 1954 | 1.4 | 42 | | 2007 | 0.7 | 21 | | 2020 | 1.7 | 51 | | 2143 | 1.0 | 30 | | 2109 | 2.1 | 63 |
| 4 M | 0054 | 5.6 | 171 | 19 Tu | 0205 | 5.1 | 155 | 4 Th | 0205 | 5.6 | 171 | 19 F | 0224 | 4.6 | 141 | 4 Su | 0345 | 5.1 | 156 | 19 M | 0252 | 4.5 | 138 |
| | 0716 | 0.9 | 27 | | 0803 | 1.1 | 35 | | 0826 | 0.3 | 9 | | 0828 | 1.4 | 43 | | 1003 | 0.8 | 24 | | 0922 | 1.9 | 59 |
| | 1322 | 5.4 | 164 | | 1441 | 5.0 | 153 | | 1445 | 5.6 | 171 | | 1503 | 4.7 | 144 | | 1635 | 5.4 | 165 | | 1543 | 4.8 | 146 |
| | 1941 | 1.2 | 36 | | 2031 | 1.6 | 48 | | 2101 | 0.8 | 24 | | 2103 | 1.8 | 55 | | 2256 | 1.2 | 37 | | 2207 | 2.2 | 67 |
| 5 Tu | 0139 | 5.6 | 171 | 20 W | 0245 | 4.9 | 148 | 5 F | 0258 | 5.3 | 163 | 20 Sa | 0300 | 4.4 | 135 | 5 M | 0501 | 4.8 | 145 | 20 Tu | 0350 | 4.3 | 131 |
| | 0801 | 0.8 | 25 | | 0839 | 1.3 | 40 | | 0918 | 0.4 | 13 | | 0911 | 1.6 | 48 | | 1122 | 1.1 | 33 | | 1024 | 2.1 | 64 |
| | 1411 | 5.4 | 166 | | 1522 | 4.9 | 148 | | 1543 | 5.5 | 167 | | 1545 | 4.6 | 140 | | 1750 | 5.2 | 159 | | 1650 | 4.6 | 141 |
| | 2030 | 1.1 | 35 | | 2113 | 1.7 | 53 | | 2201 | 1.0 | 29 | | 2152 | 1.9 | 59 | | 2152 | 1.9 | 59 | | 2316 | 2.2 | 68 |
| 6 W | 0226 | 5.5 | 168 | 21 Th | 0324 | 4.6 | 141 | 6 Sa | 0400 | 5.1 | 154 | 21 Su | 0345 | 4.2 | 128 | 6 Tu | 0020 | 1.3 | 39 | 21 W | 0511 | 4.1 | 126 |
| | 0848 | 0.8 | 24 | | 0918 | 1.5 | 46 | | 1020 | 0.7 | 20 | | 1001 | 1.8 | 54 | | 0626 | 4.6 | 139 | | 1139 | 2.2 | 66 |
| | 1503 | 5.4 | 166 | | 1605 | 4.7 | 144 | | 1648 | 5.3 | 161 | | 1641 | 4.5 | 136 | | 1246 | 1.2 | 37 | | 1805 | 4.7 | 142 |
| | 2124 | 1.2 | 36 | | 2156 | 1.9 | 58 | | 2311 | 1.1 | 34 | | 2252 | 2.1 | 63 | | 1907 | 5.2 | 157 | | 1909 | 5.2 | 157 |
| 7 Th | 0320 | 5.4 | 164 | 22 F | 0409 | 4.4 | 134 | 7 Su | 0509 | 4.7 | 144 | 22 M | 0446 | 4.0 | 122 | 7 W | 0141 | 1.2 | 36 | 22 Th | 0031 | 2.1 | 65 |
| | 0941 | 0.8 | 25 | | 1001 | 1.7 | 51 | | 1130 | 0.9 | 27 | | 1103 | 1.9 | 58 | | 0748 | 4.6 | 141 | | 0637 | 4.2 | 128 |
| | 1600 | 5.4 | 165 | | 1654 | 4.6 | 140 | | 1801 | 5.2 | 157 | | 1748 | 4.4 | 134 | | 1405 | 1.2 | 36 | | 1256 | 2.1 | 63 |
| | 2222 | 1.2 | 38 | | 2246 | 2.0 | 62 | | 0028 | 1.2 | 36 | | 0001 | 2.1 | 63 | | 2016 | 5.2 | 158 | | 1909 | 4.8 | 147 |
| 8 F | 0418 | 5.2 | 158 | 23 Sa | 0500 | 4.2 | 128 | 8 M | 0628 | 4.5 | 138 | 23 Tu | 0607 | 3.9 | 118 | 8 Th | 0248 | 1.0 | 31 | 23 F | 0137 | 1.8 | 55 |
| | 1039 | 0.9 | 28 | | 1052 | 1.9 | 57 | | 1250 | 1.0 | 31 | | 1218 | 2.0 | 60 | | 0858 | 4.8 | 146 | | 0745 | 4.5 | 136 |
| | 1703 | 5.4 | 164 | | 1748 | 4.5 | 138 | | 1915 | 5.1 | 156 | | 1856 | 4.4 | 135 | | 1509 | 1.1 | 33 | | 1400 | 1.8 | 55 |
| | 2328 | 1.3 | 40 | | 2346 | 2.1 | 64 | | 0146 | 1.1 | 33 | | 0115 | 1.9 | 58 | | 2116 | 5.3 | 161 | | 2003 | 5.1 | 155 |
| 9 Sa | 0524 | 5.0 | 152 | 24 Su | 0600 | 4.1 | 124 | 9 Tu | 0746 | 4.5 | 138 | 24 W | 0724 | 4.0 | 121 | 9 F | 0343 | 0.9 | 27 | 24 Sa | 0230 | 1.5 | 46 |
| | 1145 | 1.0 | 32 | | 1154 | 2.0 | 60 | | 1407 | 1.0 | 30 | | 1331 | 1.8 | 56 | | 0954 | 5.0 | 152 | | 0837 | 4.9 | 148 |
| | 1811 | 5.3 | 163 | | 1846 | 4.5 | 137 | | 2022 | 5.2 | 158 | | 1954 | 4.6 | 140 | | 1600 | 1.1 | 33 | | 1450 | 1.5 | 45 |
| | 0039 | 1.3 | 40 | | 0050 | 2.1 | 63 | | 0252 | 0.9 | 27 | | 0215 | 1.6 | 50 | | 2205 | 5.3 | 163 | | 2050 | 5.4 | 166 |
| 10 Su | 0633 | 4.9 | 149 | 25 M | 0703 | 4.0 | 123 | 10 W | 0858 | 4.7 | 142 | 25 Th | 0824 | 4.2 | 127 | 10 Sa | 0426 | 0.9 | 27 | 25 Su | 0315 | 1.1 | 34 |
| | 1256 | 1.1 | 33 | | 1300 | 2.0 | 61 | | 1511 | 0.9 | 27 | | 1430 | 1.6 | 49 | | 1041 | 5.2 | 157 | | 0922 | 5.3 | 162 |
| | 1920 | 5.4 | 165 | | 1941 | 4.6 | 139 | | 2124 | 5.3 | 161 | | 2043 | 4.8 | 147 | | 1641 | 1.1 | 35 | | 1535 | 1.2 | 36 |
| | 0148 | 1.2 | 36 | | 0152 | 1.9 | 59 | | 0348 | 0.7 | 22 | | 0303 | 1.3 | 40 | | 2248 | 5.3 | 163 | | 2133 | 5.8 | 178 |
| 11 M | 0745 | 4.9 | 148 | 26 Tu | 0805 | 4.1 | 125 | 11 Th | 1000 | 4.8 | 147 | 26 F | 0911 | 4.5 | 136 | 11 Su | 0500 | 1.0 | 30 | 26 M | 0358 | 0.8 | 23 |
| | 1407 | 1.0 | 32 | | 1403 | 1.9 | 57 | | 1607 | 0.9 | 26 | | 1518 | 1.3 | 40 | | 1120 | 5.2 | 159 | | 1005 | 5.8 | 176 |
| | 2024 | 5.5 | 168 | | 2031 | 4.7 | 143 | | 2216 | 5.3 | 163 | | 2124 | 5.1 | 156 | | 1715 | 1.3 | 40 | | 1620 | 0.9 | 27 |
| | 0254 | 1.0 | 31 | | 0245 | 1.7 | 52 | | 0437 | 0.6 | 19 | | 0346 | 1.0 | 30 | | 2324 | 5.3 | 161 | | 2216 | 6.2 | 188 |
| 12 Tu | 0854 | 5.0 | 151 | 27 W | 0858 | 4.2 | 129 | 12 F | 1050 | 5.0 | 152 | 27 Sa | 0952 | 4.8 | 147 | 12 M | 0528 | 1.1 | 35 | 27 Tu | 0439 | 0.5 | 14 |
| | 1511 | 1.0 | 29 | | 1456 | 1.7 | 51 | | 1654 | 0.9 | 26 | | 1601 | 1.0 | 31 | | 1154 | 5.2 | 160 | | 1048 | 6.2 | 189 |
| | 2126 | 5.6 | 171 | | 2116 | 4.9 | 148 | | 2303 | 5.3 | 163 | | 2203 | 5.4 | 166 | | 1743 | 1.5 | 45 | | 1703 | 0.7 | 21 |
| | 0350 | 0.8 | 25 | | 0331 | 1.4 | 43 | | 0516 | 0.7 | 20 | | 0426 | 0.7 | 20 | | 2354 | 5.2 | 159 | | 2301 | 6.4 | 195 |
| 13 W | 0956 | 5.1 | 155 | 28 Th | 0943 | 4.4 | 135 | 13 Sa | 1137 | 5.1 | 154 | 28 Su | 1031 | 5.2 | 159 | 13 Tu | 0550 | 1.3 | 39 | 28 W | 0522 | 0.3 | 8 |
| | 1607 | 0.9 | 27 | | 1543 | 1.5 | 45 | | 1733 | 1.0 | 30 | | 1645 | 0.8 | 24 | | 1222 | 5.2 | 159 | | 1133 | 6.5 | 198 |
| | 2220 | 5.7 | 173 | | 2154 | 5.1 | 154 | | 2343 | 5.3 | 161 | | 2243 | 5.7 | 175 | | 1809 | 1.6 | 49 | | 1748 | 0.6 | 18 |
| | 0441 | 0.7 | 22 | | 0413 | 1.1 | 35 | | 0552 | 0.8 | 23 | | 0505 | 0.4 | 11 | | 0550 | 1.0 | 30 | | 2346 | 6.5 | 198 |
| 14 Th | 1052 | 5.2 | 158 | 29 F | 1020 | 4.7 | 142 | 14 Su | 1216 | 5.1 | 155 | 29 M | 1113 | 5.6 | 170 | 14 W | 0018 | 5.2 | 158 | 29 Th | 0607 | 0.2 | 5 |
| | 1700 | 0.9 | 27 | | 1626 | 1.2 | 38 | | 1809 | 1.1 | 34 | | 1726 | 0.6 | 18 | | 0613 | 1.4 | 42 | | 1222 | 6.7 | 203 |
| | 2313 | 5.7 | 173 | | 2231 | 5.2 | 160 | | 0020 | 5.2 | 158 | | 2324 | 6.0 | 182 | | 1246 | 5.2 | 159 | | 1837 | 0.6 | 18 |
| | 0528 | 0.7 | 21 | | 0452 | 0.9 | 27 | | 0622 | 0.9 | 27 | | 0546 | 0.1 | 4 | | 1835 | 1.7 | 52 | | 0607 | 0.2 | 5 |
| 15 F | 1145 | 5.2 | 160 | 30 Sa | 1058 | 4.9 | 150 | 15 M | 1252 | 5.1 | 154 | 30 Tu | 1156 | 5.9 | 179 | 15 Th | 0043 | 5.1 | 156 | 30 F | 0037 | 6.4 | 196 |
| | 1746 | 0.9 | 28 | | 1707 | 1.0 | 31 | | 1841 | 1.3 | 39 | | 1811 | 0.5 | 14 | | 0641 | 1.4 | 43 | | 0656 | 0.2 | 7 |
| | 0531 | 0.6 | 19 | | 2309 | 5.5 | 167 | | 0020 | 5.2 | 158 | | 0007 | 6.1 | 185 | | 1311 | 5.2 | 159 | | 1313 | 6.6 | 202 |
| | 1137 | 5.2 | 158 | | 1750 | 0.9 | 26 | | 0622 | 0.9 | 27 | | 0630 | 0.0 | 1 | | 1905 | 1.8 | 54 | | 1928 | 0.7 | 22 |
| 31 Su | 1750 | 0.9 | 26 | 31 Su | 2348 | 5.6 | 172 | 31 Su | 1856 | 0.5 | 14 | 31 W | 1241 | 6.0 | 184 | | | | | | | | |

Dar Es Salaam, Tanzania, 2011

Times and Heights of High and Low Waters

| January | | | | February | | | | March | | | | | | | | | | | | | | | | | | | | | |
|-----------------|--------|------|------|-----------------|--------|------|--------|-----------------|--------|--------|------|-----------------|--------|------|------|-----------------|--------|------|------|-----------------|--------|------|------|------|------|------|------|------|-----|
| Time | Height | | Time | Height | | Time | Height | | Time | Height | | Time | Height | | | | | | | | | | | | | | | | |
| | h | m | | ft | cm | | h | m | | ft | cm | | h | m | ft | cm | | | | | | | | | | | | | |
| 1 Sa | 0131 | 10.5 | 320 | 16 Su | 0107 | 9.5 | 290 | 1 Tu | 0328 | 10.8 | 330 | 16 W | 0246 | 10.8 | 330 | 1 Tu | 0232 | 9.8 | 300 | 16 W | 0127 | 9.8 | 300 | | | | | | |
| | 0813 | 3.3 | 100 | | 0755 | 3.9 | 120 | | 0955 | 2.3 | 70 | | 0913 | 2.3 | 70 | | 0904 | 3.3 | 100 | | 0806 | 3.9 | 120 | | | | | | |
| | 1420 | 8.5 | 260 | | 1359 | 7.9 | 240 | | 1605 | 9.8 | 300 | | 1523 | 10.2 | 310 | | 1516 | 9.2 | 280 | | 1417 | 9.2 | 280 | | | | | | |
| | 2004 | 3.6 | 110 | | 1939 | 4.3 | 130 | | 2150 | 2.6 | 80 | | 2114 | 2.6 | 80 | | 2104 | 3.6 | 110 | | 2015 | 3.9 | 120 | | | | | | |
| 2 Su | 0233 | 11.2 | 340 | 17 M | 0209 | 10.5 | 320 | 2 W | 0407 | 11.5 | 350 | 17 Th | 0328 | 11.8 | 360 | 2 W | 0320 | 10.5 | 320 | 17 Th | 0226 | 10.8 | 330 | | | | | | |
| | 0910 | 2.6 | 80 | | 0847 | 3.0 | 90 | | 1027 | 1.6 | 50 | | 0947 | 1.3 | 40 | | 0939 | 2.6 | 80 | | 0847 | 2.6 | 80 | | | | | | |
| | 1518 | 9.2 | 280 | | 1454 | 8.9 | 270 | | 1637 | 10.5 | 320 | | 1558 | 11.2 | 340 | | 1551 | 10.2 | 310 | | 1459 | 10.8 | 330 | | | | | | |
| | 2101 | 3.0 | 90 | | 2036 | 3.3 | 100 | | 2225 | 2.3 | 70 | | 2153 | 1.6 | 50 | | 2143 | 3.0 | 90 | | 2100 | 2.6 | 80 | | | | | | |
| 3 M | 0324 | 11.5 | 350 | 18 Tu | 0257 | 11.2 | 340 | 3 Th | 0439 | 11.8 | 360 | 18 F | 0406 | 12.8 | 390 | 3 Th | 0356 | 11.2 | 340 | 18 F | 0310 | 11.8 | 360 | | | | | | |
| | 0953 | 2.0 | 60 | | 0927 | 2.0 | 60 | | 1055 | 1.3 | 40 | | 1019 | 0.7 | 20 | | 1008 | 2.0 | 60 | | 0921 | 1.6 | 50 | | | | | | |
| | 1603 | 9.8 | 300 | | 1536 | 9.5 | 290 | | 1705 | 11.2 | 340 | | 1633 | 12.1 | 370 | | 1620 | 10.8 | 330 | | 1536 | 12.1 | 370 | | | | | | |
| | 2147 | 2.6 | 80 | | 2121 | 2.6 | 80 | | ● 2256 | 2.0 | 60 | | ○ 2230 | 1.0 | 30 | | 2214 | 2.3 | 70 | | 2138 | 1.3 | 40 | | | | | | |
| 4 Tu | 0406 | 11.8 | 360 | 19 W | 0339 | 12.1 | 370 | 4 F | 0508 | 12.1 | 370 | 19 Sa | 0443 | 13.1 | 400 | 4 F | 0425 | 11.5 | 350 | 19 Sa | 0349 | 12.5 | 380 | | | | | | |
| | 1030 | 1.6 | 50 | | 1002 | 1.3 | 40 | | 1121 | 1.3 | 40 | | 1051 | 0.3 | 10 | | 1034 | 1.6 | 50 | | 0954 | 1.0 | 30 | | | | | | |
| | 1640 | 10.5 | 320 | | 1613 | 10.5 | 320 | | 1731 | 11.5 | 350 | | 1708 | 12.8 | 390 | | 1645 | 11.5 | 350 | | 1611 | 13.1 | 400 | | | | | | |
| | ● 2226 | 2.3 | 70 | | 2201 | 2.0 | 60 | | 2325 | 1.6 | 50 | | 2307 | 0.3 | 10 | | ● 2242 | 2.0 | 60 | | ○ 2215 | 0.7 | 20 | | | | | | |
| 5 W | 0443 | 12.1 | 370 | 20 Th | 0418 | 12.5 | 380 | 5 Sa | 0534 | 11.8 | 360 | 20 Su | 0520 | 13.1 | 400 | 5 Sa | 0450 | 11.8 | 360 | 20 Su | 0426 | 12.8 | 390 | | | | | | |
| | 1104 | 1.3 | 40 | | 1036 | 0.7 | 20 | | 1145 | 1.3 | 40 | | 1125 | 0.0 | 0 | | 1057 | 1.3 | 40 | | 1028 | 0.3 | 10 | | | | | | |
| | 1714 | 10.8 | 330 | | 1649 | 11.5 | 350 | | 1756 | 11.5 | 350 | | 1744 | 13.1 | 400 | | 1708 | 11.8 | 360 | | 1647 | 13.8 | 420 | | | | | | |
| | 2301 | 2.0 | 60 | | ○ 2239 | 1.3 | 40 | | 2352 | 2.0 | 60 | | 2346 | 0.3 | 10 | | 2307 | 1.6 | 50 | | 2252 | 0.3 | 10 | | | | | | |
| 6 Th | 0517 | 12.1 | 370 | 21 F | 0456 | 12.8 | 390 | 6 Su | 0600 | 11.5 | 350 | 21 M | 0557 | 12.5 | 380 | 6 Su | 0514 | 11.8 | 360 | 21 M | 0503 | 12.8 | 390 | | | | | | |
| | 1134 | 1.3 | 40 | | 1111 | 0.3 | 10 | | 1208 | 1.3 | 40 | | 1201 | 0.3 | 10 | | 1119 | 1.3 | 40 | | 1102 | 0.3 | 10 | | | | | | |
| | 1746 | 10.8 | 330 | | 1725 | 11.8 | 360 | | 1821 | 11.5 | 350 | | 1821 | 13.1 | 400 | | 1731 | 12.1 | 370 | | 1723 | 13.8 | 420 | | | | | | |
| | 2335 | 2.3 | 70 | | 2318 | 1.0 | 30 | | 7 | 0019 | 2.0 | | 60 | 22 | 0026 | | 1.0 | 30 | 7 | | 0538 | 11.8 | 360 | 22 | 0540 | 12.5 | 380 | | |
| 7 F | 0548 | 11.8 | 360 | 22 Sa | 0534 | 12.8 | 390 | 7 M | 0624 | 11.2 | 340 | 22 Tu | 0635 | 11.8 | 360 | 7 M | 1140 | 1.6 | 50 | 22 Tu | 1138 | 0.3 | 10 | | | | | | |
| | 1203 | 1.6 | 50 | | 1146 | 0.3 | 10 | | 1232 | 1.6 | 50 | | 1238 | 0.7 | 20 | | 1754 | 12.1 | 370 | | 1800 | 13.5 | 410 | | | | | | |
| | 1816 | 10.8 | 330 | | 1802 | 12.1 | 370 | | 1846 | 11.2 | 340 | | 1900 | 12.5 | 380 | | 2357 | 1.6 | 50 | | 2357 | 1.6 | 50 | | | | | | |
| | 8 | 0007 | 2.3 | | 70 | 23 | 0613 | | 12.5 | 380 | 8 | | 0048 | 2.3 | 70 | | 23 | 0110 | 1.6 | | 50 | 8 | 0601 | 11.2 | 340 | 23 | 0010 | 0.7 | 20 |
| 8 Sa | 0618 | 11.5 | 350 | 23 Su | 1223 | 0.7 | 20 | 8 Tu | 0649 | 10.5 | 320 | 23 W | 0716 | 10.8 | 330 | 8 Tu | 1202 | 1.6 | 50 | 23 W | 0618 | 11.8 | 360 | | | | | | |
| | 1233 | 1.6 | 50 | | 1842 | 12.1 | 370 | | 1257 | 2.0 | 60 | | 1317 | 1.6 | 50 | | 1818 | 11.8 | 360 | | 1216 | 1.0 | 30 | | | | | | |
| | 1846 | 10.5 | 320 | | 9 | 0118 | 3.0 | | 90 | 1912 | 10.8 | | 330 | 24 | 0157 | | 2.6 | 80 | 9 | | 0024 | 2.0 | 60 | 24 | 0053 | 1.6 | 50 | | |
| | 9 | 0040 | 2.6 | | 80 | 24 | 0653 | | 11.8 | 360 | 9 | | 0714 | 9.8 | 300 | | 24 | 0759 | 9.5 | | 290 | 9 | 0624 | 10.8 | 330 | 24 | 0659 | 10.8 | 330 |
| 9 Su | 0648 | 10.8 | 330 | 25 M | 1301 | 1.0 | 30 | 9 W | 1323 | 2.6 | 80 | 25 Th | 1359 | 2.6 | 80 | 9 W | 1226 | 2.0 | 60 | 25 Th | 1256 | 2.0 | 60 | | | | | | |
| | 1301 | 2.3 | 70 | | 1923 | 11.8 | 360 | | 1940 | 10.5 | 320 | | 2031 | 10.8 | 330 | | 1841 | 11.5 | 350 | | 1921 | 12.1 | 370 | | | | | | |
| | 1916 | 10.5 | 320 | | 10 | 0114 | 3.3 | | 100 | 10 | 0153 | | 3.6 | 110 | 25 | | 0251 | 3.6 | 110 | | 10 | 0053 | 2.6 | 80 | 25 | 0139 | 2.6 | 80 | |
| | 10 | 0717 | 10.2 | | 310 | 25 | 0736 | | 10.8 | 330 | 10 | | 0742 | 9.2 | 280 | | 25 | 0853 | 8.5 | | 260 | 10 | 0648 | 10.2 | 310 | 25 | 0744 | 9.8 | 300 |
| 10 M | 1331 | 2.6 | 80 | 26 Tu | 1342 | 1.6 | 50 | 10 Th | 1351 | 3.3 | 100 | 26 F | 1447 | 3.6 | 110 | 10 Th | 1251 | 2.6 | 80 | 26 F | 1339 | 3.0 | 90 | | | | | | |
| | 1948 | 10.2 | 310 | | 2009 | 11.5 | 350 | | 2015 | 9.8 | 300 | | ○ 2134 | 9.8 | 300 | | 1907 | 11.2 | 340 | | 2009 | 10.8 | 330 | | | | | | |
| | 11 | 0151 | 3.6 | | 110 | 26 | 0219 | | 3.0 | 90 | 11 | | 0235 | 4.3 | 130 | | 26 | 0409 | 4.6 | | 140 | 11 | 0125 | 3.3 | 100 | 26 | 0232 | 3.6 | 110 |
| | 11 | 0749 | 9.5 | | 290 | 26 | 0823 | | 9.5 | 290 | 11 | | 0818 | 8.2 | 250 | | 26 | 1018 | 7.5 | | 230 | 11 | 0715 | 9.5 | 290 | 26 | 0840 | 8.5 | 260 |
| 11 Tu | 1402 | 3.3 | 100 | 27 W | 1425 | 2.3 | 70 | 11 F | 1426 | 3.9 | 120 | 27 Sa | 1557 | 4.9 | 150 | 11 F | 1319 | 3.3 | 100 | 27 Sa | 1431 | 4.3 | 130 | | | | | | |
| | 2025 | 9.5 | 290 | | ● 2102 | 10.5 | 320 | | ● 2107 | 9.2 | 280 | | 2315 | 9.2 | 280 | | 1940 | 10.5 | 320 | | ● 2109 | 9.8 | 300 | | | | | | |
| | 12 | 0234 | 4.3 | | 130 | 27 | 0319 | | 3.6 | 110 | 12 | | 0339 | 4.9 | 150 | | 27 | 0624 | 4.9 | | 150 | 12 | 0204 | 3.9 | 120 | 27 | 0344 | 4.6 | 140 |
| | 12 | 0825 | 8.5 | | 260 | 27 | 0920 | | 8.5 | 260 | 12 | | 0915 | 7.2 | 220 | | 27 | 1245 | 7.2 | | 220 | 12 | 0749 | 8.5 | 260 | 27 | 1005 | 7.9 | 240 |
| 12 W | 1438 | 3.6 | 110 | 28 Th | 1516 | 3.3 | 100 | 12 Sa | 1519 | 4.6 | 140 | 28 Su | 1824 | 5.2 | 160 | 12 Sa | 1352 | 3.9 | 120 | 28 Su | 1546 | 5.2 | 160 | | | | | | |
| | ● 2112 | 9.2 | 280 | | 2207 | 9.8 | 300 | | 2233 | 8.9 | 270 | | 28 | 0115 | 9.2 | | 280 | 27 | 2025 | | 9.8 | 300 | 28 | 2249 | 8.9 | 270 | | | |
| | 13 | 0331 | 4.6 | | 140 | 28 | 0444 | | 4.3 | 130 | 13 | | 0542 | 5.2 | 160 | | 28 | 0115 | 9.2 | | 280 | 13 | 0300 | 4.6 | 140 | 28 | 0544 | 5.2 | 160 |
| | 13 | 0914 | 7.9 | | 240 | 28 | 1045 | | 7.5 | 230 | 13 | | 1136 | 6.9 | 210 | | 28 | 0814 | 4.3 | | 130 | 13 | 0843 | 7.9 | 240 | 28 | 1223 | 7.9 | 240 |
| 13 Th | 1525 | 4.3 | 130 | 29 F | 1629 | 4.3 | 130 | 13 Su | 1714 | 5.2 | 160 | 29 M | 1424 | 8.2 | 250 | 13 Su | 1444 | 4.9 | 150 | 29 M | 1811 | 5.6 | 170 | | | | | | |
| | 2218 | 8.9 | 270 | | 2341 | 9.5 | 290 | | 14 | 0031 | 9.2 | | 280 | 29 | 2145 | | 8.9 | 270 | 13 | | 2145 | 8.9 | 270 | 29 | 1950 | 4.9 | 150 | | |
| | 14 | 0457 | 4.9 | | 150 | 29 | 0640 | | 4.6 | 140 | 14 | | 0738 | 4.6 | 140 | | 29 | 0442 | 5.2 | | 160 | 14 | 0442 | 5.2 | 160 | 29 | 0048 | 8.9 | 270 |
| | 14 | 1038 | 7.2 | | 220 | 29 | 1246 | | 7.2 | 220 | 14 | | 1343 | 7.5 | 230 | | 29 | 1054 | 7.2 | | 220 | 14 | 1054 | 7.2 | 220 | 29 | 0736 | 4.6 | 140 |
| 14 F | 1638 | 4.6 | 140 | 30 Sa | 1828 | 4.6 | 140 | 14 M | 1924 | 4.6 | 140 | 30 Tu | 1424 | 8.2 | 250 | 14 M | 1635 | 5.6 | 170 | 30 Tu | 1354 | 8.5 | 260 | | | | | | |
| | 2343 | 8.9 | 270 | | 15 | 0639 | 4.6 | | 140 | 15 | 0835 | | 3.3 | 100 | 30 | | 2351 | 8.9 | 270 | | 14 | 2351 | 8.9 | 270 | 30 | 1950 | 4.9 | 150 | |
| | 15 | 0639 | 4.6 | | 140 | 30 | 0122 | | 9.5 | 290 | 15 | | 0153 | 9.8 | 300 | | 30 | 0700 | 4.9 | | 150 | 15 | 0700 | 4.9 | 150 | 30 | 0205 | 9.5 | 290 |
| | 15 | 1234 | 7.2 | | 220 | 30 | 0821 | | 3.9 | 120 | 15 | | 0835 | 3.3 | 100 | | 30 | 1312 | 7.9 | | 240 | 15 | 1312 | 7.9 | 240 | 30 | 0829 | 3.9 | 120 |
| 15 Sa | 1816 | 4.6 | 140 | 31 M | 1428 | 7.9 | 240 | 15 Tu | 2030 | 3.6 | 110 | 31 Th | 1442 | 8.9 | 270 | 15 Tu | 1908 | 4.9 | 150 | 31 Th | 1445 | 9.5 | 290 | | | | | | |
| | 2007 | 4.3 | 130 | | 2030 | 3.6 | 110 | | 2030 | 3.6 | 110 | | 2030 | 3.6 | 110 | | 1908 | 4.9 | 150 | | 30 | 2044 | 3.9 | 120 | | | | | |
| | 2107</ | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Dar Es Salaam, Tanzania, 2011

Times and Heights of High and Low Waters

| July | | | | August | | | | September | | | | | | | | | | | |
|-----------------|--------|------|-----|--------|-----------------|------|------|-----------|--------|-----------------|------|------|--------|----|-----------------|------|------|-----|--|
| Time | Height | | | Time | Height | | | Time | Height | | | Time | Height | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | |
| 1 F | 0416 | 10.2 | 310 | | 16 Sa | 0459 | 10.8 | 330 | | 1 M | 0504 | 11.8 | 360 | | 16 F | 0554 | 11.8 | 360 | |
| | 1002 | 2.6 | 80 | | | 1050 | 2.0 | 60 | | | 1059 | 1.3 | 40 | | | 1159 | 2.0 | 60 | |
| | 1622 | 12.1 | 370 | | | 1708 | 12.1 | 370 | | | 1715 | 12.8 | 390 | | | 1802 | 10.5 | 320 | |
| | 2243 | 1.6 | 50 | | | 2325 | 1.3 | 40 | | | 2325 | 0.7 | 20 | | | | | | |
| 2 Sa | 0451 | 10.5 | 320 | | 17 Su | 0533 | 11.2 | 340 | | 2 Tu | 0540 | 12.1 | 370 | | 17 F | 0604 | 11.5 | 350 | |
| | 1038 | 2.3 | 70 | | | 1126 | 2.0 | 60 | | | 1137 | 1.0 | 30 | | | 1203 | 2.0 | 60 | |
| | 1658 | 12.5 | 380 | | | 1742 | 12.1 | 370 | | | 1751 | 12.5 | 380 | | | 1811 | 11.2 | 340 | |
| | 2317 | 1.6 | 50 | | | 2355 | 1.6 | 50 | | | | | | | | 2350 | 1.6 | 50 | |
| 3 Su | 0526 | 10.8 | 330 | | 18 M | 0606 | 11.2 | 340 | | 3 W | 0000 | 0.7 | 20 | | 18 Th | 0015 | 2.0 | 60 | |
| | 1116 | 2.0 | 60 | | | 1200 | 2.0 | 60 | | | 0616 | 12.1 | 370 | | | 0630 | 11.2 | 340 | |
| | 1735 | 12.5 | 380 | | | 1814 | 11.5 | 350 | | | 1218 | 1.3 | 40 | | | 1232 | 2.3 | 70 | |
| | 2352 | 1.3 | 40 | | | | | | | | 1829 | 11.8 | 360 | | | 1835 | 10.5 | 320 | |
| 4 M | 0603 | 11.2 | 340 | | 19 Tu | 0025 | 1.6 | 50 | | 4 Th | 0037 | 1.0 | 30 | | 19 F | 0041 | 2.3 | 70 | |
| | 1155 | 2.0 | 60 | | | 0637 | 11.2 | 340 | | | 0656 | 12.1 | 370 | | | 0656 | 10.8 | 330 | |
| | 1813 | 12.1 | 370 | | | 1234 | 2.3 | 70 | | | 1302 | 1.6 | 50 | | | 1303 | 3.0 | 90 | |
| | | | | | | 1844 | 11.2 | 340 | | | 1910 | 11.2 | 340 | | | 1900 | 9.8 | 300 | |
| 5 Tu | 0028 | 1.3 | 40 | | 20 W | 0055 | 2.0 | 60 | | 5 F | 0117 | 1.6 | 50 | | 20 Sa | 0108 | 2.6 | 80 | |
| | 0642 | 11.2 | 340 | | | 0708 | 10.8 | 330 | | | 0740 | 11.5 | 350 | | | 0723 | 10.5 | 320 | |
| | 1238 | 2.3 | 70 | | | 1308 | 3.0 | 90 | | | 1349 | 2.3 | 70 | | | 1336 | 3.6 | 110 | |
| | 1853 | 11.8 | 360 | | | 1913 | 10.5 | 320 | | | 1954 | 10.2 | 310 | | | 1928 | 9.2 | 280 | |
| 6 W | 0107 | 1.6 | 50 | | 21 Th | 0126 | 2.6 | 80 | | 6 Sa | 0159 | 2.3 | 70 | | 21 Su | 0136 | 3.3 | 100 | |
| | 0724 | 11.2 | 340 | | | 0740 | 10.2 | 310 | | | 0828 | 10.8 | 330 | | | 0756 | 9.8 | 300 | |
| | 1324 | 2.6 | 80 | | | 1345 | 3.3 | 100 | | | 1444 | 3.3 | 100 | | | 1417 | 4.3 | 130 | |
| | 1936 | 11.2 | 340 | | | 1943 | 9.8 | 300 | | | 2045 | 9.2 | 280 | | | 2004 | 8.5 | 260 | |
| 7 Th | 0148 | 2.0 | 60 | | 22 F | 0157 | 3.0 | 90 | | 7 Su | 0248 | 3.0 | 90 | | 22 M | 0210 | 3.9 | 120 | |
| | 0809 | 10.8 | 330 | | | 0815 | 9.8 | 300 | | | 0927 | 10.2 | 310 | | | 0843 | 9.2 | 280 | |
| | 1415 | 3.0 | 90 | | | 1425 | 3.9 | 120 | | | 1555 | 3.9 | 120 | | | 1516 | 4.9 | 150 | |
| | 2023 | 10.2 | 310 | | | 2017 | 8.9 | 270 | | | 2155 | 8.2 | 250 | | | 2058 | 7.5 | 230 | |
| 8 F | 0233 | 2.6 | 80 | | 23 Sa | 0232 | 3.6 | 110 | | 8 M | 0351 | 3.9 | 120 | | 23 Tu | 0302 | 4.6 | 140 | |
| | 0902 | 10.5 | 320 | | | 0856 | 9.2 | 280 | | | 1048 | 9.5 | 290 | | | 1002 | 8.5 | 260 | |
| | 1514 | 3.6 | 110 | | | 1515 | 4.6 | 140 | | | 1735 | 4.6 | 140 | | | 1703 | 5.2 | 160 | |
| | 2117 | 9.5 | 290 | | | 2059 | 8.2 | 250 | | | 2339 | 7.5 | 230 | | | 2253 | 7.2 | 220 | |
| 9 Sa | 0324 | 3.3 | 100 | | 24 Su | 0315 | 4.3 | 130 | | 9 Tu | 0528 | 4.6 | 140 | | 24 W | 0451 | 5.2 | 160 | |
| | 1004 | 10.2 | 310 | | | 0952 | 8.9 | 270 | | | 1233 | 9.5 | 290 | | | 1158 | 8.9 | 270 | |
| | 1628 | 3.9 | 120 | | | 1626 | 4.9 | 150 | | | 1927 | 4.3 | 130 | | | 1856 | 4.6 | 140 | |
| | 2229 | 8.5 | 260 | | | 2205 | 7.5 | 230 | | | | | | | | | | | |
| 10 Su | 0429 | 3.6 | 110 | | 25 M | 0418 | 4.6 | 140 | | 10 W | 0132 | 7.9 | 240 | | 25 Th | 0059 | 7.5 | 230 | |
| | 1121 | 10.2 | 310 | | | 1114 | 8.9 | 270 | | | 0722 | 4.3 | 130 | | | 0650 | 4.9 | 150 | |
| | 1800 | 4.3 | 130 | | | 1804 | 4.9 | 150 | | | 1358 | 9.8 | 300 | | | 1325 | 9.5 | 290 | |
| | | | | | | 2357 | 7.2 | 220 | | | 2040 | 3.3 | 100 | | | 2001 | 3.6 | 110 | |
| 11 M | 0000 | 8.2 | 250 | | 26 Tu | 0549 | 4.9 | 150 | | 11 Th | 0246 | 8.9 | 270 | | 26 F | 0207 | 8.5 | 260 | |
| | 0552 | 3.9 | 120 | | | 1247 | 9.2 | 280 | | | 0835 | 3.6 | 110 | | | 0800 | 3.9 | 120 | |
| | 1249 | 10.2 | 310 | | | 1930 | 4.6 | 140 | | | 1458 | 10.8 | 330 | | | 1420 | 10.5 | 320 | |
| | 1930 | 3.9 | 120 | | | | | | | | 2126 | 2.6 | 80 | | | 2042 | 2.6 | 80 | |
| 12 Tu | 0133 | 8.2 | 250 | | 27 W | 0131 | 7.5 | 230 | | 12 F | 0333 | 9.8 | 300 | | 27 Sa | 0251 | 9.8 | 300 | |
| | 0724 | 3.9 | 120 | | | 0717 | 4.6 | 140 | | | 0924 | 3.0 | 90 | | | 0846 | 2.6 | 80 | |
| | 1404 | 10.5 | 320 | | | 1354 | 9.8 | 300 | | | 1543 | 11.2 | 340 | | | 1502 | 11.5 | 350 | |
| | 2043 | 3.3 | 100 | | | 2029 | 3.6 | 110 | | | 2203 | 2.0 | 60 | | | 2116 | 2.0 | 60 | |
| 13 W | 0247 | 8.9 | 270 | | 28 Th | 0233 | 8.5 | 260 | | 13 Sa | 0409 | 10.5 | 320 | | 28 Su | 0328 | 11.2 | 340 | |
| | 0835 | 3.3 | 100 | | | 0819 | 3.9 | 120 | | | 1003 | 2.3 | 70 | | | 0924 | 1.6 | 50 | |
| | 1503 | 11.2 | 340 | | | 1444 | 10.8 | 330 | | | 1619 | 11.8 | 360 | | | 1540 | 12.1 | 370 | |
| | 2135 | 2.3 | 70 | | | 2110 | 2.6 | 80 | | | 2233 | 1.6 | 50 | | | 2148 | 1.0 | 30 | |
| 14 Th | 0340 | 9.5 | 290 | | 29 F | 0317 | 9.5 | 290 | | 14 Su | 0441 | 11.2 | 340 | | 29 M | 0403 | 12.1 | 370 | |
| | 0928 | 2.6 | 80 | | | 0905 | 3.0 | 90 | | | 1036 | 1.6 | 50 | | | 1001 | 1.0 | 30 | |
| | 1551 | 11.8 | 360 | | | 1525 | 11.5 | 350 | | | 1650 | 11.8 | 360 | | | 1616 | 12.8 | 390 | |
| | 2217 | 2.0 | 60 | | | 2145 | 2.0 | 60 | | | 2300 | 1.3 | 40 | | | 2221 | 0.7 | 20 | |
| 15 F | 0422 | 10.5 | 320 | | 30 Sa | 0354 | 10.2 | 310 | | 15 M | 0509 | 11.5 | 350 | | 30 Tu | 0437 | 12.8 | 390 | |
| | 1012 | 2.3 | 70 | | | 0944 | 2.3 | 70 | | | 1106 | 1.6 | 50 | | | 1038 | 0.3 | 10 | |
| | 1632 | 12.1 | 370 | | | 1602 | 12.1 | 370 | | | 1719 | 11.8 | 360 | | | 1651 | 12.8 | 390 | |
| | 2252 | 1.6 | 50 | | | 2218 | 1.3 | 40 | | | 2326 | 1.3 | 40 | | | 2254 | 0.3 | 10 | |
| | | | | | 31 Su | 0429 | 11.2 | 340 | | 31 W | 0513 | 13.1 | 400 | | 31 Th | 0530 | 11.8 | 360 | |
| | | | | | | 1021 | 1.6 | 50 | | | 1115 | 0.3 | 10 | | | 1133 | 1.6 | 50 | |
| | | | | | | 1638 | 12.5 | 380 | | | 1727 | 12.5 | 380 | | | 1739 | 11.2 | 340 | |
| | | | | | | 2251 | 1.0 | 30 | | | 2329 | 0.3 | 10 | | | 2337 | 2.0 | 60 | |

Time meridian 45° E. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
 Heights are referred to the chart datum of soundings.

Dar Es Salaam, Tanzania, 2011

Times and Heights of High and Low Waters

| October | | | | November | | | | December | | | | | | | | | | | | | | | |
|---------|------|--------|-----|----------|------|--------|-------|----------|------|--------|-------|-------|------|--------|-------|------|------|------|-------|-------|------|------|-----|
| Time | | Height | | Time | | Height | | Time | | Height | | Time | | Height | | | | | | | | | |
| | h m | ft | cm | | h m | ft | cm | | h m | ft | cm | | h m | ft | cm | | | | | | | | |
| 1 Sa | 0603 | 13.1 | 400 | 16 Su | 0549 | 11.8 | 360 | 1 Tu | 0049 | 3.0 | 90 | 16 W | 0018 | 3.3 | 100 | 1 Th | 0134 | 3.9 | 120 | 16 F | 0101 | 3.0 | 90 |
| | 1215 | 1.3 | 40 | | 1203 | 2.3 | 70 | | 0715 | 10.8 | 330 | | 0642 | 11.2 | 340 | | 0751 | 10.2 | 310 | | 0718 | 10.8 | 330 |
| | 1822 | 10.8 | 330 | | 1804 | 10.2 | 310 | | 1337 | 3.3 | 100 | | 1303 | 3.0 | 90 | | 1410 | 3.3 | 100 | | 1333 | 2.3 | 70 | 1955 | 10.2 | 310 |
| 2 Su | 0018 | 1.6 | 50 | 17 M | 0617 | 11.2 | 340 | 2 W | 0145 | 4.3 | 130 | 17 Th | 0103 | 3.9 | 120 | 2 F | 0234 | 4.6 | 140 | 17 Sa | 0152 | 3.6 | 110 |
| | 0644 | 12.1 | 370 | | 1235 | 3.0 | 90 | | 0813 | 9.8 | 300 | | 0728 | 10.5 | 320 | | 0848 | 9.2 | 280 | | 0807 | 10.2 | 310 |
| | 1301 | 2.3 | 70 | | 1835 | 9.5 | 290 | | 1439 | 3.9 | 120 | | 1350 | 3.3 | 100 | | 1506 | 3.9 | 120 | | 1419 | 3.0 | 90 |
| 3 M | 0103 | 2.6 | 80 | 18 Tu | 0028 | 3.3 | 100 | 3 Th | 2105 | 8.5 | 260 | 18 F | 0201 | 4.3 | 130 | 3 Sa | 0348 | 4.9 | 150 | 18 Su | 0254 | 3.9 | 120 |
| | 0732 | 10.8 | 330 | | 0650 | 10.8 | 330 | | 0931 | 8.9 | 270 | | 0826 | 9.5 | 290 | | 1002 | 8.5 | 260 | | 0904 | 9.2 | 280 |
| | 1354 | 3.3 | 100 | | 1314 | 3.6 | 110 | | 1601 | 4.6 | 140 | | 1447 | 3.9 | 120 | | 1613 | 4.6 | 140 | | 1514 | 3.3 | 100 |
| 4 Tu | 2001 | 8.9 | 270 | 1914 | 8.9 | 270 | 2241 | 8.5 | 260 | 19 Sa | 2118 | 9.2 | 280 | 4 Su | 2301 | 8.9 | 270 | 19 M | 2155 | 9.8 | 300 | | |
| | 0156 | 3.9 | 120 | 0108 | 3.9 | 120 | 0447 | 5.2 | 160 | | 0319 | 4.6 | 140 | | 0520 | 4.9 | 150 | | 0412 | 4.3 | 130 | | |
| | 0833 | 9.8 | 300 | 0736 | 9.8 | 300 | 1116 | 8.5 | 260 | | 0940 | 9.2 | 280 | | 1128 | 8.2 | 250 | | 1018 | 8.5 | 260 | | |
| 5 W | 1504 | 4.3 | 130 | 2011 | 8.5 | 260 | 5 Sa | 1738 | 4.9 | 150 | 20 Su | 2240 | 9.2 | 280 | 5 M | 1729 | 4.6 | 140 | 20 Tu | 1623 | 3.6 | 110 | |
| | 2122 | 8.2 | 250 | 0205 | 4.9 | 150 | | 0018 | 8.9 | 270 | | 0459 | 4.6 | 140 | | 0018 | 9.2 | 280 | | 2312 | 10.2 | 310 | |
| | 0313 | 4.9 | 150 | 0845 | 9.2 | 280 | | 0629 | 4.9 | 150 | | 1112 | 8.9 | 270 | | 0639 | 4.6 | 140 | | 0548 | 4.3 | 130 | |
| 6 Th | 1004 | 8.9 | 270 | 1518 | 4.6 | 140 | 6 Su | 1854 | 4.3 | 130 | 21 M | 1725 | 3.9 | 120 | 6 Tu | 1840 | 4.6 | 140 | 21 W | 1149 | 8.5 | 260 | |
| | 1649 | 4.9 | 150 | 2144 | 8.2 | 250 | | 0119 | 9.5 | 290 | | 0000 | 9.8 | 300 | | 0116 | 9.8 | 300 | | 0709 | 3.6 | 110 | |
| | 2323 | 7.9 | 240 | 0342 | 5.2 | 160 | | 0732 | 4.3 | 130 | | 0629 | 3.9 | 120 | | 0738 | 4.3 | 130 | | 1313 | 8.5 | 260 | |
| 7 F | 0521 | 5.2 | 160 | 1705 | 4.6 | 140 | 7 M | 1944 | 3.9 | 120 | 22 Tu | 1837 | 3.6 | 110 | 7 W | 1935 | 3.9 | 120 | 22 Th | 1903 | 3.6 | 110 | |
| | 1203 | 8.9 | 270 | 2331 | 8.5 | 260 | | 0204 | 10.2 | 310 | | 0107 | 10.8 | 330 | | 0202 | 10.2 | 310 | | 0140 | 11.2 | 340 | |
| | 1846 | 4.6 | 140 | 0547 | 4.9 | 150 | | 0816 | 3.6 | 110 | | 0732 | 3.0 | 90 | | 0823 | 3.6 | 110 | | 0813 | 2.6 | 80 | |
| 8 Sa | 0709 | 4.6 | 140 | 1829 | 4.3 | 130 | 8 Tu | 2022 | 3.3 | 100 | 23 W | 1934 | 2.6 | 80 | 8 Th | 2019 | 3.6 | 110 | 23 F | 1421 | 9.2 | 280 | |
| | 1325 | 9.5 | 290 | 0049 | 9.8 | 300 | | 0240 | 10.8 | 330 | | 0201 | 11.8 | 360 | | 0240 | 10.8 | 330 | | 2009 | 3.0 | 90 | |
| | 1948 | 3.9 | 120 | 0706 | 3.9 | 120 | | 0851 | 3.0 | 90 | | 0823 | 2.0 | 60 | | 0901 | 3.0 | 90 | | 0237 | 11.8 | 360 | |
| 9 Su | 2030 | 3.3 | 100 | 1925 | 3.3 | 100 | 9 W | 2054 | 3.0 | 90 | 24 Th | 2023 | 2.0 | 60 | 9 F | 2056 | 3.3 | 100 | 24 Sa | 0906 | 2.0 | 60 | |
| | 0243 | 10.5 | 320 | 0144 | 10.8 | 330 | | 0311 | 11.5 | 350 | | 0248 | 12.8 | 390 | | 0314 | 11.2 | 340 | | 1516 | 9.8 | 300 | |
| | 0847 | 3.3 | 100 | 0758 | 2.6 | 80 | | 0922 | 2.3 | 70 | | 0908 | 1.3 | 40 | | 0935 | 2.3 | 70 | | 2102 | 2.3 | 70 | |
| 10 M | 1459 | 10.5 | 320 | 1408 | 10.8 | 330 | 10 Th | 2123 | 2.6 | 80 | 25 F | 2108 | 1.6 | 50 | 10 Sa | 2130 | 3.0 | 90 | 25 Su | 0326 | 12.5 | 380 | |
| | 2102 | 3.0 | 90 | 2009 | 2.3 | 70 | | 0339 | 11.8 | 360 | | 0332 | 13.5 | 410 | | 0346 | 11.8 | 360 | | 0950 | 1.3 | 40 | |
| | 0315 | 11.2 | 340 | 0229 | 12.1 | 370 | | 0952 | 2.0 | 60 | | 0950 | 0.7 | 20 | | 1008 | 2.0 | 60 | | 1602 | 10.5 | 320 | |
| 11 Tu | 0919 | 2.6 | 80 | 1452 | 11.5 | 350 | 11 W | 2150 | 2.3 | 70 | 26 Sa | 2149 | 1.3 | 40 | 11 M | 2201 | 2.6 | 80 | 26 M | 2231 | 1.6 | 50 | |
| | 1531 | 10.8 | 330 | 2048 | 1.3 | 40 | | 0407 | 12.1 | 370 | | 0413 | 13.5 | 410 | | 0418 | 12.1 | 370 | | 0451 | 12.8 | 390 | |
| | 2130 | 2.3 | 70 | 0309 | 13.1 | 400 | | 1021 | 1.6 | 50 | | 1030 | 0.7 | 20 | | 1039 | 1.6 | 50 | | 1109 | 1.0 | 30 | |
| 12 W | 0948 | 2.0 | 60 | 1532 | 12.1 | 370 | 12 Th | 2217 | 2.3 | 70 | 27 Su | 2231 | 1.3 | 40 | 12 Tu | 2232 | 2.3 | 70 | 27 W | 1723 | 11.2 | 340 | |
| | 1559 | 11.2 | 340 | 2126 | 1.0 | 30 | | 0434 | 12.1 | 370 | | 0454 | 13.5 | 410 | | 0450 | 12.1 | 370 | | 2312 | 1.6 | 50 | |
| | 2155 | 2.0 | 60 | 0921 | 0.7 | 20 | | 1050 | 1.6 | 50 | | 1111 | 0.7 | 20 | | 1110 | 1.6 | 50 | | 0531 | 12.5 | 380 | |
| 13 Th | 1624 | 11.2 | 340 | 1611 | 12.1 | 370 | 13 Su | 2243 | 2.3 | 70 | 28 M | 2312 | 1.6 | 50 | 13 W | 2304 | 2.3 | 70 | 28 Th | 1147 | 1.0 | 30 | |
| | 2219 | 2.0 | 60 | 2203 | 0.7 | 20 | | 0503 | 12.1 | 370 | | 0535 | 12.8 | 390 | | 0523 | 12.1 | 370 | | 1802 | 11.2 | 340 | |
| | 0434 | 12.1 | 370 | 0426 | 14.1 | 430 | | 1119 | 2.0 | 60 | | 1152 | 1.3 | 40 | | 1142 | 1.6 | 50 | | 2352 | 2.0 | 60 | |
| 14 F | 1041 | 1.6 | 50 | 1038 | 0.3 | 10 | 14 M | 2311 | 2.6 | 80 | 29 Tu | 2355 | 2.3 | 70 | 14 Th | 2338 | 2.6 | 80 | 29 W | 0609 | 11.8 | 360 | |
| | 1649 | 11.2 | 340 | 1650 | 11.8 | 360 | | 0532 | 11.8 | 360 | | 0617 | 11.8 | 360 | | 0558 | 11.8 | 360 | | 1223 | 1.3 | 40 | |
| | 2242 | 2.0 | 60 | 2241 | 0.7 | 20 | | 1150 | 2.0 | 60 | | 1235 | 2.0 | 60 | | 1216 | 1.6 | 50 | | 1841 | 10.8 | 330 | |
| 15 Sa | 0459 | 12.1 | 370 | 1729 | 11.5 | 350 | 15 Tu | 2342 | 3.0 | 90 | 30 W | 1851 | 10.2 | 310 | 15 Th | 1828 | 10.5 | 320 | 30 F | 0033 | 2.6 | 80 | |
| | 1108 | 1.6 | 50 | 2320 | 1.3 | 40 | | 0605 | 11.5 | 350 | | 0702 | 11.2 | 340 | | 0558 | 11.8 | 360 | | 0647 | 11.2 | 340 | |
| | 1713 | 10.8 | 330 | 0505 | 13.8 | 420 | | 1224 | 2.6 | 80 | | 1321 | 2.6 | 80 | | 1253 | 2.0 | 60 | | 1301 | 2.0 | 60 | |
| 16 Su | 2306 | 2.0 | 60 | 1810 | 10.8 | 330 | 16 M | 0605 | 11.5 | 350 | 31 W | 1940 | 9.8 | 300 | 16 Sa | 1919 | 10.5 | 320 | 31 Sa | 1919 | 10.5 | 320 | |
| | 0524 | 12.1 | 370 | 0545 | 13.1 | 400 | | 0627 | 12.1 | 370 | | 0042 | 3.0 | 90 | | 0016 | 2.6 | 80 | | 0115 | 3.0 | 90 | |
| | 1135 | 2.0 | 60 | 1200 | 1.3 | 40 | | 1246 | 2.3 | 70 | | 0702 | 11.2 | 340 | | 0636 | 11.5 | 350 | | 0725 | 10.5 | 320 | |
| 17 M | 1738 | 10.5 | 320 | 1856 | 9.8 | 300 | 17 Th | 1830 | 9.8 | 300 | 31 M | 0002 | 2.0 | 60 | 17 Sa | 2000 | 10.2 | 310 | 31 Su | 1338 | 2.6 | 80 | |
| | 2330 | 2.3 | 70 | 0002 | 2.0 | 60 | | 0627 | 12.1 | 370 | | 0016 | 2.6 | 80 | | 0016 | 2.6 | 80 | | 2000 | 10.2 | 310 | |
| | | | | 0627 | 12.1 | 370 | | 1246 | 2.3 | 70 | | 1253 | 2.0 | 60 | | 1253 | 2.0 | 60 | | 0200 | 3.6 | 110 | |

Time meridian 45° E. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
 Heights are referred to the chart datum of soundings.

Beira, Mozambique, 2011

Times and Heights of High and Low Waters

| January | | | | February | | | | March | | | | | | | | | | | | | | | |
|-----------------|--------|------|----------------|-----------------|--------|------|--------|-----------------|--------|--------|-----|-----------------|--------|------|-----|-----------------|--------|------|-----|-----------------|--------|------|-----|
| Time | Height | | Time | Height | | Time | Height | | Time | Height | | Time | Height | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | |
| 1 Sa | 0144 | 16.7 | 510 | 16 Su | 0149 | 15.1 | 460 | 1 Tu | 0327 | 18.4 | 560 | 16 W | 0322 | 19.0 | 580 | 1 Tu | 0230 | 16.4 | 500 | 16 W | 0207 | 16.7 | 510 |
| | 0843 | 6.9 | 210 | | 0821 | 7.9 | 240 | | 1020 | 5.2 | 160 | | 0952 | 4.9 | 150 | | 0927 | 6.9 | 210 | | 0838 | 7.2 | 220 |
| | 1436 | 17.1 | 520 | | 1410 | 15.7 | 480 | | 1559 | 19.4 | 590 | | 1536 | 19.7 | 600 | | 1509 | 17.4 | 530 | | 1426 | 17.4 | 530 |
| | 2100 | 6.6 | 200 | | 2100 | 8.2 | 250 | | 2230 | 4.6 | 140 | | 2219 | 4.9 | 150 | | 2130 | 6.2 | 190 | | 2109 | 6.9 | 210 |
| 2 Su | 0245 | 17.7 | 540 | 17 M | 0249 | 17.1 | 520 | 2 W | 0407 | 20.0 | 610 | 17 Th | 0404 | 21.0 | 640 | 2 W | 0315 | 18.4 | 560 | 17 Th | 0300 | 19.0 | 580 |
| | 0938 | 5.6 | 170 | | 0920 | 6.6 | 200 | | 1058 | 4.3 | 130 | | 1036 | 3.3 | 100 | | 1002 | 5.2 | 160 | | 0926 | 4.9 | 150 |
| | 1525 | 18.4 | 560 | | 1505 | 17.7 | 540 | | 1635 | 20.3 | 620 | | 1617 | 21.7 | 660 | | 1544 | 19.4 | 590 | | 1514 | 20.0 | 610 |
| | 2153 | 5.2 | 160 | | 2151 | 6.6 | 200 | | 2309 | 3.6 | 110 | | 2259 | 3.3 | 100 | | 2209 | 4.6 | 140 | | 2152 | 4.9 | 150 |
| 3 M | 0334 | 19.0 | 580 | 18 Tu | 0336 | 18.7 | 570 | 3 Th | 0443 | 21.0 | 640 | 18 F | 0443 | 22.6 | 690 | 3 Th | 0350 | 20.3 | 620 | 18 F | 0342 | 21.3 | 650 |
| | 1026 | 4.9 | 150 | | 1009 | 4.9 | 150 | | 1133 | 3.3 | 100 | | 1116 | 2.3 | 70 | | 1036 | 4.3 | 130 | | 1009 | 3.3 | 100 |
| | 1607 | 19.4 | 590 | | 1551 | 19.4 | 590 | | 1708 | 21.3 | 650 | | 1655 | 23.0 | 700 | | 1616 | 21.0 | 640 | | 1555 | 22.0 | 670 |
| | 2240 | 4.3 | 130 | | 2236 | 4.9 | 150 | | ● 2344 | 3.0 | 90 | | ○ 2336 | 2.3 | 70 | | 2246 | 3.3 | 100 | | 2233 | 3.3 | 100 |
| 4 Tu | 0416 | 20.0 | 610 | 19 W | 0418 | 20.3 | 620 | 4 F | 0516 | 21.7 | 660 | 19 Sa | 0520 | 23.6 | 720 | 4 F | 0423 | 21.3 | 650 | 19 Sa | 0421 | 23.0 | 700 |
| | 1110 | 4.3 | 130 | | 1054 | 3.6 | 110 | | 1203 | 3.3 | 100 | | 1153 | 1.6 | 50 | | 1109 | 3.3 | 100 | | 1051 | 2.3 | 70 |
| | 1645 | 20.0 | 610 | | 1632 | 20.7 | 630 | | 1740 | 21.7 | 660 | | 1731 | 24.0 | 730 | | 1647 | 22.0 | 670 | | 1633 | 23.3 | 710 |
| | ● 2323 | 3.6 | 110 | | ○ 2316 | 3.6 | 110 | | | | | | | | | | ● 2320 | 3.0 | 90 | | ○ 2312 | 2.3 | 70 |
| 5 W | 0454 | 20.3 | 620 | 20 Th | 0458 | 21.7 | 660 | 5 Sa | 0015 | 2.6 | 80 | 20 Su | 0010 | 1.6 | 50 | 5 Sa | 0454 | 22.3 | 680 | 20 Su | 0458 | 23.6 | 720 |
| | 1147 | 3.6 | 110 | | 1135 | 2.6 | 80 | | 0547 | 22.0 | 670 | | 0556 | 23.6 | 720 | | 1139 | 3.0 | 90 | | 1129 | 1.6 | 50 |
| | 1722 | 20.3 | 620 | | 1711 | 22.0 | 670 | | 1229 | 3.3 | 100 | | 1226 | 1.3 | 40 | | 1717 | 22.3 | 680 | | 1709 | 24.0 | 730 |
| | | | | | 2353 | 3.0 | 90 | | 1808 | 21.7 | 660 | | 1805 | 24.0 | 730 | | 2350 | 2.6 | 80 | | 2349 | 2.0 | 60 |
| 6 Th | 0000 | 3.3 | 100 | 21 F | 0536 | 22.3 | 680 | 6 Su | 0041 | 3.0 | 90 | 21 M | 0040 | 1.6 | 50 | 6 Su | 0523 | 22.3 | 680 | 21 M | 0534 | 23.6 | 720 |
| | 0530 | 20.7 | 630 | | 1211 | 2.0 | 60 | | 0615 | 21.7 | 660 | | 0630 | 23.3 | 710 | | 1204 | 3.3 | 100 | | 1204 | 2.0 | 60 |
| | 1220 | 3.6 | 110 | | 1748 | 22.6 | 690 | | 1249 | 3.6 | 110 | | 1256 | 2.0 | 60 | | 1744 | 22.3 | 680 | | 1743 | 24.0 | 730 |
| | 1756 | 20.7 | 630 | | | | | | 1833 | 21.3 | 650 | | 1838 | 23.3 | 710 | | | | | | | | |
| 7 F | 0033 | 3.3 | 100 | 22 Sa | 0026 | 2.3 | 70 | 7 M | 0101 | 3.3 | 100 | 22 Tu | 0107 | 2.6 | 80 | 7 M | 0016 | 2.6 | 80 | 22 Tu | 0021 | 2.0 | 60 |
| | 0604 | 20.7 | 630 | | 0613 | 22.6 | 690 | | 0640 | 21.3 | 650 | | 0702 | 22.0 | 670 | | 0550 | 22.3 | 680 | | 0608 | 23.0 | 700 |
| | 1247 | 3.9 | 120 | | 1244 | 2.0 | 60 | | 1302 | 4.3 | 130 | | 1322 | 3.3 | 100 | | 1224 | 3.6 | 110 | | 1236 | 2.3 | 70 |
| | 1827 | 20.3 | 620 | | 1824 | 22.6 | 690 | | 1855 | 20.7 | 630 | | 1909 | 22.3 | 680 | | 1807 | 22.0 | 670 | | 1815 | 23.3 | 710 |
| 8 Sa | 0100 | 3.6 | 110 | 23 Su | 0056 | 2.3 | 70 | 8 Tu | 0117 | 3.9 | 120 | 23 W | 0130 | 3.6 | 110 | 8 Tu | 0037 | 3.3 | 100 | 23 W | 0049 | 3.0 | 90 |
| | 0635 | 20.3 | 620 | | 0649 | 22.3 | 680 | | 0703 | 20.3 | 620 | | 0733 | 20.3 | 620 | | 0614 | 22.0 | 670 | | 0639 | 21.7 | 660 |
| | 1309 | 4.3 | 130 | | 1314 | 2.3 | 70 | | 1310 | 4.9 | 150 | | 1345 | 4.6 | 140 | | 1237 | 4.3 | 130 | | 1303 | 3.6 | 110 |
| | 1856 | 19.7 | 600 | | 1859 | 22.3 | 680 | | 1914 | 19.7 | 600 | | 1941 | 20.3 | 620 | | 1828 | 21.3 | 650 | | 1846 | 22.0 | 670 |
| 9 Su | 0123 | 4.3 | 130 | 24 M | 0124 | 3.0 | 90 | 9 W | 0128 | 4.9 | 150 | 24 Th | 0149 | 5.2 | 160 | 9 W | 0052 | 3.9 | 120 | 24 Th | 0112 | 3.9 | 120 |
| | 0704 | 20.0 | 610 | | 0724 | 21.3 | 650 | | 0725 | 19.4 | 590 | | 0804 | 18.4 | 560 | | 0635 | 21.0 | 640 | | 0708 | 20.0 | 610 |
| | 1325 | 4.9 | 150 | | 1342 | 3.3 | 100 | | 1319 | 5.2 | 160 | | 1406 | 6.6 | 200 | | 1244 | 4.6 | 140 | | 1326 | 4.9 | 150 |
| | 1923 | 19.0 | 580 | | 1934 | 21.3 | 650 | | 1932 | 18.7 | 570 | | 2015 | 18.4 | 560 | | 1845 | 20.7 | 630 | | 1916 | 20.3 | 620 |
| 10 M | 0142 | 4.9 | 150 | 25 Tu | 0149 | 3.9 | 120 | 10 Th | 0141 | 5.6 | 170 | 25 F | 0208 | 7.2 | 220 | 10 Th | 0102 | 4.6 | 140 | 25 F | 0131 | 5.6 | 170 |
| | 0732 | 19.0 | 580 | | 0800 | 19.7 | 600 | | 0751 | 18.0 | 550 | | 0843 | 16.1 | 490 | | 0656 | 20.3 | 620 | | 0737 | 18.4 | 560 |
| | 1336 | 5.6 | 170 | | 1409 | 4.9 | 150 | | 1337 | 6.2 | 190 | | 1429 | 8.5 | 260 | | 1253 | 4.9 | 150 | | 1347 | 6.6 | 200 |
| | 1948 | 18.0 | 550 | | 2010 | 19.7 | 600 | | 1954 | 17.4 | 530 | | ● 2103 | 16.1 | 490 | | 1903 | 19.7 | 600 | | 1948 | 18.4 | 560 |
| 11 Tu | 0159 | 5.9 | 180 | 26 W | 0214 | 5.2 | 160 | 11 F | 0203 | 6.9 | 210 | 26 Sa | 0233 | 9.2 | 280 | 11 F | 0115 | 5.2 | 160 | 26 Sa | 0147 | 7.2 | 220 |
| | 0803 | 17.7 | 540 | | 0841 | 17.7 | 540 | | 0825 | 16.4 | 500 | | 1005 | 14.1 | 430 | | 0719 | 19.0 | 580 | | 0811 | 16.1 | 490 |
| | 1350 | 6.6 | 200 | | 1438 | 6.6 | 200 | | 1405 | 7.2 | 220 | | 1513 | 10.5 | 320 | | 1311 | 5.6 | 170 | | 1407 | 8.2 | 250 |
| | 2015 | 16.7 | 510 | | ● 2054 | 17.7 | 540 | | ● 2027 | 15.7 | 480 | | 2242 | 14.4 | 440 | | 1923 | 18.4 | 560 | | ● 2033 | 16.1 | 490 |
| 12 W | 0218 | 6.9 | 210 | 27 Th | 0244 | 7.2 | 220 | 12 Sa | 0239 | 8.2 | 250 | 27 Su | 0334 | 11.2 | 340 | 12 Sa | 0137 | 6.2 | 190 | 27 Su | 0207 | 9.2 | 280 |
| | 0840 | 16.4 | 500 | | 0937 | 15.7 | 480 | | 0925 | 14.8 | 450 | | 0425 | 11.2 | 340 | | 0750 | 17.4 | 530 | | 0923 | 14.1 | 430 |
| | 1413 | 7.5 | 230 | | 1518 | 8.5 | 260 | | 1448 | 8.9 | 270 | | 0719 | 10.8 | 330 | | 1339 | 6.6 | 200 | | 1444 | 10.2 | 310 |
| | ● 2054 | 15.4 | 470 | | 2156 | 16.1 | 490 | | 2206 | 14.1 | 430 | | 1237 | 13.8 | 420 | | 1953 | 16.7 | 510 | | 2208 | 14.4 | 440 |
| 13 Th | 0250 | 7.9 | 240 | 28 F | 0332 | 9.2 | 280 | 13 Su | 0401 | 10.2 | 310 | 28 M | 0103 | 14.4 | 440 | 13 Su | 0210 | 7.9 | 240 | 28 M | 0251 | 11.2 | 340 |
| | 0935 | 15.1 | 460 | | 1108 | 14.4 | 440 | | 1144 | 13.8 | 420 | | 0847 | 8.9 | 270 | | 0840 | 15.4 | 470 | | 0458 | 11.5 | 350 |
| | 1450 | 8.5 | 260 | | 1724 | 10.2 | 310 | | 1627 | 10.8 | 330 | | 1423 | 15.4 | 470 | | 1418 | 8.5 | 260 | | 0633 | 11.2 | 340 |
| | 2211 | 14.1 | 430 | | 2333 | 14.8 | 450 | | | | | | 2046 | 8.2 | 250 | | ● 2057 | 14.8 | 450 | | 1159 | 13.5 | 410 |
| 14 F | 0355 | 9.2 | 280 | 29 Sa | 0716 | 9.8 | 300 | 14 M | 0112 | 14.4 | 440 | 14 M | 0847 | 8.9 | 270 | 14 M | 0314 | 9.8 | 300 | 29 Tu | 0027 | 14.4 | 440 |
| | 1105 | 14.1 | 430 | | 1304 | 14.4 | 440 | | 0800 | 9.2 | 280 | | 1344 | 15.1 | 460 | | 1052 | 14.1 | 430 | | 0821 | 9.2 | 280 |
| | 1559 | 9.8 | 300 | | 1945 | 9.2 | 280 | | 2046 | 8.9 | 270 | | | | | | 1535 | 10.5 | 320 | | 1352 | 15.1 | 460 |
| | | | | | | | | | | | | | | | | | | | | | 2018 | 8.2 | 250 |
| 15 Sa | 0015 | 14.1 | 430 | 30 Su | 0122 | 15.4 | 470 | 15 Tu | 0232 | 16.4 | 500 | 15 Tu | 0034 | 14.4 | 440 | 15 Tu | 0200 | 16.1 | 490 | 30 W | 0200 | 16.1 | 490 |
| | 0656 | 9.2 | 280 | | 0847 | 8.2 | 250 | | 0904 | 6.9 | 210 | | 0730 | 9.5 | 290 | | 0858 | 7.2 | 220 | | 0858 | 7.2 | 220 |
| | 1251 | 14.4 | 440 | | 1429 | 15.7 | 480 | | 1449 | 17.4 | 530 | | 1313 | 15.1 | 460 | | 1441 | 17.4 | 530 | | 1441 | 17.4 | 530 |
| | 1950 | 9.5 | 290 | | 2055 | 7.5 | 230 | | 2136 | 6.9 | 210 | | 2018 | 9.2 | 280 | | 2018 | 9.2 | 280 | | 2101 | 6.6 | 200 |
| | | | 31 M | 0238 | 16.7 | 510 | | | | | | | | | | 31 Th | 0247 | 18.0 | 550 | | | | |
| | | | | 0938 | 6.6 | 200 | | | | | | | | | | | 0931 | 5.6 | 170 | | | | |
| | | | | 1520 | 17.7 | 540 | | | | | | | | | | | 1516 | 19.4 | 590 | | | | |
| | | | | 2146 | 5.9 | 180 | | | | | | | | | | | 2138 | 4.9 | 150 | | | | |

Beira, Mozambique, 2011

Times and Heights of High and Low Waters

| April | | | | May | | | | June | | | | | | | | | | | | | | | | | | | | |
|-----------------|--------|------|-----|------|-----------------|------|------|------|--------|-----------------|------|------|--------|----|-----------------|------|------|-----|----|-----------------|------|------|-----|--|-----------------|------|------|-----|
| Time | Height | | | Time | Height | | | Time | Height | | | Time | Height | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | |
| 1 F | 0323 | 20.0 | 610 | | 16 Sa | 0315 | 20.7 | 630 | | 1 Su | 0323 | 19.7 | 600 | | 16 W | 0404 | 19.0 | 580 | | 16 Th | 0437 | 19.0 | 580 | | | | | |
| | 1005 | 4.6 | 140 | | | 0938 | 3.6 | 110 | | | 1003 | 4.6 | 140 | | | 0954 | 3.6 | 110 | | | 1047 | 4.9 | 150 | | 1115 | 3.6 | 110 | |
| | 1549 | 20.7 | 630 | | | 1527 | 21.7 | 660 | | | 1549 | 20.3 | 620 | | | 1542 | 21.0 | 640 | | | 1630 | 19.4 | 590 | | 1648 | 19.7 | 600 | |
| | 2215 | 3.6 | 110 | | | 2204 | 3.3 | 100 | | | 2217 | 3.9 | 120 | | | 2223 | 3.3 | 100 | | | 2308 | 4.3 | 130 | | 2345 | 3.6 | 110 | |
| 2 Sa | 0356 | 21.0 | 640 | | 17 Su | 0356 | 22.0 | 670 | | 2 M | 0357 | 20.3 | 620 | | 17 Tu | 0412 | 20.7 | 630 | | 2 Th | 0440 | 19.4 | 590 | | 17 F | 0518 | 19.0 | 580 |
| | 1038 | 3.6 | 110 | | | 1022 | 3.0 | 90 | | | 1038 | 4.3 | 130 | | | 1041 | 3.3 | 100 | | | 1123 | 4.6 | 140 | | | 1158 | 3.3 | 100 |
| | 1620 | 21.7 | 660 | | | 1607 | 22.6 | 690 | | | 1621 | 20.7 | 630 | | | 1622 | 21.3 | 650 | | | 1705 | 19.7 | 600 | | | 1728 | 19.7 | 600 |
| | 2250 | 3.0 | 90 | | | 2247 | 2.6 | 80 | | | 2253 | 3.6 | 110 | | | 2310 | 3.3 | 100 | | | 2345 | 3.9 | 120 | | | | | |
| 3 Su | 0427 | 22.0 | 670 | | 18 M | 0435 | 22.6 | 690 | | 3 Tu | 0429 | 20.7 | 630 | | 18 W | 0452 | 20.7 | 630 | | 3 F | 0515 | 19.4 | 590 | | 18 Sa | 0024 | 3.6 | 110 |
| | 1109 | 3.6 | 110 | | | 1104 | 2.6 | 80 | | | 1110 | 4.3 | 130 | | | 1126 | 3.3 | 100 | | | 1155 | 4.3 | 130 | | | 0556 | 19.0 | 580 |
| | 1649 | 22.0 | 670 | | | 1644 | 23.0 | 700 | | | 1651 | 20.7 | 630 | | | 1701 | 21.3 | 650 | | | 1738 | 19.7 | 600 | | | 1308 | 3.6 | 110 |
| | 2322 | 3.0 | 90 | | | 2327 | 2.6 | 80 | | | 2327 | 3.6 | 110 | | | 2352 | 3.6 | 110 | | | | | | | | 1806 | 19.7 | 600 |
| 4 M | 0457 | 22.0 | 670 | | 19 Tu | 0511 | 22.6 | 690 | | 4 W | 0500 | 20.7 | 630 | | 19 Th | 0530 | 20.3 | 620 | | 4 Sa | 0018 | 3.6 | 110 | | 19 Su | 0056 | 3.9 | 120 |
| | 1137 | 3.6 | 110 | | | 1143 | 2.6 | 80 | | | 1138 | 4.6 | 140 | | | 1206 | 3.6 | 110 | | | 0549 | 19.4 | 590 | | | 0633 | 18.7 | 570 |
| | 1717 | 22.0 | 670 | | | 1720 | 23.0 | 700 | | | 1720 | 20.7 | 630 | | | 1739 | 20.7 | 630 | | | 1223 | 4.3 | 130 | | | 1308 | 3.6 | 110 |
| | 2350 | 3.3 | 100 | | | | | | | | 2356 | 3.9 | 120 | | | | | | | | 1812 | 19.7 | 600 | | | 1842 | 19.0 | 580 |
| 5 Tu | 0524 | 22.0 | 670 | | 20 W | 0004 | 2.6 | 80 | | 5 Th | 0529 | 20.3 | 620 | | 20 F | 0029 | 3.9 | 120 | | 5 Su | 0049 | 3.6 | 110 | | 20 M | 0124 | 4.3 | 130 |
| | 1159 | 3.9 | 120 | | | 0546 | 22.0 | 670 | | | 1200 | 4.6 | 140 | | | 0606 | 19.4 | 590 | | | 0625 | 19.4 | 590 | | | 0709 | 18.0 | 550 |
| | 1742 | 21.7 | 660 | | | 1218 | 3.0 | 90 | | | 1748 | 20.3 | 620 | | | 1242 | 3.9 | 120 | | | 1250 | 4.3 | 130 | | | 1337 | 4.3 | 130 |
| | | | | | | 1754 | 22.3 | 680 | | | | | | | | 1815 | 20.0 | 610 | | | 1848 | 19.4 | 590 | | | 1919 | 18.4 | 560 |
| 6 W | 0014 | 3.6 | 110 | | 21 Th | 0035 | 3.6 | 110 | | 6 F | 0021 | 4.3 | 130 | | 21 Sa | 0100 | 4.6 | 140 | | 6 M | 0118 | 3.9 | 120 | | 21 Tu | 0148 | 4.9 | 150 |
| | 0549 | 21.7 | 660 | | | 0619 | 20.7 | 630 | | | 0557 | 20.0 | 610 | | | 0642 | 18.7 | 570 | | | 0703 | 19.0 | 580 | | | 0746 | 17.4 | 530 |
| | 1214 | 4.3 | 130 | | | 1249 | 3.9 | 120 | | | 1218 | 4.6 | 140 | | | 1314 | 4.6 | 140 | | | 1318 | 4.3 | 130 | | | 1404 | 4.9 | 150 |
| | 1804 | 21.0 | 640 | | | 1827 | 21.0 | 640 | | | 1815 | 20.0 | 610 | | | 1851 | 19.0 | 580 | | | 1928 | 18.7 | 570 | | | 1956 | 17.7 | 540 |
| 7 Th | 0032 | 3.9 | 120 | | 22 F | 0103 | 4.6 | 140 | | 7 Sa | 0044 | 4.6 | 140 | | 22 Su | 0128 | 5.6 | 170 | | 7 Tu | 0150 | 4.3 | 130 | | 22 W | 0210 | 5.9 | 180 |
| | 0612 | 21.0 | 640 | | | 0651 | 19.4 | 590 | | | 0627 | 19.4 | 590 | | | 0719 | 17.4 | 530 | | | 0747 | 18.4 | 560 | | | 0826 | 16.4 | 500 |
| | 1224 | 4.6 | 140 | | | 1317 | 4.9 | 150 | | | 1237 | 4.9 | 150 | | | 1344 | 5.6 | 170 | | | 1350 | 4.9 | 150 | | | 1433 | 5.9 | 180 |
| | 1825 | 20.3 | 620 | | | 1900 | 19.7 | 600 | | | 1844 | 19.4 | 590 | | | 1930 | 18.0 | 550 | | | 2017 | 17.7 | 540 | | | 2040 | 16.4 | 500 |
| 8 F | 0046 | 4.6 | 140 | | 23 Sa | 0125 | 5.9 | 180 | | 8 Su | 0108 | 4.9 | 150 | | 23 M | 0153 | 6.6 | 200 | | 8 W | 0229 | 5.2 | 160 | | 23 Th | 0235 | 6.6 | 200 |
| | 0636 | 20.0 | 610 | | | 0724 | 17.7 | 540 | | | 0700 | 18.7 | 570 | | | 0801 | 16.4 | 500 | | | 0840 | 17.4 | 530 | | | 0915 | 15.4 | 470 |
| | 1237 | 4.9 | 150 | | | 1342 | 6.2 | 190 | | | 1302 | 5.2 | 160 | | | 1415 | 6.6 | 200 | | | 1432 | 5.9 | 180 | | | 1511 | 6.9 | 210 |
| | 1846 | 19.7 | 600 | | | 1936 | 18.0 | 550 | | | 1919 | 18.4 | 560 | | | 2016 | 16.7 | 510 | | | 2120 | 16.7 | 510 | | | 2133 | 15.4 | 470 |
| 9 Sa | 0103 | 4.9 | 150 | | 24 Su | 0145 | 7.2 | 220 | | 9 M | 0138 | 5.6 | 170 | | 24 Tu | 0222 | 7.5 | 230 | | 9 Th | 0323 | 6.2 | 190 | | 24 F | 0312 | 7.5 | 230 |
| | 0703 | 19.0 | 580 | | | 0803 | 16.1 | 490 | | | 0743 | 17.7 | 540 | | | 0857 | 15.1 | 460 | | | 0946 | 16.4 | 500 | | | 1019 | 14.4 | 440 |
| | 1257 | 5.2 | 160 | | | 1410 | 7.9 | 240 | | | 1335 | 5.9 | 180 | | | 1458 | 7.9 | 240 | | | 1535 | 6.9 | 210 | | | 1616 | 7.9 | 240 |
| | 1912 | 18.4 | 560 | | | 2023 | 16.4 | 500 | | | 2008 | 17.1 | 520 | | | 2117 | 15.4 | 470 | | | 2237 | 16.1 | 490 | | | 2240 | 14.8 | 450 |
| 10 Su | 0127 | 5.9 | 180 | | 25 M | 0211 | 8.9 | 270 | | 10 Tu | 0220 | 6.6 | 200 | | 25 W | 0307 | 8.5 | 260 | | 10 F | 0448 | 7.2 | 220 | | 25 Sa | 0432 | 8.5 | 260 |
| | 0738 | 17.7 | 540 | | | 0914 | 14.4 | 440 | | | 0844 | 16.4 | 500 | | | 1013 | 14.4 | 440 | | | 1103 | 16.1 | 490 | | | 1135 | 14.1 | 430 |
| | 1328 | 6.6 | 200 | | | 1500 | 9.5 | 290 | | | 1423 | 7.2 | 220 | | | 1618 | 8.5 | 260 | | | 1725 | 7.2 | 220 | | | 1801 | 8.2 | 250 |
| | 1950 | 16.7 | 510 | | | 2145 | 14.8 | 450 | | | 2131 | 15.7 | 480 | | | 2234 | 14.8 | 450 | | | 2358 | 16.1 | 490 | | | 2355 | 14.4 | 440 |
| 11 M | 0205 | 7.5 | 230 | | 26 Tu | 0314 | 10.2 | 310 | | 11 W | 0334 | 7.9 | 240 | | 26 Th | 0516 | 9.2 | 280 | | 11 Sa | 0624 | 6.9 | 210 | | 26 Su | 0644 | 8.2 | 250 |
| | 0835 | 15.7 | 480 | | | 1109 | 13.8 | 420 | | | 1013 | 15.4 | 470 | | | 1137 | 14.4 | 440 | | | 1221 | 16.4 | 500 | | | 1252 | 14.4 | 440 |
| | 1411 | 8.2 | 250 | | | 1751 | 9.8 | 300 | | | 1551 | 8.5 | 260 | | | 1810 | 8.5 | 260 | | | 1905 | 6.6 | 200 | | | 1922 | 7.5 | 230 |
| | 2116 | 15.1 | 460 | | | 2334 | 14.4 | 440 | | | 2316 | 15.4 | 470 | | | 2355 | 15.1 | 460 | | | | | | | | | | |
| 12 Tu | 0318 | 9.2 | 280 | | 27 W | 0719 | 9.5 | 290 | | 12 Th | 0547 | 8.2 | 250 | | 27 F | 0704 | 8.2 | 250 | | 12 Su | 0114 | 16.4 | 500 | | 27 M | 0109 | 14.8 | 450 |
| | 1032 | 14.4 | 440 | | | 1250 | 14.8 | 450 | | | 1148 | 15.7 | 480 | | | 1252 | 15.1 | 460 | | | 0737 | 6.2 | 190 | | | 0757 | 7.5 | 230 |
| | 1538 | 9.8 | 300 | | | 1927 | 8.5 | 260 | | | 1832 | 8.2 | 250 | | | 1923 | 7.2 | 220 | | | 1332 | 17.1 | 520 | | | 1357 | 15.4 | 470 |
| | 2355 | 14.8 | 450 | | | | | | | | | | | | | | | | | | 2014 | 5.6 | 170 | | | 2022 | 6.6 | 200 |
| 13 W | 0643 | 9.2 | 280 | | 28 Th | 0105 | 15.4 | 470 | | 13 F | 0045 | 16.4 | 500 | | 28 Sa | 0106 | 15.7 | 480 | | 13 M | 0217 | 17.4 | 530 | | 28 Tu | 0211 | 15.7 | 480 |
| | 1233 | 15.4 | 470 | | | 0812 | 7.5 | 230 | | | 0714 | 6.9 | 210 | | | 0800 | 7.2 | 220 | | | 0837 | 5.2 | 160 | | | 0852 | 6.6 | 200 |
| | 1931 | 8.9 | 270 | | | 1355 | 16.4 | 500 | | | 1307 | 17.1 | 520 | | | 1351 | 16.4 | 500 | | | 1431 | 18.4 | 560 | | | 1449 | 16.4 | 500 |
| | | | | | | 2018 | 6.9 | 210 | | | 1949 | 6.6 | 200 | | | 2014 | 6.2 | 190 | | | 2113 | 4.9 | 150 | | | 2116 | 5.9 | 180 |
| 14 Th | 0130 | 16.7 | 510 | | 29 F | 0204 | 17.1 | 520 | | 14 Sa | 0153 | 18.0 | 550 | | | | | | | | | | | | | | | |

Beira, Mozambique, 2011

Times and Heights of High and Low Waters

| July | | | | August | | | | September | | | | | | | | | | | | | | | | | | | | | |
|-----------------|--------|------|------|--------|-----------------|------|--------|-----------|------|-----------------|------|------|--------|----|-----------------|------|------|-----|--|-----------------|------|------|-----|--|-----------------|------|------|-----|--|
| Time | Height | | Time | Height | | Time | Height | | Time | Height | | Time | Height | | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | | | | | | |
| 1 F | 0425 | 18.4 | 560 | | 16 Sa | 0506 | 19.0 | 580 | | 1 M | 0529 | 21.0 | 640 | | 16 Tu | 0018 | 2.6 | 80 | | 1 Th | 0040 | 1.3 | 40 | | 16 F | 0032 | 3.6 | 110 | |
| | 1112 | 4.3 | 130 | | | 1146 | 3.0 | 90 | | | 1209 | 2.0 | 60 | | | 0554 | 20.3 | 620 | | | 0619 | 22.3 | 680 | | | 0617 | 20.0 | 610 | |
| | 1653 | 19.4 | 590 | | | 1716 | 19.7 | 600 | | | 1754 | 21.3 | 650 | | | 1228 | 2.3 | 70 | | | 1250 | 1.6 | 50 | | | 1245 | 3.3 | 100 | |
| | 2335 | 3.3 | 100 | | | | | | | | | | | | | 1802 | 20.7 | 630 | | | 1844 | 21.7 | 660 | | | 1824 | 20.0 | 610 | |
| 2 Sa | 0504 | 19.4 | 590 | | 17 Su | 0011 | 3.3 | 100 | | 2 Tu | 0029 | 1.3 | 40 | | 17 W | 0042 | 3.0 | 90 | | 2 F | 0109 | 2.0 | 60 | | 17 Sa | 0042 | 4.3 | 130 | |
| | 1150 | 3.6 | 110 | | | 0543 | 19.4 | 590 | | | 0605 | 21.3 | 650 | | | 0622 | 20.0 | 610 | | | 0652 | 21.3 | 650 | | | 0637 | 19.0 | 580 | |
| | 1731 | 20.0 | 610 | | | 1221 | 2.6 | 80 | | | 1241 | 1.6 | 50 | | | 1253 | 2.6 | 80 | | | 1316 | 2.6 | 80 | | | 1257 | 4.3 | 130 | |
| | | | | | | 1752 | 20.0 | 610 | | | 1831 | 21.7 | 660 | | | 1830 | 20.3 | 620 | | | 1917 | 20.0 | 610 | | | 1846 | 19.0 | 580 | |
| 3 Su | 0012 | 3.0 | 90 | | 18 M | 0042 | 3.0 | 90 | | 3 W | 0101 | 1.6 | 50 | | 18 Th | 0101 | 3.3 | 100 | | 3 Sa | 0136 | 3.3 | 100 | | 18 Su | 0049 | 4.6 | 140 | |
| | 0542 | 19.7 | 600 | | | 0618 | 19.4 | 590 | | | 0641 | 21.3 | 650 | | | 0648 | 19.4 | 590 | | | 0726 | 20.0 | 610 | | | 0655 | 18.0 | 550 | |
| | 1223 | 3.3 | 100 | | | 1252 | 2.6 | 80 | | | 1309 | 2.0 | 60 | | | 1313 | 3.3 | 100 | | | 1340 | 3.9 | 120 | | | 1308 | 4.9 | 150 | |
| | 1808 | 20.3 | 620 | | | 1826 | 20.0 | 610 | | | 1907 | 21.0 | 640 | | | 1855 | 19.7 | 600 | | | 1951 | 18.4 | 560 | | | 1908 | 18.0 | 550 | |
| 4 M | 0045 | 2.6 | 80 | | 19 Tu | 0107 | 3.3 | 100 | | 4 Th | 0130 | 2.0 | 60 | | 19 F | 0112 | 4.3 | 130 | | 4 Su | 0202 | 4.9 | 150 | | 19 M | 0102 | 4.9 | 150 | |
| | 0620 | 20.0 | 610 | | | 0650 | 19.0 | 580 | | | 0717 | 20.7 | 630 | | | 0710 | 18.4 | 560 | | | 0803 | 18.0 | 550 | | | 0714 | 17.1 | 520 | |
| | 1253 | 3.0 | 90 | | | 1319 | 3.0 | 90 | | | 1336 | 2.6 | 80 | | | 1327 | 4.3 | 130 | | | 1403 | 5.9 | 180 | | | 1325 | 5.9 | 180 | |
| | 1845 | 20.3 | 620 | | | 1857 | 19.4 | 590 | | | 1943 | 19.7 | 600 | | | 1919 | 18.7 | 570 | | | 2032 | 16.1 | 490 | | | 1935 | 16.7 | 510 | |
| 5 Tu | 0116 | 2.6 | 80 | | 20 W | 0128 | 3.9 | 120 | | 5 F | 0159 | 3.3 | 100 | | 20 Sa | 0121 | 4.6 | 140 | | 5 M | 0230 | 6.9 | 210 | | 20 Tu | 0126 | 5.9 | 180 | |
| | 0658 | 20.0 | 610 | | | 0719 | 18.4 | 560 | | | 0754 | 19.4 | 590 | | | 0730 | 17.4 | 530 | | | 0852 | 15.7 | 480 | | | 0741 | 15.4 | 470 | |
| | 1321 | 3.0 | 90 | | | 1341 | 3.9 | 120 | | | 1403 | 3.6 | 110 | | | 1339 | 4.9 | 150 | | | 1430 | 7.9 | 240 | | | 1353 | 7.2 | 220 | |
| | 1924 | 19.7 | 600 | | | 1928 | 18.7 | 570 | | | 2023 | 18.0 | 550 | | | 1944 | 17.4 | 530 | | | 2140 | 14.1 | 430 | | | 2018 | 15.1 | 460 | |
| 6 W | 0146 | 3.0 | 90 | | 21 Th | 0144 | 4.6 | 140 | | 6 Sa | 0229 | 4.9 | 150 | | 21 Su | 0134 | 5.2 | 160 | | 6 Tu | 0321 | 8.9 | 270 | | 21 W | 0202 | 7.5 | 230 | |
| | 0737 | 19.4 | 590 | | | 0748 | 17.4 | 530 | | | 0837 | 17.7 | 540 | | | 0752 | 16.1 | 490 | | | 1016 | 14.1 | 430 | | | 0836 | 13.8 | 420 | |
| | 1350 | 3.3 | 100 | | | 1401 | 4.6 | 140 | | | 1432 | 5.2 | 160 | | | 1357 | 6.2 | 190 | | | 1532 | 9.8 | 300 | | | 1445 | 8.9 | 270 | |
| | 2006 | 19.0 | 580 | | | 1959 | 17.7 | 540 | | | 2112 | 16.1 | 490 | | | 2016 | 15.7 | 480 | | | 2342 | 13.1 | 400 | | | 2204 | 13.5 | 410 | |
| 7 Th | 0219 | 3.9 | 120 | | 22 F | 0158 | 5.2 | 160 | | 7 Su | 0307 | 6.6 | 200 | | 22 M | 0157 | 6.2 | 190 | | 7 W | 0639 | 9.2 | 280 | | 22 Th | 0306 | 9.2 | 280 | |
| | 0821 | 18.4 | 560 | | | 0819 | 16.4 | 500 | | | 0932 | 16.1 | 490 | | | 0824 | 14.8 | 450 | | | 1217 | 13.8 | 420 | | | 1153 | 13.5 | 410 | |
| | 1423 | 4.3 | 130 | | | 1421 | 5.6 | 170 | | | 1514 | 7.2 | 220 | | | 1427 | 7.5 | 230 | | | 2007 | 8.5 | 260 | | | 1848 | 9.2 | 280 | |
| | 2054 | 17.7 | 540 | | | 2034 | 16.4 | 500 | | | 2225 | 14.4 | 440 | | | 2106 | 14.1 | 430 | | | | | | | | | | | |
| 8 F | 0258 | 5.2 | 160 | | 23 Sa | 0216 | 6.2 | 190 | | 8 M | 0421 | 8.2 | 250 | | 23 Tu | 0235 | 7.9 | 240 | | 8 Th | 0136 | 14.1 | 430 | | 23 F | 0027 | 13.8 | 420 | |
| | 0913 | 17.4 | 530 | | | 0857 | 15.1 | 460 | | | 1052 | 14.8 | 450 | | | 0948 | 13.1 | 400 | | | 0809 | 7.5 | 230 | | | 0738 | 8.9 | 270 | |
| | 1505 | 5.6 | 170 | | | 1448 | 6.9 | 210 | | | 1728 | 8.9 | 270 | | | 1528 | 9.2 | 280 | | | 1355 | 15.4 | 470 | | | 1335 | 15.1 | 460 | |
| | 2155 | 16.1 | 490 | | | 2121 | 15.1 | 460 | | | | | | | 2257 | 13.1 | 400 | | | 2058 | 6.9 | 210 | | | 2007 | 7.2 | 220 | | |
| 9 Sa | 0354 | 6.6 | 200 | | 24 Su | 0246 | 7.2 | 220 | | 9 Tu | 0006 | 13.8 | 420 | | 24 W | 0347 | 9.2 | 280 | | 9 F | 0237 | 16.1 | 490 | | 24 Sa | 0151 | 15.7 | 480 | |
| | 1017 | 16.1 | 490 | | | 0958 | 13.8 | 420 | | | 0647 | 8.2 | 250 | | | 1235 | 13.1 | 400 | | | 0859 | 5.6 | 170 | | | 0835 | 6.6 | 200 | |
| | 1614 | 6.9 | 210 | | | 1536 | 8.2 | 250 | | | 1234 | 14.4 | 440 | | | 1924 | 8.9 | 270 | | | 1449 | 17.4 | 530 | | | 1432 | 17.7 | 540 | |
| | 2311 | 15.1 | 460 | | | 2231 | 13.8 | 420 | | | 2001 | 7.9 | 240 | | | | | | | | 2136 | 5.2 | 160 | | | 2056 | 5.2 | 160 | |
| 10 Su | 0528 | 7.5 | 230 | | 25 M | 0339 | 8.5 | 260 | | 10 W | 0144 | 14.4 | 440 | | 25 Th | 0102 | 13.8 | 420 | | 10 Sa | 0318 | 18.0 | 550 | | 25 Su | 0244 | 18.4 | 560 | |
| | 1135 | 15.4 | 470 | | | 1137 | 13.5 | 410 | | | 0815 | 7.2 | 220 | | | 0809 | 8.5 | 260 | | | 0941 | 3.9 | 120 | | | 0919 | 4.6 | 140 | |
| | 1820 | 7.5 | 230 | | | 1802 | 8.9 | 270 | | | 1403 | 15.4 | 470 | | | 1404 | 15.1 | 460 | | | 1528 | 19.0 | 580 | | | 1516 | 20.0 | 610 | |
| | | | | | | | | | | | 2107 | 6.6 | 200 | | | 2036 | 6.9 | 210 | | | 2212 | 3.9 | 120 | | | 2140 | 3.3 | 100 | |
| 11 M | 0037 | 15.1 | 460 | | 26 Tu | 0006 | 13.5 | 410 | | 11 Th | 0249 | 16.1 | 490 | | 26 F | 0218 | 15.4 | 470 | | 11 Su | 0353 | 19.4 | 590 | | 26 M | 0327 | 20.3 | 620 | |
| | 0705 | 7.2 | 220 | | | 0651 | 8.9 | 270 | | | 0914 | 5.6 | 170 | | | 0904 | 6.6 | 200 | | | 1020 | 3.0 | 90 | | | 1001 | 3.0 | 90 | |
| | 1259 | 15.7 | 480 | | | 1316 | 13.8 | 420 | | | 1501 | 17.1 | 520 | | | 1457 | 17.1 | 520 | | | 1602 | 20.3 | 620 | | | 1556 | 21.7 | 660 | |
| | 1957 | 6.9 | 210 | | | 1950 | 7.9 | 240 | | | 2155 | 4.9 | 150 | | | 2126 | 5.2 | 160 | | | 2247 | 3.0 | 90 | | | 2223 | 2.3 | 70 | |
| 12 Tu | 0155 | 15.7 | 480 | | 27 W | 0135 | 14.1 | 430 | | 12 F | 0335 | 17.7 | 540 | | 27 Sa | 0309 | 17.7 | 540 | | 12 M | 0426 | 20.7 | 630 | | 27 Tu | 0407 | 22.0 | 670 | |
| | 0819 | 6.2 | 190 | | | 0827 | 7.9 | 240 | | | 1003 | 4.3 | 130 | | | 0949 | 4.9 | 150 | | | 1057 | 2.3 | 70 | | | 1043 | 2.0 | 60 | |
| | 1412 | 16.4 | 500 | | | 1425 | 15.4 | 470 | | | 1545 | 18.7 | 570 | | | 1540 | 19.4 | 590 | | | 1635 | 21.0 | 640 | | | 1634 | 22.6 | 690 | |
| | 2106 | 5.9 | 180 | | | 2055 | 6.6 | 200 | | | 2237 | 3.9 | 120 | | | 2210 | 3.6 | 110 | | | 2320 | 2.6 | 80 | | | 2304 | | | |

Beira, Mozambique, 2011

Times and Heights of High and Low Waters

| October | | | | November | | | | December | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|------|------|--------|----------|-----------------|------|------|----------|------|-----------------|------|------|--------|------|-----------------|------|------|------|------|-----------------|------|------|------|------|-----------------|------|------|------|------|------|------|
| | Time | | Height | | | Time | | Height | | | Time | | Height | | | | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | | | | | | | | |
| 1 Sa | 0049 | 2.6 | 80 | | 16 Su | 0021 | 4.6 | 140 | | 1 Tu | 0137 | 5.6 | 170 | | 16 W | 0049 | 4.9 | 150 | | 1 Th | 0203 | 5.9 | 180 | | 16 F | 0126 | 4.6 | 140 | | | |
| | 0629 | 21.3 | 650 | | | 0614 | 19.4 | 590 | | | 0723 | 18.0 | 550 | | | 0700 | 18.0 | 550 | | | 0755 | 17.4 | 530 | | | 0742 | 18.7 | 570 | | | |
| | 1259 | 3.3 | 100 | | | 1238 | 4.3 | 130 | | | 1340 | 6.6 | 200 | | | 1318 | 5.2 | 160 | | | 1405 | 6.9 | 210 | | | 1355 | 4.9 | 150 | | | |
| | 1853 | 20.0 | 610 | | | 1823 | 19.4 | 590 | | | 1950 | 16.4 | 500 | | | 1918 | 18.0 | 550 | | | 2027 | 16.1 | 490 | | | 2000 | 18.7 | 570 | | | |
| 2 Su | 0118 | 3.9 | 120 | | 17 M | 0030 | 4.9 | 150 | | 2 W | 0207 | 6.9 | 210 | | 17 Th | 0117 | 5.6 | 170 | | 2 F | 0238 | 7.2 | 220 | | 17 Sa | 0159 | 5.2 | 160 | | | |
| | 0702 | 19.7 | 600 | | | 0635 | 18.4 | 560 | | | 0809 | 16.1 | 490 | | | 0739 | 17.1 | 520 | | | 0847 | 16.1 | 490 | | | 0832 | 17.7 | 540 | | | |
| | 1323 | 4.6 | 140 | | | 1252 | 4.9 | 150 | | | 1405 | 7.9 | 240 | | | 1352 | 6.2 | 190 | | | 1436 | 8.2 | 250 | | | 1435 | 6.2 | 190 | | | |
| | 1926 | 18.0 | 550 | | | 1848 | 18.4 | 560 | | | 2050 | 14.8 | 450 | | | 2007 | 16.7 | 510 | | | 2131 | 15.1 | 460 | | | 2055 | 17.4 | 530 | | | |
| 3 M | 0143 | 5.6 | 170 | | 18 Tu | 0046 | 5.2 | 160 | | 3 Th | 0253 | 8.5 | 260 | | 18 F | 0156 | 6.6 | 200 | | 3 Sa | 0334 | 8.2 | 250 | | 18 Su | 0244 | 6.2 | 190 | | | |
| | 0737 | 18.0 | 550 | | | 0658 | 17.4 | 530 | | | 0921 | 14.8 | 450 | | | 0843 | 15.7 | 480 | | | 0958 | 15.1 | 460 | | | 0941 | 16.4 | 500 | | | |
| | 1343 | 6.2 | 190 | | | 1312 | 5.9 | 180 | | | 1453 | 9.5 | 290 | | | 1444 | 7.5 | 230 | | | 1544 | 9.2 | 280 | | | 1535 | 7.5 | 230 | | | |
| | 2003 | 16.1 | 490 | | | 1919 | 17.1 | 520 | | | 2229 | 13.8 | 420 | | | 2121 | 15.7 | 480 | | | 2254 | 14.4 | 440 | | | 2207 | 16.4 | 500 | | | |
| 4 Tu | 0210 | 7.2 | 220 | | 19 W | 0112 | 5.9 | 180 | | 4 F | 0457 | 9.2 | 280 | | 19 Sa | 0257 | 7.5 | 230 | | 4 Su | 0525 | 8.9 | 270 | | 19 M | 0357 | 7.5 | 230 | | | |
| | 0824 | 15.7 | 480 | | | 0730 | 16.1 | 490 | | | 1101 | 14.1 | 430 | | | 1025 | 15.1 | 460 | | | 1122 | 14.8 | 450 | | | 1108 | 15.7 | 480 | | | |
| | 1406 | 8.2 | 250 | | | 1344 | 6.9 | 210 | | | 1836 | 9.5 | 290 | | | 1629 | 8.5 | 260 | | | 1829 | 9.2 | 280 | | | 1722 | 8.2 | 250 | | | |
| | 2108 | 14.1 | 430 | | | 2005 | 15.7 | 480 | | | 5 | 0010 | 14.1 | 430 | | | 0516 | 8.2 | 250 | | | 0019 | 14.8 | 450 | | | 0612 | 7.9 | 240 | | |
| 5 W | 0256 | 8.9 | 270 | | 20 Th | 0151 | 7.2 | 220 | | 5 Sa | 0655 | 8.2 | 250 | | 20 Su | 1204 | 15.7 | 480 | | 5 M | 0659 | 7.9 | 240 | | 20 Tu | 1239 | 16.1 | 490 | | | |
| | 0948 | 14.1 | 430 | | | 0836 | 14.4 | 440 | | | 1235 | 15.1 | 460 | | | 1243 | 15.4 | 470 | | | 1945 | 8.2 | 250 | | | | | | | | |
| | 1453 | 10.2 | 310 | | | 1439 | 8.5 | 260 | | | 1948 | 8.2 | 250 | | | 1944 | 6.2 | 190 | | | | | | | | | | | | | |
| | 2315 | 13.1 | 400 | | | 2140 | 14.4 | 440 | | | 6 | 0125 | 15.7 | 480 | | | 0025 | 16.4 | 500 | | | 0130 | 15.7 | 480 | | | 0057 | 16.7 | 510 | | |
| 6 Th | 0612 | 9.5 | 290 | | 21 F | 0258 | 8.9 | 270 | | 6 Su | 0754 | 6.6 | 200 | | 21 M | 0711 | 6.9 | 210 | | 6 Tu | 0759 | 6.6 | 200 | | 21 W | 0747 | 6.9 | 210 | | | |
| | 1150 | 13.8 | 420 | | | 1109 | 14.1 | 430 | | | 1341 | 16.4 | 500 | | | 1321 | 17.1 | 520 | | | 1347 | 16.4 | 500 | | | 0747 | 6.9 | 210 | | | |
| | 1945 | 9.2 | 280 | | | 1744 | 9.2 | 280 | | | 2030 | 6.6 | 200 | | | 1944 | 6.2 | 190 | | | 2035 | 6.9 | 210 | | | 1355 | 17.1 | 520 | | | |
| | 7 | 0108 | 14.1 | 430 | | | 2345 | 14.4 | 440 | | | 7 | 0215 | 17.4 | | 530 | | 0136 | 17.7 | | 540 | | 0223 | 17.1 | | 520 | | 0207 | 17.7 | 540 | |
| 7 F | 0745 | 7.9 | 240 | | 22 Sa | 0642 | 8.9 | 270 | | 7 M | 0837 | 5.2 | 160 | | 22 Tu | 0814 | 5.2 | 160 | | 7 W | 0848 | 5.6 | 170 | | 22 Th | 0853 | 5.6 | 170 | | | |
| | 1328 | 15.1 | 460 | | | 1254 | 15.4 | 470 | | | 1428 | 18.0 | 550 | | | 1420 | 18.7 | 570 | | | 1437 | 17.7 | 540 | | | 1453 | 18.4 | 560 | | | |
| | 2031 | 7.2 | 220 | | | 1926 | 7.5 | 230 | | | 2108 | 5.2 | 160 | | | 2039 | 4.9 | 150 | | | 2119 | 5.9 | 180 | | | 2116 | 5.2 | 160 | | | |
| | 8 | 0210 | 16.1 | 490 | | | 23 | 0113 | 16.1 | | 490 | | 8 | 0255 | | 18.7 | 570 | | 0232 | | 19.4 | 590 | | 0306 | | 18.0 | 550 | | 0304 | 19.0 | 580 |
| 8 Sa | 0832 | 5.9 | 180 | | 23 Su | 0757 | 6.6 | 200 | | 8 Tu | 0917 | 3.9 | 120 | | 23 W | 0907 | 4.3 | 130 | | 8 Th | 0933 | 4.9 | 150 | | 23 F | 0950 | 4.6 | 140 | | | |
| | 1422 | 17.1 | 520 | | | 1400 | 17.7 | 540 | | | 1507 | 19.4 | 590 | | | 1509 | 20.0 | 610 | | | 1518 | 18.7 | 570 | | | 0950 | 4.6 | 140 | | | |
| | 2106 | 5.6 | 170 | | | 2021 | 5.6 | 170 | | | 2145 | 4.6 | 140 | | | 2130 | 3.9 | 120 | | | 2201 | 5.2 | 160 | | | 1541 | 19.4 | 590 | | | |
| | 9 | 0251 | 18.0 | 550 | | | 24 | 0212 | 18.4 | | 560 | | 9 | 0331 | | 19.7 | 600 | | 0319 | | 20.7 | 630 | | 0345 | | 19.0 | 580 | | 0351 | 20.0 | 610 |
| 9 Su | 0912 | 4.3 | 130 | | 24 M | 0846 | 4.6 | 140 | | 9 W | 0957 | 3.6 | 110 | | 24 Th | 0957 | 3.3 | 100 | | 9 F | 1016 | 4.6 | 140 | | 24 Sa | 1042 | 3.9 | 120 | | | |
| | 1501 | 19.0 | 580 | | | 1449 | 19.7 | 600 | | | 1542 | 20.0 | 610 | | | 1553 | 20.7 | 630 | | | 1556 | 19.0 | 580 | | | 1625 | 20.0 | 610 | | | |
| | 2141 | 4.3 | 130 | | | 2108 | 3.9 | 120 | | | 2222 | 4.3 | 130 | | | 2219 | 3.3 | 100 | | | 2241 | 4.9 | 150 | | | 2259 | 3.9 | 120 | | | |
| | 10 | 0326 | 19.7 | 600 | | | 25 | 0259 | 20.3 | | 620 | | 10 | 0405 | | 20.3 | 620 | | 0403 | | 21.0 | 640 | | 0421 | | 19.4 | 590 | | 0434 | 20.7 | 630 |
| 10 M | 0949 | 3.3 | 100 | | 25 Tu | 0932 | 3.3 | 100 | | 10 Th | 1035 | 3.3 | 100 | | 25 F | 1046 | 3.0 | 90 | | 10 Sa | 1057 | 4.3 | 130 | | 25 Su | 1127 | 3.6 | 110 | | | |
| | 1536 | 20.3 | 620 | | | 1531 | 21.3 | 650 | | | 2257 | 3.9 | 120 | | | 1634 | 21.0 | 640 | | | 1631 | 19.7 | 600 | | | 1705 | 20.3 | 620 | | | |
| | 2215 | 3.6 | 110 | | | 2154 | 3.0 | 90 | | | 11 | 0437 | 20.3 | 620 | | | 2307 | 3.3 | 100 | | | 2317 | 4.9 | 150 | | | 2343 | 3.3 | 100 | | |
| | 11 | 0359 | 20.7 | 630 | | | 26 | 0342 | 21.7 | | 660 | | 11 | 0437 | | 20.3 | 620 | | 0444 | | 21.3 | 650 | | 0455 | | 19.7 | 600 | | 0514 | 20.7 | 630 |
| 11 Tu | 1026 | 2.6 | 80 | | 26 W | 1017 | 2.3 | 70 | | 11 F | 1112 | 3.3 | 100 | | 26 Sa | 1132 | 3.0 | 90 | | 11 Su | 1134 | 3.9 | 120 | | 26 M | 1206 | 3.9 | 120 | | | |
| | 1608 | 21.0 | 640 | | | 1612 | 22.0 | 670 | | | 1647 | 20.3 | 620 | | | 1713 | 20.7 | 630 | | | 1704 | 20.0 | 610 | | | 1742 | 20.3 | 620 | | | |
| | 2249 | 3.3 | 100 | | | 2238 | 2.3 | 70 | | | 2328 | 4.3 | 130 | | | 2350 | 3.3 | 100 | | | 2349 | 4.6 | 140 | | | | | | | | |
| | 12 | 0430 | 21.0 | 640 | | | 27 | 0421 | 22.3 | | 680 | | 12 | 0508 | | 20.0 | 610 | | 0523 | | 21.0 | 640 | | 0527 | | 20.0 | 610 | | 0527 | 20.0 | 610 |
| 12 W | 1101 | 2.3 | 70 | | 27 Th | 1100 | 2.0 | 60 | | 12 Sa | 1144 | 3.6 | 110 | | 27 Su | 1211 | 3.3 | 100 | | 12 M | 1206 | 3.9 | 120 | | 27 Tu | 0552 | 20.7 | 630 | | | |
| | 1639 | 21.3 | 650 | | | 1650 | 22.3 | 680 | | | 1717 | 20.3 | 620 | | | 1751 | 20.3 | 620 | | | 1737 | 20.0 | 610 | | | 1239 | 3.6 | 110 | | | |
| | 2321 | 3.3 | 100 | | | 2321 | 2.3 | 70 | | | 2354 | 4.6 | 140 | | | 28 | 0028 | 3.6 | 110 | | | 0600 | 20.3 | 620 | | | 1818 | 20.3 | 620 | | |
| | 13 | 0500 | 21.0 | 640 | | | 28 | 0459 | 22.3 | | 680 | | 13 | 0536 | | 19.7 | 600 | | 0600 | | 20.3 | 620 | | 13 | | 0015 | 4.3 | 130 | | 0559 | 20.0 | 610 |  | 0053 | 3.3 | 100 |
| 13 Th | 1134 | 2.6 | 80 | | 28 F | 1141 | 2.3 | 70 | | 13 Su | 1211 | 3.9 | 120 | | 28 M | 1246 | 3.9 | 120 | | 13 Tu | 1234 | 3.9 | 120 | | 28 W | 0627 | 20.3 | 620 | | | |
| | 1709 | 21.3 | 650 | | | 1727 | 21.7 | 660 | | | 1745 | 20.0 | 610 | | | 1827 | 19.4 | 590 | | | 1809 | 20.0 | 610 | | | 1307 | 4.3 | 130 | | | |
| | 2348 | 3.6 | 110 | | | 29 | 0000 | 2.6 | 80 | | | 14 | 0014 | 4.6 | | 140 | | 0102 | 3.9 | | 120 | | 1841 | 20.0 | | 610 | | 1851 | 19.7 | 600 | |
| | 14 | 0528 | 20.7 | 630 | | | 29 | 0536 | 21.7 | | 660 | | 14 | 0603 | | 19.4 | 590 | | 0637 | | 19.7 | 600 | | 14 | | 0038 | 4.3 | 130 | | 0559 | 20.0 | 610 |  | 0627 | 20.3 | 620 |
| 14 F | 1201 | 3.0 | 90 | | 29 Sa | 1218 | 3.0 | 90 | | 14 M | 1234 | 4.6 | 140 | | 29 Tu | 1315 | 4.9 | 150 | | 14 W | 1259 | 3.9 | 120 | | 29 Th | 1330 | 4.9 | 150 | | | |
| | 1736 | 20.7 | 630 | | | 1803 | 20.7 | 630 | | | 1813 | 19.4 | 590 | | | 1903 | 18.4 | 560 | | | 1841 | 20.0 | 610 | | | 1924 | 19.0 | 580 | | | |
| | 15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Durban, South Africa, 2011

Times and Heights of High and Low Waters

| April | | | | May | | | | June | | | | | | | | | | | | | | | | | | |
|-----------------|------|--------|-----|-----------------|------|--------|-----|-----------------|------|--------|-----|-----------------|------|--------|-----|-----------------|------|-----|-----|-----------------|------|-----|-----|------|-----|-----|
| Time | | Height | | Time | | Height | | Time | | Height | | Time | | Height | | | | | | | | | | | | |
| | h m | ft | cm | | h m | ft | cm | | h m | ft | cm | | h m | ft | cm | | | | | | | | | | | |
| 1 F | 0250 | 6.0 | 184 | 16 Sa | 0221 | 6.6 | 202 | 1 Su | 0241 | 6.0 | 183 | 16 M | 0235 | 6.6 | 200 | 1 W | 0314 | 6.0 | 183 | 16 Th | 0351 | 6.2 | 188 | | | |
| | 0854 | 1.3 | 41 | | 0834 | 0.9 | 27 | | 0851 | 1.2 | 37 | | 0850 | 0.8 | 24 | | 0928 | 1.1 | 33 | | 1002 | 0.8 | 25 | | | |
| | 1501 | 5.9 | 181 | | 1442 | 6.4 | 194 | | 1459 | 5.8 | 177 | | 1503 | 6.2 | 189 | | 1538 | 5.9 | 180 | | 1621 | 6.2 | 190 | 1621 | 6.2 | 190 |
| | 2105 | 1.1 | 35 | | 2046 | 0.6 | 19 | | 2101 | 1.2 | 37 | | 2104 | 0.8 | 23 | | 2140 | 1.2 | 37 | | 2221 | 1.0 | 32 | | | |
| 2 Sa | 0316 | 6.3 | 193 | 17 Su | 0259 | 7.0 | 214 | 2 M | 0309 | 6.2 | 189 | 17 Tu | 0318 | 6.7 | 203 | 2 Th | 0347 | 6.1 | 186 | 17 F | 0432 | 6.1 | 187 | | | |
| | 0920 | 1.0 | 32 | | 0912 | 0.5 | 15 | | 0919 | 1.0 | 31 | | 0931 | 0.6 | 19 | | 1000 | 1.0 | 29 | | 1041 | 0.8 | 25 | | | |
| | 1527 | 6.2 | 188 | | 1522 | 6.7 | 203 | | 1527 | 6.0 | 183 | | 1546 | 6.4 | 194 | | 1612 | 6.0 | 184 | | 1659 | 6.2 | 190 | 1659 | 6.2 | 190 |
| | 2131 | 0.9 | 28 | | 2125 | 0.3 | 10 | | 2129 | 1.0 | 32 | | 2146 | 0.7 | 21 | | 2213 | 1.1 | 35 | | 2300 | 1.1 | 34 | | | |
| 3 Su | 0340 | 6.5 | 199 | 18 M | 0338 | 7.2 | 220 | 3 Tu | 0336 | 6.3 | 192 | 18 W | 0359 | 6.6 | 201 | 3 F | 0422 | 6.1 | 187 | 18 Sa | 0510 | 6.0 | 182 | | | |
| | 0947 | 0.9 | 27 | | 0950 | 0.3 | 10 | | 0948 | 0.9 | 27 | | 1011 | 0.6 | 18 | | 1035 | 0.9 | 28 | | 1117 | 0.9 | 27 | | | |
| | 1553 | 6.3 | 192 | | 1601 | 6.8 | 206 | | 1555 | 6.1 | 186 | | 1627 | 6.4 | 194 | | 1647 | 6.1 | 186 | | 1737 | 6.1 | 187 | 1737 | 6.1 | 187 |
| | 2156 | 0.8 | 24 | | 2203 | 0.3 | 8 | | 2157 | 1.0 | 30 | | 2228 | 0.8 | 24 | | 2249 | 1.2 | 36 | | 2338 | 1.3 | 39 | | | |
| 4 M | 0405 | 6.6 | 201 | 19 Tu | 0417 | 7.1 | 217 | 4 W | 0405 | 6.3 | 193 | 19 Th | 0440 | 6.4 | 194 | 4 Sa | 0459 | 6.1 | 185 | 19 Su | 0545 | 5.8 | 176 | | | |
| | 1013 | 0.8 | 24 | | 1027 | 0.4 | 11 | | 1016 | 0.9 | 26 | | 1050 | 0.7 | 22 | | 1110 | 1.0 | 29 | | 1151 | 1.0 | 32 | | | |
| | 1618 | 6.4 | 194 | | 1639 | 6.7 | 204 | | 1625 | 6.2 | 188 | | 1708 | 6.2 | 190 | | 1724 | 6.1 | 186 | | 1812 | 6.0 | 182 | 1812 | 6.0 | 182 |
| | 2222 | 0.8 | 23 | | 2240 | 0.4 | 13 | | 2226 | 1.0 | 31 | | 2308 | 1.0 | 31 | | 2327 | 1.3 | 39 | | | | | | | |
| 5 Tu | 0430 | 6.6 | 200 | 20 W | 0454 | 6.8 | 208 | 5 Th | 0434 | 6.2 | 190 | 20 F | 0520 | 6.0 | 184 | 5 Su | 0538 | 5.9 | 180 | 20 M | 0614 | 1.5 | 46 | | | |
| | 1039 | 0.8 | 24 | | 1104 | 0.6 | 18 | | 1046 | 0.9 | 27 | | 1128 | 1.0 | 29 | | 1148 | 1.1 | 33 | | 0619 | 5.5 | 169 | | | |
| | 1644 | 6.3 | 193 | | 1718 | 6.4 | 196 | | 1655 | 6.1 | 186 | | 1748 | 6.0 | 183 | | 1804 | 6.0 | 182 | | 1225 | 1.3 | 39 | 1225 | 1.3 | 39 |
| | 2247 | 0.9 | 26 | | 2318 | 0.8 | 23 | | 2257 | 1.1 | 35 | | 2348 | 1.3 | 41 | | | | | | | | | | | |
| 6 W | 0455 | 6.5 | 197 | 21 Th | 0532 | 6.4 | 194 | 6 F | 0506 | 6.1 | 185 | 21 Sa | 0559 | 5.6 | 172 | 6 M | 0608 | 1.5 | 45 | 21 Tu | 0650 | 1.8 | 55 | | | |
| | 1105 | 0.9 | 28 | | 1140 | 1.0 | 29 | | 1117 | 1.0 | 32 | | 1205 | 1.2 | 38 | | 0620 | 5.7 | 173 | | 0653 | 5.2 | 160 | | | |
| | 1711 | 6.2 | 189 | | 1756 | 6.1 | 185 | | 1728 | 5.9 | 181 | | 1828 | 5.7 | 174 | | 1229 | 1.3 | 40 | | 1259 | 1.6 | 48 | 1259 | 1.6 | 48 |
| | 2313 | 1.0 | 31 | | 2357 | 1.2 | 38 | | 2330 | 1.3 | 41 | | | | | | | | | | | | | | | |
| 7 Th | 0522 | 6.2 | 190 | 22 F | 0609 | 5.8 | 176 | 7 Sa | 0540 | 5.8 | 178 | 22 Su | 0629 | 1.7 | 53 | 7 Tu | 0655 | 1.7 | 53 | 22 W | 0729 | 5.0 | 151 | | | |
| | 1132 | 1.1 | 34 | | 1217 | 1.4 | 42 | | 1151 | 1.3 | 40 | | 0638 | 5.2 | 160 | | 0707 | 5.4 | 165 | | 0729 | 5.0 | 151 | | | |
| | 1739 | 6.0 | 182 | | 1836 | 5.6 | 171 | | 1805 | 5.7 | 174 | | 1244 | 1.6 | 49 | | 1314 | 1.6 | 48 | | 1335 | 1.9 | 58 | 1335 | 1.9 | 58 |
| | 2341 | 1.3 | 40 | | | | | | | | | | | | | | | | | | | | | | | |
| 8 F | 0551 | 5.9 | 181 | 23 Sa | 0637 | 1.8 | 55 | 8 Su | 0607 | 1.7 | 51 | 23 M | 0720 | 2.1 | 65 | 8 W | 0801 | 2.0 | 62 | 23 Th | 0814 | 2.4 | 73 | | | |
| | 1202 | 1.4 | 43 | | 0649 | 5.2 | 159 | | 0619 | 5.5 | 168 | | 0720 | 4.9 | 149 | | 0801 | 5.1 | 155 | | 0814 | 4.7 | 142 | 0814 | 4.7 | 142 |
| | 1810 | 5.7 | 173 | | 1256 | 1.9 | 57 | | 1231 | 1.6 | 49 | | 1326 | 2.0 | 60 | | 1407 | 1.8 | 56 | | 1420 | 2.3 | 70 | 1420 | 2.3 | 70 |
| | | | | | 1921 | 5.1 | 155 | | 1847 | 5.4 | 165 | | 1957 | 5.0 | 152 | | 2041 | 5.3 | 163 | | 2056 | 4.8 | 147 | | | |
| 9 Sa | 0012 | 1.7 | 51 | 24 Su | 0125 | 2.4 | 73 | 9 M | 0052 | 2.0 | 62 | 24 Tu | 0207 | 2.5 | 76 | 9 Th | 0257 | 2.3 | 69 | 24 F | 0318 | 2.6 | 80 | | | |
| | 0623 | 5.5 | 169 | | 0736 | 4.7 | 142 | | 0707 | 5.1 | 156 | | 0810 | 4.6 | 139 | | 0908 | 4.8 | 147 | | 0915 | 4.4 | 133 | 0915 | 4.4 | 133 |
| | 1236 | 1.8 | 55 | | 1344 | 2.4 | 72 | | 1319 | 2.0 | 61 | | 1418 | 2.3 | 71 | | 1513 | 2.1 | 64 | | 1523 | 2.6 | 80 | 1523 | 2.6 | 80 |
| | 1846 | 5.3 | 161 | | 2022 | 4.7 | 142 | | 1943 | 5.1 | 156 | | 2101 | 4.7 | 144 | | 2157 | 5.2 | 160 | | 2212 | 4.7 | 142 | | | |
| 10 Su | 0049 | 2.1 | 65 | 25 M | 0236 | 2.9 | 87 | 10 Tu | 0153 | 2.4 | 73 | 25 W | 0320 | 2.7 | 83 | 10 F | 0419 | 2.3 | 71 | 25 Sa | 0441 | 2.7 | 83 | | | |
| | 0705 | 5.1 | 155 | | 0850 | 4.2 | 129 | | 0812 | 4.8 | 145 | | 0922 | 4.3 | 131 | | 1031 | 4.7 | 143 | | 1046 | 4.2 | 129 | 1046 | 4.2 | 129 |
| | 1320 | 2.3 | 69 | | 1501 | 2.8 | 84 | | 1424 | 2.3 | 71 | | 1531 | 2.6 | 79 | | 1635 | 2.2 | 67 | | 1657 | 2.8 | 84 | 1657 | 2.8 | 84 |
| | 1936 | 4.9 | 148 | | 2216 | 4.4 | 135 | | 2103 | 4.9 | 149 | | 2229 | 4.6 | 141 | | 2317 | 5.3 | 162 | | 2338 | 4.7 | 143 | | | |
| 11 M | 0144 | 2.6 | 80 | 26 Tu | 0445 | 3.0 | 91 | 11 W | 0325 | 2.6 | 80 | 26 Th | 0451 | 2.8 | 84 | 11 Sa | 0542 | 2.2 | 66 | 26 Su | 0606 | 2.6 | 78 | | | |
| | 0811 | 4.6 | 141 | | 1057 | 4.1 | 126 | | 0947 | 4.6 | 140 | | 1057 | 4.3 | 130 | | 1156 | 4.8 | 147 | | 1221 | 4.4 | 133 | 1221 | 4.4 | 133 |
| | 1431 | 2.7 | 83 | | 1712 | 2.8 | 86 | | 1557 | 2.5 | 75 | | 1706 | 2.7 | 81 | | 1759 | 2.1 | 64 | | 1827 | 2.6 | 80 | 1827 | 2.6 | 80 |
| | 2110 | 4.5 | 137 | | | | | | | | | | | | | | | | | | | | | | | |
| 12 Tu | 0339 | 3.0 | 91 | 27 W | 0003 | 4.6 | 141 | 12 Th | 0512 | 2.5 | 75 | 27 F | 0608 | 2.5 | 77 | 12 Su | 0628 | 5.5 | 168 | 27 M | 0646 | 4.9 | 149 | | | |
| | 1023 | 4.4 | 134 | | 0619 | 2.7 | 83 | | 1125 | 4.7 | 144 | | 1218 | 4.5 | 136 | | 0651 | 1.9 | 57 | | 0710 | 2.3 | 69 | 0710 | 2.3 | 69 |
| | 1647 | 2.8 | 86 | | 1227 | 4.4 | 135 | | 1732 | 2.2 | 68 | | 1823 | 2.5 | 75 | | 1306 | 5.1 | 156 | | 1325 | 4.7 | 144 | 1325 | 4.7 | 144 |
| | 2335 | 4.7 | 143 | | 1835 | 2.5 | 77 | | | | | | | | | | | | | | | | | | | |
| 13 W | 0601 | 2.7 | 81 | 28 Th | 0101 | 5.0 | 152 | 13 F | 0005 | 5.4 | 164 | 28 Sa | 0047 | 5.0 | 153 | 13 M | 0128 | 5.8 | 176 | 28 Tu | 0137 | 5.2 | 158 | | | |
| | 1214 | 4.8 | 146 | | 0711 | 2.3 | 70 | | 0626 | 2.0 | 62 | | 0703 | 2.2 | 67 | | 0748 | 1.5 | 46 | | 0757 | 1.9 | 59 | 0757 | 1.9 | 59 |
| | 1828 | 2.4 | 72 | | 1319 | 4.8 | 147 | | 1236 | 5.1 | 156 | | 1314 | 4.8 | 145 | | 1404 | 5.5 | 167 | | 1411 | 5.1 | 155 | 1411 | 5.1 | 155 |
| | | | | | 1924 | 2.1 | 65 | | 1841 | 1.8 | 56 | | 1916 | 2.2 | 66 | | 2005 | 1.5 | 46 | | 2012 | 2.0 | 61 | | | |
| 14 Th | 0050 | 5.3 | 163 | 29 F | 0140 | 5.4 | 164 | 14 Sa | 0103 | 5.9 | 179 | 29 Su | 0131 | 5.3 | 162 | 14 Tu | 0220 | 6.0 | 183 | 29 W | 0220 | 5.5 | 168 | | | |
| | 0707 | 2.0 | 62 | | 0749 | 1.9 | 58 | | 0721 | 1.5 | 47 | | 0745 | 1.8 | 56 | | 0837 | 1.2 | 37 | | 0837 | 1.6 | 48 | 0837 | 1.6 | 48 |
| | 1315 | 5.3 | 163 | | 1357 | 5.2 | 159 | | 1331 | 5.5 | 169 | | 1356 | 5.1 | 156 | | 1454 | 5.8 | 178 | | 1449 | 5.5 | 167 | 1449 | 5.5 | 167 |
| | 1923 | 1.7 | 53 | | 2000 | 1.8 | 54 | | 1934 | 1.4 | 42 | | 1957 | 1.9 | 57 | | 2054 | 1.2 | 38 | | 2051 | 1.7 | 51 | | | |
| 15 F | 0139 | 6.0 | 184 | 30 Sa | 0212 | 5.7 | 175 | 15 Su | 0151 | 6.3 | 192 | 30 M | 0207 | 5.6 | 171 | 15 W | 0307 | 6.1 | 187 | 30 Th | 0259 | 5.8 | 177 | | | |
| | 0753 | 1.4 | 43 | | 0821 | 1.5 | 47 | | 0807 | 1.1 | 34 | | 0822 | 1.5 | 47 | | 0921 | 1.0 | 29 | | 0914 | 1.2 | 38 | 0914 | 1.2 | 38 |
| | 1401 | 5.9 | 180 | | 1429 | 5.5 | 169 | | 1419 | 5.9 | 180 | | 1432 | 5.4 | 165 | | 1539 | 6.1 | 186 | | 1526 | 5.8 | 178 | 1526 | 5.8 | 178 |
| | 2006 | 1.1 | 34 | | 2031 | 1.4 | 44 | | 2020 | 1.0 | | | | | | | | | | | | | | | | |

Durban, South Africa, 2011

Times and Heights of High and Low Waters

| July | | | | August | | | | September | | | | | | | | | | | | | | | | | | | | | |
|-----------------|--------|-----|-----|--------|-----------------|------|-----|-----------|--------|-----------------|------|------|--------|----|-----------------|------|-----|-----|----|-----------------|------|-------|-----|--|-----------------|------|-----|-----|--|
| Time | Height | | | Time | Height | | | Time | Height | | | Time | Height | | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | |
| 1 F | 0337 | 6.0 | 184 | | 16 Sa | 0421 | 6.1 | 187 | | 1 M | 0440 | 6.7 | 203 | | 16 Tu | 0456 | 6.3 | 192 | | 1 Th | 0531 | 6.7 | 203 | | 16 F | 0518 | 6.1 | 186 | |
| | 0950 | 1.0 | 30 | | | 1028 | 0.8 | 24 | | | 1047 | 0.4 | 11 | | | 1101 | 0.7 | 20 | | | 1133 | 0.4 | 11 | | | 1120 | 1.0 | 31 | |
| | 1602 | 6.2 | 188 | | | 1646 | 6.4 | 196 | | | 1702 | 7.0 | 214 | | | 1714 | 6.6 | 201 | | | 1750 | 7.0 | 214 | | | 1729 | 6.3 | 191 | |
| | 2205 | 1.1 | 35 | | | 2246 | 1.0 | 32 | | | 2309 | 0.7 | 20 | | | 2319 | 1.0 | 31 | | | 2359 | 0.8 | 25 | | | 2341 | 1.2 | 37 | |
| 2 Sa | 0415 | 6.2 | 190 | | 17 Su | 0454 | 6.1 | 187 | | 2 Tu | 0517 | 6.6 | 202 | | 17 W | 0522 | 6.2 | 188 | | 2 F | 0607 | 6.3 | 191 | | 17 Sa | 0543 | 5.8 | 178 | |
| | 1026 | 0.8 | 25 | | | 1059 | 0.8 | 23 | | | 1122 | 0.4 | 11 | | | 1126 | 0.8 | 25 | | | 1208 | 0.8 | 25 | | | 1145 | 1.3 | 41 | |
| | 1639 | 6.4 | 195 | | | 1717 | 6.4 | 196 | | | 1739 | 7.0 | 214 | | | 1739 | 6.4 | 195 | | | 1827 | 6.5 | 197 | | | 1754 | 5.9 | 180 | |
| | 2243 | 1.0 | 31 | | | 2318 | 1.1 | 34 | | | 2346 | 0.8 | 23 | | | 2346 | 1.2 | 36 | | | | | | | | | | | |
| 3 Su | 0453 | 6.3 | 192 | | 18 M | 0524 | 6.1 | 185 | | 3 W | 0554 | 6.5 | 197 | | 18 Th | 0547 | 6.0 | 182 | | 3 Sa | 0036 | 1.3 | 39 | | 18 Su | 0007 | 1.5 | 47 | |
| | 1103 | 0.7 | 22 | | | 1129 | 0.8 | 25 | | | 1157 | 0.5 | 16 | | | 1151 | 1.1 | 33 | | | 0645 | 5.7 | 175 | | | 0611 | 5.5 | 168 | |
| | 1718 | 6.5 | 198 | | | 1746 | 6.3 | 192 | | | 1816 | 6.8 | 208 | | | 1804 | 6.1 | 187 | | | 1245 | 1.4 | 44 | | | 1211 | 1.8 | 54 | |
| | 2322 | 1.0 | 31 | | | 2349 | 1.2 | 38 | | | | | | | | | | | | | 1905 | 5.8 | 176 | | | 1822 | 5.5 | 168 | |
| 4 M | 0532 | 6.2 | 190 | | 19 Tu | 0552 | 5.9 | 180 | | 4 Th | 0024 | 1.0 | 31 | | 19 F | 0013 | 1.4 | 44 | | 4 Su | 0115 | 1.9 | 57 | | 19 M | 0037 | 1.9 | 59 | |
| | 1140 | 0.7 | 22 | | | 1157 | 1.0 | 30 | | | 0631 | 6.1 | 187 | | | 0613 | 5.7 | 173 | | | 0727 | 5.2 | 157 | | | 0642 | 5.1 | 155 | |
| | 1757 | 6.5 | 197 | | | 1814 | 6.1 | 186 | | | 1233 | 0.9 | 26 | | | 1217 | 1.4 | 43 | | | 1327 | 2.2 | 66 | | | 1241 | 2.3 | 69 | |
| | | | | | | | | | | | 1855 | 6.4 | 196 | | | 1830 | 5.8 | 177 | | | 1952 | 5.1 | 154 | | | 1856 | 5.1 | 154 | |
| 5 Tu | 0003 | 1.1 | 35 | | 20 W | 0019 | 1.5 | 45 | | 5 F | 0103 | 1.4 | 43 | | 20 Sa | 0042 | 1.8 | 54 | | 5 M | 0205 | 2.5 | 75 | | 20 Tu | 0115 | 2.4 | 73 | |
| | 0612 | 6.1 | 185 | | | 0620 | 5.7 | 173 | | | 0710 | 5.7 | 173 | | | 0642 | 5.3 | 162 | | | 0830 | 4.5 | 138 | | | 0725 | 4.6 | 141 | |
| | 1218 | 0.9 | 27 | | | 1225 | 1.2 | 38 | | | 1311 | 1.3 | 41 | | | 1243 | 1.8 | 56 | | | 1433 | 2.9 | 87 | | | 1323 | 2.8 | 85 | |
| | 1838 | 6.3 | 193 | | | 1842 | 5.8 | 178 | | | 1936 | 5.9 | 179 | | | 1859 | 5.4 | 164 | | | 2117 | 4.4 | 135 | | | 1949 | 4.5 | 138 | |
| 6 W | 0045 | 1.4 | 42 | | 21 Th | 0050 | 1.7 | 53 | | 6 Sa | 0147 | 1.9 | 58 | | 21 Su | 0114 | 2.2 | 66 | | 6 Tu | 0345 | 3.0 | 90 | | 21 W | 0219 | 2.9 | 88 | |
| | 0653 | 5.8 | 176 | | | 0650 | 5.4 | 164 | | | 0754 | 5.1 | 156 | | | 0714 | 4.9 | 150 | | | 1112 | 4.3 | 130 | | | 0852 | 4.2 | 128 | |
| | 1257 | 1.1 | 35 | | | 1254 | 1.6 | 49 | | | 1355 | 2.0 | 60 | | | 1314 | 2.3 | 71 | | | 1741 | 3.1 | 95 | | | 1509 | 3.2 | 99 | |
| | 1921 | 6.1 | 185 | | | 1913 | 5.5 | 168 | | | 2027 | 5.3 | 161 | | | 1935 | 5.0 | 151 | | | | | | | | 2215 | 4.2 | 129 | |
| 7 Th | 0130 | 1.7 | 51 | | 22 F | 0125 | 2.1 | 63 | | 7 Su | 0242 | 2.4 | 73 | | 22 M | 0156 | 2.6 | 79 | | 7 W | 0000 | 4.4 | 133 | | 22 Th | 0508 | 3.0 | 92 | |
| | 0738 | 5.4 | 165 | | | 0722 | 5.0 | 153 | | | 0857 | 4.6 | 140 | | | 0759 | 4.5 | 136 | | | 0634 | 2.8 | 84 | | | 1159 | 4.4 | 134 | |
| | 1340 | 1.5 | 46 | | | 1326 | 2.0 | 61 | | | 1459 | 2.6 | 79 | | | 1358 | 2.9 | 87 | | | 1305 | 4.8 | 145 | | | 1822 | 3.0 | 90 | |
| | 2010 | 5.7 | 175 | | | 1949 | 5.2 | 157 | | | 2148 | 4.8 | 145 | | | 2036 | 4.5 | 137 | | | 1918 | 2.6 | 80 | | | | | | |
| 8 F | 0222 | 2.0 | 61 | | 23 Sa | 0206 | 2.4 | 73 | | 8 M | 0416 | 2.8 | 85 | | 23 Tu | 0313 | 3.0 | 92 | | 8 Th | 0121 | 4.8 | 146 | | 23 F | 0028 | 4.6 | 141 | |
| | 0830 | 5.0 | 153 | | | 0803 | 4.6 | 141 | | | 1105 | 4.3 | 132 | | | 0939 | 4.1 | 125 | | | 0737 | 2.2 | 68 | | | 0648 | 2.5 | 76 | |
| | 1432 | 1.9 | 59 | | | 1406 | 2.5 | 75 | | | 1716 | 2.9 | 89 | | | 1601 | 3.2 | 99 | | | 1356 | 5.3 | 163 | | | 1308 | 5.1 | 155 | |
| | 2110 | 5.4 | 164 | | | 2039 | 4.8 | 145 | | | 2356 | 4.6 | 141 | | | 2308 | 4.3 | 131 | | | 2003 | 2.1 | 64 | | | 1920 | 2.3 | 70 | |
| 9 Sa | 0328 | 2.3 | 71 | | 24 Su | 0305 | 2.7 | 83 | | 9 Tu | 0633 | 2.7 | 81 | | 24 W | 0601 | 3.0 | 91 | | 9 F | 0206 | 5.3 | 161 | | 24 Sa | 0124 | 5.2 | 160 | |
| | 0940 | 4.7 | 142 | | | 0906 | 4.3 | 130 | | | 1305 | 4.7 | 142 | | | 1236 | 4.3 | 132 | | | 0816 | 1.7 | 52 | | | 0735 | 1.8 | 56 | |
| | 1543 | 2.3 | 71 | | | 1511 | 2.9 | 88 | | | 1913 | 2.6 | 79 | | | 1848 | 3.0 | 90 | | | 1431 | 5.9 | 179 | | | 1349 | 5.8 | 178 | |
| | 2231 | 5.1 | 155 | | | 2204 | 4.5 | 137 | | | | | | | | | | | | | 2035 | 1.6 | 50 | | | 1959 | 1.6 | 49 | |
| 10 Su | 0457 | 2.5 | 75 | | 25 M | 0446 | 2.9 | 88 | | 10 W | 0124 | 5.0 | 151 | | 25 Th | 0057 | 4.7 | 144 | | 10 Sa | 0240 | 5.7 | 175 | | 25 Su | 0205 | 5.9 | 179 | |
| | 1121 | 4.5 | 138 | | | 1107 | 4.1 | 126 | | | 0747 | 2.2 | 66 | | | 0721 | 2.5 | 75 | | | 0846 | 1.3 | 39 | | | 0813 | 1.2 | 36 | |
| | 1725 | 2.5 | 76 | | | 1725 | 3.1 | 93 | | | 1407 | 5.2 | 160 | | | 1338 | 5.0 | 152 | | | 1501 | 6.3 | 191 | | | 1426 | 6.5 | 199 | |
| | | | | | | 2359 | 4.5 | 138 | | | 2011 | 2.1 | 64 | | | 1944 | 2.4 | 72 | | | 2104 | 1.3 | 39 | | | 2037 | 1.0 | 31 | |
| 11 M | 0003 | 5.1 | 154 | | 26 Tu | 0636 | 2.7 | 82 | | 11 Th | 0218 | 5.4 | 164 | | 26 F | 0150 | 5.3 | 162 | | 11 Su | 0310 | 6.1 | 185 | | 26 M | 0243 | 6.4 | 195 | |
| | 0632 | 2.3 | 70 | | | 1259 | 4.4 | 135 | | | 0832 | 1.7 | 51 | | | 0805 | 1.8 | 56 | | | 0914 | 1.0 | 29 | | | 0848 | 0.6 | 19 | |
| | 1257 | 4.8 | 146 | | | 1904 | 2.7 | 83 | | | 1449 | 5.8 | 176 | | | 1417 | 5.7 | 173 | | | 1528 | 6.6 | 200 | | | 1501 | 7.1 | 217 | |
| | 1859 | 2.3 | 70 | | | | | | | | 2051 | 1.6 | 50 | | | 2024 | 1.7 | 53 | | | 2131 | 1.0 | 30 | | | 2112 | 0.5 | 16 | |
| 12 Tu | 0119 | 5.2 | 160 | | 27 W | 0115 | 4.9 | 149 | | 12 F | 0258 | 5.8 | 176 | | 27 Sa | 0230 | 5.9 | 179 | | 12 M | 0337 | 6.3 | 191 | | 27 Tu | 0319 | 6.8 | 206 | |
| | 0743 | 1.9 | 59 | | | 0739 | 2.3 | 69 | | | 0908 | 1.2 | 38 | | | 0841 | 1.2 | 38 | | | 0941 | 0.8 | 23 | | | 0923 | 0.2 | 7 | |
| | 1404 | 5.2 | 159 | | | 1356 | 5.0 | 151 | | | 1523 | 6.2 | 189 | | | 1453 | 6.3 | 193 | | | 1553 | 6.7 | 204 | | | 1537 | 7.4 | 227 | |
| | 2005 | 1.9 | 59 | | | 1958 | 2.3 | 69 | | | 2125 | 1.3 | 39 | | | 2100 | 1.1 | 35 | | | 2158 | 0.8 | 25 | | | 2148 | 0.3 | 8 | |
| 13 W | 0217 | 5.5 | 169 | | 28 Th | 0206 | 5.3 | 163 | | 13 Sa | 0332 | 6.1 | 185 | | 28 Su | 0307 | 6.4 | 194 | | 13 Tu | 0403 | 6.4</ | | | | | | | |

Diego Garcia Island, 2011

Times and Heights of High and Low Waters

| January | | | | February | | | | March | | | | | | | | | | | | | | | | | | | | |
|-----------------|--------|-----|------|----------|-----------------|------|--------|-------|------|-----------------|------|------|--------|----|-----------------|------|------|-----|--|-----------------|------|-----|-----|---|-----------------|------|------|-----|
| Time | Height | | Time | Height | | Time | Height | | Time | Height | | Time | Height | | | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | | | | | |
| 1 Sa | 0059 | 4.0 | 122 | | 16 Su | 0047 | 3.6 | 110 | | 1 Tu | 0231 | 4.4 | 134 | | 16 W | 0202 | 4.4 | 134 | | 1 Tu | 0146 | 4.0 | 122 | | 16 W | 0054 | 3.9 | 119 |
| | 0659 | 1.5 | 46 | | | 0643 | 1.9 | 58 | | | 0830 | 1.0 | 30 | | | 0803 | 0.9 | 27 | | | 0746 | 1.4 | 43 | | | 0657 | 1.4 | 43 |
| | 1306 | 4.3 | 131 | | | 1250 | 3.9 | 119 | | | 1435 | 4.7 | 143 | | | 1410 | 4.9 | 149 | | | 1351 | 4.3 | 131 | | | 1307 | 4.3 | 131 |
| | 1933 | 0.9 | 27 | | | 1919 | 1.2 | 37 | | | 2050 | 0.5 | 15 | | | 2026 | 0.3 | 9 | | | 2005 | 1.0 | 30 | | | 1925 | 0.9 | 27 |
| 2 Su | 0151 | 4.3 | 131 | | 17 M | 0139 | 4.0 | 122 | | 2 W | 0300 | 4.7 | 143 | | 17 Th | 0236 | 4.9 | 149 | | 2 W | 0216 | 4.4 | 134 | | 17 Th | 0135 | 4.5 | 137 |
| | 0750 | 1.2 | 37 | | | 0736 | 1.5 | 46 | | | 0901 | 0.7 | 21 | | | 0839 | 0.4 | 12 | | | 0818 | 1.0 | 30 | | | 0740 | 0.8 | 24 |
| | 1356 | 4.6 | 140 | | | 1340 | 4.4 | 134 | | | 1506 | 5.0 | 152 | | | 1448 | 5.4 | 165 | | | 1422 | 4.6 | 140 | | | 1350 | 4.9 | 149 |
| | 2017 | 0.6 | 18 | | | 2002 | 0.7 | 21 | | | 2118 | 0.3 | 9 | | | 2101 | -0.1 | -3 | | | 2033 | 0.6 | 18 | | | 2003 | 0.4 | 12 |
| 3 M | 0232 | 4.5 | 137 | | 18 Tu | 0218 | 4.5 | 137 | | 3 Th | 0327 | 4.9 | 149 | | 18 F | 0309 | 5.4 | 165 | | 3 Th | 0241 | 4.7 | 143 | | 18 F | 0211 | 5.0 | 152 |
| | 0831 | 1.0 | 30 | | | 0816 | 1.0 | 30 | | | 0929 | 0.5 | 15 | | | 0914 | -0.1 | -3 | | | 0844 | 0.6 | 18 | | | 0818 | 0.2 | 6 |
| | 1436 | 4.8 | 146 | | | 1421 | 4.8 | 146 | | | 1534 | 5.1 | 155 | | | 1523 | 5.7 | 174 | | | 1450 | 4.9 | 149 | | | 1428 | 5.4 | 165 |
| | 2054 | 0.4 | 12 | | | 2040 | 0.3 | 9 | | ● | 2144 | 0.2 | 6 | | ○ | 2134 | -0.3 | -9 | | | 2059 | 0.4 | 12 | | | 2038 | 0.0 | 0 |
| 4 Tu | 0307 | 4.7 | 143 | | 19 W | 0253 | 4.8 | 146 | | 4 F | 0352 | 5.1 | 155 | | 19 Sa | 0342 | 5.6 | 171 | | 4 F | 0305 | 5.0 | 152 | | 19 Sa | 0245 | 5.5 | 168 |
| | 0907 | 0.8 | 24 | | | 0853 | 0.6 | 18 | | | 0955 | 0.3 | 9 | | | 0948 | -0.3 | -9 | | | 0909 | 0.4 | 12 | | | 0853 | -0.2 | -6 |
| | 1542 | 5.0 | 152 | | | 1459 | 5.2 | 158 | | | 1600 | 5.2 | 158 | | | 1558 | 5.8 | 177 | | | 1515 | 5.2 | 158 | | | 1504 | 5.7 | 174 |
| | 2127 | 0.3 | 9 | | | 2115 | 0.0 | 0 | | | 2209 | 0.1 | 3 | | | 2207 | -0.4 | -12 | | | 2122 | 0.2 | 6 | | | 2112 | -0.2 | -6 |
| 5 W | 0339 | 4.9 | 149 | | 20 Th | 0326 | 5.2 | 158 | | 5 Sa | 0416 | 5.2 | 158 | | 20 Su | 0414 | 5.8 | 177 | | 5 Sa | 0328 | 5.2 | 158 | | 20 Su | 0318 | 5.7 | 174 |
| | 0939 | 0.6 | 18 | | | 0929 | 0.2 | 6 | | | 1021 | 0.2 | 6 | | | 1023 | -0.4 | -12 | | | 0933 | 0.2 | 6 | | | 0928 | -0.5 | -15 |
| | 1544 | 5.1 | 155 | | | 1536 | 5.5 | 168 | | | 1626 | 5.2 | 158 | | | 1633 | 5.8 | 177 | | | 1539 | 5.3 | 162 | | | 1539 | 5.8 | 177 |
| | 2158 | 0.2 | 6 | | ○ | 2150 | -0.2 | -6 | | | 2233 | 0.2 | 6 | | | 2240 | -0.3 | -9 | | ● | 2145 | 0.1 | 3 | | ○ | 2145 | -0.3 | -9 |
| 6 Th | 0408 | 5.0 | 152 | | 21 F | 0400 | 5.4 | 165 | | 6 Su | 0440 | 5.2 | 158 | | 21 M | 0447 | 5.7 | 174 | | 6 Su | 0350 | 5.3 | 162 | | 21 M | 0351 | 5.8 | 177 |
| | 1009 | 0.5 | 15 | | | 1004 | 0.0 | 0 | | | 1046 | 0.3 | 9 | | | 1058 | -0.3 | -9 | | | 0956 | 0.1 | 3 | | | 1002 | -0.6 | -18 |
| | 1614 | 5.1 | 155 | | | 1612 | 5.6 | 171 | | | 1652 | 5.1 | 155 | | | 1707 | 5.5 | 168 | | | 1603 | 5.3 | 162 | | | 1613 | 5.7 | 174 |
| | 2227 | 0.3 | 9 | | | 2225 | -0.2 | -6 | | | 2257 | 0.3 | 9 | | | 2313 | 0.0 | 0 | | | 2207 | 0.1 | 3 | | | 2218 | -0.2 | -6 |
| 7 F | 0436 | 5.0 | 152 | | 22 Sa | 0434 | 5.5 | 168 | | 7 M | 0504 | 5.1 | 155 | | 22 Tu | 0520 | 5.5 | 168 | | 7 M | 0412 | 5.3 | 162 | | 22 Tu | 0424 | 5.7 | 174 |
| | 1039 | 0.5 | 15 | | | 1040 | -0.1 | -3 | | | 1112 | 0.4 | 12 | | | 1133 | 0.0 | 0 | | | 1020 | 0.0 | 0 | | | 1037 | -0.4 | -12 |
| | 1644 | 5.0 | 152 | | | 1649 | 5.6 | 171 | | | 1718 | 4.9 | 149 | | | 1743 | 5.1 | 155 | | | 1627 | 5.2 | 158 | | | 1647 | 5.5 | 168 |
| | 2255 | 0.4 | 12 | | | 2300 | -0.1 | -3 | | | 2322 | 0.5 | 15 | | | 2346 | 0.5 | 15 | | | 2230 | 0.2 | 6 | | | 2250 | 0.1 | 3 |
| 8 Sa | 0504 | 4.9 | 149 | | 23 Su | 0508 | 5.4 | 165 | | 8 Tu | 0529 | 4.9 | 149 | | 23 W | 0555 | 5.1 | 155 | | 8 Tu | 0435 | 5.3 | 162 | | 23 W | 0457 | 5.5 | 168 |
| | 1109 | 0.6 | 18 | | | 1117 | 0.0 | 0 | | | 1139 | 0.5 | 15 | | | 1210 | 0.4 | 12 | | | 1044 | 0.1 | 3 | | | 1111 | 0.0 | 0 |
| | 1714 | 4.8 | 146 | | | 1726 | 5.4 | 165 | | | 1745 | 4.7 | 143 | | | 1820 | 4.6 | 140 | | | 1651 | 5.1 | 155 | | | 1722 | 5.0 | 152 |
| | 2323 | 0.5 | 15 | | | 2335 | 0.1 | 3 | | | 2348 | 0.8 | 24 | | | | | | | | 2253 | 0.4 | 12 | | | 2323 | 0.5 | 15 |
| 9 Su | 0533 | 4.8 | 146 | | 24 M | 0544 | 5.2 | 158 | | 9 W | 0556 | 4.7 | 143 | | 24 Th | 0021 | 1.0 | 30 | | 9 W | 0459 | 5.1 | 155 | | 24 Th | 0531 | 5.0 | 152 |
| | 1139 | 0.8 | 24 | | | 1155 | 0.2 | 6 | | | 1208 | 0.8 | 24 | | | 0631 | 4.5 | 137 | | | 1110 | 0.3 | 9 | | | 1147 | 0.4 | 12 |
| | 1745 | 4.6 | 140 | | | 1805 | 5.0 | 152 | | | 1815 | 4.3 | 131 | | | 1252 | 1.0 | 30 | | | 1717 | 4.8 | 146 | | | 1757 | 4.5 | 137 |
| | 2353 | 0.8 | 24 | | | | | | | | | | | | 1902 | 3.9 | 119 | | | 2318 | 0.7 | 21 | | | 2357 | 1.0 | 30 | |
| 10 M | 0603 | 4.6 | 140 | | 25 Tu | 0012 | 0.6 | 18 | | 10 Th | 0016 | 1.2 | 37 | | 25 F | 0101 | 1.6 | 49 | | 10 Th | 0524 | 4.9 | 149 | | 25 F | 0606 | 4.5 | 137 |
| | 1212 | 1.0 | 30 | | | 0622 | 4.9 | 149 | | | 0625 | 4.4 | 134 | | | 0715 | 4.0 | 122 | | | 1138 | 0.6 | 18 | | | 1227 | 1.0 | 30 |
| | 1818 | 4.3 | 131 | | | 1237 | 0.6 | 18 | | | 1243 | 1.2 | 37 | | ○ | 1348 | 1.6 | 49 | | | 1745 | 4.5 | 137 | | | 1837 | 3.9 | 119 |
| | | | | | | 1848 | 4.5 | 137 | | | 1850 | 3.9 | 119 | | | 2006 | 3.3 | 101 | | | 2344 | 1.0 | 30 | | | | | |
| 11 Tu | 0024 | 1.1 | 34 | | 26 W | 0053 | 1.1 | 34 | | 11 F | 0048 | 1.6 | 49 | | 26 Sa | 0202 | 2.2 | 67 | | 11 F | 0552 | 4.5 | 137 | | 26 Sa | 0035 | 1.6 | 49 |
| | 0635 | 4.3 | 131 | | | 0705 | 4.4 | 134 | | | 0702 | 4.0 | 122 | | | 0835 | 3.4 | 104 | | | 1210 | 1.0 | 30 | | | 0648 | 3.9 | 119 |
| | 1248 | 1.2 | 37 | | | 1327 | 1.1 | 34 | | | 1330 | 1.6 | 49 | | | 1557 | 2.1 | 64 | | | 1818 | 4.0 | 122 | | | 1318 | 1.6 | 49 |
| | 1856 | 4.0 | 122 | | ● | 1940 | 3.9 | 119 | | ○ | 1942 | 3.4 | 104 | | | 2307 | 3.1 | 94 | | | | | | ○ | 1936 | 3.4 | 104 | |
| 12 W | 0100 | 1.5 | 46 | | 27 Th | 0142 | 1.6 | 49 | | 12 Sa | 0137 | 2.0 | 61 | | 27 Su | 0516 | 2.4 | 73 | | 12 Sa | 0015 | 1.4 | 43 | | 27 Su | 0134 | 2.2 | 67 |
| | 0714 | 4.0 | 122 | | | 0800 | 4.0 | 122 | | | 0803 | 3.5 | 107 | | | 1142 | 3.4 | 104 | | | 0627 | 4.1 | 125 | | | 0802 | 3.4 | 104 |
| | 1335 | 1.5 | 46 | | | 1437 | 1.6 | 49 | | | 1503 | 2.0 | 61 | | | 1833 | 1.8 | 55 | | | 1252 | 1.4 | 43 | | | 1512 | 2.1 | 64 |
| | 1945 | 3.6 | 110 | | | 2101 | 3.4 | 104 | | | 2148 | 3.1 | 94 | | | | | | | | 1904 | 3.5 | 107 | | | 2218 | 3.1 | 94 |
| 13 Th | 0147 | 1.8 | 55 | | 28 F | 0303 | 2.1 | 64 | | 13 Su | 0350 | 2.4 | 73 | | 28 M | 0103 | 3.5 | 107 | | 13 Su | 0100 | 1.9 | 58 | | 28 M | 0441 | 2.4 | 73 |
| | 0808 | 3.7 | 113 | | | 0934 | 3.6 | 110 | | | 1035 | 3.3 | 101 | | | 0702 | 1.9 | | | | | | | | | | | |

Diego Garcia Island, 2011

Times and Heights of High and Low Waters

| April | | | | May | | | | June | | | | | | | | | | | | | | | | | | |
|-----------------|--------|-----|------|-----------------|------|------|--------|-----------------|------|--------|-----|-----------------|--------|------|------|-----------------|------|-----|------|-----------------|------|-----|------|------|-----|-----|
| Time | Height | | Time | Height | | Time | Height | | Time | Height | | Time | Height | | | | | | | | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | | | | | | | | |
| 1 F | 0210 | 4.6 | 140 | 16 Sa | 0140 | 5.0 | 152 | 1 Su | 0159 | 4.7 | 143 | 16 M | 0151 | 5.1 | 155 | 1 W | 0230 | 4.8 | 146 | 16 Th | 0301 | 5.1 | 155 | | | |
| | 0817 | 0.7 | 21 | | 0752 | 0.2 | 6 | | 0811 | 0.5 | 15 | | 0809 | 0.0 | 0 | | 0847 | 0.4 | 12 | | 0920 | 0.2 | 6 | | | |
| | 1424 | 4.8 | 146 | | 1405 | 5.2 | 158 | | 1421 | 4.7 | 143 | | 1424 | 5.1 | 155 | | 1500 | 4.7 | 143 | | 1533 | 4.9 | 149 | 1533 | 4.9 | 149 |
| | 2030 | 0.6 | 18 | | 2011 | 0.2 | 6 | | 2023 | 0.8 | 24 | | 2026 | 0.5 | 15 | | 2059 | 0.9 | 27 | | 2133 | 0.6 | 18 | 2133 | 0.6 | 18 |
| 2 Sa | 0234 | 4.9 | 149 | 17 Su | 0217 | 5.4 | 165 | 2 M | 0226 | 4.9 | 149 | 17 Tu | 0232 | 5.3 | 162 | 2 Th | 0302 | 4.9 | 149 | 17 F | 0339 | 5.1 | 155 | | | |
| | 0842 | 0.4 | 12 | | 0830 | -0.2 | -6 | | 0839 | 0.3 | 9 | | 0849 | -0.1 | -3 | | 0920 | 0.3 | 9 | | 0957 | 0.2 | 6 | | | |
| | 1450 | 5.0 | 152 | | 1442 | 5.5 | 168 | | 1449 | 4.9 | 149 | | 1503 | 5.2 | 158 | | 1532 | 4.8 | 146 | | 1609 | 4.9 | 149 | 1609 | 4.9 | 149 |
| | 2054 | 0.4 | 12 | | 2048 | 0.0 | 0 | | 2050 | 0.6 | 18 | | 2105 | 0.4 | 12 | | 2131 | 0.8 | 24 | | 2210 | 0.6 | 18 | 2210 | 0.6 | 18 |
| 3 Su | 0258 | 5.1 | 155 | 18 M | 0253 | 5.6 | 171 | 3 Tu | 0253 | 5.0 | 152 | 18 W | 0310 | 5.4 | 165 | 3 F | 0335 | 5.0 | 152 | 18 Sa | 0416 | 5.0 | 152 | | | |
| | 0906 | 0.2 | 6 | | 0907 | -0.4 | -12 | | 0906 | 0.2 | 6 | | 0928 | -0.1 | -3 | | 0953 | 0.2 | 6 | | 1032 | 0.3 | 9 | | | |
| | 1514 | 5.2 | 158 | | 1519 | 5.6 | 171 | | 1517 | 5.0 | 152 | | 1541 | 5.1 | 155 | | 1605 | 4.8 | 146 | | 1644 | 4.8 | 146 | 1644 | 4.8 | 146 |
| | 2117 | 0.3 | 9 | | 2123 | 0.0 | 0 | | 2116 | 0.6 | 18 | | 2142 | 0.4 | 12 | | 2205 | 0.7 | 21 | | 2246 | 0.7 | 21 | 2246 | 0.7 | 21 |
| 4 M | 0321 | 5.2 | 158 | 19 Tu | 0328 | 5.7 | 174 | 4 W | 0320 | 5.1 | 155 | 19 Th | 0348 | 5.3 | 162 | 4 Sa | 0410 | 5.0 | 152 | 19 Su | 0452 | 4.9 | 149 | | | |
| | 0930 | 0.1 | 3 | | 0943 | -0.4 | -12 | | 0934 | 0.2 | 6 | | 1005 | 0.0 | 0 | | 1028 | 0.3 | 9 | | 1107 | 0.5 | 15 | | | |
| | 1538 | 5.2 | 158 | | 1554 | 5.5 | 168 | | 1544 | 4.9 | 149 | | 1618 | 5.0 | 152 | | 1640 | 4.8 | 146 | | 1718 | 4.7 | 143 | 1718 | 4.7 | 143 |
| | 2140 | 0.3 | 9 | | 2157 | 0.1 | 3 | | 2144 | 0.6 | 18 | | 2218 | 0.6 | 18 | | 2241 | 0.7 | 21 | | 2322 | 0.8 | 24 | 2322 | 0.8 | 24 |
| 5 Tu | 0344 | 5.3 | 162 | 20 W | 0403 | 5.6 | 171 | 5 Th | 0347 | 5.1 | 155 | 20 F | 0425 | 5.1 | 155 | 5 Su | 0448 | 4.9 | 149 | 20 M | 0528 | 4.7 | 143 | | | |
| | 0955 | 0.0 | 0 | | 1018 | -0.2 | -6 | | 1003 | 0.2 | 6 | | 1042 | 0.3 | 9 | | 1105 | 0.4 | 12 | | 1142 | 0.7 | 21 | | | |
| | 1603 | 5.1 | 155 | | 1630 | 5.2 | 158 | | 1613 | 4.9 | 149 | | 1654 | 4.8 | 146 | | 1717 | 4.7 | 143 | | 1753 | 4.5 | 137 | 1753 | 4.5 | 137 |
| | 2204 | 0.4 | 12 | | 2231 | 0.3 | 9 | | 2212 | 0.7 | 21 | | 2255 | 0.8 | 24 | | 2320 | 0.8 | 24 | | 2359 | 1.0 | 30 | 2359 | 1.0 | 30 |
| 6 W | 0408 | 5.2 | 158 | 21 Th | 0438 | 5.3 | 162 | 6 F | 0417 | 5.0 | 152 | 21 Sa | 0502 | 4.8 | 146 | 6 M | 0529 | 4.8 | 146 | 21 Tu | 0606 | 4.4 | 134 | | | |
| | 1020 | 0.1 | 3 | | 1054 | 0.1 | 3 | | 1034 | 0.3 | 9 | | 1120 | 0.6 | 18 | | 1146 | 0.6 | 18 | | 1218 | 1.0 | 30 | | | |
| | 1629 | 5.0 | 152 | | 1705 | 4.9 | 149 | | 1645 | 4.7 | 143 | | 1732 | 4.5 | 137 | | 1759 | 4.5 | 137 | | 1831 | 4.3 | 131 | 1831 | 4.3 | 131 |
| | 2229 | 0.5 | 15 | | 2306 | 0.7 | 21 | | 2244 | 0.8 | 24 | | 2334 | 1.1 | 34 | | | | | | | | | | | |
| 7 Th | 0433 | 5.1 | 155 | 22 F | 0513 | 4.9 | 149 | 7 Sa | 0450 | 4.9 | 149 | 22 Su | 0542 | 4.5 | 137 | 7 Tu | 0605 | 1.0 | 30 | 22 W | 0648 | 1.3 | 40 | | | |
| | 1047 | 0.3 | 9 | | 1131 | 0.5 | 15 | | 1108 | 0.5 | 15 | | 1200 | 0.9 | 27 | | 0616 | 4.5 | 137 | | 0648 | 4.1 | 125 | | | |
| | 1656 | 4.8 | 146 | | 1742 | 4.4 | 134 | | 1720 | 4.5 | 137 | | 1813 | 4.2 | 128 | | 1233 | 0.9 | 27 | | 1258 | 1.3 | 40 | 1258 | 1.3 | 40 |
| | 2255 | 0.7 | 21 | | 2342 | 1.1 | 34 | | 2320 | 1.0 | 30 | | | | | | 1848 | 4.3 | 131 | | 1913 | 4.0 | 122 | 1913 | 4.0 | 122 |
| 8 F | 0501 | 4.9 | 149 | 23 Sa | 0551 | 4.5 | 137 | 8 Su | 0529 | 4.6 | 140 | 23 M | 0617 | 1.4 | 43 | 8 W | 0659 | 1.1 | 34 | 23 Th | 0737 | 3.8 | 116 | | | |
| | 1117 | 0.5 | 15 | | 1211 | 1.0 | 30 | | 1149 | 0.8 | 24 | | 1245 | 1.3 | 40 | | 0713 | 4.2 | 128 | | 0737 | 3.8 | 116 | | | |
| | 1727 | 4.5 | 137 | | 1824 | 4.0 | 122 | | 1802 | 4.2 | 128 | | 1902 | 3.9 | 119 | | 1330 | 1.2 | 37 | | 1346 | 1.6 | 49 | 1346 | 1.6 | 49 |
| | 2325 | 1.0 | 30 | | | | | | | | | | | | 1947 | | 4.1 | 125 | 2005 | | 3.8 | 116 | 2005 | 3.8 | 116 | |
| 9 Sa | 0534 | 4.6 | 140 | 24 Su | 0625 | 1.6 | 49 | 9 M | 0605 | 1.3 | 40 | 24 Tu | 0722 | 3.7 | 113 | 9 Th | 0825 | 4.0 | 122 | 24 F | 0843 | 3.5 | 107 | | | |
| | 1153 | 0.9 | 27 | | 0636 | 3.9 | 119 | | 0616 | 4.3 | 131 | | 0722 | 3.7 | 113 | | 1440 | 1.5 | 46 | | 0843 | 3.5 | 107 | | | |
| | 1803 | 4.1 | 125 | | 1302 | 1.6 | 49 | | 1239 | 1.2 | 37 | | 1342 | 1.7 | 52 | | 2100 | 4.0 | 122 | | 1451 | 1.9 | 58 | 1451 | 1.9 | 58 |
| | | | | | 1921 | 3.5 | 107 | | 1856 | 3.9 | 119 | | 2005 | 3.6 | 110 | | | | | | 2113 | 3.7 | 113 | 2113 | 3.7 | 113 |
| 10 Su | 0614 | 4.2 | 128 | 25 M | 0747 | 3.5 | 107 | 10 Tu | 0722 | 3.9 | 119 | 25 W | 0840 | 3.5 | 107 | 10 F | 0952 | 3.9 | 119 | 25 Sa | 1011 | 3.4 | 104 | | | |
| | 1240 | 1.3 | 40 | | 1427 | 2.0 | 61 | | 1349 | 1.5 | 46 | | 1501 | 1.9 | 58 | | 1604 | 1.6 | 49 | | 1616 | 2.0 | 61 | | | |
| | 1854 | 3.7 | 113 | | 2105 | 3.3 | 101 | | 2013 | 3.7 | 113 | | 2129 | 3.5 | 107 | | 2223 | 4.0 | 122 | | 1616 | 2.0 | 61 | 1616 | 2.0 | 61 |
| | | | | | | | | | | | | | | | | | | | | | 2236 | 3.6 | 110 | 2236 | 3.6 | 110 |
| 11 M | 0657 | 1.8 | 55 | 26 Tu | 0830 | 2.2 | 67 | 11 W | 0857 | 3.7 | 113 | 26 Th | 1018 | 3.4 | 104 | 11 Sa | 1118 | 4.0 | 122 | 26 Su | 1140 | 3.5 | 107 | | | |
| | 0717 | 3.7 | 113 | | 1000 | 3.3 | 101 | | 1526 | 1.7 | 52 | | 1632 | 1.9 | 58 | | 1725 | 1.5 | 46 | | 1140 | 3.5 | 107 | | | |
| | 1357 | 1.8 | 55 | | 1639 | 2.0 | 61 | | 2151 | 3.7 | 113 | | 2253 | 3.6 | 110 | | 2339 | 4.2 | 128 | | 1740 | 1.9 | 58 | 1740 | 1.9 | 58 |
| | 2028 | 3.3 | 101 | | 2310 | 3.4 | 104 | | | | | | | | | | | | | | 2351 | 3.8 | 116 | 2351 | 3.8 | 116 |
| 12 Tu | 0245 | 2.1 | 64 | 27 W | 0530 | 2.0 | 61 | 12 Th | 0416 | 1.6 | 49 | 27 F | 0520 | 1.7 | 52 | 12 Su | 0607 | 1.0 | 30 | 27 M | 0624 | 1.4 | 43 | | | |
| | 0922 | 3.5 | 107 | | 1146 | 3.5 | 107 | | 1040 | 3.8 | 116 | | 1138 | 3.6 | 110 | | 1229 | 4.2 | 128 | | 1246 | 3.7 | 113 | | | |
| | 1614 | 1.9 | 58 | | 1802 | 1.8 | 55 | | 1659 | 1.5 | 46 | | 1744 | 1.8 | 55 | | 1832 | 1.3 | 40 | | 1843 | 1.7 | 52 | 1843 | 1.7 | 52 |
| | 2248 | 3.4 | 104 | | | | | | 2316 | 4.0 | 122 | | 2356 | 3.8 | 116 | | | | | | | | | | | |
| 13 W | 0506 | 1.9 | 58 | 28 Th | 0616 | 3.7 | 113 | 13 F | 0537 | 1.2 | 37 | 28 Sa | 0618 | 1.4 | 43 | 13 M | 0706 | 0.7 | 21 | 28 Tu | 0715 | 1.1 | 34 | | | |
| | 1128 | 3.8 | 116 | | 0630 | 1.6 | 49 | | 1158 | 4.2 | 128 | | 1235 | 3.9 | 119 | | 1325 | 4.5 | 137 | | 0715 | 1.1 | 34 | | | |
| | 1753 | 1.5 | 46 | | 1242 | 3.9 | 119 | | 1808 | 1.2 | 37 | | 1837 | 1.6 | 49 | | 1926 | 1.1 | 34 | | 1334 | 4.0 | 122 | 1334 | 4.0 | 122 |
| | | | | | 1849 | 1.4 | 43 | | | | | | | | | | | | | | 1931 | 1.5 | 46 | 1931 | 1.5 | 46 |
| 14 Th | 0009 | 3.9 | 119 | 29 F | 0058 | 4.1 | 125 | 14 Sa | 0018 | 4.4 | 134 | 29 Su | 0043 | 4.1 | 125 | 14 Tu | 0134 | 4.8 | 146 | 29 W | 0135 | 4.3 | 131 | | | |
| | 0620 | 1.3 | 40 | | 0710 | 1.2 | 37 | | 0637 | 0.8 | 24 | | 0703 | 1.1 | 34 | | 0756 | 0.4 | 12 | | 0758 | 0.8 | 24 | | | |
| | 1236 | 4.3 | 131 | | 1320 | 4.2 | 128 | | 1254 | 4.6 | 140 | | 1318 | 4.1 | 125 | | 1413 | 4.7 | 143 | | 1414 | 4.3 | 131 | | | |
| | 1849 | 1.0 | 30 | | 1925 | 1.2 | 37 | | 1901 | 0.9 | 27 | | 1918 | 1.3 | 40 | | 2013 | 0.9 | 27 | | 2012 | 1.2 | 37 | 2012 | 1.2 | 37 |
| 15 F | 0059 | 4.5 | 137 | 30 Sa | 0130 | 4.4 | 134 | 15 Su | 0108 | 4.8 | 146 | 30 M | 0122 | 4.4 | 134 | 15 W | 0219 | 5.0 | 152 | 30 Th | 0215 | 4.6 | 140 | | | |
| | 0710 | 0.7 | 21 | | 0742 | 0.8 | 24 | | 0726 | 0.3 | 9 | | | | | | | | | | | | | | | |

Diego Garcia Island, 2011

Times and Heights of High and Low Waters

| July | | | | August | | | | September | | | | | | | | | | | |
|-----------------|--------|-----|-----------------|-----------------|------|------|----------------|-----------------|------|--------|-----------------|-----------------|--------|------|----------------|-----------------|------|-----|-----|
| Time | Height | | Time | Height | | Time | Height | | Time | Height | | Time | Height | | | | | | |
| | h | m | ft | cm | | h | m | ft | cm | | h | m | ft | cm | | | | | |
| 1 F | 0252 | 4.9 | 149 | 16 Sa | 0332 | 5.1 | 155 | 1 M | 0353 | 5.5 | 168 | 16 Tu | 0413 | 5.2 | 158 | | | | |
| | 0911 | 0.3 | 9 | | 0947 | 0.2 | 6 | | 1005 | -0.1 | -3 | | 1019 | 0.2 | 6 | 1050 | 0.0 | 0 | |
| | 1523 | 4.8 | 146 | | 1557 | 4.9 | 149 | | 1614 | 5.4 | 165 | | 1626 | 5.2 | 158 | 1657 | 5.5 | 168 | |
| | 2123 | 0.7 | 21 | | 2159 | 0.5 | 15 | | 2220 | 0.0 | 0 | | 2233 | 0.2 | 6 | 2310 | -0.1 | -3 | |
| 2 Sa | 0329 | 5.1 | 155 | 17 Su | 0405 | 5.1 | 155 | 2 Tu | 0429 | 5.5 | 168 | 17 W | 0439 | 5.1 | 155 | 2 F | 0520 | 5.2 | 158 |
| | 0945 | 0.2 | 6 | | 1017 | 0.2 | 6 | | 1039 | -0.1 | -3 | | 1044 | 0.3 | 9 | | 1124 | 0.4 | 12 |
| | 1557 | 4.9 | 149 | | 1626 | 5.0 | 152 | | 1648 | 5.4 | 165 | | 1651 | 5.1 | 155 | | 1732 | 5.2 | 158 |
| | 2158 | 0.5 | 15 | | 2230 | 0.5 | 15 | | 2256 | 0.0 | 0 | | 2259 | 0.3 | 9 | | 2348 | 0.3 | 9 |
| 3 Su | 0405 | 5.2 | 158 | 18 M | 0436 | 5.0 | 152 | 3 W | 0506 | 5.4 | 165 | 18 Th | 0505 | 4.9 | 149 | 3 Sa | 0559 | 4.7 | 143 |
| | 1020 | 0.1 | 3 | | 1046 | 0.3 | 9 | | 1114 | 0.1 | 3 | | 1109 | 0.5 | 15 | | 1200 | 0.9 | 27 |
| | 1631 | 5.0 | 152 | | 1655 | 4.9 | 149 | | 1723 | 5.3 | 162 | | 1716 | 4.9 | 149 | | 1810 | 4.7 | 143 |
| | 2235 | 0.4 | 12 | | 2300 | 0.5 | 15 | | 2334 | 0.1 | 3 | | 2326 | 0.5 | 15 | | 2348 | 0.3 | 9 |
| 4 M | 0443 | 5.2 | 158 | 19 Tu | 0506 | 4.9 | 149 | 4 Th | 0544 | 5.1 | 155 | 19 F | 0532 | 4.7 | 143 | 4 Su | 0630 | 0.8 | 24 |
| | 1057 | 0.2 | 6 | | 1115 | 0.5 | 15 | | 1151 | 0.4 | 12 | | 1135 | 0.8 | 24 | | 0642 | 4.1 | 125 |
| | 1707 | 5.0 | 152 | | 1724 | 4.8 | 146 | | 1800 | 5.0 | 152 | | 1743 | 4.7 | 143 | | 1743 | 4.7 | 143 |
| | 2313 | 0.4 | 12 | | 2331 | 0.7 | 21 | | 2355 | 0.8 | 24 | | 2355 | 0.8 | 24 | | 1855 | 4.1 | 125 |
| 5 Tu | 0522 | 5.1 | 155 | 20 W | 0537 | 4.7 | 143 | 5 F | 0602 | 4.3 | 131 | 20 Sa | 0602 | 4.3 | 131 | 5 M | 0743 | 3.5 | 107 |
| | 1135 | 0.3 | 9 | | 1144 | 0.7 | 21 | | 0625 | 4.7 | 143 | | 1202 | 1.2 | 37 | | 1342 | 2.0 | 61 |
| | 1745 | 4.9 | 149 | | 1754 | 4.7 | 143 | | 1230 | 0.8 | 24 | | 1812 | 4.4 | 134 | | 2009 | 3.6 | 110 |
| | 2354 | 0.5 | 15 | | 1841 | 4.7 | 143 | | 1841 | 4.7 | 143 | | 1812 | 4.4 | 134 | | 2009 | 3.6 | 110 |
| 6 W | 0605 | 4.9 | 149 | 21 Th | 0603 | 0.9 | 27 | 6 Sa | 0714 | 4.2 | 128 | 21 Su | 0636 | 3.9 | 119 | 6 Tu | 0310 | 1.9 | 58 |
| | 1216 | 0.6 | 18 | | 0609 | 4.4 | 134 | | 0714 | 4.2 | 128 | | 1614 | 2.3 | 70 | | 1002 | 3.2 | 98 |
| | 1827 | 4.7 | 143 | | 1215 | 1.0 | 30 | | 1316 | 1.4 | 43 | | 1847 | 4.0 | 122 | | 1614 | 2.3 | 70 |
| | | | | | 1825 | 4.4 | 134 | | 1932 | 4.2 | 128 | | 1847 | 4.0 | 122 | | 2250 | 3.4 | 104 |
| 7 Th | 0040 | 0.7 | 21 | 22 F | 0038 | 1.1 | 34 | 7 Su | 0201 | 1.3 | 40 | 22 M | 0113 | 1.6 | 49 | 7 W | 0548 | 1.8 | 55 |
| | 0652 | 4.5 | 137 | | 0645 | 4.1 | 125 | | 0820 | 3.6 | 110 | | 0724 | 3.4 | 104 | | 1222 | 3.5 | 107 |
| | 1302 | 1.0 | 30 | | 1249 | 1.3 | 40 | | 1422 | 1.9 | 58 | | 1319 | 2.0 | 61 | | 1825 | 2.0 | 61 |
| | 1915 | 4.5 | 137 | | 1902 | 4.1 | 125 | | 2046 | 3.8 | 116 | | 1942 | 3.6 | 110 | | 1942 | 3.6 | 110 |
| 8 F | 0134 | 1.0 | 30 | 23 Sa | 0120 | 1.4 | 43 | 8 M | 0338 | 1.7 | 52 | 23 Tu | 0234 | 2.0 | 61 | 8 Th | 0034 | 3.8 | 116 |
| | 0749 | 4.1 | 125 | | 0729 | 3.7 | 113 | | 1016 | 3.3 | 101 | | 0910 | 3.1 | 94 | | 0700 | 1.4 | 43 |
| | 1357 | 1.4 | 43 | | 1331 | 1.7 | 52 | | 1621 | 2.1 | 64 | | 1511 | 2.4 | 73 | | 1316 | 3.9 | 119 |
| | 2014 | 4.2 | 128 | | 1948 | 3.8 | 116 | | 2249 | 3.6 | 110 | | 2157 | 3.3 | 101 | | 1919 | 1.5 | 46 |
| 9 Sa | 0243 | 1.3 | 40 | 24 Su | 0219 | 1.7 | 52 | 9 Tu | 0544 | 1.6 | 49 | 24 W | 0515 | 2.0 | 61 | 9 F | 0125 | 4.2 | 128 |
| | 0904 | 3.8 | 116 | | 0835 | 3.4 | 104 | | 1219 | 3.5 | 107 | | 1159 | 3.3 | 101 | | 0741 | 1.0 | 30 |
| | 1511 | 1.7 | 52 | | 1435 | 2.1 | 64 | | 1820 | 1.9 | 58 | | 1757 | 2.2 | 67 | | 1351 | 4.4 | 134 |
| | 2133 | 3.9 | 119 | | 2101 | 3.5 | 107 | | | | | | | | 1955 | | 1.0 | 30 | |
| 10 Su | 0413 | 1.4 | 43 | 25 M | 0355 | 1.9 | 58 | 10 W | 0031 | 3.9 | 119 | 25 Th | 0008 | 3.6 | 110 | 10 Sa | 0201 | 4.6 | 140 |
| | 1042 | 3.6 | 110 | | 1031 | 3.2 | 98 | | 0704 | 1.3 | 40 | | 0642 | 1.5 | 46 | | 0812 | 0.7 | 21 |
| | 1647 | 1.8 | 55 | | 1631 | 2.2 | 67 | | 1325 | 3.9 | 119 | | 1303 | 3.7 | 113 | | 1420 | 4.7 | 143 |
| | 2306 | 3.9 | 119 | | 2255 | 3.5 | 107 | | 1925 | 1.5 | 46 | | 1901 | 1.7 | 52 | | 2024 | 0.6 | 18 |
| 11 M | 0547 | 1.3 | 40 | 26 Tu | 0548 | 1.8 | 55 | 11 Th | 0131 | 4.3 | 131 | 26 F | 0108 | 4.1 | 125 | 11 Su | 0231 | 4.9 | 149 |
| | 1215 | 3.8 | 116 | | 1221 | 3.4 | 104 | | 0753 | 0.9 | 27 | | 0728 | 1.0 | 30 | | 0839 | 0.4 | 12 |
| | 1816 | 1.7 | 52 | | 1817 | 2.0 | 61 | | 1407 | 4.3 | 131 | | 1341 | 4.3 | 131 | | 1445 | 5.0 | 152 |
| | | | | | | | | | 2008 | 1.1 | 34 | | 1942 | 1.1 | 34 | | 2050 | 0.4 | 12 |
| 12 Tu | 0028 | 4.1 | 125 | 27 W | 0025 | 3.8 | 116 | 12 F | 0214 | 4.6 | 140 | 27 Sa | 0149 | 4.7 | 143 | 12 M | 0257 | 5.1 | 155 |
| | 0700 | 1.0 | 30 | | 0658 | 1.4 | 43 | | 0830 | 0.6 | 18 | | 0805 | 0.5 | 15 | | 0904 | 0.3 | 9 |
| | 1321 | 4.1 | 125 | | 1320 | 3.8 | 116 | | 1441 | 4.7 | 143 | | 1415 | 4.8 | 146 | | 1509 | 5.2 | 158 |
| | 1921 | 1.4 | 43 | | 1917 | 1.7 | 52 | | 2042 | 0.7 | 21 | | 2018 | 0.5 | 15 | | 2115 | 0.2 | 6 |
| 13 W | 0129 | 4.4 | 134 | 28 Th | 0122 | 4.2 | 128 | 13 Sa | 0248 | 4.9 | 149 | 28 Su | 0226 | 5.2 | 158 | 13 Tu | 0322 | 5.2 | 158 |
| | 0753 | 0.7 | 21 | | 0745 | 1.0 | 30 | | 0901 | 0.4 | 12 | | 0838 | 0.1 | 3 | | 0927 | 0.2 | 6 |
| | 1411 | 4.4 | 134 | | 1401 | 4.2 | 128 | | 1510 | 4.9 | 149 | | 1447 | 5.2 | 158 | | 1532 | 5.3 | 162 |
| | 2010 | 1.1 | 34 | | 2000 | 1.2 | 37 | | 2112 | 0.5 | 15 | | 2052 | 0.1 | 3 | | 2139 | 0.1 | 3 |
| 14 Th | 0216 | 4.7 | 143 | 29 F | 0205 | 4.6 | 140 | 14 Su | 0318 | 5.1 | 155 | 29 M | 0301 | 5.5 | 168 | 14 W | 0347 | 5.3 | 162 |
| | 0837 | 0.5 | 15 | | 0823 | 0.6 | 18 | | 0929 | 0.2 | 6 | | 0911 | -0.1 | -3 | | 0950 | 0.2 | 6 |
| | 1450 | 4.6 | 140 | | 1436 | 4.6 | 140 | | 1536 | 5.1 | 155 | | 1518 | 5.5 | 168 | | 1555 | 5.3 | 162 |
| | 2051 | 0.8 | 24 | | 2036 | 0.8 | 24 | | 2140 | 0.3 | 9 | | 2125 | -0.2 | -6 | | 2204 | 0.1 | 3 |
| 15 F | 0257 | 4.9 | 149 | 30 Sa | 0242 | 5.0 | 152 | 15 M | 0346 | 5.2 | 158 | 30 Tu | 0335 | 5.7 | 174 | 15 Th | 0411 | 5.2 | 158 |
| | 0913 | 0.3 | 9 | | 0858 | 0.2 | 6 | | 0955 | 0.2 | 6 | | 0944 | -0.3 | -9 | | 1013 | 0.3 | 9 |
| | 1525 | 4.8 | 146 | | 1509 | 5.0 | 152 | | 1601 | 5.2 | 158 | | 1551 | 5.7 | 174 | | 1618 | 5.2 | 158 |
| | 2126 | 0.6 | 18 | | 2111 | 0.4 | 12 | | 2207 | 0.2 | 6 | | 2159 | -0.4 | -12 | | 2228 | 0.2 | 6 |
| | | | 31 Su | 0318 | 5.3 | 162 | 31 W | 0409 | 5.7 | 174 | 31 Th | 0409 | 5.7 | 174 | 30 F | 0424 | 5.5 | 168 | |
| | | | | 0932 | 0.0 | 0 | | 1017 | -0.2 | -6 | | 1623 | 5.7 | 174 | | 1027 | 0.1 | 3 | |
| | | | | 1541 | 5.2 | 158 | | | | | | 2234 | -0.3 | -9 | 1633 | 5.5 | 168 | | |
| | | | | 2145 | 0.1 | 3 | | | | | | | | | 2248 | -0.2 | -6 | | |

Time meridian 90° E. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
 Heights are referred to the chart datum of soundings.

Diego Garcia Island, 2011

Times and Heights of High and Low Waters

| October | | | | November | | | | December | | | | | | | | | | | | | | | | | | | | |
|-----------------|--------|-----|------|----------|-----------------|------|--------|----------|-----------------|--------|------|------|-----------------|------|-----|------|-----------------|------|-----|-----|-----------------|------|-----|-----|--|------|-----|-----|
| Time | Height | | Time | Height | | Time | Height | | Time | Height | | Time | Height | | | | | | | | | | | | | | | |
| | h | m | ft | cm | h | m | ft | cm | h | m | ft | cm | h | m | ft | cm | | | | | | | | | | | | |
| 1 Sa | 0459 | 5.1 | 155 | | 16 Su | 0439 | 4.7 | 143 | 1 Tu | 0606 | 4.1 | 125 | 16 W | 0538 | 4.3 | 131 | 1 Th | 0024 | 1.1 | 34 | 16 F | 0002 | 0.8 | 24 | | | | |
| | 1101 | 0.4 | 12 | | | 1037 | 0.8 | 24 | | | 1208 | 1.4 | | 43 | | 1140 | | 1.2 | 37 | | | 0638 | 4.0 | 122 | | 0614 | 4.5 | 137 |
| | 1709 | 5.2 | 158 | | | 1643 | 4.8 | 146 | | | 1819 | 4.1 | | 125 | | 1749 | | 4.3 | 131 | | | 1247 | 1.5 | 46 | | 1223 | 1.0 | 30 |
| | 2326 | 0.3 | 9 | | | 2259 | 0.6 | 18 | | | | | | | | | | | | | | 1857 | 3.9 | 119 | | 1835 | 4.4 | 134 |
| 2 Su | 0537 | 4.6 | 140 | | 17 M | 0508 | 4.5 | 137 | 2 W | 0043 | 1.4 | 43 | 17 Th | 0010 | 1.1 | 34 | 2 F | 0114 | 1.5 | 46 | 17 Sa | 0049 | 1.1 | 34 | | | | |
| | 1137 | 0.9 | 27 | | | 1106 | 1.1 | 34 | | | 0701 | 3.7 | | 113 | | 0625 | | 4.0 | 122 | | | 0734 | 3.7 | 113 | | 0704 | 4.2 | 128 |
| | 1746 | 4.6 | 140 | | | 1713 | 4.5 | 137 | | | 1308 | 1.9 | | 58 | | 1231 | | 1.5 | 46 | | | 1350 | 1.8 | 55 | | 1319 | 1.2 | 37 |
| | | | | | | 2332 | 0.9 | 27 | | | 1925 | 3.6 | | 110 | | 1845 | | 4.0 | 122 | | | 2005 | 3.5 | 107 | | 1935 | 4.1 | 125 |
| 3 M | 0007 | 0.9 | 27 | | 18 Tu | 0543 | 4.1 | 125 | 3 Th | 0200 | 1.9 | 58 | 18 F | 0109 | 1.5 | 46 | 3 Sa | 0224 | 1.9 | 58 | 18 Su | 0148 | 1.4 | 43 | | | | |
| | 0619 | 4.1 | 125 | | | 1141 | 1.4 | 43 | | | 0833 | 3.4 | | 104 | | 0729 | | 3.8 | 116 | | | 0850 | 3.5 | 107 | | 0807 | 4.0 | 122 |
| | 1218 | 1.5 | 46 | | | 1751 | 4.2 | 128 | | | 1457 | 2.1 | | 64 | | 1345 | | 1.7 | 52 | | | 1521 | 1.9 | 58 | | 1433 | 1.4 | 43 |
| | 1831 | 4.1 | 125 | | | | | | | | 2126 | 3.3 | | 101 | | 2007 | | 3.7 | 113 | | | 2144 | 3.4 | 104 | | 2055 | 3.8 | 116 |
| 4 Tu | 0100 | 1.5 | 46 | | 19 W | 0015 | 1.3 | 40 | 4 F | 0405 | 2.0 | 61 | 19 Sa | 0235 | 1.7 | 52 | 4 Su | 0359 | 2.0 | 61 | 19 M | 0308 | 1.7 | 52 | | | | |
| | 0718 | 3.5 | 107 | | | 0629 | 3.7 | 113 | | | 1039 | 3.4 | | 104 | | 0901 | | 3.7 | 113 | | | 1024 | 3.5 | 107 | | 0930 | 3.9 | 119 |
| | 1320 | 2.0 | 61 | | | 1230 | 1.8 | 55 | | | 1703 | 2.0 | | 61 | | 1529 | | 1.7 | 52 | | | 1657 | 1.8 | 55 | | 1606 | 1.4 | 43 |
| | 1944 | 3.5 | 107 | | | 1847 | 3.7 | 113 | | | 2322 | 3.5 | | 107 | | 2155 | | 3.7 | 113 | | | 2320 | 3.5 | 107 | | 2233 | 3.7 | 113 |
| 5 W | 0241 | 2.0 | 61 | | 20 Th | 0123 | 1.8 | 55 | 5 Sa | 0539 | 1.8 | 55 | 20 Su | 0417 | 1.7 | 52 | 5 M | 0526 | 1.9 | 58 | 20 Tu | 0442 | 1.7 | 52 | | | | |
| | 0934 | 3.2 | 98 | | | 0750 | 3.4 | 104 | | | 1154 | 3.7 | | 113 | | 1037 | | 3.8 | 116 | | | 1139 | 3.7 | 113 | | 1100 | 4.0 | 122 |
| | 1557 | 2.3 | 70 | | | 1404 | 2.1 | 64 | | | 1811 | 1.6 | | 49 | | 1703 | | 1.4 | 43 | | | 1806 | 1.5 | 46 | | 1735 | 1.2 | 37 |
| | 2233 | 3.3 | 101 | | | 2039 | 3.4 | 104 | | | | | | | | 2325 | | 4.0 | 122 | | | | | | | | | |
| 6 Th | 0522 | 1.9 | 58 | | 21 F | 0331 | 2.0 | 61 | 6 Su | 0024 | 3.9 | 119 | 21 M | 0536 | 1.4 | 43 | 6 Tu | 0024 | 3.7 | 113 | 21 W | 0000 | 4.0 | 122 | | | | |
| | 1153 | 3.4 | 104 | | | 1010 | 3.4 | 104 | | | 0631 | 1.5 | | 46 | | 1148 | | 4.2 | 128 | | | 0626 | 1.7 | 52 | | 0604 | 1.5 | 46 |
| | 1803 | 1.9 | 58 | | | 1631 | 2.0 | 61 | | | 1239 | 4.1 | | 125 | | 1810 | | 0.9 | 27 | | | 1233 | 4.0 | 122 | | 1215 | 4.3 | 131 |
| | | | | | | 2256 | 3.6 | 110 | | | 1853 | 1.2 | | 37 | | | | | | | | 1854 | 1.2 | 37 | | 1844 | 0.9 | 27 |
| 7 F | 0015 | 3.7 | 113 | | 22 Sa | 0522 | 1.7 | 52 | 7 M | 0105 | 4.2 | 128 | 22 Tu | 0028 | 4.4 | 134 | 7 W | 0111 | 4.0 | 122 | 22 Th | 0105 | 4.3 | 131 | | | | |
| | 0633 | 1.5 | 46 | | | 1140 | 3.8 | 116 | | | 0709 | 1.2 | | 37 | | 0634 | | 1.1 | 34 | | | 0710 | 1.5 | 46 | | 0706 | 1.2 | 37 |
| | 1247 | 3.9 | 119 | | | 1753 | 1.4 | 43 | | | 1314 | 4.4 | | 134 | | 1242 | | 4.6 | 140 | | | 1314 | 4.3 | 131 | | 1314 | 4.6 | 140 |
| | 1854 | 1.4 | 43 | | | | | | | | 1927 | 0.8 | | 24 | | 1902 | | 0.5 | 15 | | | 1933 | 0.9 | 27 | | 1938 | 0.5 | 15 |
| 8 Sa | 0103 | 4.1 | 125 | | 23 Su | 0009 | 4.1 | 125 | 8 Tu | 0138 | 4.5 | 137 | 23 W | 0118 | 4.8 | 146 | 8 Th | 0148 | 4.3 | 131 | 23 F | 0155 | 4.6 | 140 | | | | |
| | 0713 | 1.2 | 37 | | | 0622 | 1.2 | 37 | | | 0740 | 1.0 | | 30 | | 0722 | | 0.8 | 24 | | | 0747 | 1.2 | 37 | | 0756 | 0.9 | 27 |
| | 1322 | 4.3 | 131 | | | 1232 | 4.3 | 131 | | | 1344 | 4.7 | | 143 | | 1328 | | 5.0 | 152 | | | 1350 | 4.5 | 137 | | 1403 | 4.9 | 149 |
| | 1929 | 1.0 | 30 | | | 1844 | 0.8 | 24 | | | 1957 | 0.6 | | 18 | | 1947 | | 0.1 | 3 | | | 2007 | 0.7 | 21 | | 2024 | 0.2 | 6 |
| 9 Su | 0137 | 4.5 | 137 | | 24 M | 0058 | 4.7 | 143 | 9 W | 0208 | 4.7 | 143 | 24 Th | 0202 | 5.0 | 152 | 9 F | 0221 | 4.5 | 137 | 24 Sa | 0239 | 4.9 | 149 | | | | |
| | 0744 | 0.9 | 27 | | | 0707 | 0.7 | 21 | | | 0809 | 0.8 | | 24 | | 0804 | | 0.5 | 15 | | | 0820 | 1.0 | 30 | | 0839 | 0.7 | 21 |
| | 1350 | 4.6 | 140 | | | 1314 | 4.8 | 146 | | | 1412 | 4.9 | | 149 | | 1410 | | 5.3 | 162 | | | 1422 | 4.7 | 143 | | 1446 | 5.2 | 158 |
| | 1958 | 0.6 | 18 | | | 1926 | 0.3 | 9 | | | 2025 | 0.4 | | 12 | | 2028 | | -0.1 | -3 | | | 2039 | 0.4 | 12 | | 2105 | 0.0 | 0 |
| 10 M | 0206 | 4.8 | 146 | | 25 Tu | 0140 | 5.1 | 155 | 10 Th | 0236 | 4.8 | 146 | 25 F | 0243 | 5.2 | 158 | 10 Sa | 0252 | 4.7 | 143 | 25 Su | 0318 | 5.0 | 152 | | | | |
| | 0811 | 0.6 | 18 | | | 0746 | 0.4 | 12 | | | 0836 | 0.7 | | 21 | | 0844 | | 0.3 | 9 | | | 0851 | 0.9 | 27 | | 0919 | 0.5 | 15 |
| | 1416 | 4.9 | 149 | | | 1352 | 5.3 | 162 | | | 1439 | 5.0 | | 152 | | 1450 | | 5.4 | 165 | | | 1453 | 4.9 | 149 | | 1525 | 5.3 | 162 |
| | 2024 | 0.4 | 12 | | | 2005 | -0.1 | -3 | | | 2052 | 0.2 | | 6 | | 2108 | | -0.2 | -6 | | | 2110 | 0.3 | 9 | | 2142 | 0.0 | 0 |
| 11 Tu | 0232 | 5.0 | 152 | | 26 W | 0218 | 5.4 | 165 | 11 F | 0303 | 4.9 | 149 | 26 Sa | 0321 | 5.2 | 158 | 11 Su | 0322 | 4.8 | 146 | 26 M | 0354 | 5.1 | 155 | | | | |
| | 0836 | 0.5 | 15 | | | 0823 | 0.1 | 3 | | | 0902 | 0.6 | | 18 | | 0923 | | 0.3 | 9 | | | 0921 | 0.8 | 24 | | 0956 | 0.4 | 12 |
| | 1440 | 5.1 | 155 | | | 1428 | 5.6 | 171 | | | 1505 | 5.1 | | 155 | | 1529 | | 5.4 | 165 | | | 1524 | 5.0 | 152 | | 1602 | 5.3 | 162 |
| | 2049 | 0.2 | 6 | | | 2043 | -0.4 | -12 | | | 2120 | 0.2 | | 6 | | 2147 | | -0.2 | -6 | | | 2141 | 0.2 | 6 | | 2218 | 0.1 | 3 |
| 12 W | 0257 | 5.1 | 155 | | 27 Th | 0255 | 5.6 | 171 | 12 Sa | 0330 | 4.9 | 149 | 27 Su | 0359 | 5.2 | 158 | 12 M | 0353 | 4.8 | 146 | 27 Tu | 0429 | 5.1 | 155 | | | | |
| | 0900 | 0.4 | 12 | | | 0859 | 0.0 | 0 | | | 0929 | 0.6 | | 18 | | 1000 | | 0.4 | 12 | | | 0952 | 0.7 | 21 | | 1031 | 0.5 | 15 |
| | 1503 | 5.2 | 158 | | | 1504 | 5.7 | 174 | | | 1533 | 5.1 | | 155 | | 1607 | | 5.3 | 162 | | | 1556 | 5.0 | 152 | | 1638 | 5.1 | 155 |
| | 2113 | 0.1 | 3 | | | 2119 | -0.5 | -15 | | | 2148 | 0.2 | | 6 | | 2224 | | 0.0 | 0 | | | 2212 | 0.2 | 6 | | 2252 | 0.2 | 6 |
| 13 Th | 0322 | 5.2 | 158 | | 28 F | 0332 | 5.5 | 168 | 13 Su | 0358 | 4.9 | 149 | 28 M | 0437 | 5.0 | 152 | 13 Tu | 0424 | 4.8 | 146 | 28 W | 0502 | 4.9 | 149 | | | | |
| | 0923 | 0.4 | 12 | | | 0934 | 0.0 | 0 | | | 0957 | 0.7 | | 21 | | 1038 | | 0.6 | 18 | | | 1024 | 0.7 | 21 | | 1106 | 0.6 | 18 |
| | 1527 | 5.2 | 158 | | | 1540 | 5.7 | 174 | | | 1601 | 5.0 | | 152 | | 1645 | | 5.0 | 152 | | | 1630 | 5.0 | 152 | | 1713 | 4.9 | 149 |
| | 2138 | 0.1 | 3 | | | 2156 | -0.4 | -12 | | | 2217 | 0.3 | | 9 | | 2302 | | 0.4 | 12 | | | 2246 | 0.3 | 9 | | 2324 | 0.5 | 15 |
| 14 F | 0347 | 5.1 | 155 | | 29 Sa | 0408 | 5.3 | 162 | 14 M | 0428 | 4.7 | 143 | 29 Tu | 0514 | 4.7 | 143 | 14 W | 0457 | 4.8 | 146 | 29 Th | 0535 | 4.7 | 143 | | | | |
| | 0947 | 0.4 | 12 | | | 1009 | 0.2 | 6 | | | 1027 | 0.8 | | 24 | | 1117 | | 0.9 | 27 | | | 1059 | 0.7 | 21 | | 1141 | 0.8 | 24 |
| | 1551 | 5.2 | 158 | | | 1616 | 5.4 | 165 | | | 1632 | 4.9 | | 149 | | 1724 | | 4.7 | 143 | | | 1706 | 4.9 | 149 | | 1747 | 4. | |

TABLE 2. - TIDAL DIFFERENCES AND OTHER CONSTANTS

EXPLANATION OF TABLE

The publication of full daily predictions is necessarily limited to a comparatively small number of stations. Tide predictions for many other places, however, can be obtained by applying certain differences to the predictions for the reference stations in table 1. The following pages list the places called "subordinate stations" for which such predictions can be made, and the differences or ratios to be used. These differences or ratios are to be applied to the predictions for the proper reference station which is listed in table 2 in boldface type above the differences for the subordinate station. The stations in this table are arranged in geographical order. The index to stations at the end of this volume will assist in locating a particular station.

Time differences.—To determine the time of high water or low water at any station listed in this table there is given in the columns headed "Differences, Time" the hours and minutes to be added to or subtracted from the time of high or low water at some reference station. A plus (+) sign indicates that the tide at the subordinate station is later than at the reference station and the difference should be added; a minus (–) sign indicates that it is earlier and should be subtracted.

To obtain the tide at a subordinate station on any date, apply the difference to the tide at the reference station for that same date. In some cases, however, to obtain an a.m. tide it may be necessary to use the preceding day's p.m. tide at the reference station (or to obtain a p.m. tide it may be necessary to use the following day's a.m. tide). For example, if a high water at a reference station occurs at 0200 on July 17, and the tide at the subordinate station occurs 5 hour earlier, the high water at the subordinate station will occur at 2100 on July 16. For the second case, if a high water occurs at a reference station at 2200 on July 2, and the tide at the subordinate station occurs 3 hours later, then high water will occur at 0100 on July 3 at the subordinate station. The necessary allowance for change in date when the international date line is crossed is included in the time difference. In such cases use the same date at the reference station as desired for the subordinate station as explained above.

The results obtained by the application of the time differences will be in the kind of time indicated by the time meridian shown above the name of the subordinate station. Summer or daylight-saving time is not used in the tide tables.

Height differences.—The height of the tide, referred to the datum of charts, is obtained by means of the height differences or ratios. A plus (+) sign indicates that the difference should be added to the height at the reference station, and a minus (–) sign indicates that it should be subtracted. All height differences, ranges, and levels in Table 2 are in feet but may be converted to centimeters by the use of table 6.

Ratio. — For some stations, use of predicted height difference would give unsatisfactory predictions. In such cases they have been omitted and one or two ratios are given (*). Where two ratios are given, one in the "height of high water" column and one in the "height of low water" column, the high waters and low waters at the reference station should be multiplied by these respective ratios. Where only one is given, the omitted ratio is either unreliable or unknown. For some subordinate stations there is given in parentheses a ratio as well as a correction in feet. In those instances, each predicted high and low water at the reference station should first be multiplied by the ratio and then the correction in feet is added to or subtracted from each product as indicated.

As an example, at Porto Grande, the values in the time and height difference columns in Table 2 are given as –1 02, –0 13, and (*0.73 + 0.7) as referred to the reference station at Hong Kong. If we assume that the tide predictions in column (1) below are those of Hong Kong on a particular day,

TABLE 2. - TIDAL DIFFERENCES AND OTHER CONSTANTS

application of the time and height corrections in columns (2) and (3) would result in the tide predictions for Chino Bay in column (4).

| (1) | | (2) | | (3) | | (4) | |
|--------------|---------------|---------------------------------|-----------------------|--------------|-----|-----------------------|--|
| Time h.m. | Height ft. | Time Corrections | Height Corrections | Time h.m. | ft. | Height centimeters | |
| 0230 | 3.6 | -0 ^h 13 ^m | x0.73 + 0.7 | 0217 | 3.3 | 101 | |
| 0926 | 7.2 | -1 ^h 02 ^m | x0.73 + 0.7 | 0824 | 6.0 | 183 | |
| 1645 | 1.0 | -0 ^h 13 ^m | x0.73 + 0.7 | 1632 | 1.4 | 43 | |
| 2318 | 4.3 | -1 ^h 02 ^m | x0.73 + 0.7 | 2216 | 3.8 | 116 | |

Range. —The *mean range* is the difference in height between mean high water (MHW) and mean low water (MLW). The *spring range* is the average semidiurnal range occurring semimonthly as a result of the Moon being new or full. It is larger than the mean range where the type of tide is either semidiurnal or mixed, and is of no practical significance where the type of tide is diurnal. The *diurnal range* is the difference in height between mean higher high water and mean lower low water. Mean higher high water is the average of the higher of the two high water and mean lower low water is the average of the lower of the two low waters. the *tropic range*, which is given for some stations, is the increased diurnal range occurring semimonthly when the effects of the Moon's maximum-declination is greatest.

Caution. —For stations where the tide is chiefly diurnal the time difference and the height differences and ratios are intended primarily for predicting the higher high and lower low waters. When the lower high water and the higher low water at the reference station are nearly the same height the corresponding tides often cannot be obtained satisfactorily by means of the tidal differences.

Datum. — The datum of the predictions obtained through the height differences or ratios is also the datum of the largest scale chart for the locality. To obtain the depth at the time of high or low water, the predicted height should be added to the depth on the chart unless such height is negative (–), when it should be subtracted. To find the height at times between high and low water see table 3. On some foreign charts the depths are given in meters and in such cases the heights of the tide can be converted to centimeters by the use of table 6. Chart datums for the Hawaiian and Philippines Islands is *mean lower low water*. For the rest of the area covered by these tables the datums generally used are approximately *mean low water springs*, *Indian spring low water*, or the *lowest possible low water*.

Mean Tide Level (Half-Tide Level). The *mean tide level* is a plane midway between mean low water and mean high water. Tabular values are reckoned from chart datum.

NOTE¹.— Dashes are entered in the place of data which are unknown, unreliable, or not applicable.

NOTE².— *Place Names.* - For the convenience of the mariner, places names are chosen to correspond to the place names on National Imagery and Mapping Agency nautical charts. The place names are also reviewed by the United States Board on Geographic Names.

NOTE³.— *Subordinate locations referencing the Philippines of Jolo, San Fernando Harbor, and Legaspi Port were included only for future considerations, See the IMPORTANT NOTICE on page VI.*

This edition includes an extensive revision of the tidal information for locations along the coast of mainland China. All such place names now use the new spelling convention. Where applicable, place names from the 1994 edition appear in hard brackets [] after the new spelling.

TABLE 2 – TIDAL DIFFERENCES AND OTHER CONSTANTS

| No. | PLACE | POSITION | | DIFFERENCES | | | | RANGES | | Mean Tide Level |
|-----|--|--------------|-------------|----------------------------------|-----------|-------------|-----------|------------|--------|-----------------|
| | | Latitude | Longitude | Time | | Height | | Mean | Spring | |
| | | | | High Water | Low Water | High Water | Low Water | | | |
| | SIBERIA, Arctic Ocean <1> Time meridian, 120° E | North | East | h m | h m | ft | ft | ft | ft | ft |
| | | | | on Pusan, p.48 | | | | | | |
| 1 | Domashnii I., Severnaya Zemlya Time meridian, 105° E | 79° 30' | 91° 08' | +6 38 | +6 48 | *0.26 | *0.29 | 0.7 | 1.0 | 0.6 |
| 3 | Zarya Road | 76° 08' | 95° 08' | +5 30 | +5 43 | (*0.46+0.3) | | 1.3 | 1.7 | 1.3 |
| 5 | Bonevi Island | 76° 10' | 95° 10' | +4 01 | +4 14 | (*0.46+0.1) | | 1.3 | 1.8 | 1.1 |
| 7 | Dzhekman Island | 76° 25' | 95° 06' | +4 25 | +4 55 | (*0.46+0.3) | | 1.3 | 1.8 | 1.3 |
| 9 | Russki Island Time meridian, 120° E | 77° 11' | 96° 24' | +5 16 | +5 32 | (*0.39+0.3) | | 1.1 | 1.5 | 1.1 |
| 11 | Taimyra River mouth | 76° 15' | 98° 52' | +5 47 | +6 11 | (*0.54+0.4) | | 1.5 | 2.0 | 1.5 |
| 13 | Cape Olovyanyn, Shokalskogo Strait | 78° 56' | 99° 56' | +4 24 | +4 34 | (*0.36+0.1) | | 1.0 | 1.4 | 0.9 |
| 15 | Gansena (Hansen) Island | 77° 31' | 102° 30' | +5 59 | +6 09 | *0.17 *0.14 | | 0.5 | 0.6 | 0.4 |
| 17 | Cape Chelyuskina | 77° 43' | 104° 17' | +3 28 | +3 59 | *0.34 *0.34 | | 0.9 | 1.2 | 0.8 |
| 19 | Samuila I., Komsomolskoi Pravdy Island | 77° 25' | 106° 54' | +2 48 | +3 23 | *0.40 *0.40 | | 1.0 | 1.4 | 0.9 |
| 21 | Starokadomskogo Island | 78° 14' | 105° 58' | +3 32 | +3 51 | (*0.61+0.2) | | 1.7 | 2.1 | 1.5 |
| 23 | Pronchishchevoi Bay Time meridian, 135° E | 75° 34' | 113° 22' | -6 37 | -6 36 | +1.4 | +0.9 | 3.3 | 4.4 | 3.3 |
| 25 | Preobrazheniya Island | 74° 40' | 112° 45' | -3 41 | -3 28 | +0.7 | +0.4 | 3.1 | 4.4 | 2.7 |
| 27 | Mali (Small) Begichev Island | 74° 18' | 111° 04' | -2 32 | -2 19 | +1.4 | +0.6 | 3.6 | 5.1 | 3.1 |
| 29 | Nordvik Bay <2> Time meridian, 120° E | 74° 01' | 111° 40' | -2 54 | -2 48 | (*2.14+0.7) | | 6.0 | 8.5 | 5.2 |
| 31 | Khara-Tumus Peninsula | 74° 01' | 110° 06' | -3 27 | -2 36 | +0.4 | +0.4 | 2.8 | 3.6 | 2.5 |
| 33 | Kozhevnikova Bay | 73° 26' | 109° 42' | +1 15 | +1 36 | (*0.68+0.5) | | 1.9 | 2.6 | 1.9 |
| 35 | Syndaska Bay entrance | 73° 14' | 108° 09' | +1 40 | +1 56 | +0.8 | +0.7 | 2.9 | 3.9 | 2.9 |
| 37 | Cape Bolshaya Karga | 73° 11' | 106° 22' | +2 44 | +3 53 | (*0.82+0.6) | | 2.3 | 3.1 | 2.3 |
| 39 | Kresty Peninsula, Khatanga River Time meridian, 135° E | 72° 45' | 105° 15' | +6 20 | +8 08 | *0.60 *0.60 | | 1.6 | 2.1 | 1.3 |
| 41 | Cape Khorgo, Anabarski Bay | 73° 31' | 113° 24' | -2 04 | -1 42 | (*1.50+0.4) | | 4.2 | 6.0 | 3.6 |
| 43 | Bykovskoe, Lena River mouth | 71° 59' | 129° 09' | --- | --- | --- | --- | 0.5 | 0.7 | 0.4 |
| 45 | Bulunkan Bay, Tiksi Bay Time meridian, 150° E | 71° 40' | 128° 58' | +1 58 | +2 08 | *0.34 *0.34 | | 0.9 | 1.2 | 0.8 |
| 47 | Omoloi River entrance | 71° 14' | 132° 10' | +4 09 | +4 33 | (*0.39+0.2) | | 1.1 | 1.4 | 1.0 |
| 49 | Yana River mouth | 71° 31' | 136° 25' | --- | --- | --- | --- | Negligible | | |
| 51 | Kotel'nyy Island Polar Station | 75° 58' | 137° 59' | +4 47 | +5 03 | (*0.50+0.4) | | 1.4 | 1.9 | 1.4 |
| 53 | Nerpalkh Lagoon, Kotel'nyy Island | 75° 22' | 137° 10' | +5 27 | +5 25 | *0.20 *0.20 | | 0.5 | 0.8 | 0.5 |
| 55 | Cape Medvezhi, Kotel'nyy Island <i>Bolshoi Lyakhovskii Island</i> | 74° 38' | 139° 04' | +1 07 | +1 23 | *0.26 *0.26 | | 0.6 | 0.8 | 0.6 |
| 57 | Kigiyakh Peninsula | 73° 26' | 139° 55' | --- | --- | --- | --- | 0.4 | 0.5 | 0.3 |
| 59 | Cape Shalaurova Time meridian, 180° E | 73° 12' | 143° 34' | -5 24 | -5 10 | *0.34 *0.34 | | 0.9 | 1.1 | 0.8 |
| 61 | Chetyrekhtolbovoi I., Medvezhi Island Time meridian, 165° E | 70° 38' | 162° 30' | --- | --- | --- | --- | Negligible | | |
| 63 | Kolyma River mouth Time meridian, 180° E | 69° 38' | 162° 00' | --- | --- | --- | --- | Negligible | | |
| 65 | Ayon Island | 69° 53' | 167° 52' | --- | --- | --- | --- | Negligible | | |
| 67 | Cape Shelagski Time meridian, 195° E | 70° 05' | 170° 34' | --- | --- | --- | --- | Negligible | | |
| 69 | Cape Billingsa | 69° 53' | 176° 06' | +5 37 | +5 50 | *0.20 *0.20 | | 0.5 | 0.8 | 0.5 |
| 71 | Wrangell Island | 70° 58' | 181° 27' | +3 53 | +4 06 | *0.57 *0.71 | | 1.5 | 2.1 | 1.3 |
| 73 | Cape Shmidta | 68° 55' | 180° 31' | +5 42 | +5 58 | (*0.61+0.4) | | 1.7 | 2.2 | 1.7 |
| 75 | Kolychino Polar Station | 67° 04' | 186° 13' | --- | --- | --- | --- | 0.3 | 0.4 | 0.3 |
| 77 | Cape Serdtse-Kamen | 66° 57' | 188° 22' | --- | --- | --- | --- | 0.3 | 0.4 | 0.2 |
| 79 | Cape Uelen | 66° 10' | 190° 10' | --- | --- | --- | --- | 0.4 | 0.5 | 0.4 |
| | Bering Sea | | | | | | | | | |
| 81 | Alera Bay, Penkegnei Bay | 64° 49' | 187° 05' | -0 54 | -0 50 | *0.26 *0.29 | | 0.7 | 0.9 | 0.6 |
| 83 | Plover Bay, Provideniya Bay | 64° 22' | 186° 38' | -2 03 | -1 46 | (*0.82+0.2) | | 2.3 | 2.9 | 1.9 |
| 85 | Emma Bay, Provideniya Bay | 64° 25' | 186° 47' | -2 16 | -2 06 | (*0.82+0.3) | | 2.3 | 3.1 | 2.0 |
| 87 | Cape Razdelny, Kresta Bay | 66° 11' | 181° 00' | +0 55 | +1 09 | +5.8 | +1.9 | 6.7 | 8.4 | 6.0 |
| 89 | Engaugin Bay, Kresta Bay <i>Anadyr Bay</i> | 66° 09' | 180° 26' | +0 52 | +0 56 | +5.4 | +1.4 | 6.8 | 8.5 | 5.5 |
| 91 | Russkaya Koshka Spit | 64° 35' | 178° 31' | +2 48 | +2 52 | +2.6 | +0.7 | 4.7 | 6.0 | 3.8 |
| 93 | Salomatova Spit | 64° 38' | 178° 01' | +3 19 | +3 27 | +3.1 | +0.9 | 5.0 | 6.3 | 4.1 |
| 95 | Melkaya Bay | 64° 47' | 177° 34' | +4 15 | +4 25 | +1.7 | +0.6 | 3.9 | 5.3 | 3.3 |
| 97 | Anadyr River entrance | 64° 44' | 177° 26' | +3 37 | +3 47 | +1.0 | +0.3 | 3.5 | 4.4 | 2.8 |
| 99 | Strelka Spit, Anadyr Gulf | 64° 25' | 178° 15' | +4 22 | +5 11 | +0.1 | +0.2 | 2.7 | 3.6 | 2.3 |
| 101 | Ugolnaya Bay | 63° 04' | 179° 23' | +4 04 | +4 14 | *0.49 *0.57 | | 1.3 | 1.7 | 1.1 |
| | Time meridian, 180° E | | | | | | | | | |
| | | | | on Paramushir Island, p.8 | | | | | | |
| 103 | Anastasii Bay † | 61° 25' | 172° 56' | -1 00 | -0 29 | +1.0 | +0.9 | 4.6 | 5.4 | 4.8 |
| 105 | Imatra Bay, Glubokaya Bay † | 61° 00' | 172° 07' | -0 55 | -0 37 | (*0.96+0.8) | | 4.3 | 5.0 | 4.4 |
| 107 | Cape Olyutorski † <i>Kamchatka</i> | 59° 55' | 170° 20' | -0 29 | -0 23 | (*0.84+0.8) | | 3.8 | 4.5 | 4.0 |
| 109 | Lavora Harbor † | 60° 23' | 167° 04' | -1 14 | -0 35 | (*0.80+1.2) | | 3.6 | 4.2 | 4.2 |
| 111 | Sibir Harbor † | 60° 27' | 166° 14' | -0 39 | -0 33 | +1.3 | +1.0 | 4.8 | 5.6 | 5.0 |
| 113 | Cape Kryugera † | 56° 01' | 161° 57' | -0 21 | -0 18 | (*0.87+1.0) | | 3.9 | 4.7 | 4.3 |
| 115 | Nikolski, Bering Island † | 55° 12' | 165° 59' | -1 17 | -0 10 | (*0.82+1.2) | | 3.7 | 4.4 | 4.3 |
| 117 | Morzhovaya Bay † | 53° 14' | 159° 57' | +0 01 | +0 32 | (*0.91+0.9) | | 4.1 | 5.1 | 4.4 |
| 119 | Petrovlovsk † | 53° 01' | 158° 39' | +1 23 | +0 55 | (*0.93+1.0) | | 4.2 | 4.9 | 4.5 |
| 121 | Tarya Bay † | 52° 55' | 158° 30' | +1 33 | +1 05 | +0.9 | +0.9 | 4.4 | 5.1 | 4.7 |
| 123 | Akhomten Bay † | 52° 26' | 158° 28' | +1 08 | +0 40 | (*0.89+0.9) | | 4.0 | 4.7 | 4.3 |
| 125 | Vestnik Bay † | 51° 33' | 157° 42' | +1 43 | +1 15 | (*0.84+0.9) | | 3.8 | 4.4 | 4.1 |

Endnotes can be found at the end of table 2.

TABLE 2 – TIDAL DIFFERENCES AND OTHER CONSTANTS

| No. | PLACE | POSITION | | DIFFERENCES | | | | RANGES | | Mean Tide Level |
|-----|--|--------------|-------------|----------------------------------|-----------|--------------------------|-----------|----------------|---------------|-----------------|
| | | Latitude | Longitude | Time | | Height | | Diurnal | Tropic | |
| | | | | High Water | Low Water | High Water | Low Water | | | |
| | SIBERIA, Sea of Okhotsk Time meridian, 180° E | North | East | h m | h m | ft | ft | ft | ft | ft |
| | | | | on Paramushir Island, p.8 | | | | | | |
| 127 | Golygina River entrance † | 51° 53' | 156° 31' | +1 28 | +1 34 | +1.3 | +1.0 | 4.8 | 5.6 | 5.0 |
| 129 | Ust Bolsheretsk, Bolshaya River † | 52° 46' | 156° 14' | +4 35 | +4 21 | +1.6 | +1.1 | 5.0 | 5.8 | 5.2 |
| 131 | Kompakova River entrance † | 54° 40' | 155° 42' | +3 43 | +3 49 | (*2.98+2.7) | | 13.4 | 15.7 | 14.0 |
| 133 | Oblukovina River entrance † | 55° 19' | 155° 34' | +4 53 | +4 59 | (*2.36+1.9) | | 10.6 | 12.3 | 10.9 |
| | | | | on Musi River, p.152 | | | | | | |
| 135 | Cape Astronomicheskii † | 62° 23' | 164° 28' | -10 42 | -9 27 | *3.14 | *2.72 | 24.1 | 30.1 | 17.8 |
| | <i>Penjinski Bay</i> | | | | | | | | | |
| 137 | Matugin Point † | 61° 41' | 160° 15' | +8 10 | +9 18 | +13.4 | +2.7 | 18.0 | 22.2 | 13.5 |
| 139 | Gizhiga River entrance † | 61° 58' | 160° 24' | +8 08 | +10 26 | +12.8 | +2.1 | 18.0 | 22.2 | 14.0 |
| 141 | Nayakhanskaya Bay † | 61° 54' | 159° 00' | +8 15 | +10 04 | +11.6 | +1.4 | 17.5 | 21.7 | 13.1 |
| | Time meridian, 165° E | | | | | | | | | |
| 143 | Udacha Bay † | 59° 13' | 155° 10' | +9 23 | +7 11 | +3.2 | +0.8 | 9.7 | 13.5 | 8.2 |
| | | | | on Moji, p.36 | | | | Mean | Spring | |
| 145 | Ola Anchorage, Tauskaya Bay | 59° 34' | 151° 16' | +0 12 | +0 24 | *1.50 | *1.50 | 6.9 | 8.9 | 7.4 |
| 147 | Nagaeva Bay, Tauskaya Bay | 59° 31' | 150° 41' | -0 09 | -0 18 | *1.89 | *1.89 | 8.7 | 11.3 | 9.4 |
| | Time meridian, 150° E | | | | | | | | | |
| 149 | Okhotsk | 59° 21' | 143° 10' | +3 02 | +2 55 | *1.50 | *1.50 | 6.9 | 8.9 | 7.4 |
| | | | | on Brisbane Bar, p.284 | | | | | | |
| 151 | Ayan Bay | 56° 27' | 138° 09' | +3 33 | +3 25 | +2.2 | +1.3 | 5.9 | 7.9 | 5.7 |
| 153 | Udskaya Bay | 54° 42' | 135° 18' | +7 08 | +6 59 | +2.7 | +1.0 | 6.7 | 9.5 | 5.8 |
| 155 | Levyazhya Bay, Feklistov Island | 54° 54' | 136° 46' | +6 37 | +6 29 | (*2.50+0.7) | | 12.5 | 16.4 | 10.5 |
| 157 | Abrek Bay, Little Shantar Island | 54° 24' | 137° 37' | +6 50 | +6 42 | (*2.12+0.2) | | 10.6 | 13.5 | 8.5 |
| | | | | on Jolo, p.172 | | | | Diurnal | Tropic | |
| 159 | Baldukov Island † | 53° 18' | 141° 28' | -1 41 | -1 40 | +2.7 | +1.2 | 4.3 | 5.4 | 2.8 |
| | Time meridian, 165° E | | | | | | | | | |
| | <i>Sakhalin Island</i> | | | | | | | | | |
| 161 | Cape Tamlevo † | 53° 21' | 141° 46' | -0 24 | -0 25 | +2.3 | +1.1 | 4.0 | 5.0 | 2.6 |
| 163 | Baikal Bay † | 53° 32' | 142° 14' | +0 12 | +0 10 | +2.6 | +1.1 | 4.3 | 5.3 | 2.7 |
| 165 | Kuegda Bay † | 54° 19' | 142° 36' | +1 06 | +1 05 | (*0.61+0.5) | | 1.7 | 2.2 | 1.2 |
| | | | | on Yamato Wan, p.12 | | | | | | |
| 167 | Urkt Bay entrance † | 53° 34' | 143° 04' | -1 12 | +3 44 | +0.1 | 0.0 | 3.2 | 4.0 | 2.4 |
| 169 | Kyavrvo Anchorage † | 52° 52' | 143° 19' | -0 12 | +4 46 | +0.4 | +0.3 | 3.2 | 4.4 | 2.7 |
| 171 | Chaivo Bay † | 52° 23' | 143° 12' | +3 11 | +6 07 | +0.8 | +0.5 | 3.4 | 4.8 | 3.1 |
| 173 | Niski Bay † | 51° 58' | 143° 11' | +3 07 | +8 01 | +1.4 | +0.2 | 4.3 | 5.3 | 3.2 |
| 175 | Luniski Bay entrance † | 51° 18' | 143° 30' | +5 33 | +6 59 | *0.42 | *0.42 | 1.3 | 1.8 | 1.1 |
| | KARAFUTO, Sakhalin Island | | | on Otomari, p.4 | | | | | | |
| 177 | Mys Popova † | 49° 03' | 144° 24' | -0 25 | -0 25 | (*0.50+0.2) | | 1.5 | 2.0 | 1.4 |
| 179 | Tyuleniy † | 48° 30' | 144° 38' | -0 55 | -0 58 | (*0.87+0.1) | | 2.6 | 3.1 | 2.2 |
| 181 | Mys Obshirmyy † | 48° 42' | 144° 39' | -0 45 | -1 04 | *0.87 | *0.87 | 2.6 | 3.1 | 2.1 |
| 183 | Noto † | 49° 07' | 144° 15' | -0 36 | -1 02 | *0.97 | *0.97 | 2.9 | 3.3 | 2.3 |
| 185 | Ozero Nevskoye † | 49° 19' | 143° 19' | -0 14 | -0 49 | *0.93 | *0.93 | 2.8 | 3.2 | 2.2 |
| 187 | Shikuka † | 49° 14' | 143° 08' | -0 10 | -0 49 | *0.97 | *0.97 | 2.9 | 3.4 | 2.3 |
| 189 | Higashi Chutoru † | 48° 38' | 142° 48' | -0 03 | -0 32 | (*0.93+0.1) | | 2.8 | 3.3 | 2.3 |
| 191 | Buruny † | 48° 06' | 142° 34' | -0 09 | -0 31 | *0.87 | *0.87 | 2.6 | 3.0 | 2.1 |
| 193 | Sakayehama † | 47° 25' | 142° 49' | -0 13 | -0 30 | (*0.90-0.1) | | 2.7 | 3.1 | 2.1 |
| 195 | Noho Misaki † | 47° 15' | 143° 01' | -0 25 | -0 25 | (*0.83+0.1) | | 2.5 | 3.1 | 2.1 |
| 197 | Onto Numa † | 46° 52' | 143° 08' | +1 51 | +1 51 | (*0.47+0.1) | | 1.4 | 1.8 | 1.2 |
| 199 | Tomunai Hakuchi † | 46° 51' | 143° 10' | -0 24 | -0 22 | (*0.83+0.1) | | 2.5 | 3.1 | 2.1 |
| 201 | Airo Wan † | 46° 49' | 143° 25' | -0 23 | -0 17 | *0.87 | *0.87 | 2.6 | 3.2 | 2.1 |
| 203 | Mys Menaputsky † | 46° 23' | 143° 35' | -0 56 | -0 39 | (*0.93+0.1) | | 2.8 | 3.4 | 2.3 |
| 205 | Tobuchi Ko † | 46° 30' | 143° 20' | +0 32 | +0 54 | (*0.83+0.1) | | 2.5 | 3.1 | 2.1 |
| 207 | OTOMARI † | 46° 39' | 142° 45' | | | <i>Daily predictions</i> | | 3.0 | 3.7 | 2.4 |
| 209 | Nishi Notoro Misaki, East coast † | 45° 54' | 142° 05' | +0 30 | +1 15 | (*0.93+0.2) | | 2.8 | 3.6 | 2.4 |
| 211 | Nishi Notoro Misaki, West coast † | 45° 54' | 142° 05' | +1 18 | +2 04 | (*0.60+0.1) | | 1.8 | 2.3 | 1.5 |
| 213 | Soni Misaki † | 46° 03' | 141° 55' | +2 53 | --- | (*0.40+0.1) | | 1.2 | 1.6 | 1.1 |
| 215 | Kaiba To (Todo Shima) † | 46° 15' | 141° 16' | --- | --- | --- | --- | 0.5 | --- | 0.4 |
| 217 | Tokombo Road † | 46° 40' | 141° 51' | --- | --- | --- | --- | 0.8 | --- | 0.7 |
| 219 | Port Kholmnsk † | 41° 03' | 142° 02' | --- | --- | --- | --- | 0.7 | --- | 0.6 |
| 221 | Nodasan (Noda) † | 47° 26' | 141° 58' | --- | --- | --- | --- | 0.7 | --- | 0.6 |
| | | | | on Pusan, p.48 | | | | Mean | Spring | |
| 223 | Yatsu Misaki | 48° 08' | 142° 10' | -11 47 | -11 39 | (*0.29+0.2) | | 0.8 | 1.0 | 0.8 |
| 225 | Ushiro Wan | 48° 54' | 141° 58' | -10 55 | -10 46 | (*0.57+0.2) | | 1.6 | 2.1 | 1.4 |
| 227 | Toro Numa | 49° 10' | 142° 04' | -10 40 | -10 32 | (*0.71+0.1) | | 2.0 | 2.6 | 1.6 |
| 229 | Lesogorsk | 49° 27' | 142° 07' | -10 13 | -10 05 | (*0.71+0.1) | | 2.0 | 2.6 | 1.6 |
| 231 | Mys Polevogo | 49° 46' | 142° 09' | -10 22 | -10 13 | +0.1 | +0.1 | 2.8 | 3.7 | 2.2 |
| 233 | Anbetsu | 49° 59' | 142° 10' | -10 20 | -10 12 | +0.5 | +0.1 | 3.2 | 4.1 | 2.4 |

Endnotes can be found at the end of table 2.

TABLE 2 – TIDAL DIFFERENCES AND OTHER CONSTANTS

| No. | PLACE | POSITION | | DIFFERENCES | | | | RANGES | | Mean Tide Level | |
|-----|---|--------------|-------------|----------------------------------|-----------|-------------|-----------|---------|--------|-----------------|--------|
| | | Latitude | Longitude | Time | | Height | | Diurnal | Tropic | | |
| | | | | High Water | Low Water | High Water | Low Water | | | | |
| | CHISHIMA RETTO—cont. Time meridian, 165° E | North | East | h | m | ft | ft | ft | ft | ft | |
| | <i>Uruppu To</i> | | | on Paramushir Island, p.8 | | | | | | | |
| 337 | Yosinohama | 46° 12' | 150° 31' | +0 15 | +0 15 | *0.58 | *0.58 | 2.6 | 3.0 | 2.2 | |
| 339 | Garan Zaki | 45° 48' | 149° 56' | +0 15 | +0 15 | *0.67 | *0.60 | 3.1 | 3.6 | 2.5 | |
| | | | | on Otomari, p.4 | | | | | | | |
| 341 | Tokotan Wan | 45° 51' | 149° 44' | -0 15 | -0 15 | +0.1 | +0.1 | 3.0 | 3.8 | 2.5 | |
| 343 | Tsurigane Wan | 46° 06' | 150° 10' | -0 15 | -0 15 | *0.87 | *0.87 | 2.6 | 3.3 | 2.1 | |
| | <i>Yetorofu Jima</i> | | | on Paramushir Island, p.8 | | | | | | | |
| 345 | Zaliv Kasatka | 44° 56' | 147° 38' | +0 30 | +0 30 | *0.69 | *0.60 | 3.2 | 3.7 | 2.8 | |
| 347 | Kodnyy | 44° 43' | 147° 21' | +0 25 | +0 25 | (*0.78+0.2) | | 3.5 | 4.2 | 3.2 | |
| | | | | on Otomari, p.4 | | | | | | | |
| 349 | Naibo Wan | 44° 46' | 147° 12' | -0 15 | -0 15 | *0.95 | *0.95 | 2.8 | 3.5 | 2.3 | |
| 351 | Kitovyy | 45° 15' | 147° 53' | -0 20 | -0 20 | *0.90 | *0.90 | 2.7 | 3.4 | 2.2 | |
| 353 | Shamambe Byochi | 45° 20' | 148° 01' | -0 20 | -0 20 | *0.97 | *0.97 | 2.8 | 3.6 | 2.3 | |
| 355 | Shibetoro | 45° 30' | 148° 37' | -0 15 | -0 15 | *0.87 | *0.87 | 2.6 | 3.2 | 2.1 | |
| 357 | Moyoro Wan | 45° 26' | 148° 51' | -0 25 | -0 25 | *0.90 | *0.78 | 2.8 | 3.2 | 2.1 | |
| | <i>Kunashiri Jima</i> | | | on Paramushir Island, p.8 | | | | | | | |
| 359 | Yuzhno Kurilsk | 44° 02' | 145° 51' | +0 15 | +0 15 | *0.73 | *0.70 | 3.3 | 3.8 | 2.9 | |
| 361 | Tomari Wan | 43° 44' | 145° 27' | +0 50 | +0 50 | *0.78 | *0.78 | 3.5 | 4.1 | 3.0 | |
| 363 | Shakotan Ko, Shikotan Jima | 43° 52' | 146° 49' | +0 30 | +0 30 | *0.67 | *0.67 | 3.1 | 3.5 | 2.6 | |
| 365 | Taraku Jima | 43° 38' | 146° 21' | +0 25 | +0 25 | *0.73 | *0.73 | 3.2 | 3.8 | 2.8 | |
| 367 | Suicho To | 43° 25' | 145° 54' | +0 35 | +0 35 | *0.80 | *0.80 | 3.6 | 4.1 | 2.9 | |
| | JAPAN Hokkaido Time meridian, 135° E | | | on Kamaisi, p.16 | | | | | | Mean | Spring |
| 369 | Rausu Hakuchi | 44° 01' | 145° 12' | -0 47 | -0 47 | (*0.65+0.4) | | 1.5 | 2.0 | 2.3 | |
| 371 | Nemuro Ko | 43° 20' | 145° 35' | -0 32 | -0 34 | +0.1 | 0.0 | 2.4 | 3.1 | 2.9 | |
| 373 | Hanasaki | 43° 17' | 145° 35' | -0 07 | -0 05 | -0.3 | -0.1 | 2.1 | 2.7 | 2.7 | |
| 375 | Ochiishi Wan | 43° 10' | 145° 31' | -0 22 | -0 25 | -0.1 | 0.0 | 2.2 | 2.9 | 2.8 | |
| 377 | Kiritappu Jima, Hamanaka Wan | 43° 04' | 145° 10' | -0 28 | -0 30 | -0.2 | -0.1 | 2.2 | 2.8 | 2.7 | |
| 379 | Akkeshi Wan | 43° 02' | 144° 51' | -0 23 | -0 25 | -0.2 | -0.2 | 2.3 | 2.9 | 2.7 | |
| 381 | Kushiro Ko | 42° 58' | 144° 22' | -0 08 | -0 15 | 0.0 | 0.0 | 2.3 | 3.0 | 2.9 | |
| 383 | Rubeshibetsu Saki | 42° 12' | 143° 20' | -0 26 | -0 28 | -0.2 | -0.1 | 2.2 | 2.7 | 2.7 | |
| 385 | Utaru | 41° 58' | 143° 12' | -0 16 | -0 18 | 0.0 | -0.1 | 2.4 | 3.1 | 2.8 | |
| 387 | Muroran Ko | 42° 19' | 140° 58' | -0 29 | -0 19 | +0.6 | +0.3 | 2.6 | 3.6 | 3.3 | |
| 389 | Usu Wan, Iburu Wan | 42° 31' | 140° 46' | -0 14 | -0 16 | +0.3 | 0.0 | 2.6 | 3.5 | 3.0 | |
| 391 | Mori Ko, Iburu Wan | 42° 07' | 140° 36' | -0 19 | -0 21 | 0.0 | -0.1 | 2.4 | 3.2 | 2.8 | |
| 393 | Usujiri Wan | 41° 56' | 140° 57' | -0 15 | -0 17 | -0.2 | -0.1 | 2.2 | 2.9 | 2.7 | |
| 395 | Shiokubi Saki | 41° 43' | 140° 58' | +0 16 | +0 14 | 0.0 | 0.0 | 2.3 | 3.0 | 2.9 | |
| 397 | Hakodate Ko | 41° 47' | 140° 43' | +0 00 | +0 10 | (*0.74-0.2) | | 1.7 | 2.3 | 1.9 | |
| 399 | Wakimoto | 41° 34' | 140° 26' | +0 09 | +0 07 | (*0.65-0.1) | | 1.5 | 2.0 | 1.8 | |
| 401 | Yoshioka | 41° 27' | 140° 14' | +0 38 | +0 35 | (*0.48-0.1) | | 1.1 | 1.4 | 1.3 | |
| 403 | Fukuyama Byochi | 41° 26' | 140° 07' | --- | --- | --- | --- | 0.5 | --- | 0.7 | |
| 405 | Kamome Jima, Yesashi Ko | 41° 52' | 140° 06' | --- | --- | --- | --- | 0.5 | --- | 0.8 | |
| 407 | Aonai Wan, Okushiri Shima | 42° 04' | 139° 27' | --- | --- | --- | --- | 0.5 | --- | 0.7 | |
| 409 | Setana Ko | 42° 28' | 139° 50' | --- | --- | --- | --- | 0.4 | --- | 0.7 | |
| 411 | Sutsu Ko | 42° 47' | 140° 16' | --- | --- | --- | --- | 0.4 | --- | 0.6 | |
| 413 | Iwanai Byochi | 42° 59' | 140° 30' | --- | --- | --- | --- | 0.5 | --- | 0.6 | |
| 415 | Kamoi Misaki | 43° 20' | 140° 21' | --- | --- | --- | --- | 0.4 | --- | 0.6 | |
| 417 | Otaru Ko | 43° 13' | 141° 01' | --- | --- | --- | --- | 0.4 | --- | 0.5 | |
| 419 | Moye | 43° 36' | 141° 23' | --- | --- | --- | --- | 0.4 | --- | 0.6 | |
| 421 | Rumoi Ko | 43° 57' | 141° 39' | --- | --- | --- | --- | 0.3 | --- | 0.5 | |
| 423 | Tomamai | 44° 19' | 141° 39' | --- | --- | --- | --- | 0.4 | --- | 0.6 | |
| 425 | Rishiri To | 45° 14' | 141° 14' | --- | --- | --- | --- | 0.4 | --- | 0.6 | |
| 427 | Wakkanai Ko | 45° 25' | 141° 41' | --- | --- | --- | --- | 0.4 | --- | 0.6 | |
| 429 | Soya Misaki | 45° 31' | 141° 57' | --- | --- | --- | --- | 0.5 | --- | 0.6 | |
| | | | | on Otomari, p.4 | | | | | | Diurnal | Tropic |
| 431 | Esashi Byochi | 44° 56' | 142° 35' | -2 35 | -2 35 | *0.80 | *0.80 | 2.4 | 2.9 | 1.9 | |
| 433 | Omu Ko | 44° 35' | 142° 58' | -2 30 | -2 30 | (*0.83+0.1) | | 2.5 | 3.2 | 2.1 | |
| 435 | Monbetsu Byochi | 44° 21' | 143° 22' | -2 58 | -2 46 | *0.97 | *0.97 | 2.8 | 3.4 | 2.4 | |
| 437 | Abashiri Byochi | 44° 01' | 144° 16' | -2 15 | -2 15 | *0.90 | *0.90 | 2.7 | 3.4 | 2.2 | |
| 439 | Koiseboi | 44° 02' | 144° 56' | -2 30 | -2 30 | *0.87 | *0.87 | 2.6 | 3.2 | 2.1 | |
| | Honshu, North Coast | | | on Naha, p.44 | | | | | | Mean | Spring |
| 441 | Tappi Saki | 41° 15' | 140° 21' | -3 53 | -3 53 | (*0.24+0.2) | | 1.0 | 1.4 | 1.1 | |
| 443 | Mimmaya, Mimmaya Wan | 41° 12' | 140° 26' | -4 07 | -4 08 | *0.24 | *0.24 | 1.0 | 1.4 | 0.9 | |
| 445 | Aomori Ko, Mutsu Kaiwan | 40° 50' | 140° 44' | -4 11 | -4 12 | *0.34 | *0.34 | 1.4 | 2.0 | 1.3 | |
| 447 | Shiranai Wan, Mutsu Kaiwan | 40° 57' | 140° 58' | -4 09 | -4 10 | *0.32 | *0.32 | 1.3 | 1.8 | 1.2 | |
| 449 | Ominato Ko, Mutsu Kaiwan | 41° 15' | 141° 09' | -4 12 | -3 49 | *0.32 | *0.28 | 1.4 | 2.0 | 1.2 | |
| 451 | Oma | 41° 32' | 140° 54' | -4 09 | -4 10 | *0.37 | *0.37 | 1.5 | 2.0 | 1.5 | |
| 453 | Ohata | 41° 24' | 141° 10' | -4 11 | -4 12 | (*0.49+0.4) | | 2.0 | 2.6 | 2.3 | |

Endnotes can be found at the end of table 2.

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| No. | PLACE | POSITION | | DIFFERENCES | | | | RANGES | | Mean Tide Level |
|-----|--|----------|-----------|-------------------|-----------|-------------|-----------|--------|--------|-----------------|
| | | Latitude | Longitude | Time | | Height | | Mean | Spring | |
| | | | | High Water | Low Water | High Water | Low Water | | | |
| | JAPAN Honshu, East Coast Time meridian, 135° E | North | East | h m | h m | ft | ft | ft | ft | ft |
| | | | | on Kamaisi, p.16 | | | | | | |
| 455 | Shiriya | 41° 24' | 141° 27' | -0 12 | -0 15 | +0.4 | +0.2 | 2.5 | 3.2 | 3.2 |
| 457 | Tomari | 41° 05' | 141° 24' | -0 10 | -0 13 | +0.1 | -0.1 | 2.5 | 3.2 | 2.9 |
| 459 | Hachinohe Ko | 40° 32' | 141° 33' | -0 16 | -0 15 | -0.2 | -0.1 | 2.2 | 2.9 | 2.7 |
| 461 | Kuji Wan | 40° 11' | 141° 49' | -0 10 | -0 13 | +0.1 | 0.0 | 2.4 | 3.1 | 2.9 |
| 463 | Miyako Ko <3> | 39° 38' | 141° 58' | +0 00 | +0 06 | -0.2 | -0.1 | 2.2 | 2.9 | 2.7 |
| 465 | Yamada Ko | 39° 28' | 141° 58' | -0 09 | -0 11 | -0.1 | -0.1 | 2.3 | 3.0 | 2.8 |
| 467 | KAMAISI | 39° 16' | 141° 54' | Daily predictions | | | | 2.3 | 3.0 | 2.9 |
| 469 | Kesennuma Wan | 38° 53' | 141° 37' | +0 02 | +0 00 | -0.1 | -0.1 | 2.3 | 3.0 | 2.8 |
| 471 | Oginohama Ko | 38° 23' | 141° 26' | +0 08 | +0 06 | +0.4 | +0.1 | 2.6 | 3.4 | 3.1 |
| 473 | Same Ura, Nobiru Wan | 38° 21' | 141° 10' | +0 14 | +0 12 | +0.2 | +0.1 | 2.4 | 3.3 | 3.0 |
| 475 | Hirakata Wan | 36° 51' | 140° 48' | +0 11 | +0 08 | -0.1 | -0.1 | 2.3 | 3.0 | 2.8 |
| 477 | Choshi Ko (inside) | 35° 44' | 140° 50' | +0 48 | +0 45 | *0.65 | *0.65 | 1.5 | 1.9 | 1.9 |
| 479 | Nagasaki, Inubo Saki | 35° 42' | 140° 52' | +0 45 | +0 43 | +0.1 | 0.0 | 2.4 | 3.2 | 2.9 |
| | | | | on Yokohama, p.20 | | | | | | |
| 481 | Katsuura Wan | 35° 08' | 140° 18' | -0 43 | -0 35 | *0.78 | *0.80 | 2.7 | 3.5 | 3.0 |
| 483 | Kamogawa, Kamogawa Wan | 35° 06' | 140° 06' | -0 31 | -0 22 | (*0.74+0.2) | | 2.6 | 3.5 | 3.0 |
| 485 | Otohamma | 34° 55' | 139° 56' | -0 31 | -0 22 | (*0.74+0.1) | | 2.6 | 3.4 | 2.9 |
| | Honshu, South Coast | | | | | | | | | |
| | Tokyo Wan | | | | | | | | | |
| 487 | Tateyama Wan | 35° 01' | 139° 51' | -0 22 | -0 14 | *0.83 | *0.83 | 2.9 | 3.9 | 3.2 |
| 489 | Uraga Ko | 35° 14' | 139° 43' | -0 12 | -0 04 | (*0.83+0.1) | | 2.9 | 3.8 | 3.3 |
| 491 | Yokosuka Ko | 35° 17' | 139° 40' | -0 04 | -0 04 | *0.91 | *0.91 | 3.2 | 4.3 | 3.5 |
| 493 | YOKOHAMA <4> | 35° 26' | 139° 40' | Daily predictions | | | | 3.5 | 4.7 | 3.8 |
| 495 | Shinagawa, Tokyo Ko | 35° 37' | 139° 45' | +0 02 | +0 11 | 0.0 | -0.1 | 3.6 | 4.8 | 3.7 |
| 497 | Chiba | 35° 36' | 140° 07' | -0 06 | +0 02 | +0.4 | +0.1 | 3.8 | 5.1 | 4.0 |
| 499 | Aburatsubo <5> | 35° 09' | 139° 37' | -0 08 | +0 00 | (*0.77+0.1) | | 2.7 | 3.6 | 3.0 |
| 501 | Koto Wan | 35° 13' | 139° 37' | -0 23 | -0 14 | *0.80 | *0.80 | 2.8 | 3.7 | 3.0 |
| 503 | Ajiro Ko | 35° 03' | 139° 05' | -0 21 | -0 12 | (*0.77+0.1) | | 2.7 | 3.5 | 3.0 |
| 505 | Shimoda Ko <6> | 34° 40' | 138° 57' | +0 05 | +0 14 | *0.86 | *0.86 | 3.0 | 3.9 | 3.3 |
| 507 | Merakoura Ko | 34° 40' | 138° 47' | +0 23 | +0 31 | *0.85 | *0.85 | 3.0 | 3.9 | 3.2 |
| 509 | Tago Minato | 34° 48' | 138° 46' | +0 25 | +0 33 | (*0.89-0.1) | | 3.1 | 4.2 | 3.3 |
| 511 | Eno Ura | 35° 01' | 138° 53' | +0 32 | +0 41 | *0.80 | *0.80 | 2.8 | 3.8 | 3.0 |
| 513 | Shimizu Ko | 35° 00' | 138° 30' | +0 32 | +0 36 | *0.85 | *0.85 | 3.0 | 4.1 | 3.2 |
| 515 | Omai Saki | 34° 36' | 138° 13' | +0 18 | +0 27 | *0.89 | *0.85 | 3.2 | 4.3 | 3.3 |
| 517 | Shino Shima, Mikawa Wan | 34° 41' | 137° 00' | +0 54 | +1 03 | +0.8 | 0.0 | 4.3 | 5.8 | 4.2 |
| 519 | Gamagori, Mikawa Wan | 34° 49' | 137° 14' | +0 56 | +1 04 | +1.3 | +0.1 | 4.7 | 6.3 | 4.5 |
| 521 | Nagoya Ko, Iseno Umi | 35° 05' | 136° 53' | +1 01 | +1 05 | (*1.40-0.6) | | 4.9 | 6.8 | 4.7 |
| 523 | Yokkaichi Ko, Iseno Umi | 34° 57' | 136° 38' | +1 01 | +1 10 | +1.0 | 0.0 | 4.5 | 6.0 | 4.3 |
| 525 | Tsu Ko, Iseno Umi | 34° 43' | 136° 32' | +0 59 | +1 07 | +1.2 | +0.1 | 4.6 | 6.2 | 4.4 |
| 527 | Toba Ko | 34° 29' | 136° 51' | +0 54 | +1 08 | +0.3 | -0.1 | 3.9 | 5.3 | 3.9 |
| 529 | Matoya Ko | 34° 22' | 136° 52' | +0 40 | +0 49 | *0.89 | *0.85 | 3.2 | 4.3 | 3.3 |
| 531 | Hamashima, Ago Wan | 34° 17' | 136° 45' | +0 49 | +0 58 | *0.91 | *0.85 | 3.3 | 4.4 | 3.4 |
| 533 | Gokasho Ko | 34° 19' | 136° 40' | +0 31 | +0 39 | *0.91 | *0.85 | 3.3 | 4.5 | 3.4 |
| 535 | Hikimoto Ura, Owashi Wan | 34° 05' | 136° 15' | +0 44 | +0 49 | *0.93 | *0.90 | 3.3 | 4.5 | 3.5 |
| 537 | Katsuura Wan | 33° 37' | 135° 57' | +0 42 | +0 51 | *0.91 | *0.85 | 3.3 | 4.3 | 3.4 |
| 539 | Urakami Ko | 33° 33' | 135° 54' | +0 44 | +0 53 | -0.4 | -0.3 | 3.4 | 4.5 | 3.4 |
| 541 | Kushimoto, Fukuro Ko | 33° 28' | 135° 46' | +0 53 | +1 02 | *0.91 | *0.85 | 3.3 | 4.5 | 3.4 |
| 543 | Susami | 33° 33' | 135° 30' | +0 56 | +1 05 | -0.1 | -0.1 | 3.5 | 4.7 | 3.7 |
| 545 | Tanabe Ko | 33° 43' | 135° 22' | +0 47 | +0 56 | -0.1 | -0.3 | 3.7 | 4.8 | 3.6 |
| 547 | Mio | 33° 53' | 135° 05' | +0 50 | +0 58 | -0.2 | -0.2 | 3.5 | 4.7 | 3.6 |
| | Nanpo Shoto (Southern Islands) | | | | | | | | | |
| 549 | Habu Ko, O Shima | 34° 41' | 139° 26' | -0 28 | -0 20 | (*0.77+0.2) | | 2.7 | 3.5 | 3.1 |
| 551 | Shikine Shima | 34° 19' | 139° 13' | +0 06 | +0 15 | (*0.80+0.2) | | 2.8 | 3.8 | 3.2 |
| 553 | Kaminato Hakuchi, Hachijo Jima | 33° 08' | 139° 48' | -0 05 | +0 04 | (*0.66+0.2) | | 2.3 | 3.1 | 2.7 |
| 555 | Tori Shima | 30° 29' | 140° 19' | +0 39 | +0 47 | (*0.63+0.1) | | 2.2 | 3.0 | 2.5 |
| 557 | Muko Jima, Ogasawara Gunto | 27° 41' | 142° 08' | +0 50 | +0 50 | (*0.63-0.1) | | 2.2 | 2.8 | 2.3 |
| 559 | Futami Ko, Ogasawara Gunto <7> | 27° 05' | 142° 11' | +0 47 | +0 55 | *0.57 | *0.57 | 2.0 | 2.8 | 2.2 |
| 561 | Okimura, Ogasawara Gunto | 26° 38' | 142° 09' | +1 05 | +1 13 | (*0.63-0.1) | | 2.2 | 2.8 | 2.3 |
| 563 | Ishino, Kita Iwo Jima, Kazan Retto | 25° 26' | 141° 18' | +1 39 | +1 39 | *0.51 | *0.51 | 1.8 | 2.3 | 1.9 |
| 565 | Nishi, Iwo Jima, Kazan Retto | 24° 48' | 141° 18' | +1 35 | +1 43 | *0.51 | *0.51 | 1.8 | 2.3 | 1.9 |
| | Shikoku, South Coast | | | | | | | | | |
| | | | | on Naha, p.44 | | | | | | |
| 567 | Kannoura Ko | 33° 33' | 134° 18' | -1 25 | -1 25 | -0.5 | 0.0 | 3.6 | 4.8 | 3.6 |
| 569 | Muroto Saki | 33° 17' | 134° 09' | -1 22 | -1 23 | 0.0 | +0.1 | 4.0 | 5.2 | 3.9 |
| 571 | Urado Ko | 33° 30' | 133° 34' | -1 15 | -1 12 | *0.92 | *0.92 | 3.6 | 4.8 | 3.6 |
| 573 | Susaki Ko <8> | 33° 24' | 133° 17' | -1 19 | -1 20 | -0.3 | 0.0 | 3.8 | 5.0 | 3.7 |
| | Naikai (Inland Sea) | | | | | | | | | |
| | | | | on Yokohama, p.20 | | | | | | |
| | Kii Suido | | | | | | | | | |
| 575 | Hii Wan | 33° 55' | 135° 05' | +1 08 | +1 17 | -0.3 | -0.2 | 3.4 | 4.6 | 3.5 |
| 577 | Shimotsu Ura, Osaki Wan | 34° 07' | 135° 08' | +1 15 | +1 23 | -0.2 | -0.1 | 3.4 | 4.8 | 3.6 |
| 579 | Wakanoura Wan | 34° 11' | 135° 11' | +1 44 | +1 46 | (*0.89+0.2) | | 3.1 | 4.3 | 3.6 |
| 581 | Tachibana Ura | 33° 52' | 134° 39' | +0 55 | +1 04 | -0.4 | -0.3 | 3.4 | 4.5 | 3.4 |
| 583 | Komatsushima Ko | 34° 01' | 134° 36' | +1 03 | +1 11 | *0.87 | *0.85 | 3.1 | 4.2 | 3.3 |

Endnotes can be found at the end of table 2.

TABLE 2 – TIDAL DIFFERENCES AND OTHER CONSTANTS

| No. | PLACE | POSITION | | DIFFERENCES | | | | RANGES | | Mean Tide Level |
|-----|---|--------------|-------------|----------------------------|-----------|--------------------------|-----------|--------|--------|-----------------|
| | | Latitude | Longitude | Time | | Height | | Mean | Spring | |
| | | | | High Water | Low Water | High Water | Low Water | | | |
| | JAPAN Naikai (Inland Sea)–cont. Time meridian, 135° E | North | East | h | m | h | m | ft | ft | ft |
| | | | | on Naha, p.44 | | | | | | |
| | <i>Bungo Suido</i> | | | | | | | | | |
| 711 | Yawatahama Ko | 33° 27' | 132° 24' | +0 10 | +0 09 | +0.5 | +0.3 | 4.3 | 5.7 | 4.3 |
| 713 | Okuchi Wan | 33° 20' | 132° 23' | +0 08 | +0 07 | +0.4 | +0.2 | 4.3 | 5.7 | 4.2 |
| 715 | Hiburi Shima | 33° 10' | 132° 16' | +0 00 | -0 01 | +0.1 | +0.2 | 4.0 | 5.3 | 4.0 |
| 717 | Mizugaura, Uwajima Wan | 33° 12' | 132° 27' | +0 03 | +0 03 | +0.4 | +0.3 | 4.2 | 5.6 | 4.2 |
| 719 | Uwajima Ko | 33° 14' | 132° 33' | +0 05 | +0 04 | (*0.90+0.8) | | 3.7 | 5.2 | 4.3 |
| 721 | Kashiwa | 33° 01' | 132° 30' | -0 47 | -0 47 | 0.0 | +0.1 | 4.0 | 5.2 | 3.9 |
| 723 | Sukumo Ko | 32° 54' | 132° 42' | -1 08 | -1 08 | -0.2 | 0.0 | 3.9 | 5.2 | 3.8 |
| 725 | Katsura, Saeki Wan | 32° 59' | 131° 54' | -0 05 | -0 02 | (*0.80+0.3) | | 3.3 | 4.4 | 3.4 |
| 727 | Saganoseki, Shita Ura | 33° 14' | 131° 53' | +0 35 | +0 26 | +0.1 | +0.2 | 4.0 | 5.4 | 4.0 |
| | | | | on Kure, p.32 | | | | | | |
| 729 | <i>Suo Nada</i> | | | | | | | | | |
| | Hime Shima | 33° 44' | 131° 38' | -0 48 | -0 47 | (*0.84+0.2) | | 6.3 | 8.5 | 5.7 |
| 731 | Kakaji | 33° 41' | 131° 31' | -0 45 | -0 49 | -0.8 | -0.1 | 6.8 | 9.1 | 6.1 |
| 733 | Unoshima Ko | 33° 38' | 131° 08' | -0 52 | -0 56 | +0.5 | +0.2 | 7.8 | 10.4 | 6.9 |
| 735 | Tokuyama Wan | 34° 01' | 131° 49' | -1 02 | -1 01 | (*0.84+0.4) | | 6.3 | 8.5 | 5.9 |
| 737 | Mitajiri Ko | 34° 02' | 131° 35' | -0 54 | -0 58 | (*0.84+0.1) | | 6.3 | 8.5 | 5.6 |
| 739 | Ube Ko | 33° 56' | 131° 15' | -0 52 | -0 51 | +0.6 | +0.3 | 7.8 | 10.5 | 7.0 |
| | <i>Shimonoseki Kaikyo</i> | | | | | | | | | |
| 741 | Aohama, Kyushu | 33° 57' | 131° 01' | -0 47 | -0 47 | +0.6 | +0.1 | 8.0 | 10.8 | 6.9 |
| 743 | Iwakuro, Honshu | 33° 58' | 130° 59' | -0 37 | -0 41 | +0.3 | +0.1 | 7.7 | 10.4 | 6.8 |
| | | | | on Moji, p.36 | | | | | | |
| 745 | Shimonoseki, Honshu | 33° 58' | 130° 57' | +0 00 | +0 00 | *1.07 | *1.07 | 5.4 | 7.2 | 4.4 |
| 747 | Isakimachi | 33° 57' | 130° 55' | +0 09 | +0 02 | *1.02 | *1.02 | 4.7 | 6.4 | 4.1 |
| 749 | Moji, Kyushu | 33° 57' | 130° 58' | | | <i>Daily predictions</i> | | 4.59 | 6.56 | 4.27 |
| 751 | Tanokubi | 33° 55' | 130° 55' | +0 35 | +0 22 | *0.74 | *0.74 | 3.4 | 4.8 | 3.0 |
| 753 | Haidomari | 33° 57' | 130° 53' | +0 38 | +0 39 | *0.59 | *0.59 | 2.7 | 3.8 | 2.6 |
| 755 | Wakamatsu Ko | 33° 55' | 130° 49' | +0 54 | +0 48 | *0.59 | *0.59 | 2.7 | 3.7 | 2.6 |
| | Honshu, Northwest Coast | | | | | | | | | |
| 757 | Yoshimo | 34° 05' | 130° 52' | +0 46 | +0 39 | *0.50 | *0.50 | 2.3 | 3.2 | 2.3 |
| 759 | Kottoi | 34° 19' | 130° 54' | +1 05 | +0 58 | *0.52 | *0.52 | 2.4 | 3.2 | 2.4 |
| 761 | Yuya Wan (Aburatani Wan) | 34° 24' | 130° 57' | +1 11 | +1 04 | *0.39 | *0.39 | 1.8 | 2.5 | 1.9 |
| | | | | on Hong Kong, p.120 | | | | | | |
| 763 | Senzaki Ko | 34° 24' | 131° 12' | +1 07 | +1 17 | *0.39 | *0.32 | 1.5 | 2.0 | 1.7 |
| 765 | Hagi Ko | 34° 26' | 131° 25' | +1 27 | +1 37 | *0.36 | *0.32 | 1.3 | 1.8 | 1.6 |
| 767 | Esaki Ko | 34° 38' | 131° 39' | +2 05 | +2 15 | *0.26 | *0.25 | 0.9 | 1.2 | 1.2 |
| 769 | Hamada Ko (Tono Ura entrance) <12> | 34° 55' | 132° 04' | +2 41 | +2 50 | *0.20 | *0.18 | 0.7 | 0.9 | 0.9 |
| 771 | Sagi Ura | 35° 27' | 132° 41' | --- | --- | --- | --- | 0.5 | --- | --- |
| 773 | Kaka Ura | 35° 35' | 133° 03' | --- | --- | --- | --- | 0.5 | --- | --- |
| 775 | Sakai Ko, Miho Wan | 35° 33' | 133° 14' | --- | --- | --- | --- | 0.3 | --- | --- |
| 777 | Yonago Nakami | 35° 26' | 133° 19' | --- | --- | --- | --- | 0.3 | --- | --- |
| 779 | Hinotso Ura, Dozen, Oki Retto | 36° 05' | 133° 04' | --- | --- | --- | --- | 0.4 | --- | --- |
| 781 | Saigo Ko, Dogo, Oki Retto | 36° 12' | 133° 20' | --- | --- | --- | --- | 0.5 | --- | --- |
| 783 | Shibayama Ko | 35° 40' | 134° 40' | --- | --- | --- | --- | 0.5 | --- | --- |
| 785 | Ine Ko, Wakasa Wan | 35° 40' | 135° 17' | --- | --- | --- | --- | 0.5 | --- | --- |
| 787 | Maizuru Ko, Wakasa Wan <13> | 35° 27' | 135° 19' | --- | --- | --- | --- | 0.5 | --- | --- |
| 789 | Tsuruga Ko, Wakasa Wan <14> | 35° 40' | 136° 04' | --- | --- | --- | --- | 0.5 | --- | --- |
| 791 | Mikuni Ko | 36° 15' | 136° 08' | --- | --- | --- | --- | 0.5 | --- | --- |
| 793 | Wajima Ko | 37° 24' | 136° 54' | --- | --- | --- | --- | 0.5 | --- | 0.6 |
| 795 | Nanao, Nanao Wan | 37° 03' | 136° 58' | --- | --- | --- | --- | 0.5 | --- | --- |
| 797 | Fushiki Ko, Toyama Wan | 36° 48' | 137° 04' | --- | --- | --- | --- | 0.5 | --- | --- |
| 799 | Naoetsu Ko | 37° 11' | 138° 15' | --- | --- | --- | --- | 0.5 | --- | --- |
| 801 | Niigata Ko | 37° 57' | 139° 04' | --- | --- | --- | --- | 0.4 | --- | --- |
| 803 | Ogi Ko, Sado Shima | 37° 49' | 138° 17' | --- | --- | --- | --- | 0.5 | --- | --- |
| 805 | Ryo Zu Ko, Sado Shima | 38° 05' | 138° 26' | --- | --- | --- | --- | 0.5 | --- | --- |
| 807 | Kamo Ko | 38° 46' | 139° 44' | --- | --- | --- | --- | 0.4 | --- | --- |
| 809 | Tsuchizaki | 39° 45' | 140° 03' | --- | --- | --- | --- | 0.4 | --- | --- |
| 811 | Funakawa Wan | 39° 53' | 139° 52' | --- | --- | --- | --- | 0.5 | --- | --- |
| 813 | Iwasaki | 40° 35' | 139° 54' | --- | --- | --- | --- | 0.4 | --- | --- |
| 815 | Fuka Ura | 40° 39' | 139° 55' | --- | --- | --- | --- | 0.4 | --- | --- |
| 817 | Kodomari Wan | 41° 08' | 140° 18' | --- | --- | --- | --- | 0.6 | --- | --- |
| | Kyushu, East Coast | | | | | | | | | |
| | | | | on Naha, p.44 | | | | | | |
| 819 | Inokushi Ko <15> | 32° 48' | 131° 54' | -1 07 | -1 07 | (*0.88+0.2) | | 3.6 | 4.8 | 3.6 |
| 821 | Todoro Ko | 32° 30' | 131° 41' | -1 04 | -1 04 | *0.97 | *0.97 | 3.9 | 5.3 | 3.8 |
| 823 | Hososhima <16> | 32° 26' | 131° 40' | -0 51 | -0 43 | *0.90 | *0.90 | 3.6 | 4.8 | 3.5 |
| 825 | Mimitsu | 32° 20' | 131° 37' | -0 57 | -0 58 | *0.92 | *0.92 | 3.7 | 4.9 | 3.6 |
| 827 | Uchiiumi <17> | 31° 45' | 131° 28' | -1 07 | -1 07 | (*0.93+0.2) | | 3.8 | 5.0 | 3.8 |
| 829 | Tonoura | 31° 31' | 131° 22' | -1 09 | -1 09 | (*0.95+0.2) | | 3.9 | 5.2 | 3.9 |
| 831 | Fukushima Inamachi, Ariake Wan | 31° 27' | 131° 12' | -0 59 | -1 00 | -0.1 | 0.0 | 4.0 | 5.3 | 3.8 |

Endnotes can be found at the end of table 2.

TABLE 2 – TIDAL DIFFERENCES AND OTHER CONSTANTS

| No. | PLACE | POSITION | | DIFFERENCES | | | | RANGES | | Mean Tide Level |
|------|---|--------------|-------------|--|-----------|-------------|-----------|--------|--------|-----------------|
| | | Latitude | Longitude | Time | | Height | | Mean | Spring | |
| | | | | High Water | Low Water | High Water | Low Water | | | |
| | JAPAN Nansei Shoto (Southwestern Islands)-cont. Time meridian, 135° E | North | East | h | m | h | m | ft | ft | ft |
| | | | | on Naha, p.44 | | | | | | |
| 961 | Gakiya, Iheya Jima | 27° 03' | 127° 58' | -0 09 | -0 10 | *0.90 | *0.90 | 3.8 | 5.0 | 3.5 |
| | <i>Okinawa Shima</i> | | | | | | | | | |
| 963 | Sukku, Ora Wan | 26° 33' | 128° 02' | -0 39 | -0 39 | 0.0 | 0.0 | 4.1 | 5.5 | 3.9 |
| 965 | Yonabaru, Buckner Bay | 26° 12' | 127° 46' | -0 44 | -0 42 | -0.1 | -0.1 | 4.1 | 5.4 | 3.7 |
| 967 | NAHA | 26° 12' | 127° 40' | <i>Daily predictions</i> | | | | 4.1 | 5.6 | 3.9 |
| 969 | Sesoko Byochi | 26° 38' | 127° 53' | +0 11 | +0 11 | -0.2 | -0.2 | 4.1 | 5.4 | 3.7 |
| 971 | Unten Ko | 26° 40' | 128° 01' | -0 07 | -0 08 | *0.93 | *0.93 | 3.8 | 5.0 | 3.6 |
| 973 | Zamami Jima, Kerama Kaikyō | 26° 13' | 127° 18' | -0 06 | -0 07 | -0.1 | -0.1 | 4.1 | 5.4 | 3.8 |
| 975 | Gima Ko, Kume Shima | 26° 20' | 126° 44' | -0 07 | -0 07 | -0.1 | -0.1 | 4.1 | 5.4 | 3.8 |
| 977 | Minami Daito Jima | 25° 49' | 131° 14' | -0 35 | -0 35 | *0.81 | *0.81 | 3.3 | 4.4 | 3.2 |
| 979 | Miyako Hakuchi, Miyako Jima | 24° 48' | 125° 17' | +0 08 | +0 07 | *0.90 | *0.90 | 3.8 | 4.9 | 3.5 |
| 981 | Ishigaki, Ishigaki Shima | 24° 20' | 124° 10' | +0 03 | +0 02 | (*0.83+0.2) | | 3.4 | 4.4 | 3.4 |
| 983 | Funauke, Iriomote Jima | 24° 20' | 123° 44' | +0 19 | +0 18 | (*0.83+0.2) | | 3.3 | 4.4 | 3.4 |
| 985 | Yonakuni Jima | 24° 26' | 123° 00' | -0 03 | -0 03 | (*0.76+0.2) | | 3.1 | 4.2 | 3.2 |
| 987 | Kobi Sho, Sento Shosho | 25° 56' | 123° 41' | +0 44 | +0 43 | (*0.80+0.4) | | 3.3 | 4.5 | 3.5 |
| | KOREA Korea, Japan Sea | | | on Pusan, p.48 | | | | | | |
| 989 | Unggi-hang | 42° 20' | 130° 25' | --- | --- | --- | --- | 0.5 | --- | 0.7 |
| 991 | Sajin-man | 41° 59' | 130° 00' | --- | --- | --- | --- | 0.5 | --- | 0.7 |
| 993 | Taeryanghwa-man | 41° 12' | 129° 44' | --- | --- | --- | --- | 0.5 | --- | 0.7 |
| 995 | Songjin-hang | 40° 40' | 129° 13' | --- | --- | --- | --- | 0.6 | --- | 0.8 |
| 997 | Ch'aho-hang | 40° 12' | 128° 39' | --- | --- | --- | --- | 0.5 | --- | 0.7 |
| 999 | Sinp'o-hang | 40° 01' | 128° 12' | --- | --- | --- | --- | 0.6 | --- | 0.7 |
| 1001 | Sohojin-hang | 39° 49' | 127° 38' | --- | --- | --- | --- | 0.6 | --- | 0.7 |
| 1003 | Wonsan-hang, Yonghung-man | 39° 10' | 127° 26' | --- | --- | --- | --- | 0.6 | --- | 0.7 |
| 1005 | Changjon-hang | 38° 44' | 128° 12' | --- | --- | --- | --- | 0.5 | --- | 0.7 |
| 1007 | Chumunjin-hang | 37° 54' | 128° 50' | --- | --- | --- | --- | 0.5 | --- | 0.6 |
| 1009 | Ullung-do | 37° 29' | 130° 54' | --- | --- | --- | --- | 0.3 | --- | 0.4 |
| 1011 | Chukpyon-man | 37° 04' | 129° 26' | --- | --- | --- | --- | 0.4 | --- | 0.5 |
| 1013 | Ch'uksan-hand | 36° 30' | 129° 27' | --- | --- | --- | --- | 0.3 | --- | 0.4 |
| 1015 | Yongil-man | 36° 03' | 129° 23' | --- | --- | --- | --- | 0.3 | --- | 0.4 |
| 1017 | Ulsan | 35° 30' | 129° 23' | -0 52 | -0 44 | (*0.46+0.1) | | 1.3 | 1.8 | 1.1 |
| 1019 | T'aehwa-gang | 35° 28' | 129° 25' | -1 00 | -0 52 | (*0.43+0.2) | | 1.2 | 1.7 | 1.1 |
| 1021 | PUSAN | 35° 06' | 129° 02' | <i>Daily predictions</i> | | | | 2.8 | 4.0 | 2.1 |
| 1023 | Yong-do | 35° 05' | 129° 03' | -0 11 | -0 03 | 0.0 | -0.1 | 2.9 | 3.9 | 2.1 |
| 1025 | Ch'onsong-man, Kadok-to | 35° 01' | 128° 49' | +0 07 | +0 15 | *1.50 | *1.50 | 4.1 | 5.6 | 3.2 |
| 1027 | Masan-man | 35° 10' | 128° 34' | +0 10 | +0 18 | *1.60 | *1.60 | 4.4 | 6.1 | 3.4 |
| 1029 | Unp'ung-p'o, Chinhae-man | 35° 06' | 128° 29' | +0 08 | +0 16 | *1.74 | *1.74 | 4.8 | 6.6 | 3.7 |
| 1031 | Hyonnaeryang-haehyop, Chinhae-man | 34° 53' | 128° 28' | +0 20 | +0 29 | *1.80 | *1.80 | 5.0 | 6.8 | 3.8 |
| 1033 | Chise-p'o, Koje-do | 34° 50' | 128° 43' | +0 03 | +0 11 | *1.54 | *1.54 | 4.3 | 5.7 | 3.3 |
| | | | | on Ch'ang Chiang Approach, p.92 | | | | | | |
| 1035 | Choguri-man, Koje-do | 34° 43' | 128° 36' | -1 10 | -1 23 | (*0.63-1.6) | | 5.4 | 7.3 | 4.4 |
| 1037 | Koje-man, Koje-do | 34° 50' | 128° 35' | -1 08 | -1 20 | (*0.67-1.7) | | 5.8 | 7.8 | 4.7 |
| 1039 | Ch'ungmu-hang | 34° 51' | 128° 25' | -0 49 | -1 12 | (*0.67-1.7) | | 5.8 | 8.1 | 4.7 |
| 1041 | Yokchi-do | 34° 39' | 128° 16' | -0 59 | -1 11 | (*0.71-1.9) | | 6.1 | 8.2 | 4.9 |
| 1043 | Wis-som, Saryang-do | 34° 51' | 128° 14' | -1 01 | -1 13 | (*0.74-1.9) | | 6.4 | 8.7 | 5.2 |
| 1045 | Kosong-man | 34° 55' | 128° 21' | -0 55 | -1 07 | (*0.77-2.2) | | 6.6 | 8.8 | 5.2 |
| 1047 | Mijo-man, Namhae-do | 34° 43' | 128° 03' | -1 04 | -1 16 | (*0.74-1.8) | | 6.4 | 8.8 | 5.3 |
| 1049 | Samch'onp'o | 34° 56' | 128° 04' | -1 00 | -1 12 | (*0.77-2.1) | | 6.6 | 8.9 | 5.3 |
| 1051 | Ch'ojon-ni | 35° 03' | 128° 03' | -0 31 | -0 43 | -3.9 | -2.9 | 7.6 | 10.4 | 6.2 |
| 1053 | P'yongsan-ni, Namhae-do | 34° 46' | 127° 51' | -0 59 | -1 11 | -4.4 | -3.0 | 7.2 | 10.0 | 5.9 |
| 1055 | Yosu | 34° 45' | 127° 46' | -0 43 | -1 08 | -4.3 | -3.1 | 7.4 | 10.2 | 5.9 |
| 1057 | Kwangyang-man | 34° 51' | 127° 45' | -0 40 | -0 53 | -3.7 | -2.9 | 7.8 | 10.7 | 6.3 |
| 1059 | Noryang-ni | 34° 57' | 127° 53' | -0 43 | -0 55 | -3.9 | -2.9 | 7.6 | 10.4 | 6.2 |
| 1061 | Chobal-to, Yoja-man | 34° 38' | 127° 34' | -0 18 | -0 31 | -3.3 | -2.7 | 8.0 | 11.0 | 6.6 |
| 1063 | Tonae-hae, Komun-do | 34° 01' | 127° 19' | -0 21 | -0 34 | (*0.77-1.6) | | 6.6 | 9.0 | 5.8 |
| 1065 | Sonjuk-to, Sonjuk-yolto | 34° 17' | 127° 22' | -0 01 | -0 13 | (*0.79-1.6) | | 6.8 | 9.4 | 6.0 |
| 1067 | Sayang-do, Naro-yolto | 34° 28' | 127° 27' | -0 35 | -0 47 | -3.7 | -2.7 | 7.6 | 10.2 | 6.4 |
| 1069 | Kogum-sudo | 34° 30' | 127° 09' | -0 02 | -0 14 | -3.0 | -2.4 | 8.0 | 10.9 | 6.9 |
| 1071 | Mato-sudo | 34° 26' | 126° 51' | +0 20 | +0 07 | -2.7 | -2.4 | 8.3 | 11.5 | 7.1 |
| 1073 | Wando | 34° 18' | 126° 46' | +1 09 | +1 09 | -3.8 | -2.5 | 7.3 | 9.9 | 6.5 |
| 1075 | Soan-hang, Soan-do | 34° 09' | 126° 38' | +0 44 | +0 31 | -3.9 | -2.6 | 7.3 | 9.8 | 6.4 |
| | KOREA, Yellow Sea | | | | | | | | | |
| 1077 | Sangch'uja-do, Ch'uja-kundo <i>Cheju-do</i> | 33° 57' | 126° 17' | +1 24 | +1 12 | (*0.70-1.3) | | 6.0 | 7.9 | 5.4 |
| 1079 | Udo-sudo | 33° 30' | 126° 55' | -0 03 | -0 16 | (*0.56-0.9) | | 4.8 | 6.5 | 4.5 |
| 1081 | Sogwi-p'o | 33° 14' | 126° 33' | -0 08 | -0 21 | (*0.65-1.2) | | 5.6 | 7.5 | 5.0 |
| 1083 | Ch'agwi-do | 33° 18' | 126° 09' | +1 02 | +0 50 | (*0.63-1.0) | | 5.4 | 7.1 | 5.0 |
| 1085 | Cheju Harbor | 33° 31' | 126° 32' | +0 56 | +0 54 | (*0.59-1.1) | | 5.1 | 6.9 | 4.6 |
| 1087 | Hwabuk-ni | 33° 31' | 126° 35' | +0 54 | +0 41 | (*0.56-0.8) | | 4.8 | 6.4 | 4.6 |
| 1089 | Oran-ni, Maro-hae | 34° 21' | 126° 29' | +1 23 | +1 11 | -3.6 | -2.5 | 7.5 | 9.9 | 6.6 |
| 1091 | Sangma-do, Samma-do | 34° 27' | 126° 25' | +1 24 | +1 12 | -2.8 | -2.4 | 8.2 | 10.8 | 7.0 |
| 1093 | Hachodo | 34° 18' | 126° 03' | +3 40 | +3 01 | (*0.72-1.9) | | 6.2 | 8.1 | 5.0 |
| 1095 | Hat'ae-do, Naju-kundo | 34° 32' | 126° 03' | +3 08 | +2 56 | (*0.90-2.0) | | 7.7 | 9.9 | 6.6 |
| 1097 | Chin-do | 34° 30' | 126° 12' | +4 02 | +3 50 | -3.1 | -2.5 | 8.0 | 10.3 | 6.8 |
| 1099 | Baikpachin | 34° 32' | 126° 21' | +1 40 | +2 03 | -3.7 | -2.7 | 7.6 | 10.0 | 6.4 |
| 1101 | Usuyong | 34° 35' | 126° 18' | +3 50 | +3 21 | -3.6 | -3.0 | 8.0 | 10.0 | 6.3 |

Endnotes can be found at the end of table 2.

TABLE 2 – TIDAL DIFFERENCES AND OTHER CONSTANTS

| No. | PLACE | POSITION | | DIFFERENCES | | | | RANGES | | Mean Tide Level | | |
|------|---|--------------|-------------|--|-----------|------------|-----------|--------------------------|--------|-----------------|------|------|
| | | Latitude | Longitude | Time | | Height | | Mean | Spring | | | |
| | | | | High Water | Low Water | High Water | Low Water | | | | | |
| | KOREA, Yellow Sea—cont. Time meridian, 135° E | North | East | h | m | h | m | ft | ft | ft | | |
| | | | | on Ch'ang Chiang Approach, p.92 | | | | | | | | |
| 1103 | Siha-do | 34° 42' | 126° 15' | +4 | 28 | +3 | 36 | -2.5 | -2.5 | 8.6 | 10.6 | 7.1 |
| 1105 | Mokp'o | 34° 47' | 126° 23' | +5 | 26 | +4 | 36 | -3.0 | -3.3 | 8.9 | 11.2 | 6.5 |
| 1107 | Yongsan-dong | 34° 53' | 126° 32' | +6 | 02 | +5 | 50 | *0.88 | *0.60 | 9.0 | 11.2 | 7.7 |
| 1109 | Taehuksan-do, Taehuksan-kundo | 34° 41' | 125° 26' | +4 | 01 | +3 | 49 | *0.68 | *0.43 | 7.2 | 9.2 | 5.9 |
| 1111 | Pigum-sudo, Naju-kundo | 34° 43' | 125° 56' | +3 | 40 | +3 | 28 | -2.4 | -2.5 | 8.7 | 11.2 | 7.2 |
| 1113 | Chaun-do, Naju-kundo | 34° 53' | 126° 06' | +4 | 08 | +3 | 56 | -0.8 | -2.2 | 10.0 | 12.8 | 8.1 |
| 1115 | Imja-do | 35° 03' | 126° 05' | +4 | 31 | +4 | 19 | -0.9 | -2.4 | 10.1 | 13.5 | 8.0 |
| | | | | on Inch'on, p.52 | | | | | | | | |
| 1117 | Hamp'yong-man | 35° 09' | 126° 21' | -2 | 35 | -2 | 30 | (*0.63+0.7) | | 13.1 | 16.6 | 10.3 |
| 1119 | Anma-do, Anma-kundo | 35° 21' | 126° 01' | -2 | 28 | -2 | 23 | (*0.57+0.5) | | 11.8 | 15.1 | 9.2 |
| 1121 | Kogunsan-kundo | 35° 49' | 126° 24' | -1 | 58 | -1 | 53 | (*0.69+0.5) | | 14.3 | 18.4 | 11.0 |
| 1123 | Chuk-to, Kunsan-hang | 36° 02' | 126° 32' | -1 | 50 | -1 | 46 | (*0.72+0.7) | | 15.0 | 19.6 | 11.6 |
| 1125 | Kunsan, Kum-gang | 35° 59' | 126° 43' | -1 | 36 | -0 | 54 | *0.73 *0.75 | | 15.1 | 19.0 | 11.2 |
| 1127 | Ochongdo | 36° 07' | 125° 59' | -1 | 44 | -1 | 39 | (*0.64+0.8) | | 13.2 | 17.3 | 10.5 |
| 1129 | Oeyon-do, Oeyon-yolto | 36° 13' | 126° 04' | -1 | 36 | -1 | 32 | (*0.60+1.1) | | 12.5 | 16.7 | 10.2 |
| 1131 | So-do, Ch'onsu-man | 36° 24' | 126° 26' | -1 | 10 | -1 | 06 | (*0.77+0.6) | | 15.9 | 20.8 | 12.3 |
| 1133 | Mohang-ni | 36° 47' | 126° 08' | -0 | 57 | -0 | 52 | (*0.74+0.7) | | 15.4 | 20.0 | 11.9 |
| 1135 | Umo-do | 37° 02' | 126° 27' | -0 | 27 | -0 | 23 | *0.91 *0.98 | | 18.4 | 23.7 | 13.9 |
| 1137 | Asan | 36° 58' | 126° 47' | +0 | 02 | +0 | 02 | +0.3 | +0.3 | 20.7 | 27.4 | 15.5 |
| 1139 | Soya-do, So-sudo | 37° 14' | 126° 10' | -0 | 15 | -0 | 11 | (*0.85+0.6) | | 17.6 | 22.9 | 13.5 |
| 1141 | Taemuui-do, (Marie Fortnee Arch.) | 37° 23' | 126° 27' | -0 | 09 | -0 | 04 | -0.8 | +0.3 | 19.6 | 25.6 | 14.9 |
| 1143 | INCH'ON, Yom-ha | 37° 28' | 126° 37' | | | | | <i>Daily predictions</i> | | 20.7 | 27.1 | 15.2 |
| 1145 | Yongjong-do, Yom-ha | 37° 30' | 126° 34' | +0 | 06 | +0 | 06 | +0.4 | +0.4 | 20.7 | 27.2 | 15.6 |
| 1147 | Sinan-ni, Yom-ha | 37° 40' | 126° 32' | +0 | 55 | -- | -- | +1.2 | -- | -- | -- | -- |
| 1149 | Chumun-do, Songmo-sudo | 37° 39' | 126° 15' | +0 | 15 | +0 | 20 | (*0.92+0.4) | | 19.0 | 24.8 | 14.4 |
| 1151 | Taeyong'yong-do, Yonp'yong-yolto | 37° 40' | 125° 43' | +0 | 14 | +0 | 18 | (*0.76+0.5) | | 15.7 | 20.3 | 12.1 |
| 1153 | Mu-do, Haeju-man | 37° 44' | 125° 35' | +0 | 16 | +0 | 20 | (*0.72+0.9) | | 15.0 | 19.7 | 11.8 |
| 1155 | Haeju, Haeju-man | 38° 00' | 125° 42' | +0 | 44 | +0 | 49 | (*0.82+0.5) | | 16.9 | 22.0 | 13.0 |
| 1157 | Tungsan-got | 37° 41' | 125° 22' | +0 | 21 | +0 | 25 | (*0.62+1.1) | | 12.8 | 16.8 | 10.5 |
| 1159 | Sunwi-do, Sunwido-myoji | 37° 45' | 125° 20' | +0 | 31 | +0 | 36 | (*0.53+1.1) | | 10.9 | 14.3 | 9.2 |
| | | | | on Dalian, p.60 | | | | | | | | |
| 1161 | Kirin-do | 37° 50' | 125° 03' | -4 | 22 | -4 | 26 | *1.41 | *1.55 | 9.4 | 12.4 | 8.1 |
| 1163 | Taech'ong-do, Taech'ong-kundo | 37° 50' | 124° 43' | -4 | 02 | -4 | 05 | +1.4 | +0.8 | 7.5 | 9.7 | 6.8 |
| 1165 | Wollae-do | 38° 03' | 124° 49' | -3 | 59 | -4 | 02 | +1.3 | +0.7 | 7.5 | 9.5 | 6.7 |
| 1167 | Ch'angam-dong | 38° 07' | 124° 43' | -3 | 24 | -3 | 28 | +1.6 | +0.8 | 7.7 | 10.0 | 6.9 |
| 1169 | Monggum-do | 38° 11' | 124° 47' | -2 | 28 | -2 | 31 | +1.9 | +0.8 | 8.0 | 10.1 | 7.0 |
| 1171 | Chin po Ki | 38° 27' | 124° 56' | -2 | 15 | -2 | 19 | *1.41 | *1.45 | 9.6 | 12.3 | 8.0 |
| | | | | on Namp'O-Hang, p.56 | | | | | | | | |
| 1173 | Taedong-gang | | | | | | | | | | | |
| 1175 | Sok-to | 38° 38' | 125° 00' | -0 | 40 | -0 | 44 | -1.9 | -0.2 | 11.0 | 14.0 | 8.9 |
| 1177 | P'i-do | 38° 41' | 125° 11' | -0 | 27 | -0 | 24 | +1.0 | +0.1 | 13.6 | 16.8 | 10.5 |
| 1177 | NAMP'O-HANG | 38° 43' | 125° 24' | | | | | <i>Daily predictions</i> | | 12.7 | 15.6 | 10.0 |
| 1179 | Ch'ol-do | 38° 39' | 125° 38' | +0 | 20 | +0 | 24 | +1.7 | +0.2 | 14.2 | 17.9 | 10.9 |
| 1181 | Kyomip'o | 38° 44' | 125° 38' | +0 | 31 | +0 | 30 | (*1.21-0.3) | | 15.4 | 19.3 | 11.8 |
| 1183 | Sokhojong | 38° 57' | 125° 38' | +1 | 16 | +2 | 05 | +1.6 | +0.4 | 13.9 | 16.9 | 11.0 |
| 1185 | P'yongyang | 39° 01' | 125° 45' | +3 | 01 | +4 | 52 | (*0.18+0.6) | | 2.3 | 3.0 | 2.4 |
| 1187 | Sokhae-dong | 38° 31' | 125° 40' | +0 | 06 | +0 | 28 | (*1.31-0.4) | | 16.6 | 20.5 | 12.7 |
| 1189 | Unmu-do | 39° 25' | 125° 07' | +0 | 08 | +0 | 11 | *1.23 *1.23 | | 15.6 | 20.0 | 12.3 |
| 1191 | Nap-to | 39° 16' | 124° 43' | -0 | 07 | -0 | 03 | +1.2 | +0.4 | 13.5 | 17.6 | 10.8 |
| 1193 | Taehwa-do | 39° 27' | 124° 37' | +0 | 06 | +0 | 09 | *1.10 *1.10 | | 13.8 | 17.6 | 11.0 |
| 1195 | Ka-do | 39° 31' | 124° 40' | +0 | 10 | +0 | 13 | (*1.15-0.2) | | 14.6 | 18.5 | 11.3 |
| | <i>Yalu River and Approach</i> | | | | | | | | | | | |
| 1197 | Suun-do | 39° 42' | 124° 25' | +0 | 11 | +0 | 19 | +2.0 | +0.3 | 14.4 | 18.2 | 11.1 |
| 1199 | Tasa-do | 39° 48' | 124° 25' | +0 | 17 | +0 | 39 | (*1.19-0.3) | | 15.1 | 19.3 | 11.6 |
| 1201 | Shinto Islands | 39° 48' | 124° 16' | +0 | 28 | +0 | 32 | (*1.17-0.2) | | 14.9 | 19.2 | 11.5 |
| 1203 | Yongamp'o | 39° 56' | 124° 21' | +1 | 38 | +1 | 41 | -1.7 | -0.2 | 11.2 | 14.0 | 9.0 |
| | CHINA | | | | | | | | | | | |
| | CHINA, Yellow Sea, North Shore Time meridian, 120° E | | | | | | | | | | | |
| | <i>Yalu River and Approach—cont.</i> | | | | | | | | | | | |
| 1205 | Zhaoshigou [Chao-shin-kou] | 39° 53' | 124° 12' | -0 | 52 | +0 | 08 | (*1.09+0.7) | | 13.5 | 17.4 | 11.5 |
| 1207 | Dandong [Tan-tung] | 40° 07' | 124° 24' | +1 | 21 | +3 | 20 | (*0.59-0.3) | | 8.5 | 8.9 | 4.9 |
| 1209 | Dalu Dao [Talu Tao] | 39° 45' | 123° 45' | -0 | 47 | -0 | 26 | (*1.01+0.7) | | 12.5 | 15.7 | 10.8 |
| | CHINA, Liaoning, South Coast | | | | | | | | | | | |
| | <i>Dayang He</i> | | | | | | | | | | | |
| 1211 | Shishanzi | 39° 58' | 123° 40' | +0 | 06 | +1 | 25 | (*1.07+1.0) | | 8.2 | 8.9 | 6.6 |
| 1213 | Dagushan [Takushan Road] | 39° 46' | 123° 33' | -0 | 59 | -1 | 03 | (*1.92-0.3) | | 13.1 | 15.4 | 9.8 |
| | <i>Shicheng Liedao</i> | | | | | | | | | | | |
| 1215 | Xiaowangjia Dao | 39° 32' | 123° 05' | -1 | 06 | -1 | 09 | (*1.62+0.7) | | 10.8 | 13.8 | 9.2 |
| 1217 | Dawangjia Dao [Ta-wang-chia Tao] | 39° 27' | 123° 04' | -1 | 16 | -1 | 09 | (*1.60+0.0) | | 10.8 | 13.8 | 8.5 |
| | <i>Waichangshan Liedao</i> | | | | | | | | | | | |
| 1219 | Zhangzi Dao [Changtze Tao, Blonde Group] | 39° 03' | 122° 45' | -0 | 52 | -0 | 55 | (*1.21+0.0) | | 8.2 | 10.2 | 6.6 |
| | <i>Lichangshan Liedao</i> | | | | | | | | | | | |
| 1221 | Xiaochangshan Dao | 39° 14' | 122° 40' | -0 | 54 | -0 | 54 | (*1.29+0.7) | | 8.5 | 10.8 | 7.5 |
| 1223 | Dachangshan Dao [Tchangshan Tao] | 39° 16' | 122° 35' | -0 | 43 | -0 | 46 | (*1.35+0.3) | | 9.2 | 11.5 | 7.5 |

Endnotes can be found at the end of table 2.

TABLE 2 – TIDAL DIFFERENCES AND OTHER CONSTANTS

| No. | PLACE | POSITION | | DIFFERENCES | | | | RANGES | | Mean Tide Level |
|------|---|--------------|-------------|------------------------------|-----------|---------------------------------|-----------|--------|--------|-----------------|
| | | Latitude | Longitude | Time | | Height | | Mean | Spring | |
| | | | | High Water | Low Water | High Water | Low Water | | | |
| | CHINA, Shandong, Southeast Coast Time meridian, 120° E | North | East | h m | h m | ft | ft | ft | ft | ft |
| | | | | on Tanggu, p.68 | | | | | | |
| 1337 | Chengshan Jiao [Dove Cove, Jungcheng Bay] | 37° 23' | 122° 40' | +8 56 | +9 18 | (*0.32+0.3) | | 3.6 | 4.3 | 3.0 |
| 1339 | Lidao Wan [Litao Bay] | 37° 16' | 122° 33' | +9 50 | +9 40 | (*0.46-0.7) | | 4.9 | 5.6 | 3.0 |
| | | | | on Qingdao, p.76 | | | | | | |
| 1341 | Jinghai Jiao [Chinghai Point] | 36° 51' | 122° 11' | -1 52 | -2 26 | (*0.72+1.0) | | 7.5 | 7.9 | 6.6 |
| 1343 | Gulongzui [Niao-tsui Head] | 36° 45' | 121° 38' | -1 41 | -2 08 | (*0.84+0.3) | | 7.5 | 9.5 | 6.9 |
| 1345 | Haiyang [Haiyanghsein] | 36° 41' | 121° 14' | -1 08 | -1 32 | (*0.85+0.3) | | 8.5 | 9.2 | 6.9 |
| 1347 | Qunliyan | 36° 15' | 121° 23' | -1 10 | -1 25 | (*0.72+0.3) | | 6.6 | 8.2 | 5.9 |
| | <i>Jiaozhou Wan</i> | | | | | | | | | |
| 1349 | Nu Dao [Star Reef, Lao Shan Bay] | 36° 23' | 120° 50' | -0 24 | -0 57 | (*0.90-0.3) | | 9.2 | 9.5 | 6.6 |
| 1351 | Dongjia Wan [Tung-chai Harbor] | 36° 06' | 120° 32' | -0 05 | -0 37 | (*0.96-0.7) | | 9.8 | 10.2 | 6.9 |
| 1353 | Mai Dao | 36° 04' | 120° 25' | -0 12 | -0 15 | (*0.90+0.0) | | 7.9 | 9.8 | 7.2 |
| 1355 | Qingdao (Qianhai) | 36° 03' | 120° 19' | -0 05 | -0 09 | (*0.93+0.7) | | 8.2 | 10.5 | 7.9 |
| 1357 | Huang Dao | 36° 05' | 120° 19' | -0 07 | -0 03 | (*0.98+0.0) | | 8.5 | 10.8 | 7.5 |
| 1359 | QINGDAO (DA GANG) [Chingtao, Kaochou Wan] | 36° 05' | 120° 19' | | | <i>Daily predictions</i> | | 8.9 | 11.2 | 7.9 |
| 1361 | Tangdao Wan | 35° 55' | 120° 09' | +0 13 | +0 06 | (*0.91+0.7) | | 7.9 | 10.5 | 7.9 |
| 1363 | Lingshan Dao | 35° 46' | 120° 10' | +0 21 | +0 08 | (*0.86+0.7) | | 7.5 | 9.5 | 7.5 |
| 1365 | Huangjiatang Wan [Huangchiatang Wan] | 35° 32' | 119° 45' | +0 39 | +0 07 | (*0.93-0.3) | | 8.2 | 10.5 | 6.9 |
| 1367 | Shijiu Suo | 35° 25' | 119° 35' | +1 07 | +0 54 | (*1.09+0.3) | | 9.5 | 12.1 | 8.9 |
| | | | | on Lianyun Gang, p.80 | | | | | | |
| 1369 | Pingshan Dao | 35° 08' | 119° 54' | -0 21 | -0 41 | (*0.75+0.0) | | 8.2 | 10.5 | 7.2 |
| | CHINA, East Coast | | | | | | | | | |
| 1371 | Qinshan Dao | 34° 52' | 119° 17' | -0 04 | +0 03 | (*1.02-0.7) | | 11.2 | 14.4 | 9.2 |
| 1373 | LIANYUN GANG | 34° 45' | 119° 28' | | | <i>Daily predictions</i> | | 10.8 | 14.1 | 9.5 |
| 1375 | Kaishan Dao | 34° 32' | 119° 52' | +0 20 | +0 16 | (*0.85+1.0) | | 10.8 | 11.5 | 8.9 |
| 1377 | Kuataokou | 34° 04' | 120° 22' | +1 54 | +2 41 | (*0.57-0.3) | | 7.2 | 7.9 | 4.9 |
| 1379 | Xinyang Gang | 33° 37' | 120° 28' | +5 41 | +6 46 | (*0.52+1.6) | | 5.9 | 7.2 | 6.6 |
| 1381 | Chenjiawu | 33° 06' | 121° 13' | +5 34 | +5 22 | (*1.00+0.3) | | 11.2 | 14.4 | 9.8 |
| 1383 | Off Chuanshui Gang | 32° 58' | 121° 07' | +6 26 | +6 04 | (*1.22+0.3) | | 13.1 | 17.1 | 11.8 |
| 1385 | Xiaoyangkou | 32° 33' | 120° 59' | +4 27 | +3 55 | (*0.69+3.0) | | 7.5 | 9.8 | 9.5 |
| 1387 | Lusi | 32° 08' | 121° 35' | +6 11 | +5 41 | (*1.06+0.0) | | 11.8 | 16.1 | 10.2 |
| | | | | on Wusong, p.84 | | | | | | |
| | <i>Changjiangkou</i> | | | | | | | | | |
| 1389 | Tongsha Shazui | 31° 06' | 122° 01' | -1 57 | -2 21 | (*1.21+0.7) | | 9.2 | 11.8 | 8.5 |
| 1391 | She Shan | 31° 25' | 122° 14' | -1 38 | -2 26 | (*1.09+0.3) | | 8.2 | 11.2 | 7.5 |
| 1393 | ZHONGJUN, CHANGJIANG APPROACH | 31° 07' | 121° 54' | | | <i>Daily predictions, p.88</i> | | 8.5 | 11.8 | 7.5 |
| 1395 | Jiudian Beacon | 31° 16' | 121° 43' | -0 50 | -1 20 | (*1.05+0.7) | | 7.9 | 10.5 | 7.5 |
| 1397 | Hengsha | 31° 17' | 121° 51' | -0 49 | -1 01 | (*1.11-0.3) | | 8.2 | 11.2 | 6.9 |
| | <i>Chongming Dao</i> | | | | | | | | | |
| 1399 | Laomihung | 31° 30' | 121° 40' | -0 40 | -0 49 | (*1.15-0.7) | | 8.5 | 9.8 | 6.9 |
| 1401 | Qixiao Gang | 31° 28' | 121° 44' | -0 38 | -0 47 | (*1.12-0.7) | | 8.2 | 11.2 | 6.9 |
| 1403 | Shixiao Gang | 31° 28' | 121° 47' | -0 22 | -0 30 | (*1.12-0.7) | | 8.2 | 11.2 | 6.6 |
| 1405 | Bao Zhen | 31° 32' | 121° 38' | +0 28 | +0 23 | (*0.95-0.7) | | 6.9 | 9.5 | 5.6 |
| | <i>Huangpu Jiang</i> | | | | | | | | | |
| 1407 | Gaoqiao | 31° 22' | 121° 35' | -0 06 | -0 21 | (*1.05-0.7) | | 7.9 | 10.5 | 6.6 |
| 1409 | WUSONG [Shanghai, Wusung Bar] | 31° 24' | 121° 31' | | | <i>Daily predictions</i> | | 7.5 | 9.8 | 6.6 |
| 1411 | Shanghai Gang [Shanghai, Huangpu River] | 31° 15' | 121° 29' | +0 41 | +0 45 | (*0.83+0.7) | | 6.2 | 8.2 | 5.9 |
| 1413 | Jianyuan Dock | 31° 12' | 121° 30' | +0 55 | +1 06 | *0.80 | -- | -- | -- | -- |
| | <i>Chang Jiang</i> | | | | | | | | | |
| 1415 | Xulujing | 31° 46' | 120° 56' | +2 58 | +3 02 | (*0.82-0.7) | | 6.2 | 8.2 | 4.9 |
| 1417 | Jiangyin | 31° 57' | 120° 18' | +5 14 | +5 36 | (*0.68-0.7) | | 4.9 | 6.9 | 3.9 |
| | <i>Hangzhou Wan</i> | | | | | | | | | |
| 1419 | Jinshanzui | 30° 44' | 121° 22' | -0 10 | -0 38 | (*1.61-1.0) | | 11.8 | 15.7 | 10.2 |
| 1421 | Zhapu | 30° 36' | 121° 05' | +0 43 | -0 04 | (*1.97-2.0) | | 14.8 | 19.4 | 11.5 |
| 1423 | Haining | 30° 25' | 120° 32' | +1 59 | +4 46 | (*1.69+0.0) | | 12.8 | 16.7 | 11.2 |
| 1425 | CH'ANG CHIANG APPROACH (Side Saddle) <41> | 30° 49' | 122° 38' | | | <i>Daily predictions, p.92</i> | | 8.6 | 11.7 | 9.6 |
| 1427 | KANMEN (Yuhuan Dao) | 28° 05' | 121° 17' | | | <i>Daily predictions, p.96</i> | | 13.1 | 17.1 | 10.8 |
| | TAIWAN, East Coast | | | | | | | | | |
| | | | | on Naha, p.44 | | | | | | |
| 1429 | KEELUNG (CHI-LUNG CHIANG) <25> | 25° 09' | 121° 45' | | | <i>Daily predictions, p.112</i> | | 1.5 | 2.4 | 1.9 |
| 1431 | Su-ao Kang | 24° 35' | 121° 52' | -1 13 | -1 13 | (*0.78+0.2) | | 3.2 | 4.2 | 3.2 |
| 1433 | Hua-lien Kang | 23° 58' | 121° 37' | -1 15 | -1 15 | *0.83 *0.83 | | 3.4 | 4.5 | 3.2 |
| 1435 | Ch'eng-kuang-ao Po-ti | 23° 08' | 121° 24' | -1 19 | -1 20 | *0.86 *0.83 | | 3.6 | 4.8 | 3.3 |
| 1437 | Tu-lan Wan | 22° 50' | 121° 11' | -1 17 | -1 17 | *0.76 *0.76 | | 3.1 | 4.1 | 3.0 |
| 1439 | Nan-liao Wan, Lu Tao | 22° 40' | 121° 28' | -1 22 | -1 22 | *0.73 *0.72 | | 3.0 | 4.1 | 2.8 |
| 1441 | Pa-tai Wan, Lan Yu | 22° 02' | 121° 34' | -1 03 | -1 04 | (*0.80-0.2) | | 3.3 | 4.4 | 2.9 |
| | TAIWAN, West Coast | | | | | | | | | |
| | | | | on Hong Kong, p.120 | | | | | | |
| 1443 | Ta-pan-lieh Mao-ti | 21° 58' | 120° 45' | -2 55 | -2 46 | *0.59 *0.57 | | 2.0 | 2.6 | 2.6 |
| 1445 | Ch'e-ch'eng Po-ti | 22° 04' | 120° 42' | -2 31 | -2 21 | *0.51 *0.54 | | 1.6 | 2.1 | 2.3 |
| 1447 | Tung-kang Po-ti | 22° 28' | 120° 26' | -1 31 | -1 22 | *0.48 *0.46 | | 1.6 | 1.9 | 2.1 |
| 1449 | Kao-hsiung <26> | 22° 37' | 120° 16' | -1 16 | -1 07 | *0.38 *0.39 | | 1.2 | 1.5 | 1.7 |
| 1451 | An-p'ing Kang | 23° 00' | 120° 09' | -0 09 | +0 00 | *0.43 *0.39 | | 1.5 | 1.9 | 1.9 |
| 1453 | Ting-t'ou-o-shan | 23° 06' | 120° 04' | +0 45 | +0 54 | *0.54 *0.43 | | 2.1 | 2.3 | 2.3 |

Endnotes can be found at the end of table 2.

TABLE 2 – TIDAL DIFFERENCES AND OTHER CONSTANTS

| No. | PLACE | POSITION | | DIFFERENCES | | | | RANGES | | Mean Tide Level |
|------|--|--------------|-------------|--|-----------|--------------------------|-----------|--------|--------|-----------------|
| | | Latitude | Longitude | Time | | Height | | Mean | Spring | |
| | | | | High Water | Low Water | High Water | Low Water | | | |
| | P'ENG-HU CH'UN-TAO Time meridian, 120° E (Pescadore Islands) | North | East | h m | h m | ft | ft | ft | ft | ft |
| | | | | on PengHu (Ma-Kung Kang), p.108 | | | | | | |
| 1455 | Ch'i-mei Yu | 23° 13' | 119° 25' | +0 07 | +0 11 | (*0.62+0.5) | | 3.8 | 4.5 | 3.7 |
| 1457 | Pa-chao Yu | 23° 22' | 119° 31' | -0 04 | +0 00 | *0.72 *0.72 | | 4.2 | 4.9 | 3.7 |
| 1459 | Tung-p'an Hsu | 23° 31' | 119° 31' | +0 06 | +0 10 | +0.1 +0.1 | | 6.1 | 7.1 | 5.2 |
| 1461 | PENGHU (MA-KUNG KANG) | 23° 33' | 119° 34' | | | <i>Daily predictions</i> | | 6.1 | 7.1 | 5.1 |
| 1463 | Pei-liao | 23° 36' | 119° 40' | -0 01 | +0 03 | +1.1 +0.1 | | 7.1 | 8.9 | 5.7 |
| 1465 | Hsiao-men Hsu, Niu-kung Wan | 23° 39' | 119° 31' | +0 21 | +0 24 | *1.31 *1.20 | | | | |
| 1467 | Chi-pei Tao | 23° 44' | 119° 36' | +0 13 | +0 16 | *1.30 *1.10 | | 8.3 | 10.1 | 6.4 |
| | TAIWAN, West Coast-cont. | | | | | | | | | |
| 1469 | Pu-tai Po-ti | 23° 23' | 120° 09' | -0 29 | -0 25 | *0.72 *0.72 | | 4.2 | 5.0 | 3.7 |
| 1471 | Hai-k'ou Po-ti | 23° 42' | 120° 10' | +0 12 | +0 15 | +1.5 -0.2 | | 7.8 | 9.4 | 5.7 |
| 1473 | Fang-yuan Po-ti | 23° 55' | 120° 18' | +0 12 | +0 15 | (*1.61-1.1) | | 9.8 | 11.8 | 7.1 |
| 1475 | T'u-ko-k'iu Kang | 24° 11' | 120° 29' | +0 02 | +0 06 | (*1.67-1.3) | | 10.2 | 12.4 | 7.2 |
| 1477 | Ta-an Kang | 24° 23' | 120° 34' | -0 06 | -0 03 | (*2.00-1.5) | | 12.0 | 15.0 | 8.7 |
| 1479 | Hou-lung Po-ti | 24° 37' | 120° 45' | -0 05 | -0 01 | (*1.85-1.2) | | 11.3 | 14.3 | 8.2 |
| 1481 | Tan-shui Kang | 25° 11' | 121° 26' | -0 14 | -0 10 | +0.9 0.0 | | 7.0 | 8.8 | 5.5 |
| | CHINA, East Coast-cont. | | | | | | | | | |
| | | | | on Xiamen, p.100 | | | | | | |
| 1483 | Shizhen (Zhongwai Yu) | 24° 33' | 118° 30' | -0 55 | -0 42 | (*0.99+0.0) | | 12.5 | 15.7 | 10.8 |
| 1485 | Wutongdao | 24° 32' | 118° 11' | -0 04 | -0 03 | (*1.03-0.3) | | 12.8 | 15.7 | 10.8 |
| 1487 | Dadan Dao [Amoy, outer harbor] | 24° 23' | 118° 10' | -0 04 | +0 02 | (*0.99-0.3) | | 12.5 | 15.1 | 10.8 |
| 1489 | XIAMEN [Amoy, inner harbor] | 24° 27' | 118° 04' | | | <i>Daily predictions</i> | | 12.5 | 15.7 | 10.8 |
| 1491 | Qianyan [Knob Rock] | 23° 55' | 117° 52' | +0 07 | +0 12 | (*0.80-1.0) | | 11.5 | 11.8 | 7.9 |
| | | | | on Shantou, p.104 | | | | | | |
| 1493 | Nanao Dao (Yunao Wan) | 23° 24' | 117° 03' | -0 46 | -0 34 | (*1.17-0.3) | | 5.3 | 5.9 | 4.9 |
| 1495 | SHANTOU (MAYU) [Swatow, Double Island] | 23° 20' | 116° 45' | | | <i>Daily predictions</i> | | 4.3 | 4.9 | 4.6 |
| 1497 | Dahao | 23° 15' | 116° 55' | -0 11 | +0 21 | (*0.74-0.3) | | 3.3 | 4.3 | 3.0 |
| 1499 | Biaojiao | 23° 15' | 116° 45' | +0 09 | -0 05 | (*1.04+0.0) | | 4.6 | 5.6 | 4.6 |
| 1501 | Dahao Dock | 23° 15' | 116° 45' | +0 15 | -0 19 | (*0.87-0.3) | | 3.9 | 4.9 | 3.6 |
| 1503 | Haimen Wan | 23° 11' | 116° 37' | +0 26 | -0 27 | (*0.73+0.3) | | 3.3 | 4.3 | 3.6 |
| | CHINA, South Coast | | | | | | | | | |
| 1505 | Shibeshan Jiao | 22° 56' | 116° 29' | -0 09 | -0 26 | (*0.74-0.3) | | 3.3 | 3.9 | 3.0 |
| | | | | on Hong Kong, p.120 | | | | | | |
| | <i>Mirs Bay</i> | | | | | | | | | |
| 1507 | Peng Chau | 22° 33' | 114° 26' | +0 03 | -0 04 | -0.6 -0.3 | | 3.0 | 5.3 | 4.0 |
| 1509 | Jones Cove | 22° 28' | 114° 20' | -0 27 | -0 16 | -0.4 -0.1 | | 3.0 | 4.9 | 4.2 |
| 1511 | Tide Cove | 22° 24' | 114° 12' | -0 12 | -0 15 | -0.2 +0.1 | | 3.0 | 5.3 | 4.4 |
| 1513 | Port Shelter | 22° 23' | 114° 17' | -0 33 | -0 27 | -0.4 -0.1 | | 3.0 | 5.3 | 4.2 |
| | <i>Hong Kong Island</i> | | | | | | | | | |
| 1515 | Taitam Bay | 22° 14' | 114° 14' | -0 07 | -0 07 | -0.6 -0.1 | | 2.8 | 4.6 | 4.1 |
| 1517 | Aberdeen Harbor | 22° 15' | 114° 09' | -0 04 | -0 01 | -0.6 -0.1 | | 2.8 | 4.6 | 4.1 |
| 1519 | HONG KONG | 22° 18' | 114° 12' | | | <i>Daily predictions</i> | | 3.3 | 5.1 | 4.5 |
| | <i>Canton River approach</i> | | | | | | | | | |
| 1521 | Wen Wei Rock | 21° 49' | 113° 56' | +0 08 | +0 21 | (*0.88-1.0) | | 2.2 | 4.5 | 3.0 |
| 1523 | Wai-ling-ting | 22° 06' | 114° 02' | +0 11 | +0 01 | -0.4 -0.3 | | 3.2 | 5.0 | 4.1 |
| 1525 | Kapshui Mun | 22° 21' | 114° 03' | +0 16 | +0 06 | +0.5 +0.4 | | 3.4 | 5.8 | 4.9 |
| 1527 | West Brother | 22° 20' | 113° 58' | +0 53 | +0 52 | +0.7 +0.3 | | 3.7 | 5.9 | 5.0 |
| 1529 | Macao Harbor | 22° 11' | 113° 33' | +0 45 | +0 49 | +3.3 +3.0 | | 3.6 | 5.5 | 7.6 |
| | | | | on Huangpu, p.116 | | | | | | |
| 1531 | Sishengwei | 22° 55' | 113° 36' | -0 59 | -1 07 | (*1.01+0.3) | | 7.2 | 8.2 | 5.6 |
| 1533 | Sanshakou | 22° 53' | 113° 31' | -0 49 | -0 51 | (*0.97+0.7) | | 6.9 | 7.9 | 5.6 |
| 1535 | Nizhoutou | 22° 54' | 113° 34' | -0 35 | -0 56 | (*1.03+0.7) | | 7.2 | 8.2 | 6.2 |
| 1537 | Haixin | 22° 58' | 113° 32' | -0 46 | -0 54 | (*0.99+0.7) | | 7.2 | 8.2 | 5.9 |
| 1539 | Dasheng | 23° 03' | 113° 32' | -0 14 | -0 20 | (*0.96+0.3) | | 6.9 | 7.5 | 5.3 |
| 1541 | Chisha (Lighthouse) | 23° 03' | 113° 30' | +0 07 | -0 27 | (*1.00+0.0) | | 6.9 | 7.9 | 5.3 |
| 1543 | HUANGPU | 23° 06' | 113° 27' | | | <i>Daily predictions</i> | | 6.9 | 7.9 | 5.3 |
| 1545 | Bazhou | 23° 07' | 113° 22' | +0 43 | +0 14 | (*0.90+0.3) | | 6.2 | 7.2 | 4.9 |
| | | | | on Haikou, p.124 | | | | | | |
| 1547 | Leizhou Bandao Chikanzi (Hongkan Wan) | 20° 19' | 110° 24' | +1 13 | +0 05 | (*0.79+0.3) | | 3.6 | 4.3 | 4.6 |
| 1549 | Haian | 20° 16' | 110° 13' | +0 04 | +0 04 | (*0.87+1.0) | | 4.3 | 5.6 | 5.6 |
| | Hainan Island | | | | | | | | | |
| | <i>Hainan Dao North Coast</i> | | | | | | | | | |
| 1551 | Dengmai Wan | 19° 57' | 110° 07' | -1 15 | -0 25 | (*1.32+0.3) | | 6.2 | 9.2 | 6.6 |
| 1553 | HAIKOU (XIUJING) | 20° 01' | 110° 16' | | | <i>Daily predictions</i> | | 4.6 | 6.6 | 4.9 |
| 1555 | Haikoushi [Hai-k'ou, Hoihow] | 20° 03' | 110° 20' | +0 52 | +0 30 | (*0.65+1.3) | | 3.3 | 4.3 | 4.6 |
| 1557 | Puqian | 20° 02' | 110° 34' | +2 05 | +1 05 | (*0.73+0.3) | | 3.6 | 4.3 | 4.3 |
| 1559 | Dongxicun | 20° 02' | 110° 37' | +2 30 | +1 13 | (*0.79-0.3) | | 3.9 | 4.3 | 3.9 |

Endnotes can be found at the end of table 2.

TABLE 2 – TIDAL DIFFERENCES AND OTHER CONSTANTS

| No. | PLACE | POSITION | | DIFFERENCES | | | | RANGES | | Mean Tide Level |
|------|---|--------------|-------------|-------------|-----------|--------------------------|-----------|--------------|--------|-----------------|
| | | Latitude | Longitude | Time | | Height | | Mean | Spring | |
| | | | | High Water | Low Water | High Water | Low Water | | | |
| | CHINA Hainan Island—cont. Time meridian, 120° E | North | East | h m | h m | ft | ft | ft | ft | ft |
| 1561 | Hainan Dao, West Coast Yinggehai | 18° 30' | 108° 43' | -5 30 | -6 14 | (*0.38-0.3) | | 3.6 | 4.9 | 2.3 |
| | CHINA, South Coast—cont. | | | | | | | | | |
| 1563 | Reizhou Bandao Kuwei Jiao | 20° 13' | 109° 56' | -1 51 | -0 21 | (*1.14+0.7) | | 5.6 | 7.9 | 6.2 |
| | Beibu Wan | | | | | | | | | |
| 1565 | Weizhou Dao | 21° 02' | 109° 07' | -0 19 | -0 07 | (*0.91+0.3) | | 8.5 | 12.5 | 7.9 |
| 1567 | BEIHAI | 21° 29' | 109° 05' | | | Daily predictions | | 9.5 | 13.1 | 8.5 |
| 1569 | Off Beihai | 21° 29' | 108° 59' | -0 02 | +0 04 | (*1.11+0.3) | | 10.5 | 14.4 | 9.5 |
| 1571 | Dafeng Jiang | 21° 38' | 108° 52' | +0 15 | +0 31 | (*0.98-0.3) | | 9.2 | 13.1 | 7.9 |
| 1573 | Sanniang Wan | 21° 38' | 108° 47' | -0 10 | -0 03 | (*0.99+1.6) | | 9.2 | 13.1 | 10.2 |
| | VIETNAM Time meridian, 105° E | | | | | | | | | |
| 1575 | Lochuc San § | 21° 15' | 107° 57' | -1 48 | -1 41 | (*0.74+0.5) | | 7.8 | 10.8 | 7.8 |
| 1577 | Cu Xu, Kao Tao § | 20° 59' | 107° 45' | -1 55 | -1 11 | (*0.68-0.3) | | 7.2 | 10.2 | 6.4 |
| 1579 | Tsieng Mun § | 21° 08' | 107° 37' | -1 40 | -0 59 | *0.68 *0.68 | | 7.2 | 10.2 | 6.8 |
| 1581 | Cai Bau, Cai Bau Island § | 21° 07' | 107° 30' | +0 18 | -1 32 | +1.2 +0.9 | | 6.8 | 10.8 | 7.1 |
| 1583 | Campha Port § | 21° 02' | 107° 22' | +0 06 | -1 44 | +1.1 +0.9 | | 6.7 | 9.6 | 7.1 |
| 1585 | Norway Islands § | 20° 37' | 107° 09' | +0 05 | -0 29 | +0.1 +0.1 | | 6.5 | 9.7 | 6.2 |
| 1587 | Hon Gai, Halong Bay § | 20° 57' | 107° 04' | +0 21 | -0 09 | +2.9 +1.7 | | 7.7 | 11.4 | 8.4 |
| 1589 | Cat Ba, Isle de la Cat Ba § | 20° 43' | 107° 03' | +0 05 | -0 24 | (*0.97+0.7) | | 6.3 | 9.3 | 6.6 |
| 1591 | DO SON (Hon Dau) § | 20° 40' | 106° 49' | | | Daily predictions, p.132 | | 6.5 | 9.7 | 6.1 |
| 1593 | Cua Namtrieu § | 20° 46' | 106° 50' | +0 00 | +0 44 | -0.1 -0.1 | | 6.5 | 9.7 | 6.0 |
| 1595 | Haiphong, Cua Cam § | 20° 52' | 106° 40' | +1 11 | +1 04 | *0.97 *0.97 | | 6.1 | 9.0 | 6.0 |
| 1597 | Bach Long Vi Island § | 20° 08' | 107° 43' | -0 23 | -2 11 | (*0.95+0.6) | | 6.2 | 9.2 | 6.4 |
| 1599 | Balat River entrance § | 20° 18' | 106° 32' | -0 47 | +0 12 | (*0.95+0.5) | | 6.2 | 9.2 | 6.3 |
| 1601 | Hon Ne § | 19° 55' | 106° 00' | -1 00 | +0 07 | +0.2 +0.2 | | 6.5 | 9.3 | 6.5 |
| 1603 | Hon Me § | 19° 23' | 105° 55' | -1 05 | +0 46 | -0.1 -0.3 | | 6.7 | 8.6 | 6.2 |
| 1605 | Hon Nieu § | 18° 48' | 105° 46' | -1 27 | +1 00 | *0.93 *0.93 | | 6.1 | 7.8 | 6.0 |
| 1607 | Hoi River entrance § | 18° 46' | 105° 45' | -0 14 | +1 45 | *0.72 *0.69 | | 4.8 | 6.4 | 4.8 |
| 1609 | Sot River entrance § | 18° 28' | 105° 55' | -1 14 | +1 39 | (*0.54+0.7) | | 3.5 | 4.5 | 4.0 |
| 1611 | Vung Chua Bay § | 17° 56' | 106° 30' | -1 12 | +1 21 | *0.39 *0.34 | | 2.7 | 3.4 | 2.5 |
| 1613 | Nhat Le River entrance § | 17° 30' | 106° 37' | -1 12 | +1 21 | *0.32 *0.28 | | 2.2 | 2.8 | 2.0 |
| | on Paramushir Island, p.8 | | | | | | | Diurnal | Tropic | |
| 1615 | Paracel Islands <27> † | 16° 33' | 111° 37' | -1 20 | -1 16 | +2.1 +2.1 | | 3.1 | 3.8 | 3.9 |
| 1617 | Chon May Bay <27> † | 16° 20' | 108° 01' | +0 29 | -0 29 | (*0.48+1.8) | | 1.6 | 2.0 | 2.5 |
| 1619 | Da Nang <27> † | 16° 07' | 108° 13' | -0 12 | -0 57 | (*0.70+1.9) | | 2.3 | 2.7 | 3.0 |
| 1621 | Culao Cham <27> † | 15° 57' | 108° 30' | -0 27 | -0 36 | (*0.85+2.2) | | 2.8 | 3.5 | 3.6 |
| 1623 | Dung Quat Bay <27> † | 15° 24' | 108° 45' | -0 38 | -0 30 | +2.2 +2.1 | | 3.4 | 4.4 | 3.9 |
| 1625 | Tam Quan <27> † | 14° 35' | 109° 04' | -0 51 | -0 31 | +2.2 +2.2 | | 3.2 | 4.3 | 4.0 |
| 1627 | Qui Nhon <27> † | 13° 45' | 109° 13' | -0 53 | -0 29 | +2.8 +2.5 | | 3.6 | 4.5 | 4.3 |
| 1629 | Vung Xuan Dai <27> † | 13° 23' | 109° 16' | -0 54 | -0 39 | +2.3 +2.3 | | 3.2 | 4.3 | 4.1 |
| 1631 | Vung Ro <27> † | 12° 52' | 109° 25' | -1 01 | -0 42 | +2.6 +2.5 | | 3.4 | 4.6 | 4.3 |
| 1633 | Port Van <27> † | 12° 40' | 109° 23' | -1 03 | -0 45 | +2.6 +2.5 | | 3.4 | 4.6 | 4.3 |
| 1635 | Nha Trang, Baie de <27> † | 12° 15' | 109° 13' | -1 15 | -0 46 | +2.7 +2.4 | | 3.6 | 4.6 | 4.3 |
| 1637 | Cam Ranh Bay <27> † | 11° 53' | 109° 12' | -1 18 | -0 53 | +2.4 +1.9 | | 3.8 | 4.8 | 4.1 |
| 1639 | Mui Dinh <27> † | 11° 22' | 109° 01' | -0 39 | -0 30 | +1.7 +1.4 | | 3.6 | 4.8 | 3.3 |
| 1641 | Pointe Lagan <27> † | 11° 10' | 108° 42' | -0 50 | -0 23 | +5.3 +4.5 | | 4.1 | 5.2 | 6.8 |
| 1643 | Poulo Cecir de Mer <27> † | 10° 32' | 108° 56' | -0 36 | -0 24 | +3.5 +3.4 | | 3.4 | 4.2 | 5.3 |
| 1645 | Phan Thiet <27> † | 10° 55' | 108° 06' | +0 13 | +0 14 | +5.7 +4.7 | | 4.3 | 5.8 | 7.0 |
| | on Mui Vung Tau, p.136 | | | | | | | Mean Diurnal | | |
| 1647 | Mui Ke Ga | 10° 42' | 107° 59' | -1 28 | -1 27 | (*0.59+2.5) | | 3.0 | 5.1 | 7.2 |
| 1649 | Mui Ba Kiem | 10° 30' | 107° 30' | -0 31 | -0 31 | (*0.85+0.8) | | 5.0 | 7.3 | 7.5 |
| | Saigon River | | | | | | | | | |
| 1651 | MUI VUNG TAU | 10° 20' | 107° 05' | | | Daily predictions | | 5.9 | 8.6 | 7.9 |
| 1653 | Coral Bank | 10° 37' | 106° 51' | +0 51 | +1 23 | (*0.97+1.6) | | 5.6 | 8.3 | 9.3 |
| 1655 | Ho Chi Minh City | 10° 46' | 106° 42' | +2 10 | +2 39 | -0.4 <28> | | 6.9 | 8.6 | 7.5 |
| 1657 | Nha Be River entrance | 10° 23' | 106° 48' | +0 28 | +1 25 | 0.0 0.0 | | 5.9 | 8.6 | 7.9 |
| 1659 | Cua Tieu entrance | 10° 15' | 106° 47' | +0 43 | +0 42 | (*1.10-0.3) | | 6.6 | 9.5 | 8.4 |
| 1661 | My Tho, Cua Tieu | 10° 21' | 106° 21' | +1 30 | +2 49 | -1.3 -- | | -- | -- | -- |
| 1663 | Hau Giang River entrance | 9° 24' | 106° 27' | +0 40 | +1 00 | 0.0 0.0 | | 5.9 | 8.6 | 7.9 |
| 1665 | Mac Bat, Hau Giang River | 9° 43' | 106° 09' | +1 30 | +2 29 | +0.9 -- | | -- | -- | -- |
| 1667 | Con Son | 8° 41' | 106° 36' | +0 33 | +0 33 | -0.4 -0.4 | | 5.9 | 8.7 | 7.5 |
| 1669 | Cau Lon River entrance | 8° 39' | 104° 45' | -- | -- | -- -- | | -- | 2.9 | 2.5 |
| 1671 | Pulau Panjang, Gulf of Siam | 9° 18' | 103° 28' | -- | -- | -- -- | | -- | 1.0 | 1.5 |
| 1673 | Rai Island, Gulf of Siam | 9° 50' | 104° 40' | -- | -- | -- -- | | -- | 2.1 | 3.0 |
| | on Musi River, p.152 | | | | | | | Diurnal | Tropic | |
| 1675 | Ha Tien † | 10° 22' | 104° 28' | -4 09 | -4 16 | *0.36 <29> | | 2.2 | 2.7 | 2.5 |

Endnotes can be found at the end of table 2.

TABLE 2 – TIDAL DIFFERENCES AND OTHER CONSTANTS

| No. | PLACE | POSITION | | DIFFERENCES | | | | RANGES | | Mean Tide Level |
|------|--|--------------|-------------|-----------------------------------|-----------|-------------|-----------|----------------|---------------|-----------------|
| | | Latitude | Longitude | Time | | Height | | Mean | Spring | |
| | | | | High Water | Low Water | High Water | Low Water | | | |
| | INDONESIA-cont. Time meridian, 105° E | North | East | h m | h m | ft | ft | ft | ft | ft |
| | <i>Sumatra, West Coast-cont.</i> | | | on Kutei River Ent., p.164 | | | | | | |
| 1857 | Tapaktuan | 3° 15' | 97° 11' | +0 52 | +0 52 | *0.23 | *0.14 | 1.3 | 1.8 | 1.0 |
| 1859 | Meulaboh | 4° 08' | 96° 08' | +1 12 | +1 12 | *0.20 | *0.20 | 0.8 | 1.2 | 1.0 |
| 1861 | Tjalang Bay | 4° 37' | 95° 35' | +1 53 | +1 54 | *0.22 | *0.18 | 1.1 | 1.6 | 1.0 |
| 1863 | Pulau Raja | 4° 52' | 95° 23' | -- | -- | -- | -- | 0.4 | 0.6 | 0.7 |
| 1865 | Pulau Rusa | 5° 17' | 95° 12' | +2 50 | +2 50 | *0.26 | *0.18 | 1.4 | 1.9 | 1.1 |
| | <i>Java</i> | South | East | on Djakarta, p.156 | | | | Diurnal | Tropic | |
| 1867 | DJAKARTA (Tandjungpriok) § | 6° 06' | 106° 53' | <i>Daily predictions</i> | | | | 2.0 | 2.6 | 2.0 |
| 1869 | Tjirebon | 6° 43' | 108° 34' | -- | -- | -- | -- | 1.9 | 2.0 | 2.0 |
| 1871 | Semarang § | 6° 58' | 110° 25' | +10 44 | +9 15 | (*0.85+0.3) | | 1.7 | 2.2 | 2.0 |
| | | | | on Surabaya Strait, p.160 | | | | | | |
| 1873 | Rembang § | 6° 42' | 111° 20' | +0 31 | -0 10 | *0.66 | *0.62 | 2.5 | 3.7 | 2.3 |
| 1875 | Udjung Pangah § | 6° 54' | 112° 34' | -0 14 | +0 38 | (*0.92+0.3) | | 3.4 | 4.9 | 3.5 |
| 1877 | SURABAJA STRAIT (Djamuang Reef) § | 6° 56' | 112° 44' | <i>Daily predictions</i> | | | | 3.7 | 5.3 | 3.6 |
| 1879 | Sembilangan, Surabaya Strait § | 7° 03' | 112° 41' | +1 39 | -0 58 | +0.5 | +0.3 | 3.9 | 5.1 | 3.9 |
| | | | | on Hong Kong, p.120 | | | | | | |
| 1881 | Surabaya, Surabaya Strait | 7° 13' | 112° 44' | +1 55 | +2 04 | +0.6 | +0.3 | 5.8 | 6.7 | 4.9 |
| 1883 | Surabaja Strait, east entrance | 7° 20' | 112° 52' | +1 34 | +1 43 | +1.0 | -0.2 | 6.6 | 7.4 | 4.9 |
| 1885 | Pasuruan, Madura Strait | 7° 38' | 112° 55' | +1 31 | +1 40 | +1.5 | +0.2 | 6.7 | 7.4 | 5.3 |
| 1887 | Gading, Madura Island | 7° 12' | 112° 55' | +1 39 | +1 49 | +1.0 | -0.2 | 6.7 | 7.3 | 4.9 |
| 1889 | Kalianget, Madura Island | 7° 03' | 113° 56' | +0 25 | +0 34 | 0.0 | +0.2 | 5.1 | 5.9 | 4.6 |
| | | | | on Manila, p.184 | | | | | | |
| 1891 | Sapudi Island, Sapudi Strait † | 7° 05' | 114° 16' | -0 01 | -0 23 | +2.1 | +1.5 | 3.9 | 4.8 | 3.6 |
| 1893 | Pulau Karangmas, Madura Strait † | 7° 41' | 114° 26' | -0 22 | -0 43 | +1.8 | +1.3 | 3.8 | 4.7 | 3.3 |
| 1895 | Tabuan Island, Bali Strait † | 8° 02' | 114° 28' | -0 45 | -1 00 | (*0.88+2.9) | | 2.9 | 3.6 | 4.3 |
| | | | | on Belawan Channel, p.148 | | | | Mean | Spring | |
| 1897 | Banjuwangi, Bali Strait | 8° 13' | 114° 23' | -4 19 | -4 19 | (*0.80+1.3) | | 3.6 | 4.9 | 5.2 |
| 1899 | Tjilatjap | 7° 44' | 109° 00' | -5 25 | -5 25 | *0.76 | *0.65 | 3.7 | 5.0 | 3.6 |
| 1901 | Genteng Bay | 7° 24' | 106° 24' | -5 53 | -5 54 | (*0.60+0.4) | | 2.7 | 3.7 | 3.3 |
| 1903 | Labuhan, Sunda Strait | 6° 22' | 105° 49' | -6 22 | -6 22 | *0.49 | *0.38 | 2.5 | 3.2 | 2.3 |
| 1905 | Tandjung Tjikongeng, Sunda Strait | 6° 04' | 105° 53' | -6 33 | -6 33 | (*0.40-0.7) | | 1.8 | 2.4 | 1.3 |
| | Time meridian, 120° E | | | | | | | | | |
| 1907 | <i>Bali</i> Benoa | 8° 45' | 115° 13' | -3 36 | -3 37 | -0.2 | -0.9 | 5.2 | 7.0 | 4.3 |
| | | | | on Hong Kong, p.120 | | | | | | |
| 1909 | Buleleng | 8° 06' | 115° 05' | +2 10 | +2 20 | -1.7 | -0.7 | 2.3 | 3.0 | 3.3 |
| | Time meridian, 105° E | | | on Manila, p.184 | | | | Diurnal | Tropic | |
| 1911 | <i>Lombok</i> Ampenan † | 8° 34' | 116° 04' | -0 55 | -0 51 | (*0.85+2.2) | | 2.8 | 3.6 | 3.6 |
| 1913 | Labuan, Tring Bay † | 8° 43' | 116° 03' | -0 35 | -1 06 | +2.0 | +1.2 | 3.8 | 4.7 | 3.6 |
| | Time meridian, 120° E | | | on Shatt Al Arab, p.336 | | | | Mean | Spring | |
| 1915 | <i>Sumbawa</i> Bima Bay | 8° 27' | 118° 43' | +2 05 | +1 52 | (*0.41+0.7) | | 2.5 | 3.1 | 3.0 |
| 1917 | Sape Bay | 8° 34' | 119° 02' | +1 32 | +1 19 | (*0.57+0.7) | | 3.5 | 4.5 | 3.9 |
| | | | | on Belawan Channel, p.148 | | | | | | |
| 1919 | <i>Sumba</i> Sendikari Bay | 9° 46' | 119° 37' | -3 52 | -3 52 | +1.4 | -0.8 | 6.7 | 9.4 | 5.2 |
| 1921 | Nangamesi Bay | 9° 38' | 120° 15' | -3 12 | -3 12 | +1.1 | -0.4 | 6.0 | 8.3 | 5.2 |
| | <i>Flores Island</i> | | | | | | | | | |
| 1923 | Tuluk Perapat | 8° 47' | 119° 50' | -3 05 | -3 06 | +2.3 | +0.4 | 6.4 | 8.4 | 6.2 |
| 1925 | Ende Bay | 8° 47' | 121° 24' | -3 17 | -3 17 | +1.9 | +0.2 | 6.2 | 8.6 | 5.9 |
| | <i>Alor Island</i> | | | | | | | | | |
| 1927 | Kalabahi | 8° 14' | 124° 31' | -1 40 | -1 40 | -0.3 | -0.9 | 5.1 | 6.7 | 4.3 |
| | <i>Timor</i> | | | | | | | | | |
| 1929 | Kupang Bay | 10° 10' | 123° 34' | -3 05 | -3 05 | *0.75 | *0.73 | 3.4 | 4.8 | 3.6 |
| 1931 | Atapupu | 9° 00' | 124° 52' | -2 31 | -2 31 | *0.90 | *0.85 | 4.2 | 5.8 | 4.3 |
| | Time meridian, 135° E | | | | | | | | | |
| 1933 | <i>Tanimbar Islands</i> Ritabel Bay, Larat Island | 7° 09' | 131° 43' | +0 49 | +0 49 | *0.90 | *0.85 | 4.2 | 5.2 | 4.3 |

Endnotes can be found at the end of table 2.

TABLE 2 – TIDAL DIFFERENCES AND OTHER CONSTANTS

| No. | PLACE | POSITION | | DIFFERENCES | | | | RANGES | | Mean Tide Level |
|------|---|--------------|-------------|-----------------------------------|-----------|--------------------------|-----------|---------|--------|-----------------|
| | | Latitude | Longitude | Time | | Height | | Mean | Spring | |
| | | | | High Water | Low Water | High Water | Low Water | | | |
| | INDONESIA-cont. Time meridian, 135° E | South | East | h | m | h | m | ft | ft | ft |
| | <i>Moluccas Islands</i> | | | on Belawan Channel, p.148 | | | | | | |
| 1935 | Dobo, Wamar Island, Aru Islands | 5° 45' | 134° 13' | +0 23 | +0 23 | *0.90 | *0.81 | 4.3 | 5.4 | 4.3 |
| | | | | on Shatt Al Arab, p.336 | | | | | | |
| 1937 | Naira, Banda Islands | 4° 32' | 129° 53' | +3 13 | +3 03 | (*0.67+0.5) | | 4.1 | 5.3 | 4.3 |
| 1939 | Ambon Bay, Ambon Island | 3° 41' | 128° 11' | +3 20 | +3 08 | (*0.56+0.4) | | 3.4 | 4.4 | 3.6 |
| 1941 | Namlea, Kajeli Bay, Buru Island | 3° 16' | 127° 06' | +2 58 | +2 46 | (*0.39+1.4) | | 2.4 | 3.1 | 3.6 |
| | | | | on Shantou, p.104 | | | | | | |
| 1943 | Taniwel, Seram Island | 2° 51' | 128° 28' | +0 44 | +1 17 | *0.64 | *0.61 | 2.2 | 3.0 | 3.6 |
| 1945 | Sanana, Sula Sanana, Sula Islands | 2° 03' | 125° 59' | +1 11 | +1 43 | *0.64 | *0.61 | 2.2 | 2.8 | 3.6 |
| | | North | East | on Belawan Channel, p.148 | | | | | | |
| 1947 | Galela Bay, Halmahera Island | 1° 49' | 127° 51' | -7 04 | -7 04 | (*0.67+0.3) | | 3.0 | 4.3 | 3.6 |
| | | | | on Kutei River Ent., p.164 | | | | | | |
| 1949 | Ternate, Halmahera Island | 0° 47' | 127° 23' | +0 13 | +0 13 | (*0.47+0.8) | | 2.2 | 3.3 | 3.0 |
| 1951 | Taruna Bay, Sangi Island | 3° 37' | 125° 29' | +0 16 | +0 16 | *0.84 | *0.84 | 3.9 | 5.7 | 3.9 |
| | Time meridian, 120° E | South | East | on Surabaya Strait, p.160 | | | | Diurnal | Tropic | |
| 1953 | <i>Celebes (Sulawesi)</i> Makassar § | 5° 09' | 119° 24' | -1 37 | +0 24 | (*0.59+0.5) | | 2.2 | 3.0 | 2.6 |
| | | | | on Shatt Al Arab, p.336 | | | | Mean | Spring | |
| 1955 | Kolaka, Gulf of Boni | 4° 04' | 121° 36' | +2 09 | +1 57 | *0.67 | *0.70 | 4.0 | 4.9 | 3.9 |
| 1957 | Tampunawu, Muna Island | 5° 13' | 122° 18' | +2 14 | +2 02 | (*0.67+0.8) | | 4.1 | 5.0 | 4.6 |
| 1959 | Baubau, Buton Island | 5° 28' | 122° 37' | +2 10 | +1 58 | *0.66 | *0.66 | 3.8 | 4.7 | 3.9 |
| 1961 | Lasolo Bay | 3° 43' | 122° 19' | +2 52 | +2 40 | (*0.57+0.6) | | 3.5 | 4.5 | 3.9 |
| | | | | on Shantou, p.104 | | | | | | |
| 1963 | Lingkobu | 2° 04' | 121° 32' | -1 18 | -0 45 | -2.1 | -2.2 | 3.4 | 4.3 | 3.6 |
| 1965 | Teluk Lamala, Peling Strait | 0° 54' | 123° 09' | -0 08 | +0 24 | *0.58 | *0.56 | 2.0 | 2.7 | 3.3 |
| | | | | on Kutei River Ent., p.164 | | | | | | |
| 1967 | Poso | 1° 22' | 120° 45' | -1 56 | -1 55 | (*0.45+0.5) | | 2.1 | 3.0 | 2.6 |
| | | North | East | on Jolo, p.172 | | | | Diurnal | Tropic | |
| 1969 | Gorontalo River entrance † | 0° 30' | 123° 03' | --- | --- | -- | -- | 2.9 | -- | 2.6 |
| | | | | on Kutei River Ent., p.164 | | | | Mean | Spring | |
| 1971 | Lembah Strait | 1° 27' | 125° 12' | -0 48 | -0 48 | *0.58 | *0.50 | 2.9 | 4.2 | 2.6 |
| 1973 | Manado | 1° 30' | 124° 50' | -0 23 | -0 22 | *0.87 | *0.82 | 4.2 | 6.1 | 3.9 |
| 1975 | Tolitoli Bay | 1° 02' | 120° 49' | -0 37 | -0 36 | (*0.72+0.6) | | 3.4 | 5.2 | 3.9 |
| | | South | East | | | | | | | |
| 1977 | Donggala | 0° 40' | 119° 44' | -0 37 | -0 36 | *0.84 | *0.84 | 3.9 | 5.8 | 3.9 |
| | <i>Borneo, East Coast</i> | North | East | | | | | | | |
| 1979 | Bakapit, Darvel Bay | 4° 57' | 118° 35' | -0 21 | -0 21 | *0.75 | *0.64 | 3.8 | 5.4 | 3.3 |
| 1981 | Lahad Datu, Darvel Bay | 5° 02' | 118° 20' | -0 27 | -0 37 | *0.74 | *0.59 | 3.8 | 5.0 | 3.2 |
| 1983 | Semporna, Darvel Bay | 4° 29' | 118° 37' | -0 28 | -0 19 | *0.74 | *0.59 | 3.8 | 5.2 | 3.2 |
| 1985 | Tawau | 4° 15' | 117° 53' | +0 02 | -0 26 | +0.9 | -0.1 | 5.7 | 8.0 | 5.0 |
| 1987 | Lingkas, Tarakan Island | 3° 17' | 117° 35' | -0 49 | -0 48 | +1.9 | +0.1 | 6.5 | 9.3 | 5.6 |
| 1989 | Biwan Mouth, Kajan River | 2° 55' | 117° 42' | +0 01 | +0 02 | *1.29 | *1.29 | 6.0 | 8.7 | 5.9 |
| 1991 | Tandjungselor, Kahan River | 2° 49' | 117° 22' | +2 11 | +2 11 | *0.46 | *0.36 | 2.4 | 3.4 | 2.0 |
| 1993 | Kasseimouth, Berau River | 2° 10' | 117° 52' | -0 06 | -0 05 | *1.30 | *1.23 | 6.3 | 9.1 | 5.9 |
| 1995 | Haji Bank, Beraoe River | 2° 11' | 117° 32' | +1 30 | +2 14 | 0.0 | -0.6 | 5.3 | 7.4 | 4.3 |
| 1997 | Miang Besar, Sangkulirang Bay | 0° 45' | 118° 00' | -0 39 | -0 39 | *0.86 | *0.86 | 4.0 | 5.8 | 3.9 |
| 1999 | Sangkulirang, Sangkulirang River | 0° 59' | 117° 59' | -0 17 | -0 16 | -0.2 | -1.1 | 5.6 | 8.4 | 3.9 |
| | | South | East | | | | | | | |
| 2001 | KUTEI RIVER ENTRANCE | 0° 42' | 117° 30' | | | <i>Daily predictions</i> | | 4.7 | 6.8 | 4.6 |
| 2003 | Samarinda, Kutei River | 0° 30' | 117° 08' | +1 18 | +1 18 | (*0.68+1.2) | | 3.2 | 4.6 | 4.3 |
| 2005 | Balik Papan | 1° 16' | 116° 48' | -0 43 | -0 43 | +0.3 | -0.2 | 5.2 | 7.9 | 4.6 |
| 2007 | Tanahgrogot, Pasir River | 1° 55' | 116° 12' | +0 55 | +0 55 | +0.4 | -0.3 | 5.4 | 7.8 | 4.6 |
| 2009 | Aru Bank | 2° 15' | 116° 40' | -0 49 | -0 48 | (*0.32+0.5) | | 1.5 | 2.3 | 2.0 |
| 2011 | Pamukan Bay | 2° 36' | 116° 30' | -0 38 | -0 37 | +0.1 | -0.1 | 4.9 | 7.1 | 4.6 |
| 2013 | Klumpeng Bay | 3° 01' | 116° 13' | -1 10 | -1 09 | *0.99 | *0.99 | 4.4 | 6.7 | 4.6 |
| 2015 | Kampung Baru, Laut Strait | 3° 25' | 116° 01' | -0 19 | -0 18 | (*0.72+1.0) | | 3.4 | 5.1 | 4.3 |

Endnotes can be found at the end of table 2.

TABLE 2 – TIDAL DIFFERENCES AND OTHER CONSTANTS

| No. | PLACE | POSITION | | DIFFERENCES | | | | RANGES | | Mean Tide Level |
|------|---|--------------|-------------|-------------------------------|-----------|-------------|-----------|---------------------|---------------|-----------------|
| | | Latitude | Longitude | Time | | Height | | Diurnal | Tropic | |
| | | | | High Water | Low Water | High Water | Low Water | | | |
| | INDONESIA-cont. Time meridian, 120° E | South | East | h | m | h | m | ft | ft | ft |
| | | | | on Barito River, p.168 | | | | | | |
| | <i>Borneo, South Coast</i> | | | | | | | | | |
| 2017 | BARITO RIVER (outer bar) † | 3° 34' | 114° 29' | <i>Daily predictions</i> | | | | 5.9 | 7.5 | 4.3 |
| 2019 | Banjermasin, Martapura River † | 3° 20' | 114° 36' | +1 17 | +1 14 | (*0.93+0.3) | | 5.5 | 7.0 | 4.3 |
| 2021 | Pangkoh, Kahajan River † | 3° 04' | 114° 10' | +1 29 | +1 59 | (*0.95+0.8) | | 5.6 | 6.9 | 4.9 |
| 2023 | Pegatan, Mendawai River † | 3° 17' | 113° 21' | +0 05 | +0 29 | +0.5 | +0.1 | 6.3 | 7.8 | 4.3 |
| 2025 | Sampit Bay † | 3° 00' | 113° 03' | +0 16 | +0 57 | +0.8 | +0.1 | 6.6 | 8.0 | 4.6 |
| 2027 | Pembuang River entrance † | 3° 25' | 112° 34' | +0 17 | +0 25 | (*0.64+1.5) | | 3.8 | 4.8 | 4.3 |
| | | | | on Jolo, p.172 | | | | | | |
| 2029 | Sungai Aru Tobal, Kumai Bay † | 3° 10' | 111° 48' | -0 03 | -0 03 | +1.4 | +1.0 | 3.2 | 4.0 | 2.3 |
| 2031 | Lurah, Kota Waringin River entrance † | 2° 54' | 111° 26' | -0 30 | -0 30 | +2.5 | +2.2 | 3.1 | 3.8 | 3.3 |
| 2033 | Djelai River entrance † | 2° 59' | 110° 44' | -0 04 | -0 04 | (*0.57+1.0) | | 1.6 | 1.9 | 1.6 |
| | | | | on Djakarta, p.156 | | | | | | |
| 2035 | <i>Borneo, West Coast</i> Pawan River entrance | 1° 46' | 109° 54' | -0 02 | -0 46 | (*2.20-0.8) | | 4.4 | 6.2 | 3.6 |
| 2037 | Sukadana, Sukadana Bay § | 1° 14' | 109° 57' | -0 31 | -0 21 | (*2.30-0.7) | | 4.6 | 6.4 | 3.9 |
| | | | | on Musi River, p.152 | | | | | | |
| 2039 | Pontianak, Little Kapuas River § | 0° 01' | 109° 20' | -0 20 | -0 09 | (*0.38+0.2) | | 2.8 | 3.8 | 2.6 |
| | | North | East | | | | | | | |
| 2041 | Kapuas-ketjil River entrance | 0° 05' | 109° 08' | -1 07 | -0 34 | *0.48 | *0.45 | 3.6 | 4.9 | 3.0 |
| | | | | on Cebu, p.180 | | | | Mean Spring | | |
| 2043 | Pamangkat, Sambas-besar River | 1° 11' | 108° 59' | +5 45 | +5 43 | (*0.55+0.7) | | 1.8 | 2.1 | 2.0 |
| | MALAYSIA Sarawak and Sabah | | | on Darwin, p.276 | | | | | | |
| | <i>Borneo, northwest coast</i> | | | | | | | | | |
| 2045 | Tanjung Datu | 2° 05' | 109° 39' | -1 42 | -1 47 | *0.41 | *0.30 | 6.2 | 7.2 | 5.2 |
| 2047 | Kuching, Sarawak River | 1° 34' | 110° 21' | -1 18 | -0 56 | *0.72 | *0.72 | 9.7 | 12.1 | 9.9 |
| 2049 | Pulau Lakei | 1° 45' | 110° 30' | -1 52 | -1 53 | *0.71 | *0.86 | 8.6 | 11.1 | 10.2 |
| | | | | on Manila, p.184 | | | | Diurnal | Tropic | |
| 2051 | Kuala Similajau § | 3° 31' | 113° 18' | -0 19 | +0 18 | +2.2 | +1.8 | 3.7 | 5.0 | 3.8 |
| 2053 | Kuala Niah § | 3° 58' | 113° 42' | +0 18 | +1 03 | +2.1 | +1.7 | 3.7 | 5.1 | 3.7 |
| 2055 | Miri † | 4° 23' | 113° 59' | +0 27 | +1 09 | +2.1 | +1.8 | 3.6 | 4.8 | 3.7 |
| 2057 | Baram River entrance † | 4° 35' | 113° 59' | +0 08 | +0 29 | +1.4 | +1.4 | 3.2 | 4.2 | 3.1 |
| 2059 | Sapo Point, Brunei Bay † | 5° 00' | 115° 08' | +0 50 | +0 30 | +3.6 | +2.0 | 4.9 | 6.0 | 4.6 |
| 2061 | Sipitang, Brunei Bay † | 5° 05' | 115° 33' | +0 22 | +0 24 | +3.4 | +2.0 | 4.7 | 5.8 | 4.5 |
| 2063 | Victoria Harbor, Labuan Island † | 5° 16' | 115° 15' | +0 26 | +0 19 | +3.9 | +2.6 | 4.6 | 5.8 | 5.0 |
| 2065 | Kuala Papar, Kimanis Bay † | 5° 45' | 115° 54' | -0 09 | -0 03 | +2.1 | +1.5 | 3.9 | 4.9 | 3.5 |
| 2067 | Kota Kinabalu † | 5° 59' | 116° 04' | +0 19 | +0 17 | +2.4 | +1.6 | 4.1 | 5.2 | 3.7 |
| 2069 | Kudat, Marudu Bay † | 6° 53' | 116° 51' | +0 21 | +0 00 | +2.9 | +1.7 | 4.5 | 5.6 | 4.0 |
| | | | | on Cebu, p.180 | | | | Mean Diurnal | | |
| 2071 | Tigabu Island | 6° 53' | 117° 29' | -0 13 | -0 15 | (*0.94+1.7) | | 2.8 | 4.8 | 3.9 |
| 2073 | Lankayan Island | 6° 30' | 117° 55' | -0 18 | -0 19 | (*0.90+1.9) | | 2.8 | 4.6 | 4.0 |
| 2075 | Sandakan | 5° 50' | 118° 07' | -0 01 | -0 20 | +1.2 | +1.2 | 3.1 | 5.1 | 3.6 |
| | PHILIPPINE ISLANDS Sulu Islands | | | on Davao, p.176 | | | | | | |
| 2077 | Tumindao Channel | 4° 47' | 119° 25' | +0 06 | +0 14 | *0.70 | *0.70 | 3.1 | 3.8 | 1.7 |
| 2079 | Port Bongao, Tawitawi Island | 5° 02' | 119° 46' | +0 07 | +0 16 | *0.74 | *0.74 | 3.3 | 4.2 | 1.8 |
| 2081 | Batu Batu Bay, Tawitawi Island | 5° 04' | 119° 53' | +0 05 | -0 08 | *0.80 | *0.80 | 3.4 | 4.4 | 2.0 |
| 2083 | Banaran Island | 5° 02' | 120° 06' | +0 15 | -0 15 | +0.4 | -0.1 | 4.8 | 5.6 | 2.6 |
| 2085 | Gallo Malo Channel, south entrance | 5° 08' | 120° 14' | +0 26 | +0 27 | +0.7 | -0.1 | 5.1 | 5.9 | 2.7 |
| 2087 | Tandugan Channel, Tawitawi Island | 5° 13' | 120° 19' | +0 25 | +0 20 | *0.80 | *0.80 | 3.4 | 4.4 | 2.0 |
| 2089 | South Ubian Usland | 5° 12' | 120° 30' | -0 34 | -0 17 | *0.61 | *0.61 | 2.6 | 3.4 | 1.5 |
| 2091 | Maimbung, Jolo Island | 5° 55' | 121° 01' | -0 08 | +0 45 | *0.72 | *0.72 | 3.2 | 3.9 | 1.7 |
| | | | | on Jolo, p.172 | | | | | | |
| 2093 | Tataan Pass, Tawitawi Island † | 5° 15' | 119° 57' | -0 31 | -0 31 | *0.86 | *0.86 | -- | 2.4 | 1.0 |
| 2095 | Basbas Channel, Tawitawi Island † | 5° 21' | 120° 13' | -0 39 | -0 39 | *0.89 | *0.89 | -- | 2.5 | 1.2 |
| 2097 | Lahatlahat Island † | 5° 39' | 120° 17' | -0 33 | -0 33 | *0.93 | *0.93 | -- | 2.6 | 1.3 |
| 2099 | Pearl Bank † | 5° 51' | 119° 44' | +1 12 | +1 12 | +0.6 | 0.0 | -- | 3.4 | 1.7 |
| 2101 | Pangutaran Island † | 6° 15' | 120° 30' | +1 25 | +1 25 | +0.7 | 0.0 | -- | 3.5 | 1.7 |
| 2103 | Port Siasi, Siasi Island † | 5° 33' | 120° 49' | -1 33 | -1 33 | +1.3 | 0.0 | -- | 4.1 | 2.0 |
| 2105 | Banting, Tapul Island † | 5° 42' | 120° 53' | -1 29 | -0 58 | +0.3 | 0.0 | -- | 3.1 | 1.3 |
| 2107 | JOLO, Jolo Island † | 6° 04' | 121° 00' | <i>Daily predictions</i> | | | | -- | 2.8 | 0.9 |
| 2109 | Tulayan Island † | 6° 01' | 121° 19' | -1 55 | -1 55 | *0.86 | *0.86 | -- | 2.4 | 1.0 |
| 2111 | Dassalan Island † | 6° 44' | 121° 28' | +0 20 | +0 20 | +0.5 | 0.0 | -- | 3.3 | 1.6 |

Endnotes can be found at the end of table 2.

TABLE 2 – TIDAL DIFFERENCES AND OTHER CONSTANTS

| No. | PLACE | POSITION | | DIFFERENCES | | | | RANGES | | Mean Tide Level |
|------|--|--------------|-------------|-------------------------------|-----------|--------------------------|-----------|--------|---------|-----------------|
| | | Latitude | Longitude | Time | | Height | | Mean | Diurnal | |
| | | | | High Water | Low Water | High Water | Low Water | | | |
| | PHILIPPINES Sulu Islands—cont. Time meridian, 120° E | North | East | h m | h m | ft | ft | ft | ft | ft |
| | | | | on Davao, p.176 | | | | | | |
| 2113 | Capual Island | 6° 01' | 121° 25' | -0 15 | +0 24 | *0.89 | *0.89 | 3.9 | 4.9 | 2.2 |
| 2115 | Simisa Island | 5° 58' | 121° 34' | -0 02 | -0 01 | *0.78 | *0.78 | 3.5 | 4.2 | 1.9 |
| 2117 | Bulan Island | 6° 09' | 121° 50' | -0 07 | +0 04 | *0.91 | *0.91 | 4.0 | 4.7 | 2.2 |
| 2119 | Linawan Island | 6° 19' | 121° 56' | -0 29 | -0 12 | *0.78 | *0.78 | 3.5 | 4.1 | 1.9 |
| 2121 | Balas, Basilan Island | 6° 41' | 122° 08' | +0 13 | +0 20 | *0.83 | *0.83 | 3.6 | 4.3 | 2.0 |
| 2123 | Bojelebung, Basilan Island | 6° 31' | 122° 12' | +0 11 | -0 17 | +0.2 | 0.0 | 4.5 | 5.2 | 2.5 |
| 2125 | Amoyloi, Basilan Island | 6° 26' | 122° 08' | -0 08 | +0 52 | +0.9 | -0.2 | 5.4 | 6.2 | 2.8 |
| | | | | on Jolo, p.172 | | | | | | |
| 2127 | Port Holland, Basilan Island † | 6° 33' | 121° 52' | -1 49 | -1 49 | +0.2 | 0.0 | -- | 3.0 | 1.3 |
| 2129 | Isabela, Basilan Island † | 6° 42' | 121° 58' | +0 01 | +0 01 | *0.79 | *0.79 | -- | 2.2 | 1.1 |
| | Mindanao Island | | | | | | | | | |
| 2131 | Zamboanga † | 6° 54' | 122° 04' | -1 54 | -1 54 | +0.5 | 0.0 | -- | 3.3 | 1.4 |
| | | | | on Cebu, p.180 | | | | | | |
| 2133 | Sibuco Bay | 7° 19' | 122° 04' | -0 40 | -0 40 | *0.76 | *0.76 | 2.5 | 4.0 | 1.8 |
| 2135 | Panabutan Bay | 7° 35' | 122° 08' | -0 40 | -0 40 | *0.76 | *0.76 | 2.5 | 4.1 | 1.8 |
| 2137 | Port Santa Maria | 7° 46' | 122° 07' | -0 40 | -0 40 | *0.76 | *0.76 | 2.5 | 4.2 | 1.8 |
| 2139 | Dapitan | 8° 40' | 123° 25' | -0 40 | -0 40 | *0.79 | *0.79 | 2.6 | 4.4 | 1.9 |
| 2141 | Murcielagos | 8° 38' | 123° 34' | -0 08 | -0 13 | *0.85 | *0.85 | 2.8 | 4.2 | 2.0 |
| 2143 | Plaridel (Langaran) | 8° 37' | 123° 43' | -0 25 | -0 25 | *0.79 | *0.79 | 2.6 | 4.1 | 1.9 |
| | <i>Iligan Bay</i> | | | | | | | | | |
| 2145 | Oroquieta | 8° 29' | 123° 48' | -0 15 | -0 15 | *0.82 | *0.82 | 2.7 | 4.0 | 1.8 |
| 2147 | Jiminez | 8° 20' | 123° 51' | -0 05 | -0 05 | *0.82 | *0.82 | 2.7 | 4.1 | 1.8 |
| 2149 | Misamis | 8° 09' | 123° 51' | +0 00 | -0 04 | *0.88 | *0.88 | 2.9 | 4.4 | 2.0 |
| 2151 | Iligan | 8° 14' | 124° 14' | -0 10 | -0 10 | *0.79 | *0.79 | 2.6 | 4.2 | 2.0 |
| 2153 | Macabalan Pt., Macajalar Bay | 8° 30' | 124° 40' | -0 15 | -0 15 | *0.82 | *0.82 | 2.7 | 4.2 | 1.8 |
| 2155 | Canauyor Anchorage | 9° 00' | 124° 51' | -0 15 | -0 15 | *0.79 | *0.79 | 2.6 | 4.1 | 1.8 |
| 2157 | Mambajao, Camiguin Island | 9° 15' | 124° 43' | -0 15 | -0 15 | *0.76 | *0.76 | 2.5 | 4.1 | 1.8 |
| 2159 | Nasipit Harbor, Butuan Bay | 8° 59' | 125° 20' | -0 13 | -0 21 | *0.82 | *0.71 | 2.8 | 4.1 | 1.9 |
| 2161 | Agusan River ent., Butuan Bay | 9° 00' | 125° 31' | -0 09 | -0 13 | *0.72 | *0.57 | 2.5 | 3.8 | 1.6 |
| | | | | on Manila, p.184 | | | | | | |
| 2163 | Surigao † | 9° 48' | 125° 29' | +0 45 | +0 45 | +0.1 | 0.0 | -- | 3.4 | 1.7 |
| 2165 | Dinagat, Dinagat Island † | 9° 58' | 125° 35' | +0 20 | +0 20 | +0.1 | 0.0 | -- | 3.4 | 1.7 |
| 2167 | Melgar, Dinagat Island † | 10° 04' | 125° 31' | +0 00 | +0 00 | +0.1 | 0.0 | -- | 3.4 | 1.7 |
| 2169 | San Roque, Dinagat Island † | 10° 06' | 125° 29' | -0 20 | -0 20 | +0.2 | 0.0 | -- | 3.5 | 1.8 |
| | | | | on Legaspi Port, p.192 | | | | | | |
| 2171 | Malinao Inlet, Dinagat Island | 10° 15' | 125° 38' | +0 40 | +0 40 | *0.88 | *0.88 | 3.2 | 4.0 | 2.2 |
| 2173 | Gaas Bay, Dinagat Island | 10° 11' | 125° 39' | +0 40 | +0 40 | *0.88 | *0.88 | 3.2 | 4.0 | 2.2 |
| 2175 | Cuyomongan, Talavera Island | 9° 45' | 125° 41' | +0 40 | +0 40 | +0.1 | +0.1 | 3.8 | 4.6 | 2.5 |
| 2177 | Tayanan, Kangbangyo Island | 9° 54' | 125° 54' | +0 35 | +0 35 | -0.1 | 0.0 | 3.7 | 4.4 | 2.4 |
| 2179 | Port Pilar, Siargao Island | 9° 52' | 126° 06' | +0 25 | +0 25 | *0.86 | *0.86 | 3.2 | 4.0 | 2.1 |
| 2181 | San Miguel, East Bugas Island | 9° 44' | 126° 02' | +0 30 | +0 30 | *0.88 | *0.88 | 3.2 | 4.1 | 2.2 |
| 2183 | Sohutan Bay, Bucas Grande Island | 9° 36' | 125° 55' | +0 30 | +0 30 | +0.1 | +0.1 | 3.8 | 4.6 | 2.5 |
| 2185 | Tugas Point | 9° 29' | 125° 57' | +0 20 | +0 20 | +0.1 | +0.1 | 3.8 | 4.6 | 2.5 |
| 2187 | Dahikan Bay | 9° 27' | 125° 56' | +0 27 | +0 22 | +0.2 | +0.2 | 3.8 | 4.7 | 2.6 |
| 2189 | Buenavista, General Island | 9° 25' | 126° 00' | +0 20 | +0 20 | +0.1 | +0.1 | 3.8 | 4.6 | 2.5 |
| 2191 | Tandag | 9° 05' | 126° 12' | +0 15 | +0 15 | +0.2 | +0.1 | 3.9 | 4.7 | 2.6 |
| 2193 | Hinatuan | 8° 22' | 126° 20' | +0 15 | +0 15 | +0.3 | +0.1 | 4.0 | 4.9 | 2.6 |
| 2195 | Caraga Bay | 7° 17' | 126° 35' | +0 10 | +0 10 | +0.4 | +0.1 | 4.1 | 5.0 | 2.6 |
| 2197 | Mati, Pujada Bay | 6° 57' | 126° 13' | +0 10 | +0 10 | +0.2 | 0.0 | 4.0 | 4.8 | 2.5 |
| | <i>Davao Gulf</i> | | | | | | | | | |
| 2199 | Lavigan Anchorage | 6° 18' | 126° 11' | +0 04 | +0 04 | -0.1 | +0.1 | 4.1 | 4.9 | 2.4 |
| 2201 | Sigaboy Island | 6° 38' | 126° 04' | +0 04 | +0 05 | 0.0 | +0.1 | 4.2 | 5.0 | 2.5 |
| 2203 | DAVAO | 7° 05' | 125° 38' | | | <i>Daily predictions</i> | | 4.3 | 5.1 | 2.5 |
| 2205 | Malalag | 6° 36' | 125° 25' | +0 04 | +0 04 | -0.1 | +0.1 | 4.1 | 4.9 | 2.4 |
| 2207 | Malita | 6° 25' | 125° 37' | -0 04 | -0 06 | 0.0 | +0.2 | 4.1 | 5.1 | 2.5 |
| 2209 | Sarangani Island | 5° 25' | 125° 27' | -0 01 | +0 06 | 0.0 | 0.0 | 4.3 | 5.2 | 2.4 |
| 2211 | Sarangani Bay | 5° 50' | 125° 12' | +0 03 | +0 06 | +0.2 | 0.0 | 4.5 | 5.3 | 2.5 |
| 2213 | Port Lebak | 6° 32' | 124° 03' | +0 07 | +0 10 | +0.7 | 0.0 | 5.0 | 5.8 | 2.8 |
| 2215 | Cotabato, Mindanao River | 7° 13' | 124° 15' | +1 01 | +1 42 | *0.67 | *0.67 | 3.0 | 3.5 | 1.6 |
| | <i>Illana Bay</i> | | | | | | | | | |
| 2217 | Polloc Harbor | 7° 21' | 124° 13' | +0 14 | +0 14 | +0.4 | -0.1 | 4.8 | 5.6 | 2.6 |
| 2219 | Port Baras | 7° 38' | 124° 01' | +0 14 | +0 14 | +0.5 | 0.0 | 4.8 | 5.6 | 2.7 |
| 2221 | Tukuran | 7° 51' | 123° 35' | +0 19 | +0 19 | +0.5 | 0.0 | 4.8 | 5.6 | 2.7 |
| 2223 | Pagadian | 7° 49' | 123° 27' | +0 19 | +0 19 | +0.6 | 0.0 | 4.9 | 5.7 | 2.8 |
| 2225 | Port Sambulauan | 7° 32' | 123° 24' | +0 19 | +0 19 | +0.5 | 0.0 | 4.8 | 5.6 | 2.7 |
| 2227 | Limbug Cove | 7° 28' | 123° 24' | +0 19 | +0 19 | +0.4 | 0.0 | 4.7 | 5.5 | 2.6 |
| 2229 | Maligay Bay | 7° 32' | 123° 15' | +0 19 | +0 19 | +0.5 | 0.0 | 4.8 | 5.6 | 2.7 |
| 2231 | Margosatubig, Dumanquilas Bay | 7° 35' | 123° 10' | +0 11 | +0 15 | +0.2 | -0.1 | 4.6 | 5.3 | 2.5 |
| 2233 | Port Sibulan | 7° 26' | 122° 53' | +0 19 | +0 19 | +0.6 | 0.0 | 4.9 | 5.8 | 2.8 |

Endnotes can be found at the end of table 2.

TABLE 2 – TIDAL DIFFERENCES AND OTHER CONSTANTS

| No. | PLACE | POSITION | | DIFFERENCES | | | | RANGES | | Mean Tide Level |
|------|---|--------------|-------------|-------------------------|-----------|------------|-----------|--------|---------|-----------------|
| | | Latitude | Longitude | Time | | Height | | Mean | Diurnal | |
| | | | | High Water | Low Water | High Water | Low Water | | | |
| | PHILIPPINES Mindanao Island—cont. Time meridian, 120° E | North | East | h | m | ft | ft | ft | ft | ft |
| | | | | on Davao, p.176 | | | | | | |
| 2235 | Taba Bay, Sibuguey Bay | 7° 35' | 122° 47' | +0 24 | +0 24 | +0.8 | 0.0 | 5.1 | 6.0 | 2.8 |
| 2237 | Ticauan Point, Sibuguey Bay | 7° 45' | 122° 44' | +0 24 | +0 24 | +0.9 | 0.0 | 5.2 | 6.1 | 2.9 |
| 2239 | Port Banga, Sibuguey Bay | 7° 31' | 122° 25' | +0 24 | +0 24 | +0.7 | 0.0 | 5.0 | 5.9 | 2.8 |
| 2241 | Landang, Sacol Island | 6° 57' | 122° 15' | +0 17 | +0 20 | -0.7 | -0.2 | 3.8 | 4.6 | 2.0 |
| | Palawan and Vicinity | | | on Manila, p.184 | | | | | | |
| 2243 | Balabac, Balabac Island † | 8° 00' | 117° 04' | +0 10 | +0 10 | +1.0 | 0.0 | -- | 4.3 | 2.1 |
| 2245 | Secam Island, N. Balabac Strait † | 8° 11' | 117° 01' | +0 10 | +0 10 | +0.7 | 0.0 | -- | 4.0 | 2.0 |
| 2247 | Tagbita Bay † | 8° 42' | 117° 20' | -0 24 | +0 17 | +0.5 | 0.0 | -- | 3.8 | 1.9 |
| 2249 | Eran Bay † | 9° 05' | 117° 42' | +0 05 | +0 05 | +0.7 | 0.0 | -- | 4.0 | 2.0 |
| 2251 | Ulugan Bay † | 10° 06' | 118° 47' | -0 05 | -0 05 | +0.7 | 0.0 | -- | 4.0 | 2.0 |
| 2253 | Port Barton † | 10° 28' | 119° 08' | -0 10 | -0 10 | +0.7 | 0.0 | -- | 4.0 | 2.0 |
| 2255 | Boayan Island † | 10° 34' | 119° 11' | -0 05 | +0 01 | +0.4 | 0.0 | -- | 3.7 | 1.8 |
| 2257 | Bolalo Bay, Malampaya Sound † | 10° 56' | 119° 14' | -0 07 | -0 14 | 0.0 | 0.0 | -- | 3.3 | 1.6 |
| 2259 | Alligator Bay, Malampaya Sound † | 10° 52' | 119° 17' | -0 04 | +0 02 | +0.2 | 0.0 | -- | 3.5 | 1.8 |
| 2261 | Bacuit † | 11° 11' | 119° 23' | +0 20 | -0 29 | *0.97 | *0.97 | -- | 3.2 | 1.6 |
| 2263 | Northwest Bay, Linapacan Island † | 11° 28' | 119° 46' | -0 05 | -0 05 | +0.8 | 0.0 | -- | 4.1 | 2.0 |
| 2265 | San Nicolas, Linapacan Island † | 11° 27' | 119° 49' | -0 05 | -0 05 | +0.9 | 0.0 | -- | 4.2 | 2.1 |
| 2267 | San Miguel, Linapacan Island † | 11° 30' | 119° 52' | +0 10 | +0 10 | +1.1 | 0.0 | -- | 4.4 | 2.2 |
| 2269 | Batas Island † | 11° 10' | 119° 36' | +0 10 | +0 10 | +1.3 | 0.0 | -- | 4.6 | 2.3 |
| 2271 | Taytay † | 10° 50' | 119° 31' | +0 15 | +0 15 | +1.3 | 0.0 | -- | 4.6 | 2.3 |
| 2273 | Paly Island † | 10° 42' | 119° 42' | +0 15 | +0 15 | +1.3 | 0.0 | -- | 4.6 | 2.3 |
| 2275 | Araceli, Dumaran Island † | 10° 33' | 119° 59' | +0 15 | +0 15 | +1.3 | 0.0 | -- | 4.6 | 2.3 |
| 2277 | Tinitian, Green Island Bay † | 10° 04' | 119° 12' | +0 40 | +0 40 | +1.1 | 0.0 | -- | 4.4 | 2.2 |
| 2279 | Puerto Princesa † | 9° 44' | 118° 43' | +0 05 | +0 05 | +1.1 | 0.0 | -- | 4.4 | 2.2 |
| 2281 | Island Bay † | 9° 06' | 118° 07' | +0 15 | +0 15 | +0.8 | 0.0 | -- | 4.1 | 2.0 |
| 2283 | Sir J. Brooke Point † | 8° 46' | 117° 50' | +0 10 | +0 10 | +0.9 | 0.0 | -- | 4.2 | 2.1 |
| 2285 | Cuyo, Cuyo Island † | 10° 51' | 121° 00' | +0 05 | +0 05 | +1.2 | 0.0 | -- | 4.5 | 2.2 |
| 2287 | Halsey Harbor, Culion Island † | 11° 47' | 119° 58' | +0 05 | +0 05 | +0.7 | 0.0 | -- | 4.0 | 2.0 |
| 2289 | Culion, Culion Island † | 11° 53' | 120° 01' | +0 05 | +0 05 | +1.2 | 0.0 | -- | 4.5 | 2.2 |
| 2291 | Coron, Busuanga Island † | 12° 01' | 120° 12' | +0 10 | +0 10 | +1.2 | 0.0 | -- | 4.5 | 2.2 |
| 2293 | Apo Island, Mindoro Strait † | 12° 40' | 120° 24' | -0 05 | -0 05 | +0.3 | 0.0 | -- | 3.6 | 1.8 |
| | | | | on Cebu, p.180 | | | | | | |
| 2295 | Cagayan Anchorage, Cagayan Island | 9° 35' | 121° 14' | -0 29 | -0 37 | *0.80 | *0.80 | 2.6 | 4.0 | 1.9 |
| 2297 | Cagayan Sulu Island | 6° 59' | 118° 32' | -3 00 | -3 00 | *0.80 | *0.80 | 2.7 | 4.2 | 2.1 |
| | Panay and Guimaras Islands | | | | | | | | | |
| 2299 | Aniniy | 10° 26' | 121° 55' | -0 25 | -0 25 | *0.95 | *0.95 | 3.0 | 4.9 | 2.3 |
| 2301 | San Jose | 10° 44' | 121° 56' | -0 30 | -0 30 | *0.88 | *0.88 | 2.7 | 4.6 | 2.1 |
| 2303 | Tibiao | 11° 17' | 122° 02' | -0 35 | -0 35 | +0.3 | +0.1 | 3.5 | 5.4 | 2.5 |
| 2305 | Borocay Island | 11° 57' | 121° 56' | -0 25 | -0 25 | +0.3 | 0.0 | 3.6 | 5.3 | 2.5 |
| 2307 | Aclan River entrance | 11° 44' | 122° 22' | -0 05 | -0 05 | +0.3 | 0.0 | 3.6 | 5.3 | 2.5 |
| 2309 | Port Batan | 11° 36' | 122° 30' | +0 00 | +0 00 | +0.4 | 0.0 | 3.7 | 5.4 | 2.5 |
| 2311 | Libas (Capiz Landing) | 11° 36' | 122° 43' | +0 00 | +0 00 | +0.4 | +0.1 | 3.6 | 5.4 | 2.6 |
| 2313 | Estancia | 11° 28' | 123° 09' | +0 15 | +0 15 | +1.8 | +0.2 | 4.9 | 6.9 | 3.4 |
| 2315 | Concepcion | 11° 13' | 123° 06' | +0 15 | +0 15 | +1.9 | +0.2 | 5.0 | 7.0 | 3.4 |
| 2317 | Banate | 11° 00' | 122° 49' | +0 25 | +0 25 | +2.0 | +0.2 | 5.1 | 7.1 | 3.4 |
| 2319 | Navalags, Guimaras Island | 10° 44' | 122° 41' | +0 15 | +0 15 | +1.3 | +0.2 | 4.4 | 6.4 | 3.1 |
| 2321 | Inampulugan I., Guimaras Island | 10° 27' | 122° 43' | -0 10 | -0 10 | 0.0 | 0.0 | 3.3 | 5.1 | 2.3 |
| 2323 | Lugmayan Point, Guimaras Island | 10° 25' | 122° 32' | -0 20 | -0 20 | *0.85 | *0.85 | 2.7 | 4.5 | 2.0 |
| 2325 | Lloilo | 10° 42' | 122° 34' | +0 05 | +0 05 | +0.3 | +0.1 | 3.5 | 5.4 | 2.6 |
| 2327 | Miagao | 10° 38' | 122° 14' | -0 20 | -0 20 | *0.88 | *0.88 | 2.7 | 4.6 | 2.2 |
| | Negros Island | | | | | | | | | |
| 2329 | Cadiz | 10° 57' | 123° 19' | +0 30 | +0 30 | +1.6 | +0.1 | 4.8 | 6.6 | 3.2 |
| 2331 | Himugaan River entrance | 10° 57' | 123° 24' | +0 25 | +0 25 | +1.3 | +0.1 | 4.5 | 6.3 | 3.0 |
| 2333 | Danao River entrance | 10° 49' | 123° 33' | +0 15 | +0 15 | +0.7 | 0.0 | 4.0 | 5.8 | 2.7 |
| 2335 | San Carlos | 10° 29' | 123° 25' | +0 15 | +0 15 | +0.8 | 0.0 | 4.1 | 5.8 | 2.7 |
| 2337 | Calagcalag Bay | 9° 49' | 123° 08' | +0 10 | +0 10 | +0.4 | 0.0 | 3.7 | 5.4 | 2.6 |
| 2339 | Bais | 9° 36' | 123° 08' | +0 10 | +0 10 | +0.3 | 0.0 | 3.6 | 5.3 | 2.5 |
| 2341 | Dumaguete | 9° 18' | 123° 18' | -0 25 | -0 25 | *0.92 | *0.71 | 3.2 | 4.8 | 2.1 |
| 2343 | Larena, Siquijor Island | 9° 15' | 123° 35' | -0 25 | -0 25 | *0.80 | *0.71 | 2.7 | 4.2 | 1.8 |
| 2345 | Port Bonbonon | 9° 03' | 123° 07' | -0 30 | -0 30 | *0.88 | *0.71 | 3.0 | 4.5 | 2.0 |
| 2347 | Campomanes Bay | 9° 42' | 122° 25' | -0 30 | -0 30 | *0.90 | *0.71 | 3.1 | 4.5 | 2.0 |
| 2349 | Himamaylan | 10° 06' | 122° 52' | -0 30 | -0 30 | 0.0 | 0.0 | 3.3 | 5.0 | 2.3 |
| 2351 | Bacolod | 10° 40' | 122° 57' | +0 10 | +0 10 | +1.0 | +0.1 | 4.2 | 6.1 | 2.9 |
| | Cebu Island | | | | | | | | | |
| 2353 | Moalboal | 9° 56' | 123° 24' | +0 10 | +0 10 | +0.4 | 0.0 | 3.7 | 5.5 | 2.6 |
| 2355 | Barili Bay | 10° 07' | 123° 29' | +0 10 | +0 10 | +0.4 | 0.0 | 3.7 | 5.5 | 2.6 |
| 2357 | Balamban Bay | 10° 30' | 123° 43' | +0 10 | +0 10 | +0.6 | 0.0 | 3.9 | 5.7 | 2.6 |
| 2359 | Tuburan | 10° 44' | 123° 49' | +0 15 | +0 15 | +0.7 | +0.1 | 3.9 | 5.8 | 2.7 |
| 2361 | Medellin | 11° 08' | 123° 58' | +0 20 | +0 20 | +0.9 | 0.0 | 4.2 | 6.0 | 2.8 |
| 2363 | Bantayan, Bantayan Island | 11° 10' | 123° 43' | +0 20 | +0 20 | +0.9 | 0.0 | 4.2 | 6.0 | 2.8 |
| 2365 | Bogo Bay | 11° 04' | 124° 00' | +0 20 | +0 20 | +0.4 | 0.0 | 3.7 | 5.4 | 2.6 |
| 2367 | Carmen | 10° 35' | 124° 01' | +0 10 | +0 10 | +0.3 | 0.0 | 3.6 | 5.3 | 2.5 |

Endnotes can be found at the end of table 2.

TABLE 2 – TIDAL DIFFERENCES AND OTHER CONSTANTS

| No. | PLACE | POSITION | | DIFFERENCES | | | | RANGES | | Mean Tide Level |
|------|---|--------------|-------------|----------------------------------|-----------|------------|-----------|---------------------|--------|-----------------|
| | | Latitude | Longitude | Time | | Height | | Mean | Spring | |
| | | | | High Water | Low Water | High Water | Low Water | | | |
| | MARSHALL ISLANDS—cont. Time meridian, 180° E | North | East | h | m | h | m | ft | ft | ft |
| | | | | on Kwajalein Atoll, p.216 | | | | | | |
| 2705 | Ailinglapalap Atoll | 7° 17' | 168° 45' | +0 08 | +0 07 | +0.4 | +0.3 | 3.6 | 5.2 | 3.3 |
| 2707 | Jaluit Atoll (SE Pass) | 5° 55' | 169° 39' | -0 12 | -0 08 | -0.1 | -0.1 | 3.5 | 4.9 | 2.9 |
| 2709 | Ebon (Boston) Atoll | 4° 36' | 168° 41' | -0 10 | -0 10 | +0.1 | +0.1 | 3.4 | 4.8 | 3.0 |
| 2711 | Taongi Atoll | 14° 34' | 168° 57' | -0 20 | -0 20 | 0.0 | 0.0 | 3.3 | 4.7 | 3.0 |
| 2713 | Bikar (Dawson) Atoll | 12° 15' | 170° 08' | -0 10 | -0 10 | 0.0 | 0.0 | 3.5 | 4.9 | 3.0 |
| 2715 | Aiik Atoll | 10° 13' | 169° 59' | -0 10 | -0 10 | 0.0 | 0.0 | 3.5 | 4.9 | 3.0 |
| 2717 | Likiep Atoll | 9° 49' | 169° 19' | +0 00 | -0 01 | +0.1 | 0.0 | 3.6 | 5.0 | 3.0 |
| 2719 | Wotje Atoll | 9° 28' | 170° 14' | -0 11 | -0 11 | -0.2 | -0.2 | 3.4 | 4.7 | 2.8 |
| 2721 | Erikub Atoll | 9° 12' | 169° 55' | -0 10 | -0 10 | 0.0 | 0.0 | 3.5 | 4.9 | 3.0 |
| 2723 | Maloelap Atoll | 8° 43' | 171° 14' | -0 04 | -0 05 | +0.1 | -0.1 | 3.7 | 5.1 | 3.0 |
| 2725 | Majuro Atoll | 7° 07' | 171° 22' | -0 05 | -0 06 | +0.3 | +0.1 | 3.7 | 5.3 | 3.2 |
| 2727 | Arno Atoll | 7° 08' | 171° 42' | -0 04 | -0 05 | +0.6 | -0.1 | 4.2 | 5.7 | 3.2 |
| 2729 | Port Rhin, Mili Atoll | 6° 14' | 171° 48' | +0 04 | +0 04 | +0.7 | 0.0 | 4.2 | 5.9 | 3.3 |
| | HAWAIIAN ISLANDS Time meridian, 165° W | North | West | on Honolulu, p.228 | | | | Mean Diurnal | | |
| 2731 | SAND ISLAND, MIDWAY ISLANDS | 28° 12.7' | 177° 21.6' | <i>Daily predictions, p.220</i> | | | | 0.9 | 1.3 | 0.7 |
| 2733 | Lisianski Island | 26° 04' | 173° 58' | --- | --- | --- | --- | 0.5 | 0.8 | 0.3 |
| | | | | on Nawiliwili, p.224 | | | | | | |
| 2735 | Laysan Island | 25° 46' | 171° 45' | +1 02 | +1 12 | *0.53 | *0.50 | 0.7 | 1.0 | 0.4 |
| 2737 | East Island, French Frigate Shoals | 23° 47' | 166° 13' | +0 03 | +0 08 | *0.73 | *0.73 | 0.9 | 1.4 | 0.6 |
| 2739 | Nonopapa, Niihau Island | 21° 52' | 160° 14' | -0 16 | -0 11 | *0.77 | *0.77 | 1.0 | 1.6 | 0.7 |
| | <i>Kauai Island</i> | | | on Honolulu, p.228 | | | | | | |
| 2741 | Waimea Bay | 21° 57' | 159° 40' | +0 07 | +0 18 | *0.86 | *0.91 | 1.0 | 1.6 | 0.7 |
| 2743 | Port Allen, Hanapepe Bay | 21° 54.2' | 159° 35.5' | -0 15 | -0 10 | *1.01 | *1.00 | 1.24 | 1.84 | 0.82 |
| 2745 | NAWILIWILI | 21° 57.3' | 159° 21.4' | <i>Daily predictions</i> | | | | 1.22 | 1.83 | 0.81 |
| 2747 | Hanamaulu Bay | 22° 00' | 159° 20' | +0 10 | +0 04 | *1.00 | *0.91 | 0.0 | 1.2 | 1.8 |
| 2749 | Hanalei Bay | 22° 13' | 159° 30' | -1 01 | -1 22 | *1.07 | *0.91 | 1.3 | 1.8 | 0.8 |
| | <i>Oahu Island</i> | | | on Moku O Loe, p.232 | | | | | | |
| 2751 | Haleiwa, Waialua Bay † | 21° 36' | 158° 07' | -1 02 | -2 05 | *0.80 | *0.80 | -- | 1.6 | 0.7 |
| 2753 | Waianae | 21° 27' | 158° 12' | +0 20 | +0 18 | *0.93 | *1.00 | 1.2 | 1.8 | 0.8 |
| 2755 | Pearl Harbor Entrance, Bishop Point | 21° 19.8' | 157° 58.0' | +0 15 | +0 06 | *1.00 | *0.88 | 1.30 | 1.66 | 0.79 |
| 2757 | Pearl Harbor, Ford Island Ferry | 21° 22.1' | 157° 56.4' | +0 16 | +0 08 | *1.03 | *0.88 | 1.35 | 1.73 | 0.82 |
| 2759 | HONOLULU | 21° 18.5' | 157° 52.0' | <i>Daily predictions</i> | | | | 1.28 | 1.64 | 0.80 |
| 2761 | Hanauma Bay | 21° 17' | 157° 42' | -0 59 | -0 45 | *1.00 | *1.00 | 1.3 | 1.9 | 0.8 |
| | <i>Molokai Island</i> | | | on Honolulu, p.228 | | | | | | |
| 2771 | Kolo | 21° 06' | 157° 12' | +0 05 | +0 01 | 0.0 | 0.0 | 1.3 | 2.0 | 0.8 |
| 2773 | Kaunakakai | 21° 05.1' | 157° 01.9' | -0 10 | -0 14 | *1.13 | *1.25 | 1.42 | 1.82 | 0.91 |
| 2775 | Kamalo Harbor | 21° 03' | 156° 53' | -0 37 | -0 16 | +0.1 | 0.0 | 1.4 | 2.1 | 0.9 |
| 2777 | Pukoo Harbor | 21° 04' | 156° 48' | -1 03 | -0 48 | +0.1 | 0.0 | 1.4 | 2.1 | 0.9 |
| 2779 | Kaumalapau, Lanai Island | 20° 47' | 157° 00' | +0 02 | +0 03 | +0.2 | 0.0 | 1.5 | 2.2 | 0.9 |
| | <i>Kahoolawe Island</i> | | | on Kahului, p.236 | | | | | | |
| 2781 | Kuheaia Bay | 20° 36' | 156° 36' | -0 09 | -0 09 | +0.2 | 0.0 | 1.5 | 2.1 | 0.9 |
| 2783 | Smuggler Cove | 20° 31' | 156° 41' | -0 15 | +0 03 | +0.2 | 0.0 | 1.5 | 2.2 | 0.9 |
| | <i>Maui Island</i> | | | on Hilo, p.240 | | | | | | |
| 2785 | KAHULUI | 20° 53.9' | 156° 28.3' | <i>Daily predictions</i> | | | | 1.6 | 2.3 | 1.1 |
| 2787 | Hana | 20° 46' | 155° 59' | +0 40 | +0 18 | *1.05 | *0.54 | 1.8 | 2.5 | 1.1 |
| 2789 | Makena | 20° 39' | 156° 27' | +1 21 | +1 09 | *0.73 | *0.54 | 1.2 | 1.8 | 0.8 |
| 2791 | Kihei, Maalaea Bay | 20° 47' | 156° 28' | +1 52 | +1 19 | *0.94 | *0.54 | 1.6 | 2.3 | 1.0 |
| 2793 | Lahaina | 20° 53' | 156° 41' | +1 18 | +1 01 | *0.89 | *0.81 | 1.4 | 2.2 | 1.0 |
| | <i>Hawaii Island</i> | | | on Hilo, p.240 | | | | | | |
| 2795 | Mahukona | 20° 11' | 155° 54' | +0 38 | +0 42 | *0.80 | *0.67 | 1.4 | 2.1 | 0.9 |
| 2797 | Kawaihae | 20° 02.4' | 155° 49.9' | +1 01 | +0 57 | *0.83 | *0.60 | 1.46 | 2.14 | 0.91 |
| 2799 | Kailua Kona | 19° 39' | 156° 00' | +0 38 | +0 37 | *0.80 | *0.67 | 1.4 | 2.1 | 0.9 |
| 2801 | Napoopoo, Kealahou Bay | 19° 28' | 155° 55' | +0 48 | +0 47 | *0.80 | *0.67 | 1.4 | 2.1 | 0.9 |
| 2803 | Honuapo | 19° 05' | 155° 33' | +0 38 | +0 33 | *1.01 | *1.00 | 1.7 | 2.5 | 1.1 |
| 2805 | HILO | 19° 43.8' | 155° 03.4' | <i>Daily predictions</i> | | | | 1.67 | 2.40 | 1.13 |
| 2807 | JOHNSTON ATOLL | 16° 44.3' | 169° 31.8' | <i>Daily predictions, p.244</i> | | | | 1.9 | 2.2 | 1.1 |

Endnotes can be found at the end of table 2.

TABLE 2 – TIDAL DIFFERENCES AND OTHER CONSTANTS

| No. | PLACE | POSITION | | DIFFERENCES | | | | RANGES | | Mean Tide Level |
|------|---|--------------|-------------|---------------------------|-----------|------------|-----------|-------------|--------|-----------------|
| | | Latitude | Longitude | Time | | Height | | Mean | Spring | |
| | | | | High Water | Low Water | High Water | Low Water | | | |
| | HAWAIIAN ISLANDS—cont. Time meridian, 150° W | North | West | h | m | h | m | ft | ft | ft |
| | | | | on Honolulu, p.228 | | | | | | |
| 2809 | Palmyra Island | 5° 53' | 162° 05' | +1 | 19 | +1 | 13 | +0.6 | -0.2 | 2.0 2.7 1.0 |
| | Time meridian, 165° W | | | | | | | | | |
| 2811 | Howland Island | 0° 48' | 176° 38' | +3 | 48 | +3 | 46 | +4.2 | +0.4 | 5.0 6.2 3.1 |
| | Time meridian, 105° W | | | | | | | | | |
| | | South | West | on Apia, p.252 | | | | | | |
| 2813 | Easter Island (Chile) | 27° 09' | 109° 27' | -1 | 22 | -1 | 46 | -0.7 | +0.4 | 1.5 1.9 1.5 |
| | FRENCH POLYNESIA Time meridian, 142° 30' W | | | | | | | | | |
| | <i>Marquesas Islands</i> | | | | | | | | | |
| 2815 | Taio Hae Bay, Nuku Hiva Island | 8° 56' | 140° 06' | -3 | 10 | -3 | 38 | +1.1 | +0.5 | 3.2 3.8 2.4 |
| 2817 | Vai Tahu, Tahu Ata Island | 9° 56' | 139° 06' | -4 | 42 | -5 | 08 | +0.8 | +0.9 | 2.5 3.1 2.4 |
| | Time meridian, 135° W | | | | | | | | | |
| | <i>Tuamotu Archipelago</i> | | | | | | | | | |
| 2819 | Mangareva Island | 23° 08' | 134° 58' | -4 | 29 | -4 | 57 | -0.7 | +0.1 | 1.8 2.3 1.3 |
| | Time meridian, 150° W | | | | | | | | | |
| 2821 | Hao (Bow or La Harpe) Island | 18° 04' | 140° 59' | -4 | 54 | -5 | 20 | -0.2 | +0.5 | 1.9 2.4 1.7 |
| 2823 | Rahiroa (Rangiroa) Island | 14° 57' | 147° 44' | -2 | 36 | -3 | 04 | -0.3 | +0.6 | 1.7 2.1 1.7 |
| | <i>Society Islands</i> | | | | | | | | | |
| 2825 | PAPEETE HARBOR, Tahiti Island <30> | 17° 32' | 149° 34' | -- | -- | -- | -- | *0.31 | *0.31 | 0.8 1.1 0.5 |
| 2827 | Papeari Harbor, Tahiti Island <30> | 17° 45' | 149° 22' | -- | -- | -- | -- | -- | -- | 0.8 1.1 0.5 |
| 2829 | Borabora Island <30> | 16° 30' | 151° 46' | -- | -- | -- | -- | -- | -- | 0.5 0.7 -- |
| | <i>on Papeete, p.248</i> | | | | | | | | | |
| | <i>on Apia, p.252</i> | | | | | | | | | |
| | <i>Tubuai or Asutral Islands</i> | | | | | | | | | |
| 2831 | Rapa (Oparo) Island | 27° 36' | 144° 17' | -7 | 11 | -7 | 37 | -0.2 | +0.5 | 1.9 2.4 1.7 |
| 2833 | Tubuai Island | 23° 22' | 149° 28' | -4 | 13 | -4 | 41 | -0.2 | +0.5 | 1.9 2.4 1.7 |
| | COOK ISLANDS | | | | | | | | | |
| 2835 | Penrhyn (Tongareva) Island | 9° 00' | 157° 59' | -0 | 13 | -0 | 15 | (*0.27+0.9) | | 0.7 0.8 1.3 |
| | Time meridian, 157° 30' W | | | | | | | | | |
| 2837 | Manihiki | 10° 25' | 161° 01' | -- | -- | -- | -- | -- | -- | 0.3 0.4 1.0 |
| 2839 | Aitutaki Island | 18° 51' | 159° 47' | +1 | 51 | +1 | 19 | (*0.46+0.8) | | 1.2 1.4 1.5 |
| 2841 | Avarua, Rarotonga | 21° 12' | 159° 46' | +2 | 04 | +1 | 35 | -1.0 | -0.2 | 1.8 2.2 1.0 |
| | Time meridian, 165° W | | | | | | | | | |
| 2843 | Pukapuka | 10° 52' | 165° 53' | +0 | 26 | +0 | 28 | -0.9 | +0.3 | 1.0 1.2 1.5 |
| | Time meridian, local | | | | | | | | | |
| 2845 | Suvarov Island | 13° 13' | 163° 09' | +0 | 32 | -0 | 05 | (*0.54+0.6) | | 1.4 1.9 1.5 |
| | TOKELAU Time meridian, 165° W | | | | | | | | | |
| 2847 | Fakaofu Island | 9° 23' | 171° 15' | -0 | 29 | -0 | 57 | -0.2 | +0.5 | 1.9 2.4 1.7 |
| | SAMOA and AMERICAN SAMOA | | | | | | | | | |
| 2849 | Asau Harbor, Savaii Island | 13° 30' | 172° 38' | -0 | 03 | -0 | 32 | +0.2 | -0.3 | 3.1 3.9 1.6 |
| 2851 | APIA (Observatory), Upolu Island | 13° 48' | 171° 46' | | | | | | | 2.6 3.2 1.6 |
| 2853 | PAGO PAGO Harbor, Tutuila Island | 14° 16.8' | 170° 41.4' | | | | | | | 2.51 2.72 1.32 |
| 2855 | Tau Island, Manua Islands | 14° 13' | 169° 32' | -0 | 04 | -0 | 34 | +0.8 | -0.3 | 3.7 4.6 1.8 |
| 2857 | Niue Island (N.Z.) | 19° 02' | 169° 55' | +1 | 09 | +0 | 37 | +0.6 | +1.0 | 2.2 2.4 2.4 |
| | Time meridian, 180° E | | | | | | | | | |
| | | South | East | | | | | | | |
| 2859 | Wallis Islands (France) | 13° 22' | 176° 11' | -1 | 38 | -1 | 51 | (*1.42+0.5) | | 3.7 4.6 2.8 |
| | TONGA Time meridian, 195° E | | | | | | | | | |
| | <i>on Apia, p.252</i> | | | | | | | | | |
| 2861 | Neiafu | 18° 39' | 186° 01' | +0 | 04 | -0 | 21 | +1.9 | +1.5 | 3.0 3.4 3.3 |
| 2863 | Lifuka Island | 19° 48' | 185° 39' | -0 | 09 | -0 | 45 | +1.7 | +1.4 | 2.9 3.2 3.2 |
| 2865 | Nomuka | 20° 16' | 185° 12' | +0 | 09 | -0 | 16 | +1.8 | +1.1 | 3.3 3.8 3.1 |
| 2867 | Nukualofa | 21° 08' | 184° 48' | +0 | 09 | -0 | 13 | +1.8 | +0.9 | 3.5 4.0 3.0 |
| | Time meridian, 180° E | | | | | | | | | |
| 2869 | Raoul or Sunday Island | 29° 15' | 182° 03' | -1 | 52 | -2 | 20 | +1.9 | +1.5 | 3.0 3.3 3.3 |
| | FIJI | | | | | | | | | |
| | <i>on Suva, p.256</i> | | | | | | | | | |
| 2871 | Tailevu, Viti Levu Island | 17° 39' | 178° 35' | +0 | 00 | -0 | 06 | +0.8 | +1.0 | 3.6 4.4 3.0 |
| 2873 | Nandi Waters, Viti Levu | 17° 45' | 177° 26' | -0 | 03 | -0 | 08 | +1.3 | +1.0 | 4.1 4.9 3.3 |
| 2875 | Ngaloa Harbor, Kandavu Island | 19° 05' | 178° 11' | -0 | 07 | +0 | 01 | +0.8 | +0.2 | 4.4 5.1 2.6 |
| 2877 | Matuku Island | 19° 10' | 179° 45' | -0 | 04 | -0 | 01 | +0.7 | +1.1 | 3.4 4.1 3.0 |
| 2879 | Totoya Island | 18° 59' | 180° 07' | +1 | 00 | +0 | 51 | +0.9 | +0.9 | 3.8 4.1 3.0 |
| 2881 | Moala Island | 18° 32' | 179° 58' | -0 | 49 | -0 | 38 | +1.2 | +0.6 | 4.4 4.9 3.0 |
| 2883 | SUVA HARBOR, Viti Levu Island | 18° 09' | 178° 26' | | | | | | | 3.82 4.27 2.15 |

Endnotes can be found at the end of table 2.

TABLE 2 – TIDAL DIFFERENCES AND OTHER CONSTANTS

| No. | PLACE | POSITION | | DIFFERENCES | | | | RANGES | | Mean Tide Level |
|------|--|--------------|-------------|----------------------------------|-----------|-------------|-----------|--------|--------|-----------------|
| | | Latitude | Longitude | Time | | Height | | Mean | Spring | |
| | | | | High Water | Low Water | High Water | Low Water | | | |
| | FIJI-cont. Time meridian, 180° E | South | East | h | m | h | m | ft | ft | ft |
| | | | | on Suva, p.256 | | | | | | |
| 2885 | Ngau Island | 18° 00' | 179° 14' | +0 14 | -0 12 | +0.4 | +0.8 | 3.4 | 3.7 | 2.7 |
| 2887 | Nairai Island | 17° 48' | 179° 23' | -0 11 | +0 08 | -0.1 | +0.3 | 3.4 | 3.7 | 2.2 |
| 2889 | Levuka, Ovalau Island | 17° 41' | 178° 51' | -0 14 | -0 12 | +0.9 | +1.1 | 3.6 | 4.3 | 3.1 |
| 2891 | Nandi, Vanua Levu Island | 16° 58' | 178° 47' | +0 01 | +0 09 | +0.3 | +0.9 | 3.2 | 3.9 | 2.7 |
| | | | | on Davao, p.176 | | | | | | |
| 2893 | Rotumah Island | 12° 29' | 177° 07' | -0 15 | +0 00 | (*0.81+1.0) | | 3.5 | 4.7 | 2.9 |
| | TUVALU | | | | | | | | | |
| 2895 | Fongafale, Funafuti Atoll | 8° 32' | 179° 12' | -0 37 | -0 30 | +0.2 | +0.4 | 4.1 | 5.6 | 2.8 |
| | KIRIBATI Time meridian, 150° W | North | West | on Honolulu, p.228 | | | | | | |
| | <i>Line Islands</i> | | | | | | | | | |
| 2897 | Christmas Island | 1° 59' | 157° 28' | +0 49 | +0 39 | +0.7 | 0.0 | 1.9 | 2.3 | 1.2 |
| 2899 | Fanning Island | 3° 51' | 159° 22' | +2 38 | +2 39 | +0.4 | +0.4 | 1.2 | 1.6 | 1.2 |
| | | South | West | on Apia, p.252 | | | | | | |
| 2901 | Caroline Island | 10° 00' | 150° 14' | -2 56 | -3 23 | (*0.35+0.4) | | 0.9 | 1.1 | 0.9 |
| | Time meridian, 165° W | | | | | | | | | |
| | <i>Phoenix Islands</i> | | | | | | | | | |
| 2903 | Canton Island | 2° 48' | 171° 43' | -0 01 | -0 40 | +0.4 | +0.5 | 2.5 | 3.4 | 2.1 |
| | Time meridian, 180° E | North | East | on Kwajalein Atoll, p.216 | | | | | | |
| | <i>Gilbert Islands</i> | | | | | | | | | |
| 2905 | Makin Atoll | 3° 02' | 172° 48' | +0 12 | +0 15 | +0.7 | -0.1 | 4.3 | 6.1 | 3.3 |
| 2907 | Tarawa Atoll | 1° 22' | 172° 56' | +0 19 | +0 21 | +0.8 | -0.1 | 4.4 | 6.2 | 3.3 |
| 2909 | Abemama Atoll | 0° 28' | 173° 50' | +0 27 | +1 03 | +0.7 | -0.1 | 4.3 | 6.1 | 3.3 |
| | | South | East | | | | | | | |
| 2911 | Nonouti Atoll | 0° 40' | 174° 27' | -0 05 | -0 05 | +1.0 | +0.1 | 4.4 | 6.2 | 3.5 |
| | Time meridian, 165° E | | | | | | | | | |
| 2913 | Ocean Island | 0° 52' | 169° 35' | -0 21 | -0 18 | +0.5 | +0.3 | 3.7 | 5.2 | 3.4 |
| | NEW ZEALAND, South Island Time meridian, 180° E | | | on Auckland, p.268 | | | | | | |
| 2915 | Paterson Inlet, Stewart Island | 46° 54' | 168° 07' | -5 42 | -5 37 | -1.9 | +0.6 | 5.5 | 6.4 | 5.2 |
| 2917 | Akaroa | 43° 48' | 172° 55' | -3 31 | -3 12 | *0.65 | *0.33 | 5.8 | 6.3 | 3.5 |
| 2919 | Timaru | 44° 24' | 171° 15' | -4 24 | -4 13 | *0.72 | *1.00 | 5.3 | 5.8 | 4.5 |
| 2921 | Oamaru | 45° 06' | 170° 58' | -4 06 | -3 55 | *0.66 | *1.06 | 4.6 | 5.3 | 4.2 |
| 2923 | Otago Harbor entrance | 45° 47' | 170° 44' | -4 33 | -3 50 | *0.58 | *0.33 | 5.1 | 5.6 | 3.2 |
| 2925 | Port Chalmers, Otago Harbor | 45° 49' | 170° 39' | -3 35 | -3 23 | *0.58 | *0.33 | 5.1 | 5.7 | 3.2 |
| 2927 | Dunedin, Otago Harbor | 45° 53' | 170° 33' | -3 00 | -2 11 | -4.0 | -1.2 | 5.2 | 5.7 | 3.2 |
| 2929 | Nugget Point | 46° 26' | 169° 48' | -4 52 | -4 32 | -2.4 | +0.5 | 5.1 | 5.8 | 4.9 |
| 2931 | Waipapa Point | 46° 39' | 168° 51' | -5 17 | -5 11 | -1.3 | +0.6 | 6.1 | 6.8 | 5.5 |
| 2933 | Bluff | 46° 36' | 168° 20' | -5 34 | -5 27 | -1.4 | +0.5 | 6.1 | 7.2 | 5.4 |
| 2935 | New River | 46° 32' | 168° 15' | -5 56 | -5 49 | -1.1 | -0.1 | 7.0 | 7.9 | 5.2 |
| 2937 | Colac Bay | 46° 22' | 167° 54' | -7 16 | -6 56 | -2.6 | -0.2 | 5.6 | 6.8 | 4.4 |
| 2939 | Preservation Inlet | 46° 04' | 166° 41' | +4 59 | +5 08 | -2.9 | -0.6 | 5.7 | 6.7 | 4.0 |
| 2941 | Dusky Sound | 45° 47' | 166° 32' | +4 49 | +4 58 | -3.1 | -0.4 | 5.3 | 6.4 | 4.0 |
| 2943 | Deep Cove | 45° 27' | 167° 10' | +4 42 | +4 49 | -3.6 | -0.3 | 4.7 | 5.4 | 3.9 |
| 2945 | Bligh Sound | 44° 53' | 167° 32' | +4 29 | +4 38 | -3.2 | -0.3 | 5.1 | 6.1 | 4.0 |
| 2947 | Milford Sound | 44° 40' | 167° 56' | +4 24 | +4 33 | -3.2 | -0.3 | 5.1 | 6.1 | 4.0 |
| 2949 | Jackson's Bay | 43° 59' | 168° 37' | +4 09 | +4 18 | -3.1 | -0.4 | 5.3 | 6.4 | 4.0 |
| 2951 | Haast River entrance | 43° 50' | 169° 03' | +3 59 | +4 08 | -3.1 | -0.4 | 5.3 | 6.4 | 4.0 |
| 2953 | Bruce Bay | 43° 35' | 169° 36' | +3 49 | +3 58 | -3.0 | -0.5 | 5.5 | 6.6 | 4.0 |
| 2955 | Okarito | 43° 13' | 170° 11' | +3 44 | +3 53 | -2.9 | -0.5 | 5.6 | 6.7 | 4.1 |
| 2957 | Hokitika Bar | 42° 43' | 170° 58' | +3 39 | +3 48 | -2.9 | -0.6 | 5.7 | 7.0 | 4.0 |
| 2959 | Greymouth | 42° 26' | 171° 13' | +3 34 | +3 43 | -2.8 | -0.7 | 5.9 | 7.3 | 4.0 |
| 2961 | Westport | 41° 44' | 171° 36' | +3 29 | +3 38 | -0.1 | +0.1 | 7.8 | 9.8 | 5.8 |
| 2963 | West Haven Inlet | 40° 35' | 172° 32' | +2 24 | +2 33 | -1.1 | -0.6 | 7.5 | 9.0 | 4.9 |
| 2965 | Motupipi River entrance | 40° 50' | 172° 51' | +1 48 | +1 41 | *1.43 | *1.28 | 11.7 | 14.0 | 8.2 |
| 2967 | Astrolabe Road | 40° 58' | 173° 03' | +1 53 | +1 46 | +4.5 | +0.2 | 12.3 | 15.4 | 8.2 |
| 2969 | Nelson | 41° 16' | 173° 16' | +2 13 | +2 06 | +1.2 | +0.2 | 9.0 | 11.6 | 6.5 |
| 2971 | Croixilles Harbor | 41° 05' | 173° 42' | +1 58 | +1 51 | +2.4 | +0.1 | 10.3 | 12.1 | 7.1 |
| 2973 | Greville Harbor, D'Urville Island | 40° 52' | 173° 48' | +2 17 | +2 20 | -0.4 | -0.6 | 8.2 | 10.8 | 5.3 |
| 2975 | Stephens Island | 40° 40' | 174° 01' | +1 43 | +1 36 | -2.2 | -0.3 | 6.1 | 7.0 | 4.6 |
| 2977 | Elmslie Bay | 40° 56' | 173° 51' | +1 23 | +1 06 | -1.8 | -1.5 | 7.7 | 8.9 | 4.2 |
| 2979 | Pelorus Sound entrance | 40° 55' | 173° 59' | +1 13 | +0 46 | -2.4 | -0.5 | 6.1 | 7.2 | 4.4 |
| 2981 | Queen Charlotte Sound entrance | 41° 07' | 174° 17' | +1 16 | +0 53 | -5.7 | -1.2 | 3.5 | 4.7 | 2.4 |
| 2983 | Picton, Queen Charlotte Sound | 41° 17' | 174° 00' | +1 20 | +0 50 | -5.8 | -1.3 | 3.5 | 4.8 | 2.3 |
| | | | | on Wellington, p.264 | | | | | | |
| 2985 | Cape Campbell | 41° 44' | 174° 15' | +0 38 | +0 35 | +1.1 | 0.0 | 4.3 | 4.6 | 3.5 |
| 2987 | Kaikoura Peninsula | 42° 24' | 173° 42' | +0 13 | +0 15 | +1.3 | -0.1 | 4.6 | 4.9 | 3.5 |
| 2989 | Lyttelton | 43° 37' | 172° 43' | -0 17 | -0 15 | +1.7 | -1.1 | 6.0 | 6.4 | 3.2 |

Endnotes can be found at the end of table 2.

TABLE 2 – TIDAL DIFFERENCES AND OTHER CONSTANTS

| No. | PLACE | POSITION | | DIFFERENCES | | | | RANGES | | Mean Tide Level |
|------|--|----------|-----------|--------------------------------|-----------|-------------|-----------|-------------|--------|-----------------|
| | | Latitude | Longitude | Time | | Height | | Mean | Spring | |
| | | | | High Water | Low Water | High Water | Low Water | | | |
| | NEW ZEALAND, North Island Time meridian, 180° E | South | East | h m | h m | ft | ft | ft | ft | ft |
| | | | | on Wellington, p.264 | | | | | | |
| 2991 | Gisborne | 38° 41' | 178° 02' | +1 05 | +1 08 | +1.5 | +0.3 | 4.4 | 4.8 | 3.8 |
| 2993 | Clyde, Wairoa River | 39° 03' | 177° 26' | +1 00 | +0 51 | +0.8 | -0.5 | 4.5 | 4.8 | 3.0 |
| 2995 | Napier | 39° 29' | 176° 55' | +0 58 | +0 49 | +0.7 | -0.5 | 4.4 | 4.6 | 3.0 |
| 2997 | Cape Palliser | 41° 37' | 175° 17' | +0 10 | +0 10 | +0.2 | -0.1 | 3.5 | 3.7 | 3.0 |
| 2999 | WELLINGTON | 41° 17' | 174° 47' | <i>Daily predictions</i> | | | | 3.2 | 3.4 | 2.9 |
| | | | | on Auckland, p.268 | | | | | | |
| 3001 | Porirua Harbor | 41° 04' | 174° 51' | +2 05 | +2 02 | -4.6 | 0.0 | 3.4 | 4.8 | 3.5 |
| 3003 | Manawatu River entrance | 40° 28' | 175° 13' | +1 43 | +1 36 | -2.9 | -0.2 | 5.3 | 6.8 | 4.3 |
| 3005 | Wanganui River entrance | 39° 57' | 174° 49' | +2 38 | +2 31 | -1.9 | +0.5 | 5.6 | 7.2 | 5.1 |
| 3007 | Opunake Bay | 39° 28' | 173° 51' | +1 58 | +1 51 | +0.1 | +0.2 | 7.9 | 10.1 | 6.0 |
| 3009 | Port Taranaki | 39° 04' | 174° 02' | +2 21 | +2 39 | +0.5 | +0.1 | 8.4 | 10.6 | 6.1 |
| 3011 | Waitara River entrance | 38° 59' | 174° 14' | +2 22 | +2 40 | +0.9 | +0.5 | 8.4 | 10.5 | 6.5 |
| 3013 | Kawhia | 38° 04' | 174° 49' | +2 39 | +2 57 | -0.6 | -0.5 | 7.9 | 10.0 | 5.3 |
| 3015 | Raglan | 37° 48' | 174° 53' | +2 47 | +3 05 | -0.6 | -0.6 | 8.0 | 10.2 | 5.2 |
| 3017 | Waikato River | 37° 24' | 174° 45' | +2 17 | +2 35 | +1.5 | +0.9 | 8.6 | 10.9 | 7.0 |
| 3019 | Manukau Harbor entrance | 37° 03' | 174° 31' | +2 49 | +2 48 | -0.3 | +0.4 | 7.3 | 9.0 | 5.9 |
| 3021 | Cornwallis, Manukau Harbor | 37° 00' | 174° 36' | +2 52 | +3 10 | +0.7 | +0.6 | 8.1 | 10.0 | 6.5 |
| 3023 | Onehunga, Manukau Harbor | 36° 56' | 174° 47' | +3 21 | +3 30 | +2.1 | +1.1 | 9.0 | 11.1 | 7.4 |
| 3025 | Pouto Point, Kaipara Harbor | 36° 22' | 174° 11' | +3 07 | +3 25 | +0.4 | +0.5 | 7.9 | 9.9 | 6.2 |
| 3027 | Martins Bay, Hokianga River | 35° 32' | 173° 23' | +2 22 | +2 40 | +0.2 | -0.3 | 8.5 | 10.8 | 5.8 |
| 3029 | Cape Maria van Diemen | 34° 29' | 172° 38' | +1 47 | +2 05 | -2.1 | -0.5 | 6.4 | 7.4 | 4.5 |
| 3031 | Parengarenga | 34° 32' | 173° 00' | +0 50 | +0 50 | -2.2 | 0.0 | 5.8 | 6.9 | 4.7 |
| 3033 | Awanui River | 34° 54' | 173° 18' | +0 50 | +0 30 | -3.9 | -1.3 | 5.4 | 6.3 | 3.2 |
| 3035 | Whangaroa | 35° 02' | 173° 47' | +0 20 | +0 20 | -2.7 | -0.1 | 5.4 | 6.2 | 4.4 |
| 3037 | Port Russell | 35° 16' | 174° 07' | +0 12 | +0 12 | -2.4 | 0.0 | 5.6 | 6.4 | 4.6 |
| 3039 | Whangarei Heads | 35° 49' | 174° 30' | +0 20 | +0 20 | -2.3 | -0.1 | 5.8 | 6.7 | 4.6 |
| 3041 | Port Whangarei, railway wharf | 35° 45' | 174° 20' | +0 40 | +0 40 | -1.1 | +0.3 | 6.6 | 7.7 | 5.4 |
| 3043 | Bon Accord Harbor, Kawau Island | 36° 27' | 174° 50' | +0 15 | +0 25 | -1.0 | -0.1 | 7.1 | 8.0 | 5.2 |
| 3045 | Nagle Cove, Great Barrier Island | 36° 09' | 175° 21' | -0 24 | -0 11 | -2.6 | -0.4 | 5.8 | 6.6 | 4.3 |
| 3047 | AUCKLAND | 36° 51' | 174° 46' | <i>Daily predictions</i> | | | | 8.0 | 9.2 | 5.8 |
| 3049 | Waiheke | 36° 47' | 175° 09' | -0 06 | -0 06 | -0.4 | 0.0 | 7.6 | 8.6 | 5.6 |
| 3051 | Coromandel | 36° 46' | 175° 30' | -0 15 | -0 15 | +0.6 | +0.2 | 8.4 | 9.7 | 6.2 |
| 3053 | Mercury Bay | 36° 50' | 175° 43' | -0 20 | -0 20 | -3.0 | +0.2 | 4.8 | 5.4 | 4.4 |
| 3055 | Tauranga Harbor entrance | 37° 39' | 176° 11' | -0 12 | -0 01 | -3.9 | -0.6 | 4.7 | 5.2 | 3.6 |
| 3057 | Ohiwa | 37° 59' | 177° 07' | +0 17 | -0 03 | -3.7 | -0.6 | 4.9 | 5.3 | 3.7 |
| 3059 | East Cape | 37° 41' | 178° 33' | -0 55 | -0 45 | -3.3 | +0.2 | 4.5 | 5.0 | 4.2 |
| | NEW CALEDONIA Time meridian, 165° E | | | on Yokohama, p.20 | | | | | | |
| 3061 | Port Goro, Toemo Island | 22° 20' | 167° 01' | +2 06 | +2 07 | (*0.57+0.5) | | 2.0 | 2.6 | 2.7 |
| 3063 | Noumea | 22° 16' | 166° 27' | +3 05 | +3 16 | (*0.83+0.8) | | 2.9 | 3.8 | 4.0 |
| 3065 | Port Nepui | 21° 21' | 164° 58' | +3 11 | +3 35 | (*0.89+0.3) | | 3.1 | 4.0 | 3.7 |
| 3067 | Paagoumene | 20° 29' | 164° 11' | +3 10 | +3 18 | (*0.91-0.2) | | 3.2 | 4.1 | 3.3 |
| 3069 | <i>Loyalty Islands</i> Shepenehe Anchorage | 20° 47' | 167° 08' | +1 23 | +1 23 | +0.3 | -0.4 | 4.2 | 5.4 | 3.7 |
| | VANUATU | | | | | | | | | |
| 3071 | Vila Harbor, Efate Island | 17° 44' | 168° 19' | +0 49 | +0 59 | (*0.80-0.7) | | 2.8 | 3.5 | 2.3 |
| 3073 | Havannah Harbor, Efate Island | 17° 35' | 168° 15' | +0 55 | +0 59 | *0.70 | *0.70 | 2.4 | 3.0 | 2.6 |
| 3075 | Port Sandwich, Malekula Island | 16° 26' | 167° 47' | +0 03 | +0 11 | (*0.80-0.7) | | 2.8 | 3.8 | 2.3 |
| 3077 | Tangoa Island | 15° 35' | 166° 59' | +1 07 | +1 11 | *0.56 | *0.50 | 2.1 | 2.6 | 2.1 |
| 3079 | Espiritu Santo Island, Peko Chan | 15° 31' | 167° 10' | +0 23 | +0 28 | *0.76 | *0.65 | 2.9 | 3.6 | 2.8 |
| 3081 | Aesi | 15° 26' | 167° 14' | -0 22 | -0 15 | *0.80 | *0.70 | 3.0 | 3.8 | 2.9 |
| 3083 | Port Patteson, Banks Islands | 13° 51' | 167° 34' | +1 31 | +1 31 | +0.55 | *0.45 | 2.1 | 2.6 | 2.0 |
| | SOLOMON ISLANDS | | | | | | | | | |
| 3085 | <i>Santa Cruz Islands</i> Manevai Bay | 11° 38' | 166° 55' | -0 14 | -0 14 | *0.55 | *0.45 | 2.1 | 2.6 | 2.0 |
| | | | | on Dreger Harbor, p.272 | | | | Diurnal | Tropic | |
| 3087 | Kukum, Guadalcanal Island § | 9° 25' | 160° 01' | +0 25 | +0 00 | -2.5 | -2.5 | 1.6 | 2.3 | 1.4 |
| 3089 | Port Purvis, Florida Island § | 9° 09' | 160° 15' | +1 30 | +0 15 | -2.0 | -2.3 | 2.0 | 2.3 | 1.7 |
| 3091 | Tulagi Island § | 9° 06' | 160° 09' | +0 38 | -0 35 | -2.0 | -2.3 | 2.0 | 2.3 | 1.7 |
| | | | | on Cebu, p.180 | | | | Mean Spring | | |
| 3093 | Auki Harbor, Malaita Island | 8° 47' | 160° 42' | -7 20 | -7 10 | (*0.88+0.6) | | 2.9 | 4.1 | 2.6 |
| | | | | on Dreger Harbor, p.272 | | | | Diurnal | Tropic | |
| 3095 | Karunohu Island § | 8° 30' | 157° 58' | +0 14 | +1 05 | -2.4 | -2.3 | 1.6 | 2.3 | 1.5 |
| 3097 | Nususonga, New Georgia Island § | 8° 20' | 157° 15' | -0 01 | +1 56 | -2.7 | -2.7 | 1.7 | 2.4 | 1.2 |
| 3099 | Gizo Harbor, New Georgia Group § | 8° 06' | 156° 51' | -0 40 | +1 22 | -2.0 | -1.8 | 1.5 | 2.2 | 1.9 |

Endnotes can be found at the end of table 2.

TABLE 2 – TIDAL DIFFERENCES AND OTHER CONSTANTS

| No. | PLACE | POSITION | | DIFFERENCES | | | | RANGES | | Mean Tide Level |
|------|---|----------|-----------|--------------------------------|-----------|-------------|-----------|----------------|--------|-----------------|
| | | Latitude | Longitude | Time | | Height | | Diurnal | Tropic | |
| | | | | High Water | Low Water | High Water | Low Water | | | |
| | PAPUA NEW GUINEA Time meridian, 150° E | South | East | h m | h m | ft | ft | ft | ft | ft |
| | <i>Bismark Archipelago</i> | | | on Dreger Harbor, p.272 | | | | | | |
| 3101 | Kokopo, New Britain Island § | 4° 21' | 152° 17' | +0 23 | +0 48 | -2.1 | -2.1 | 1.7 | 2.4 | 1.8 |
| 3103 | Rabaul, New Britain Island § | 4° 12' | 152° 12' | -0 24 | +0 18 | -2.7 | -2.7 | 1.5 | 2.1 | 1.0 |
| 3105 | Bagaterre Haven, New Ireland I § | 2° 47' | 151° 00' | -8 49 | -6 46 | -2.7 | -2.7 | 1.7 | 2.4 | 1.2 |
| 3107 | West Harbor, New Hanover Island § | 2° 28' | 149° 58' | -9 04 | -7 01 | -2.8 | -2.8 | 1.6 | 2.3 | 1.1 |
| | | | | on Chuuk, p.204 | | | | | | |
| 3109 | Emirau Island § | 1° 40' | 149° 55' | -0 39 | -0 23 | *1.17 | *1.17 | 1.7 | 2.2 | 2.0 |
| | | | | on Djakarta, p.156 | | | | | | |
| 3111 | Seeadler Harbor, Manus Island § | 2° 01' | 147° 16' | +5 36 | +5 18 | -0.4 | -0.4 | 2.0 | 2.6 | 1.7 |
| | | | | on Dreger Harbor, p.272 | | | | | | |
| 3113 | Finsch Harbor § | 6° 33' | 147° 52' | -0 12 | -0 40 | -1.8 | -1.8 | 1.7 | 2.2 | 2.0 |
| 3115 | DREGER HARBOR § | 6° 39' | 147° 53' | <i>Daily predictions</i> | | | | 1.7 | 2.4 | 3.8 |
| 3117 | East Ape (Goschen Strait) § | 10° 14' | 150° 53' | -1 43 | +0 04 | -2.5 | -2.4 | 1.6 | 2.3 | 1.4 |
| 3119 | Blakeney Island § | 10° 25' | 151° 13' | -1 37 | +1 28 | -1.8 | -2.0 | -- | 2.6 | 1.9 |
| | | | | on Townsville, p.280 | | | | Mean Spring | | |
| 3121 | South Cape | 10° 43' | 150° 16' | -0 03 | -0 19 | (*0.48+1.2) | | 2.6 | 3.7 | 3.7 |
| 3123 | Dedele Point | 10° 14' | 148° 43' | +0 21 | +0 21 | *0.78 | *0.78 | 4.2 | 6.0 | 4.1 |
| 3125 | Port Moresby | 9° 29' | 147° 08' | +0 17 | -0 04 | (*0.67+1.2) | | 3.6 | 5.2 | 4.8 |
| | | | | on Darwin, p.276 | | | | | | |
| 3127 | Fly River entrance | 8° 42' | 143° 37' | +2 55 | +2 47 | *0.54 | *0.43 | 7.9 | 11.2 | 7.0 |
| | INDONESIA, NEW GUINEA Time meridian, 135° E | | | on Singapore, p.144 | | | | Mean Spring | | |
| 3129 | Merauke | 8° 29' | 140° 23' | +1 36 | +1 50 | +7.2 | +4.5 | 8.4 | 10.7 | 11.0 |
| | | | | on Bangkok Bar, p.140 | | | | Diurnal Tropic | | |
| 3131 | Digul River entrance § | 7° 07' | 138° 45' | -7 00 | -7 03 | *1.94 | *1.65 | 15.9 | 19.3 | 14.5 |
| | | | | on Singapore, p.144 | | | | Mean Spring | | |
| 3133 | Etna Bay | 3° 56' | 134° 40' | -8 36 | -8 36 | -0.4 | -0.1 | 5.4 | 6.7 | 4.9 |
| | | | | on Yokohama, p.20 | | | | | | |
| 3135 | Sekar Bay, Berau Gulf | 2° 42' | 132° 25' | -0 36 | -0 28 | (*0.74+2.1) | | 2.6 | 3.3 | 4.9 |
| | | | | on Bombay, p.328 | | | | | | |
| 3137 | Wasian River entrance, Berau Gulf | 2° 13' | 133° 33' | -5 20 | -5 17 | +1.4 | +0.3 | 9.8 | 12.3 | 9.2 |
| 3139 | Modan, Berau Gulf | 2° 23' | 133° 54' | -5 21 | -5 18 | +5.6 | +1.3 | 13.0 | 16.4 | 11.8 |
| | | | | on Yokohama, p.20 | | | | | | |
| 3141 | Saonek, Dampier Strait | 0° 27' | 130° 46' | +1 53 | +2 02 | (*0.94+0.3) | | 3.3 | 4.5 | 3.9 |
| 3143 | Manokwari | 0° 52' | 134° 05' | +1 50 | +1 59 | -0.2 | -0.1 | 3.4 | 4.6 | 3.6 |
| 3145 | Mios Woendi Lagoon, Schouten Islands | 1° 16' | 136° 23' | +1 52 | +1 44 | *0.95 | *0.95 | 3.3 | 4.2 | 3.6 |
| 3147 | Kajo Bay | 2° 32' | 140° 44' | +1 51 | +1 59 | (*0.51+1.1) | | 1.8 | 2.0 | 3.0 |
| | AUSTRALIA, North Coast Time meridian, 142° 30' E | | | on Darwin, p.276 | | | | | | |
| 3149 | Tapa Bay, Bynoe Harbor | 12° 27' | 130° 36' | -0 04 | -0 04 | *0.88 | *0.90 | 11.6 | 16.8 | 12.0 |
| 3151 | East Point, Bynoe Harbor | 12° 35' | 130° 34' | +0 04 | +0 04 | *0.91 | *0.96 | 11.9 | 17.0 | 12.6 |
| 3153 | Night Cliff, Point Darwin | 12° 23' | 130° 50' | +0 06 | +0 06 | -1.6 | -0.5 | 12.3 | 17.6 | 12.6 |
| 3155 | DARWIN | 12° 28' | 130° 51' | <i>Daily predictions</i> | | | | 13.4 | 18.8 | 13.6 |
| 3157 | Cape Hotham | 12° 03' | 131° 17' | +1 14 | +1 14 | *0.64 | *0.67 | 8.3 | 11.2 | 8.8 |
| | Time meridian, 120° E | | | | | | | | | |
| 3159 | Cape Keith, Melville Island | 11° 36' | 131° 28' | +0 03 | +0 03 | *0.54 | *0.55 | 7.2 | 9.6 | 7.4 |
| 3161 | Cape Don Boat Harbor | 11° 19' | 131° 46' | -1 02 | -1 19 | *0.33 | *0.33 | 4.0 | 5.6 | 4.6 |
| | Time meridian, 142° 30' E | | | | | | | | | |
| 3163 | Arnhem Bay | 12° 11' | 136° 06' | +4 15 | +4 10 | (*0.85-3.0) | | 11.4 | 13.6 | 8.6 |
| | AUSTRALIA, East Coast Time meridian, 150° E | | | on Townsville, p.280 | | | | | | |
| 3165 | Thursday Island, Torres Strait <31> | 10° 35' | 142° 13' | -- | -- | -- | -- | -- | 6.1 | -- |
| 3167 | Tern Island | 11° 00' | 142° 45' | +1 38 | +1 36 | +1.1 | +0.9 | 5.6 | 8.4 | 6.3 |
| 3169 | Hannibal Island | 11° 36' | 142° 56' | +1 02 | +1 01 | 0.0 | 0.0 | 5.4 | 8.0 | 5.3 |
| 3171 | Piper Island | 12° 15' | 143° 15' | +0 27 | +0 28 | *0.86 | *0.96 | 4.4 | 6.6 | 4.7 |
| 3173 | Restoration Island | 12° 37' | 143° 28' | +0 23 | +0 23 | (*0.70+1.0) | | 3.8 | 5.8 | 4.7 |
| 3175 | Flinders Islands | 14° 10' | 144° 15' | +0 15 | +0 15 | (*0.78+1.9) | | 4.2 | 6.2 | 6.0 |
| 3177 | Low Wooded Isle | 15° 05' | 145° 24' | -0 12 | -0 12 | (*0.72+1.0) | | 3.9 | 5.8 | 4.8 |

Endnotes can be found at the end of table 2.

TABLE 2 – TIDAL DIFFERENCES AND OTHER CONSTANTS

| No. | PLACE | POSITION | | DIFFERENCES | | | | RANGES | | Mean Tide Level | | |
|------|--|----------|-----------|--------------------------------|-----------|------------|-----------|--------------------------|--------|-----------------|------|------|
| | | Latitude | Longitude | Time | | Height | | Mean | Spring | | | |
| | | | | High Water | Low Water | High Water | Low Water | | | | | |
| | AUSTRALIA, East Coast—cont. Time meridian, 150° E | South | East | h | m | h | m | ft | ft | ft | | |
| | | | | on Townsville, p.280 | | | | | | | | |
| 3179 | Cooktown | 15° 28' | 145° 15' | +0 | 10 | | | (*0.72+0.4) | 3.9 | 5.8 | 4.2 | |
| 3181 | Low Isles | 16° 23' | 145° 34' | +0 | 00 | | | (*0.70+1.1) | 3.8 | 5.6 | 4.8 | |
| 3183 | Cairns | 16° 55' | 145° 47' | -0 | 02 | | | (*0.76+0.6) | 4.1 | 6.0 | 4.6 | |
| 3185 | Green Island | 16° 46' | 145° 58' | -0 | 18 | | | (*0.72+0.7) | 3.9 | 5.6 | 4.5 | |
| 3187 | High Island | 17° 10' | 146° 01' | -0 | 06 | | | (*0.72+0.7) | 3.9 | 5.8 | 4.5 | |
| 3189 | North Barnard Island | 17° 41' | 146° 11' | -0 | 04 | | | (*0.76+0.9) | 4.1 | 6.0 | 4.9 | |
| 3191 | Dunk Island | 17° 56' | 146° 09' | -0 | 06 | | | (*0.81+2.3) | 4.4 | 6.4 | 6.6 | |
| 3193 | Dungeness (Lucinda) | 18° 31' | 146° 19' | +0 | 15 | | | +0.3 | 5.7 | 8.0 | 5.5 | |
| 3195 | TOWNSVILLE | 19° 15' | 146° 50' | | | | | <i>Daily predictions</i> | 5.4 | 7.6 | 5.3 | |
| 3197 | Bowen | 20° 01' | 148° 15' | +0 | 52 | | | -0.2 | 5.2 | 7.0 | 5.2 | |
| | | | | on Brisbane Bar, p.284 | | | | | | | | |
| 3199 | Hook Island | 20° 04' | 148° 56' | +1 | 10 | +1 | 05 | +1.9 | +1.0 | 5.9 | 7.9 | 5.4 |
| 3201 | Molle Island | 20° 15' | 148° 50' | +1 | 23 | +1 | 18 | *1.36 | *1.43 | 6.7 | 8.8 | 5.4 |
| 3203 | East Repulse Island | 20° 35' | 148° 53' | +1 | 39 | +1 | 34 | (*1.82+2.0) | | 9.1 | 12.1 | 9.1 |
| 3205 | Carlisle Island | 20° 47' | 149° 18' | +1 | 26 | +1 | 21 | (*1.88+2.0) | | 9.4 | 12.7 | 9.3 |
| 3207 | St. Bees Island | 20° 54' | 149° 27' | +1 | 31 | +1 | 26 | (*2.10+1.7) | | 10.5 | 14.1 | 9.9 |
| 3209 | Refuge Bay, Scawfell Island | 20° 52' | 149° 37' | +1 | 26 | +1 | 21 | (*1.96+2.5) | | 9.8 | 13.1 | 10.1 |
| 3211 | MacKay, Queensland | 21° 07' | 149° 14' | +1 | 35 | +1 | 30 | (*2.44+0.3) | | 12.2 | 16.0 | 9.8 |
| 3213 | Sarina Inlet | 21° 24' | 149° 20' | +1 | 43 | +1 | 38 | (*2.58+1.1) | | 12.9 | 16.8 | 11.2 |
| 3215 | Dove Point, Shoalwater Bay | 22° 14' | 150° 28' | +0 | 58 | +0 | 53 | (*2.58+0.8) | | 12.9 | 17.1 | 10.9 |
| 3217 | High Peak Island | 21° 57' | 150° 41' | +0 | 40 | +0 | 35 | (*2.00+0.8) | | 10.0 | 13.4 | 8.6 |
| 3219 | Port Clinton, Coral Sea | 22° 32' | 150° 45' | +0 | 15 | +0 | 10 | *1.84 | *1.64 | 9.5 | 12.8 | 7.1 |
| 3221 | Tryon Island | 23° 15' | 151° 47' | -0 | 38 | -0 | 43 | +1.9 | +1.1 | 5.8 | 7.6 | 5.4 |
| 3223 | Port Alma, Fitzroy River | 23° 34' | 150° 52' | -0 | 10 | -0 | 15 | (*1.88+1.2) | | 9.4 | 12.5 | 8.5 |
| 3225 | Gladstone, Port Curtis | 23° 50' | 151° 15' | -0 | 10 | -0 | 15 | +4.2 | +1.4 | 7.8 | 10.2 | 6.7 |
| 3227 | Lady Musgrave Island | 23° 54' | 152° 23' | -1 | 25 | -1 | 25 | 0.0 | +0.6 | 4.4 | 5.9 | 4.2 |
| 3229 | Pancake Creek | 24° 01' | 151° 45' | -0 | 56 | -1 | 02 | +2.3 | +1.1 | 6.2 | 8.2 | 5.6 |
| 3231 | Lady Elliot Island | 24° 07' | 152° 43' | -1 | 19 | -1 | 19 | 0.0 | +0.8 | 4.2 | 5.6 | 4.3 |
| 3233 | Burnett Heads | 24° 46' | 152° 23' | -0 | 41 | -0 | 41 | +1.1 | +0.9 | 5.2 | 6.6 | 4.9 |
| 3235 | Urangan Jetty | 25° 17' | 152° 55' | -0 | 48 | -0 | 48 | +3.5 | +0.7 | 7.8 | 10.2 | 6.0 |
| 3237 | Mary River, Middle Bank | 25° 30' | 152° 52' | +0 | 20 | +1 | 00 | +3.2 | +0.1 | 8.1 | 10.5 | 5.6 |
| 3239 | BRISBANE BAR | 27° 19' | 153° 10' | | | | | <i>Daily predictions</i> | | 5.0 | 5.9 | 4.0 |
| 3241 | Ballina | 28° 52' | 153° 35' | -0 | 59 | -0 | 58 | (*0.46+0.7) | | 2.3 | 2.9 | 2.5 |
| 3243 | Iluka | 29° 25' | 153° 22' | -1 | 15 | -1 | 15 | (*0.56+0.8) | | 2.8 | 3.6 | 3.0 |
| 3245 | Lord Howe Island | 31° 32' | 159° 04' | -1 | 25 | -1 | 20 | -0.6 | +0.3 | 4.1 | 5.3 | 3.8 |
| | Time meridian, 172° 30' E | | | | | | | | | | | |
| 3247 | Norfolk Island | 29° 04' | 167° 56' | -1 | 17 | -1 | 29 | -1.3 | -0.4 | 4.1 | 5.0 | 2.9 |
| | Time meridian, 150° E | | | | | | | | | | | |
| | | | | on Sydney, p.288 | | | | | | | | |
| 3249 | Coffs Harbor | 30° 18' | 153° 09' | -0 | 22 | -0 | 20 | 0.0 | -0.1 | 3.7 | 4.7 | 3.0 |
| 3251 | Port Macquarie bar | 31° 26' | 152° 56' | +0 | 12 | +0 | 11 | -0.3 | -0.1 | 3.2 | 4.0 | 2.8 |
| 3253 | Nelson's Bay | 32° 43' | 152° 09' | +0 | 16 | +0 | 17 | +0.1 | +0.3 | 3.4 | 4.2 | 3.2 |
| 3255 | Newcastle | 32° 56' | 151° 47' | -0 | 04 | -0 | 09 | 0.0 | +0.2 | 3.4 | 4.2 | 3.1 |
| 3257 | SYDNEY (Fort Denison) | 33° 51' | 151° 14' | | | | | <i>Daily predictions</i> | | 3.6 | 4.5 | 3.0 |
| 3259 | Port Kembla | 34° 29' | 150° 55' | +0 | 00 | +0 | 00 | -0.4 | -0.2 | 3.4 | 4.0 | 2.7 |
| 3261 | Moruya River bar | 35° 54' | 150° 08' | +0 | 10 | +0 | 10 | -0.4 | +0.1 | 3.1 | 3.9 | 2.9 |
| 3263 | Eden | 37° 04' | 149° 54' | +0 | 00 | +0 | 00 | -0.8 | -0.1 | 2.9 | 3.6 | 2.5 |
| 3265 | Gabo Island | 37° 34' | 149° 55' | -0 | 10 | -0 | 01 | +0.2 | +1.2 | 2.6 | 3.0 | 3.7 |
| | Tasmania | | | | | | | | | | | |
| | | | | on Port Phillip, p.292 | | | | | | | | |
| 3267 | Stack Island | 40° 36' | 144° 47' | +0 | 46 | +1 | 32 | (*1.81-1.1) | | 5.6 | 6.2 | 4.1 |
| 3269 | Devonport | 41° 09' | 146° 23' | -0 | 14 | +0 | 32 | +4.8 | +0.1 | 7.8 | 8.5 | 5.4 |
| 3271 | Port Dalrymple entrance | 41° 04' | 146° 48' | -0 | 34 | +0 | 12 | (*2.26-1.1) | | 7.0 | 8.0 | 5.5 |
| 3273 | Launceston, Tamar River | 41° 26' | 147° 08' | +1 | 26 | +3 | 17 | (*3.13-0.9) | | 9.7 | 10.8 | 8.2 |
| | | | | on Hong Kong, p.120 | | | | | | | | |
| 3275 | Parsons Bay | 43° 06' | 147° 45' | +11 | 22 | +11 | 31 | (*0.52+0.8) | | 1.7 | 1.8 | 3.1 |
| 3277 | Hobart | 42° 53' | 147° 20' | +11 | 09 | +11 | 14 | (*0.55+0.9) | | 1.8 | 1.9 | 3.4 |
| | | | | on Port Adelaide, p.296 | | | | | | | | |
| 3279 | Bramble Cove, Port Davey | 43° 19' | 146° 00' | -3 | 40 | -3 | 40 | (*0.19+1.4) | | 0.9 | 1.1 | 2.3 |
| | AUSTRALIA, South Coast | | | | | | | | | | | |
| | | | | on Port Phillip, p.292 | | | | | | | | |
| 3281 | Rabbit Island | 38° 55' | 146° 31' | +0 | 01 | +0 | 47 | *1.47 | *1.00 | 5.2 | 6.0 | 4.0 |
| 3283 | Winter Cove, Kent Islands | 39° 28' | 147° 21' | -0 | 34 | +0 | 12 | *1.67 | *1.07 | 6.0 | 7.0 | 4.5 |
| 3285 | Great Glennie Island | 39° 05' | 146° 14' | -0 | 24 | +0 | 22 | *1.67 | *1.07 | 6.0 | 6.8 | 4.5 |
| 3287 | Venus Bay | 38° 40' | 145° 44' | +0 | 00 | | | +2.3 | | | | |
| 3289 | Mussel Rock, Westport | 38° 27' | 145° 15' | +0 | 25 | -0 | 10 | *1.94 | *1.94 | 6.0 | 7.5 | 5.6 |
| 3291 | PORT PHILLIP (Point Lonsdale) | 38° 18' | 144° 37' | | | | | <i>Daily predictions</i> | | 3.1 | 3.9 | 2.9 |
| 3293 | Queenscliff, Port Phillip | 38° 19' | 144° 40' | +0 | 24 | +0 | 24 | *0.61 | *0.61 | 1.9 | 2.1 | 1.8 |
| 3295 | Melbourne (Williamstown) | 37° 52' | 144° 55' | +2 | 58 | +3 | 41 | (*0.55+0.2) | | 1.7 | 1.9 | 1.8 |
| 3297 | Geelong, Port Phillip | 38° 07' | 144° 25' | +3 | 22 | +3 | 22 | *0.60 | *0.60 | 1.8 | 2.0 | 1.8 |
| 3299 | Port Campbell | 38° 38' | 143° 00' | -1 | 18 | -0 | 53 | (*0.45+0.4) | | 1.4 | 2.0 | 1.7 |
| 3301 | Warrnambool | 38° 24' | 142° 29' | +0 | 20 | +0 | 20 | (*0.52+0.7) | | 1.6 | 2.4 | 2.2 |

Endnotes can be found at the end of table 2.

TABLE 2 – TIDAL DIFFERENCES AND OTHER CONSTANTS

| No. | PLACE | POSITION | | DIFFERENCES | | | | RANGES | | Mean Tide Level |
|------|---|----------|-----------|--------------------------|-----------|--------------------------|-----------|--------|--------|-----------------|
| | | Latitude | Longitude | Time | | Height | | Mean | Spring | |
| | | | | High Water | Low Water | High Water | Low Water | | | |
| | BURMA <32> Time meridian, 97° 30' E | North | East | h m | h m | ft | ft | ft | ft | ft |
| | | | | on Mergui, p.308 | | | | | | |
| 3407 | Pulo Besin | 9° 59' | 98° 29' | -0 32 | -0 43 | (*0.67+1.1) | | 8.3 | 11.5 | 7.2 |
| 3409 | Hastings harbor | 10° 07' | 98° 17' | -0 35 | -0 42 | *0.60 *0.52 | | 7.7 | 10.8 | 5.4 |
| 3411 | Lanbi Island | 10° 46' | 98° 18' | -0 24 | -0 36 | *0.73 *0.76 | | 9.0 | 12.5 | 6.7 |
| 3413 | Owen Island | 11° 12' | 98° 15' | -0 24 | -0 36 | (*0.69+0.9) | | 8.5 | 11.9 | 7.2 |
| 3415 | Pigeon Island | 11° 47' | 98° 13' | -0 32 | -0 44 | *0.69 *0.69 | | 8.6 | 12.0 | 6.3 |
| 3417 | MERGUI | 12° 26' | 98° 36' | | | <i>Daily predictions</i> | | 12.4 | 17.5 | 9.1 |
| 3419 | Padaw Sound | 12° 37' | 98° 25' | -0 17 | -0 17 | -0.2 +1.5 | | 10.7 | 15.1 | 9.8 |
| 3421 | Myinkwa Aw, Tavoy R. entrance | 13° 33' | 98° 08' | -0 11 | -0 16 | (*0.78+1.1) | | 9.7 | 13.6 | 8.2 |
| 3423 | Heinze Bok (Long Island) | 14° 24' | 97° 47' | +0 31 | +0 31 | (*0.72+1.0) | | 8.9 | 12.6 | 7.6 |
| 3425 | Wa Kyun | 15° 12' | 97° 44' | +1 44 | +1 46 | (*0.78+4.4) | | 9.7 | 14.0 | 11.5 |
| 3427 | Double Island | 15° 52' | 97° 35' | +3 17 | +3 43 | 0.0 +0.5 | | 11.9 | 17.2 | 9.4 |
| 3429 | Kyaikkami, Moulmein River | 16° 05' | 97° 34' | +4 02 | +4 15 | +2.0 0.0 | | 14.4 | 20.0 | 10.1 |
| | | | | on Rangoon, p.312 | | | | | | |
| 3431 | Moulmein, Moulmein River <33> | 16° 29' | 97° 37' | -0 53 | -0 03 | -6.0 <34> | | 9.5 | 12.2 | 6.2 |
| | | | | on Mergui, p.308 | | | | | | |
| 3433 | Elephant Point, Rangoon River | 16° 28' | 96° 19' | +5 26 | +5 52 | +3.7 +2.1 | | 14.0 | 18.9 | 12.0 |
| | | | | on Rangoon, p.312 | | | | | | |
| 3435 | RANGOON, Rangoon River | 16° 46' | 96° 10' | | | <i>Daily predictions</i> | | 13.4 | 17.0 | 10.3 |
| | | | | on Mergui, p.308 | | | | | | |
| 3437 | China Bakir (Old Lighthouse) | 16° 17' | 96° 12' | +5 04 | +5 05 | (*0.82+1.1) | | 10.2 | 14.2 | 8.6 |
| 3439 | Pymbong Beacon | 15° 47' | 95° 31' | +0 42 | +0 33 | (*0.35+1.2) | | 4.3 | 6.2 | 4.4 |
| | | | | on Sagar, p.316 | | | | | | |
| 3441 | Diamond Island, Bassein River | 15° 52' | 94° 17' | +0 14 | +0 00 | *0.48 *0.46 | | 4.8 | 6.5 | 4.7 |
| 3443 | Bassein, Bassein River <35> | 16° 47' | 94° 47' | +4 34 | +4 53 | *0.52 *0.54 | | 4.9 | 5.7 | 5.2 |
| 3445 | Chaungtha River entrance | 16° 57' | 94° 26' | -0 23 | -0 36 | *0.42 *0.32 | | 4.6 | 6.4 | 3.9 |
| 3447 | Andrew Bay | 18° 21' | 94° 21' | -0 26 | -0 42 | *0.47 *0.34 | | 5.2 | 7.2 | 4.3 |
| 3449 | Searle Point, Cheduba Island | 18° 55' | 93° 37' | -0 03 | -0 15 | +0.56 *0.48 | | 5.8 | 8.0 | 5.3 |
| 3451 | Kyaukpyu, Ramree Island | 19° 26' | 93° 33' | -0 06 | -0 33 | *0.58 *0.40 | | 6.5 | 9.0 | 5.3 |
| 3453 | Sittwe | 20° 08' | 92° 54' | +0 13 | -0 05 | *0.48 *0.28 | | 5.6 | 7.6 | 4.2 |
| 3455 | St. Martins Island | 20° 37' | 92° 19' | -0 12 | -0 31 | *0.62 *0.56 | | 6.3 | 8.8 | 6.0 |
| | BANGLADESH <36> Time meridian, 90° E | | | | | | | | | |
| 3457 | Cox's Bazar | 21° 27' | 91° 59' | +0 47 | +0 26 | *0.67 *0.52 | | 7.2 | 8.9 | 6.2 |
| 3459 | Pusur River | 21° 43' | 89° 33' | +0 19 | +0 12 | *0.61 *0.64 | | 5.7 | 7.5 | 6.1 |
| 3461 | Kutubdia Island | 21° 52' | 91° 50' | +1 45 | +1 44 | *0.76 *0.44 | | 8.9 | 11.0 | 6.7 |
| 3463 | Chittagong | 22° 20' | 91° 50' | +3 37 | +4 06 | *0.80 *0.42 | | 9.6 | 11.9 | 6.9 |
| | INDIA <36> Bay of Bengal Time meridian, 82° 30' E | | | | | | | | | |
| 3465 | Matla River Approach | 20° 58' | 88° 35' | -0 22 | -0 42 | *0.63 *0.54 | | 6.5 | 8.8 | 6.0 |
| 3467 | SAGAR, Hooghly River | 21° 39' | 88° 03' | | | <i>Daily predictions</i> | | 9.7 | 14.1 | 9.9 |
| 3469 | Diamond Harbor, Hooghly River | 22° 11' | 88° 11' | +1 35 | +2 34 | *1.11 *0.88 | | 12.0 | 16.0 | 10.4 |
| 3471 | Calcutta (Garden Reach) Hooghly River | 22° 33' | 88° 18' | +3 56 | +5 38 | *1.06 *1.00 | | 10.6 | 13.7 | 10.3 |
| 3473 | Shortt Island | 20° 47' | 87° 04' | -0 31 | -0 36 | *0.63 *0.52 | | 6.6 | 9.0 | 5.9 |
| 3475 | Chandbali | 20° 46' | 86° 44' | +1 22 | +1 58 | *0.54 +0.52 | | 5.3 | 6.4 | 5.3 |
| | | | | on Madras, p.320 | | | | | | |
| 3477 | False Point | 20° 25' | 86° 47' | +0 35 | +0 31 | (*2.04+0.8) | | 4.9 | 6.8 | 5.1 |
| 3479 | Gopalpur | 19° 16' | 84° 55' | +0 05 | +0 05 | *1.52 *1.52 | | 3.7 | 5.2 | 3.2 |
| 3481 | Vizagapatam | 17° 41' | 83° 17' | +0 06 | +0 05 | +0.9 0.0 | | 3.3 | 4.6 | 2.6 |
| 3483 | Cocanada | 16° 56' | 82° 15' | +0 17 | +0 27 | +1.1 +0.2 | | 3.3 | 4.4 | 2.8 |
| 3485 | Sacramento Shoal | 16° 36' | 82° 19' | +0 03 | +0 18 | +0.7 +0.1 | | 3.0 | 4.0 | 2.5 |
| 3487 | MADRAS | 13° 06' | 80° 18' | | | <i>Daily predictions</i> | | 2.4 | 3.2 | 2.1 |
| 3489 | Cuddalore | 11° 43' | 79° 47' | -0 01 | +0 05 | -0.3 +0.2 | | 1.9 | 2.5 | 2.1 |
| 3491 | Negapatam | 10° 45' | 79° 51' | +0 19 | +0 36 | *0.55 +0.33 | | 1.5 | 2.0 | 1.1 |
| | | | | on Colombo, p.324 | | | | | | |
| 3493 | Pamban Channel, Gulf of Mannar | 9° 16' | 79° 12' | -0 07 | -0 09 | +0.1 +0.1 | | 1.4 | 1.9 | 1.3 |
| 3495 | Tuticorin, Gulf of Mannar | 8° 48' | 78° 10' | -0 15 | -0 15 | +0.8 +0.6 | | 1.6 | 2.3 | 1.9 |
| | <i>Sri Lanka</i> | | | | | | | | | |
| 3497 | Point Pedro | 9° 50' | 80° 14' | -5 46 | -5 42 | 0.0 -0.1 | | 1.5 | 2.0 | 1.2 |
| 3499 | Trincomalee | 8° 33' | 81° 13' | -5 54 | -5 50 | 0.0 0.0 | | 1.2 | 1.7 | 1.3 |
| 3501 | Galle | 6° 02' | 80° 13' | +0 14 | +0 19 | *0.89 *0.89 | | 1.2 | 1.8 | 1.1 |
| 3503 | COLOMBO | 6° 57' | 79° 51' | | | <i>Daily predictions</i> | | 1.4 | 2.0 | 1.2 |
| 3505 | Jaffna | 9° 39' | 80° 01' | +0 57 | +1 13 | (*0.71+0.4) | | 1.0 | 1.4 | 1.3 |

Endnotes can be found at the end of table 2.

TABLE 2 – TIDAL DIFFERENCES AND OTHER CONSTANTS

| No. | PLACE | POSITION | | DIFFERENCES | | | | RANGES | | Mean Tide Level |
|------|--|----------|-----------|--------------------------|-----------|-------------|-----------|--------|--------|-----------------|
| | | Latitude | Longitude | Time | | Height | | Mean | Spring | |
| | | | | High Water | Low Water | High Water | Low Water | | | |
| | INDIA Arabian Sea Time meridian, 82° 30' E | North | East | h m | h m | ft | ft | ft | ft | ft |
| | | | | on Colombo, p.324 | | | | | | |
| 3507 | Quilon | 8° 53' | 76° 34' | -1 43 | -1 52 | +1.1 | +0.8 | 1.7 | 2.3 | 2.2 |
| 3509 | Cochin | 9° 58' | 76° 15' | -2 22 | -2 24 | +0.8 | +0.6 | 1.6 | 2.0 | 1.9 |
| 3511 | Bey pore | 11° 10' | 75° 48' | -2 34 | -2 32 | +2.0 | +1.3 | 2.1 | 2.7 | 2.9 |
| | | | | on Karachi, p.332 | | | | | | |
| 3513 | Calicut | 11° 15' | 75° 46' | +0 43 | +0 20 | (*0.40+1.3) | | 2.3 | 2.9 | 3.5 |
| 3515 | Tellicherry | 11° 45' | 75° 29' | +0 29 | +0 28 | (*0.48+0.8) | | 2.8 | 3.1 | 3.4 |
| 3517 | Cannanore | 11° 51' | 75° 22' | +0 31 | +0 22 | (*0.47+0.7) | | 2.7 | 3.2 | 3.2 |
| 3519 | Mangalore | 12° 51' | 74° 50' | +0 43 | +0 38 | (*0.48+0.5) | | 2.8 | 3.5 | 3.1 |
| 3521 | Malpe | 13° 21' | 74° 41' | +0 09 | +0 01 | (*0.55+0.4) | | 3.2 | 4.0 | 3.4 |
| 3523 | Bhatkal | 13° 58' | 74° 32' | +0 36 | +0 38 | *0.43 | *0.40 | 2.6 | 3.5 | 2.3 |
| 3525 | Karwar Bay | 14° 48' | 74° 06' | +0 22 | +0 10 | *0.67 | *0.67 | 3.8 | 4.9 | 3.7 |
| 3527 | Mormugao | 15° 25' | 73° 48' | +0 18 | +0 08 | *0.66 | *0.60 | 4.0 | 5.2 | 3.5 |
| | | | | on Bombay, p.328 | | | | | | |
| 3529 | Rajapur River entrance | 16° 37' | 73° 20' | -1 00 | -1 00 | *0.56 | *0.72 | 4.2 | 5.7 | 5.0 |
| 3531 | BOMBAY (Apollo Bandar) | 18° 55' | 72° 50' | <i>Daily predictions</i> | | | | 8.7 | 11.8 | 8.4 |
| 3533 | Bassein | 19° 18' | 72° 48' | +0 30 | +1 04 | -0.9 | -0.8 | 8.6 | 11.1 | 7.5 |
| 3535 | Dahanu | 19° 58' | 72° 43' | +1 40 | +1 40 | +1.1 | +0.7 | 9.1 | 12.4 | 9.3 |
| 3537 | Bhavnagar, Gulf of Cambay | 21° 45' | 72° 14' | +5 03 | +5 41 | *2.40 | *1.90 | 22.9 | 29.0 | 19.1 |
| 3539 | Port Albert Victor, Gulf of Cambay | 20° 57' | 71° 32' | +3 06 | +2 49 | *0.71 | *0.62 | 6.5 | 8.7 | 5.8 |
| 3541 | Navabandar | 20° 45' | 71° 05' | +1 20 | +1 10 | (*0.44+2.2) | | 3.8 | 5.4 | 5.9 |
| | | | | on Karachi, p.332 | | | | | | |
| 3543 | Porbandar | 21° 38' | 69° 37' | +0 14 | +0 17 | (*0.79+1.6) | | 4.6 | 6.0 | 5.9 |
| | | | | on Bombay, p.328 | | | | | | |
| | <i>Gulf of Kutch</i> | | | | | | | | | |
| 3545 | Okha Point | 22° 28' | 69° 05' | +0 54 | +0 46 | *0.84 | *0.68 | 8.0 | 9.8 | 6.7 |
| 3547 | Navinar Point | 22° 45' | 69° 43' | +1 57 | +2 06 | +4.9 | +0.6 | 13.0 | 15.5 | 11.1 |
| 3549 | Kandla | 23° 02' | 70° 14' | +2 39 | +3 08 | +7.8 | -0.2 | 16.7 | 19.4 | 12.2 |
| 3551 | Khori Creek | 22° 58' | 70° 14' | +2 28 | +2 58 | +7.4 | +0.1 | 16.0 | 18.2 | 12.1 |
| 3553 | Hansthal Point | 22° 56' | 70° 21' | +2 33 | +3 20 | +5.6 | -0.2 | 14.5 | 16.8 | 11.1 |
| 3555 | Navlakhi | 22° 58' | 70° 27' | +3 02 | +3 33 | +9.2 | +0.4 | 17.5 | 20.2 | 13.2 |
| 3557 | Navi Wat | 23° 05' | 70° 20' | +3 09 | +3 55 | +7.2 | +0.1 | 15.8 | 17.6 | 12.0 |
| | | | | on Karachi, p.332 | | | | | | |
| 3559 | Kori Creek entrance | 23° 31' | 68° 21' | +0 25 | +0 25 | +0.4 | 0.0 | 6.2 | 8.1 | 5.6 |
| | Arabian Sea Islands Time meridian, 75° E | | | on Madras, p.320 | | | | | | |
| 3561 | Suvadiva Atoll, Maldive Islands | 0° 50' | 73° 09' | +5 10 | +5 10 | 0.0 | +0.2 | 2.2 | 2.9 | 2.2 |
| | | | | on Colombo, p.324 | | | | | | |
| 3563 | Horsburgh Atoll, Maldive Islands | 4° 54' | 72° 57' | -1 50 | -1 35 | (*0.86+1.1) | | 1.2 | 1.7 | 2.1 |
| 3565 | Ihavandu, Maldive Islands | 6° 57' | 72° 55' | -2 32 | -2 24 | +1.1 | +0.9 | 1.6 | 2.3 | 2.2 |
| 3567 | Minicoy Island | 8° 16' | 73° 01' | -2 50 | -2 41 | +2.3 | +1.7 | 2.0 | 2.5 | 3.2 |
| | Time meridian, 82° 30' E | | | on Karachi, p.332 | | | | | | |
| 3569 | Kardamum Island, Laccadive Islands | 11° 13' | 72° 46' | +1 15 | +1 15 | (*0.38+1.3) | | 1.8 | 2.9 | 3.4 |
| 3571 | Cherbaniani Reef, Laccadive Islands | 12° 21' | 71° 53' | +0 25 | +0 25 | (*0.45+1.6) | | 2.2 | 3.4 | 4.0 |
| | PAKISTAN Time meridian, 75° E | | | | | | | | | |
| | <i>Indus River Delta</i> | | | | | | | | | |
| 3573 | Hajamro River mouth | 24° 06' | 67° 19' | +0 00 | +0 00 | +1.0 | +0.2 | 6.6 | 8.6 | 6.0 |
| 3575 | Jhari Creek | 24° 44' | 67° 19' | 0 30 | 1 02 | +1.6 | +0.7 | -- | -- | -- |
| 3577 | Port Muhammad Bin Qasim | 24° 47' | 67° 21' | 0 23 | 0 23 | +2.3 | +1.0 | -- | -- | -- |
| 3579 | Hasan Point | 24° 47' | 67° 14' | 0 13 | 0 15 | +1.6 | +0.7 | -- | -- | -- |
| 3581 | Bundal Island | 24° 42' | 67° 08' | +0 00 | +0 00 | +1.0 | +0.3 | -- | -- | -- |
| 3583 | Ghizri Creek | 24° 46' | 67° 06' | -0 02 | 0 01 | +0.7 | +0.3 | -- | -- | -- |
| 3585 | KARACHI | 24° 48' | 66° 58' | <i>Daily predictions</i> | | | | 5.8 | 7.6 | 5.4 |
| 3587 | Sonmiani Harbor | 25° 23' | 66° 33' | -0 50 | -0 50 | 0.0 | -0.2 | 6.0 | 7.8 | 5.3 |
| 3589 | Ormara | 25° 11' | 64° 41' | -0 08 | -0 10 | *0.86 | *0.72 | 5.3 | 7.0 | 4.5 |
| 3591 | Pasni | 25° 12' | 63° 30' | +0 09 | +0 08 | +0.2 | +0.9 | 5.1 | 6.6 | 6.0 |
| 3593 | Gwatar Bay | 25° 09' | 61° 33' | +0 35 | +0 35 | (*0.90+0.2) | | 5.2 | 6.8 | 5.1 |
| | IRAN Time meridian, 52° 30' E | | | | | | | | | |
| 3595 | Chah Bahar | 25° 17' | 60° 37' | -1 47 | -1 43 | +0.7 | +0.7 | -- | -- | -- |
| 3597 | Ras Tang | 25° 21' | 59° 54' | -1 38 | -1 43 | +0.7 | +1.6 | -- | -- | -- |
| 3599 | Koksar | 25° 32' | 58° 50' | -1 42 | -1 38 | -0.3 | +0.7 | -- | -- | -- |
| 3601 | Khalij-e Jask | 25° 38' | 57° 46' | -1 42 | -1 40 | -1.0 | -0.3 | -- | -- | -- |
| 3603 | Jask Bay, Gulf of Oman | 25° 39' | 57° 45' | -1 20 | -1 20 | (*0.93+0.3) | | 5.4 | 7.0 | 5.3 |

Endnotes can be found at the end of table 2.

TABLE 2 – TIDAL DIFFERENCES AND OTHER CONSTANTS

| No. | PLACE | POSITION | | DIFFERENCES | | | | RANGES | | Mean Tide Level |
|------|--|--------------|-------------|---------------------------------|-----------|-------------|-----------|-----------------------|--------|-----------------|
| | | Latitude | Longitude | Time | | Height | | Mean | Spring | |
| | | | | High Water | Low Water | High Water | Low Water | | | |
| | IRAN-cont. Time meridian, 52° 30' E | North | East | h m | h m | ft | ft | ft | ft | ft |
| | | | | on Colombo, p.324 | | | | | | |
| 3605 | Ras al Kuh | 25° 47' | 57° 19' | -1 34 | -1 31 | -0.7 | -0.3 | -- | -- | -- |
| 3607 | Gonari Creek | 26° 18' | 57° 06' | -0 36 | -0 28 | +1.0 | +0.3 | -- | -- | -- |
| 3609 | Bandar-e Sirik | 26° 31' | 57° 05' | -0 46 | -0 37 | +1.3 | +0.3 | -- | -- | -- |
| 3611 | Hengam, Persian Gulf | 26° 41' | 55° 54' | -0 02 | +0 06 | -1.0 | -0.4 | 5.2 | 6.7 | 4.7 |
| 3613 | Bandar Abbas, Persian Gulf | 27° 11' | 56° 17' | -0 40 | -0 40 | +1.5 | +0.6 | 6.7 | 9.4 | 6.5 |
| | | | | on Hong Kong, p.120 | | | | Mean Diurnal | | |
| 3615 | Jazirat Farur, Persian Gulf | 26° 15' | 54° 31' | -9 30 | -9 12 | -0.3 | -0.4 | 3.4 | 5.1 | 4.1 |
| 3617 | Bushahr, Persian Gulf | 28° 59' | 50° 51' | -0 44 | -0 37 | *0.64 | *0.43 | 2.7 | 4.5 | 2.6 |
| 3619 | Jazirat Kharg, Persian Gulf | 29° 16' | 50° 20' | -0 39 | -0 41 | *0.87 | *0.96 | 2.6 | 4.4 | 4.0 |
| | IRAQ, Persian Gulf Time meridian, 45° E | | | on Shatt Al Arab, p.336 | | | | | | |
| 3621 | SHATT AL ARAB (outer bar) | 29° 50' | 48° 43' | <i>Daily predictions</i> | | | | 6.1 | 8.5 | 5.7 |
| 3623 | Basra Reach <37> | 30° 31' | 47° 51' | +5 38 | +6 41 | (*0.54+2.0) | | 3.3 | 3.9 | 5.1 |
| 3625 | Abadan | 30° 20' | 48° 16' | +2 50 | +3 45 | -3.3 | +0.7 | -- | -- | -- |
| 3627 | Al Faw | 29° 58' | 48° 29' | +1 00 | +1 00 | 0.0 | +1.0 | -- | -- | -- |
| | KUWAIT, Persian Gulf | | | | | | | | | |
| 3629 | Um Qasr | 30° 01' | 47° 57' | +1 52 | +2 01 | +5.5 | +1.5 | 10.1 | 12.8 | 9.3 |
| 3631 | Um Al-Aseed (Beacon No. 12) | 29° 56' | 48° 02' | +1 20 | +1 10 | +4.6 | +1.3 | -- | -- | -- |
| 3633 | Warba Spit | 29° 59' | 48° 09' | +1 20 | +1 13 | +3.7 | +0.7 | 9.1 | 12.2 | 8.0 |
| 3635 | Ras al Barshah (Beacon No. 2) | 29° 33' | 48° 14' | +0 41 | +0 43 | +1.3 | +1.3 | -- | -- | -- |
| 3637 | Mina ad Dawhah | 29° 23' | 47° 48' | +1 09 | +1 03 | +1.6 | +1.0 | -- | -- | -- |
| 3639 | Ash Shuwaykh | 29° 21' | 47° 55' | +1 11 | +1 07 | +1.6 | +1.6 | -- | -- | -- |
| 3641 | Kuwait | 29° 21' | 47° 56' | +1 12 | +1 08 | +1.4 | +0.9 | 6.6 | 8.9 | 6.9 |
| 3643 | Fahayhil | 29° 04' | 48° 10' | +1 12 | +0 46 | (*0.78+0.6) | | 4.5 | 6.6 | 5.0 |
| | | | | on Mina Al Ahmadi, p.340 | | | | | | |
| 3645 | Jazirat Auhah | 29° 22' | 48° 26' | -0 12 | -0 14 | +0.3 | +0.7 | -- | -- | -- |
| 3647 | MINA AL AHMADI | 29° 04' | 48° 10' | <i>Daily Predictions</i> | | | | -- | -- | -- |
| 3649 | Ras al Qulaf'ah | 28° 52' | 48° 17' | +0 00 | +0 16 | -1.6 | -0.3 | -- | -- | -- |
| 3651 | Jazirat Kubbar | 29° 04' | 48° 30' | -0 12 | -0 19 | -1.3 | +0.3 | -- | -- | -- |
| 3653 | Jazirat Qaruh | 28° 49' | 48° 47' | -0 37 | -0 13 | -2.3 | 0.0 | -- | -- | -- |
| 3655 | Jazirat Umm al Maradim | 28° 41' | 48° 39' | -0 15 | +0 08 | -3.0 | 0.0 | -- | -- | -- |
| 3657 | Ras al Khafji | 28° 25' | 48° 31' | -0 04 | +0 19 | -3.3 | -0.3 | -- | -- | -- |
| | SAUDI ARABIA, Persian Gulf | | | | | | | | | |
| 3659 | Ras Al Mishab † | 28° 07' | 48° 37' | +8 40 | +7 58 | +1.2 | +0.3 | 4.0 | 4.7 | 3.5 |
| 3661 | Safaniya † | 28° 00' | 48° 46' | +8 39 | +8 29 | +1.0 | +0.2 | 3.9 | 4.8 | 3.5 |
| | | | | on Yamato Wan, p.12 | | | | Diurnal Tropic | | |
| 3663 | Munifah <38> † | 27° 35' | 48° 54' | +10 27 | +10 51 | (*0.46-0.8) | | 3.6 | 4.3 | 2.7 |
| | | | | on Mina Salman, p.348 | | | | Mean Spring | | |
| 3665 | Fasht Gharibah | 26° 59' | 50° 13' | -0 30 | -0 42 | -2.6 | -1.3 | -- | -- | -- |
| 3667 | Abu Sa'fah | 26° 57' | 50° 30' | -0 35 | -0 40 | -2.0 | -0.7 | -- | -- | -- |
| 3669 | RAS AT TANNURAH | 26° 38' | 50° 10' | <i>Daily predictions, p.344</i> | | | | 4.2 | 5.3 | 4.2 |
| 3671 | Dawhat at Tarut | 26° 39' | 50° 02' | -0 31 | -0 07 | -1.6 | -1.0 | -- | -- | -- |
| 3673 | Ad Dammam (K.A.A.P.) | 26° 30' | 50° 12' | -0 25 | -0 28 | -0.3 | 0.0 | -- | -- | -- |
| 3675 | Al Kubar | 26° 17' | 50° 13' | -0 10 | -0 20 | -3.9 | -0.7 | -- | -- | -- |
| | BAHRAIN, Persian Gulf | | | | | | | | | |
| 3677 | Malik Fahd Causway | 26° 11' | 50° 20' | +0 25 | +0 20 | -4.3 | -1.0 | -- | -- | -- |
| 3679 | Khawr Fasht | 26° 20' | 50° 26' | -0 02 | +0 11 | -1.3 | -0.3 | -- | -- | -- |
| 3681 | Al Manamah Harbor | 26° 14' | 50° 35' | -0 18 | -0 25 | -0.3 | +0.2 | 4.4 | 5.8 | 4.1 |
| 3683 | MINA SALMAN, Bahrain Island | 26° 13' | 50° 36' | <i>Daily predictions</i> | | | | 4.9 | 6.4 | 4.2 |
| 3685 | Sitra | 26° 10' | 50° 40' | +0 05 | +0 05 | -0.3 | 0.0 | -- | -- | -- |
| 3687 | Bahrain Approach Bouy | 26° 22' | 50° 47' | -0 17 | -0 13 | -1.0 | -0.7 | -- | -- | -- |
| 3689 | Ras Ashairiq | 25° 59' | 51° 00' | +0 15 | +0 02 | *0.62 | *0.76 | 2.8 | 3.5 | 2.7 |
| 3691 | Jabal Fuwaira | 26° 03' | 51° 22' | -0 49 | -1 10 | (*0.61+0.3) | | 3.0 | 3.8 | 2.9 |
| | QATAR, Persian Gulf | | | | | | | | | |
| 3693 | Ra's 'Ushayriq | 25° 59' | 51° 00' | +0 22 | +0 22 | -3.6 | -1.0 | -- | -- | -- |
| 3695 | Ar Ru'ays | 26° 10' | 51° 11' | -0 11 | -0 06 | -2.3 | -1.0 | -- | -- | -- |
| | | | | on Musay'id, p.352 | | | | Mean Diurnal | | |
| 3697 | Al Wakrah Musay'id | 25° 10' | 51° 37' | -0 03 | +0 15 | -1.3 | -0.7 | -- | -- | -- |
| 3699 | Harbour | 24° 54' | 51° 39' | +0 50 | +0 40 | 0.0 | 0.0 | -- | -- | -- |
| 3701 | OUTER CHANNEL ENTRANCE | 25° 02' | 51° 39' | <i>Daily predictions</i> | | | | -- | -- | -- |
| 3703 | Khawr al Udayd | 24° 42' | 51° 27' | +1 00 | +0 50 | +0.3 | 0.0 | -- | -- | -- |
| 3705 | Ras Abu Qumayyis | 24° 34' | 51° 30' | +1 03 | +1 00 | +0.7 | +0.3 | -- | -- | -- |
| 3707 | Jazirat Halul | 25° 40' | 52° 25' | -1 16 | -1 17 | -2.0 | -0.7 | -- | -- | -- |

Endnotes can be found at the end of table 2.

TABLE 2 – TIDAL DIFFERENCES AND OTHER CONSTANTS

| No. | PLACE | POSITION | | DIFFERENCES | | | | RANGES | | Mean Tide Level |
|------|--|--------------|-------------|----------------------------------|-----------|-------------|-----------|---------------------|---------|-----------------|
| | | Latitude | Longitude | Time | | Height | | Mean | Diurnal | |
| | | | | High Water | Low Water | High Water | Low Water | | | |
| | UNITED ARAB EMIRATES, Persian Gulf Time meridian, 60° E | North | East | h m | h m | ft | ft | ft | ft | ft |
| | | | | on Musay'id, p.352 | | | | | | |
| 3709 | Jazair Ghaghah | 24° 24' | 51° 33' | +2 18 | +2 17 | +0.7 | 0.0 | -- | -- | -- |
| | | | | on Surabaya Strait, p.160 | | | | | | |
| 3711 | Jazirat Yas § | 24° 17' | 52° 37' | -10 51 | -10 53 | *0.86 | *0.86 | 3.2 | 4.5 | 3.1 |
| 3713 | Jazirat Das § | 25° 09' | 52° 53' | -11 08 | -11 04 | (*0.68+0.7) | | 2.5 | 3.5 | 3.1 |
| | | | | on Mina Jebel Ali, p.356 | | | | | | |
| 3715 | Ras Zubayyah | 24° 20' | 54° 10' | +1 24 | +1 34 | +1.0 | +1.0 | -- | -- | -- |
| | | | | on Mina Al Ahmadi, p.340 | | | | | | |
| 3717 | Sir Abu Nu'ayr | 25° 13' | 54° 13' | -10 30 | -10 40 | -3.3 | 0.0 | -- | -- | -- |
| 3719 | Umm an Nar | 24° 26' | 54° 30' | -8 11 | -8 12 | -4.3 | 0.0 | -- | -- | -- |
| 3721 | Mina Zayed Approaches | 24° 38' | 54° 17' | -10 32 | -10 34 | -2.0 | 0.0 | -- | -- | -- |
| 3723 | Mina Zayed | 24° 31' | 54° 09' | -10 12 | -10 09 | -2.0 | 0.0 | -- | -- | -- |
| 3725 | Umm ad Dalkh | 24° 35' | 54° 09' | -10 28 | -10 33 | -2.3 | +0.3 | -- | -- | -- |
| | | | | on Mina Jebel Ali, p.356 | | | | | | |
| 3727 | Khawr Ghurabi | 24° 49' | 54° 43' | +0 16 | +0 18 | -0.7 | 0.0 | -- | -- | -- |
| 3729 | Khawr Ghanadah | 24° 50' | 54° 46' | +0 36 | +0 35 | -0.3 | -0.3 | -- | -- | -- |
| 3731 | MINA JEBEL ALI | 25° 00' | 55° 03' | <i>Daily predictions</i> | | | | -- | -- | -- |
| 3733 | Mina Rashid | 25° 15' | 55° 16' | -0 11 | -0 15 | 0.0 | 0.0 | -- | -- | -- |
| 3735 | Dubayy (Al Maktoum Bridge) | 25° 15' | 55° 19' | +0 16 | +0 07 | +0.3 | 0.0 | -- | -- | -- |
| 3737 | Ash Sharaqah | 25° 22' | 55° 23' | -0 16 | -0 22 | +0.7 | +0.3 | -- | -- | -- |
| 3739 | Ajman | 25° 25' | 55° 26' | +0 10 | +0 00 | +0.3 | +0.7 | -- | -- | -- |
| 3741 | Umm al Qaywayn | 25° 35' | 55° 35' | -0 23 | -0 34 | +0.3 | +0.3 | -- | -- | -- |
| | | | | on Karachi, p.332 | | | | Mean Spring | | |
| 3743 | Ras al Khaymah | 25° 49' | 55° 57' | +0 35 | +0 45 | -1.3 | +1.0 | -- | -- | -- |
| 3745 | Mina Saqr | 25° 58' | 56° 03' | +0 35 | +0 45 | -1.0 | +0.7 | -- | -- | -- |
| | OMAN | | | | | | | | | |
| | <i>Strait of Hormoz</i> | | | | | | | | | |
| 3747 | Bukha | 26° 09' | 56° 09' | +0 25 | +0 34 | -0.7 | +0.7 | -- | -- | -- |
| 3749 | Ghubbat Dabshun | 26° 12' | 56° 24' | +0 15 | +0 22 | -0.7 | +0.7 | -- | -- | -- |
| 3751 | Khasab | 26° 12' | 56° 15' | +0 10 | +0 15 | -0.3 | +1.0 | -- | -- | -- |
| 3753 | Khawr al Quway | 26° 22' | 56° 22' | +0 05 | +0 10 | -0.7 | +0.7 | -- | -- | -- |
| 3755 | Khor Kuwait | 26° 21' | 56° 22' | +0 09 | -0 03 | (*0.84+1.1) | | 4.9 | 6.4 | 5.6 |
| 3757 | Little Quoin I. | 26° 29' | 56° 32' | -0 04 | -0 21 | (*0.95-0.6) | | 5.5 | 7.0 | 4.5 |
| 3759 | Masqat, Gulf of Oman | 23° 37' | 58° 36' | -1 07 | -1 03 | (*0.79+0.5) | | 4.6 | 6.1 | 4.8 |
| 3761 | Ras Dillah | 26° 08' | 56° 29' | -0 30 | -0 30 | +0.7 | +1.3 | -- | -- | -- |
| 3763 | Khawr Niad (Khawr Habalayn) | 26° 08' | 56° 24' | -0 35 | -0 35 | -0.3 | +0.7 | -- | -- | -- |
| 3765 | Mina Daba | 25° 39' | 56° 16' | -0 50 | -0 50 | +0.3 | +1.0 | -- | -- | -- |
| 3767 | Ras al Hadd | 22° 31' | 59° 48' | -0 54 | -0 54 | (*0.72+1.5) | | 4.2 | 5.8 | 5.4 |
| 3769 | Rounders Bay, Masira Island | 20° 13' | 58° 38' | -1 04 | -1 05 | (*0.69+0.7) | | 4.0 | 5.2 | 4.4 |
| | | | | on Aden, p.360 | | | | Mean Diurnal | | |
| 3771 | Marbat | 16° 59' | 54° 42' | +1 16 | +1 16 | (*0.92+0.1) | | 3.3 | 4.9 | 4.2 |
| | YEMEN Time meridian, 45° E | | | | | | | | | |
| 3773 | Mukalla | 14° 31' | 49° 08' | -0 10 | +0 00 | (*0.75+0.7) | | 2.4 | 4.0 | 4.1 |
| 3775 | ADEN | 12° 47' | 44° 59' | <i>Daily predictions</i> | | | | 3.6 | 5.3 | 4.5 |
| | SAUDI ARABIA, Red Sea | | | | | | | | | |
| 3777 | Perim, Bab el Mandeb Strait | 12° 39' | 43° 24' | +0 03 | +0 10 | (*0.78+1.0) | | 2.8 | 4.4 | 4.5 |
| 3779 | Al Mukha | 13° 19' | 43° 14' | +4 53 | +4 53 | (*0.39+0.2) | | 1.4 | 2.2 | 2.0 |
| | | | | on Suez, p.364 | | | | Mean Spring | | |
| 3781 | Kamaran Passage | 15° 17' | 42° 38' | +1 48 | +1 53 | -1.1 | +0.4 | 2.3 | 2.8 | 3.4 |
| | | | | on Aden, p.360 | | | | | | |
| 3783 | Juddah | 21° 28' | 39° 11' | +11 25 | +11 25 | -- | -- | 0.5 | -- | -- |
| | Time meridian, local | | | on Suez, p.364 | | | | | | |
| 3785 | Sherm Rabegh | 22° 45' | 38° 58' | -5 00 | -5 00 | (*0.34+1.5) | | 1.3 | 1.6 | 2.8 |
| 3787 | Aqaba, Gulf of Aqaba | 29° 31' | 35° 00' | -5 12 | -5 07 | (*0.53+0.5) | | 2.0 | 2.6 | 2.5 |

Endnotes can be found at the end of table 2.

TABLE 2 – TIDAL DIFFERENCES AND OTHER CONSTANTS

| No. | PLACE | POSITION | | DIFFERENCES | | | | RANGES | | Mean Tide Level |
|------|---|--------------|-------------|-------------|-----------|-------------|-----------|---------------------|---------------|-----------------|
| | | Latitude | Longitude | Time | | Height | | Mean | Spring | |
| | | | | High Water | Low Water | High Water | Low Water | | | |
| | EGYPT to ERITREA <39> Time meridian, 30° E | North | East | h m | h m | ft | ft | ft | ft | ft |
| | <i>Gulf of Suez</i> | | | | | | | | | |
| 3789 | At Tur | 28° 14' | 33° 37' | -2 37 | -2 33 | -- | -- | 0.6 | 0.7 | -- |
| 3791 | SUEZ | 29° 56' | 32° 33' | | | | | 3.8 | 4.7 | 3.7 |
| 3793 | Zafarana | 29° 06' | 32° 40' | +0 00 | +0 04 | -1.2 | -0.2 | 2.8 | 3.5 | 3.0 |
| 3795 | Ras Gharib | 28° 21' | 33° 06' | -0 21 | +0 02 | *0.30 | *0.22 | 1.3 | 1.7 | 1.0 |
| 3797 | Ashrafi Island | 27° 47' | 33° 43' | -5 38 | -5 34 | *0.29 | *0.39 | 0.9 | 1.2 | 1.2 |
| 3799 | Shadwan Island | 27° 27' | 34° 02' | -5 37 | -5 33 | *0.45 | *0.45 | 1.7 | 2.0 | 1.7 |
| 3801 | Al Qusayr | 26° 06' | 34° 17' | -5 48 | -5 44 | *0.40 | *0.40 | 1.5 | 1.8 | 1.5 |
| 3803 | Muhammad Qol | 20° 54' | 37° 10' | -4 59 | -5 23 | -- | -- | 0.4 | 0.4 | 1.2 |
| 3805 | Port Sudan | 19° 36' | 37° 15' | -- | -- | -- | -- | 0.1 | -- | 0.5 |
| 3807 | Trinkitat | 18° 41' | 37° 45' | -- | -- | -- | -- | 0.1 | -- | 0.5 |
| | Time meridian, 45° E | | | | | | | | | |
| 3809 | Harmil Island | 16° 29' | 40° 11' | +2 00 | +2 42 | *0.25 | *0.28 | 0.9 | 1.1 | 1.0 |
| 3811 | Massaua | 15° 37' | 39° 28' | +2 38 | +2 43 | (*0.63-0.8) | | 2.4 | 3.1 | 1.5 |
| | | | | | | | | Mean Diurnal | | |
| 3813 | Assab | 13° 00' | 42° 44' | -- | -- | -- | -- | 0.8 | 1.6 | 1.0 |
| | REPUBLIC OF DJIBOUTI | | | | | | | | | |
| | <i>on Aden, p.360</i> | | | | | | | | | |
| 3815 | Djibouti, Gulf of Aden | 11° 35' | 43° 08' | +0 05 | +0 04 | +1.3 | +1.3 | 3.6 | 5.4 | 5.8 |
| | SOMALIA | | | | | | | | | |
| 3817 | Zeila, Gulf of Aden | 11° 24' | 43° 28' | +0 00 | +0 00 | +0.8 | +0.8 | 3.6 | 5.3 | 5.3 |
| 3819 | Berbera, Gulf of Aden | 10° 26' | 45° 01' | +0 03 | +0 02 | +0.6 | +0.6 | 3.6 | 5.6 | 5.1 |
| 3821 | Cape Guardafui (Ras Asir) | 11° 50' | 51° 16' | -1 40 | -1 40 | *0.90 | *0.85 | 3.4 | 5.0 | 4.0 |
| | <i>on Pohnpei Harbor, p.208</i> | | | | | | | Mean | Spring | |
| 3823 | Obbia | 5° 21' | 48° 32' | -11 23 | -11 25 | +1.0 | -0.3 | 3.6 | 5.3 | 2.6 |
| | <i>on Dar Es Salaam, p.368</i> | | | | | | | | | |
| 3825 | Warsheik | 2° 18' | 45° 48' | +0 03 | +0 06 | *0.57 | *0.58 | 4.3 | 5.8 | 2.9 |
| 3827 | Mogadishu | 2° 02' | 45° 21' | -0 11 | -0 07 | *0.63 | *0.75 | 4.6 | 6.3 | 3.2 |
| 3829 | Brava | 1° 06' | 44° 02' | -0 12 | -0 10 | *0.71 | *0.83 | 5.2 | 7.1 | 3.6 |
| | South East | | | | | | | | | |
| 3831 | Giuba River | 0° 15' | 42° 38' | +0 14 | +0 17 | *0.95 | *1.33 | 6.7 | 9.0 | 5.0 |
| 3833 | Chisimaio | 0° 22' | 42° 33' | -0 15 | -0 12 | *0.74 | *0.83 | 5.4 | 7.5 | 3.7 |
| 3835 | Rirakau River entrance | 1° 17' | 41° 54' | -0 09 | -0 07 | *0.89 | *1.00 | 6.5 | 9.0 | 4.5 |
| | KENYA and TANGANYIKA | | | | | | | | | |
| 3837 | Malindi | 3° 13' | 40° 08' | -0 14 | -0 13 | (*0.89+1.8) | | 6.7 | 9.5 | 6.2 |
| 3839 | Port Mombasa (Kilindini) | 4° 04' | 39° 40' | -0 09 | -0 08 | (*1.03+1.0) | | 7.7 | 10.4 | 6.1 |
| 3841 | Wasin Island | 4° 39' | 39° 21' | -0 11 | -0 12 | (*1.05+1.0) | | 7.9 | 10.9 | 6.3 |
| 3843 | Mkoani, Pemba Island | 5° 21' | 39° 38' | -0 14 | -0 14 | (*1.05+0.6) | | 7.9 | 10.9 | 5.8 |
| 3845 | Mesale Island, Pemba Island | 5° 14' | 39° 36' | -0 16 | -0 12 | (*1.08+0.6) | | 8.1 | 11.2 | 6.0 |
| 3847 | Mkokotoni Harbor, Zanzibar Island | 5° 52' | 39° 16' | -0 13 | -0 14 | (*1.09+0.9) | | 8.2 | 11.3 | 6.4 |
| 3849 | Zanzibar, Zanzibar Island | 6° 09' | 39° 11' | -0 21 | -0 19 | (*1.16+1.0) | | 8.7 | 12.3 | 6.8 |
| 3851 | DAR ES SALAAM | 6° 50' | 39° 17' | | | | | 7.5 | 10.6 | 5.0 |
| 3853 | Lindi River | 9° 59' | 39° 45' | +0 07 | +0 09 | *0.97 | *1.33 | 6.8 | 9.4 | 5.0 |
| | MOZAMBIQUE Time meridian, 30° E | | | | | | | | | |
| 3855 | Tunghi Bay | 10° 45' | 40° 35' | -1 16 | -1 14 | +2.8 | +2.2 | 8.1 | 11.3 | 7.5 |
| 3857 | Porto de Mocimboa | 11° 20' | 40° 22' | -1 04 | -0 56 | +4.1 | +3.0 | 8.6 | 12.0 | 8.5 |
| 3859 | Ibo | 12° 21' | 40° 35' | -1 30 | -1 24 | +3.1 | +0.6 | 8.3 | 11.7 | 7.7 |
| 3861 | Porto Amelia | 12° 58' | 40° 29' | -1 13 | -0 59 | +2.9 | +2.0 | 8.4 | 11.7 | 7.4 |
| 3863 | Porto de Mozambique | 15° 02' | 40° 44' | -1 00 | -0 56 | +2.9 | +2.0 | 8.4 | 11.8 | 7.4 |
| 3865 | Antonio Enes | 16° 14' | 39° 54' | -0 17 | -0 05 | +2.8 | +2.0 | 8.3 | 11.7 | 7.4 |
| 3867 | Porto de Quelimane | 18° 00' | 36° 54' | -0 30 | -0 14 | +3.6 | +2.5 | 8.6 | 12.2 | 8.0 |
| | <i>on Beira, p.372</i> | | | | | | | | | |
| 3869 | Porto do Chinde | 18° 32' | 36° 30' | -0 38 | -0 31 | -7.5 | -2.3 | 8.0 | 11.1 | 6.8 |
| 3871 | BEIRA, Pungoe River | 19° 49' | 34° 50' | | | | | 13.2 | 18.6 | 11.7 |
| 3873 | Ilha de Chilóane | 20° 37' | 34° 53' | -0 19 | -0 37 | -0.5 | +0.2 | 12.5 | 17.6 | 11.6 |
| 3875 | Bartolomeu Dias | 21° 10' | 35° 07' | -0 18 | -0 23 | *0.67 | *0.71 | 8.6 | 12.0 | 7.9 |
| 3877 | Bahia de Bazaruto | 21° 39' | 35° 26' | -0 39 | -0 33 | *0.67 | *0.71 | 8.7 | 12.5 | 8.0 |
| | <i>on Durban, p.376</i> | | | | | | | | | |
| 3879 | Inhambane Bay | 23° 44' | 35° 24' | +0 29 | +0 48 | +3.7 | +2.0 | 5.6 | 8.0 | 6.4 |
| 3881 | Porto de Inhambane | 23° 51' | 35° 23' | +1 12 | +1 23 | +4.1 | +1.4 | 6.6 | 9.0 | 6.3 |
| 3883 | Inhampura | 25° 11' | 33° 31' | +0 35 | +1 09 | (*0.62+1.2) | | 2.4 | 3.4 | 3.4 |
| 3885 | Maputo | 25° 58' | 32° 34' | +0 47 | +0 54 | (*1.79+0.2) | | 7.0 | 9.8 | 6.6 |

Endnotes can be found at the end of table 2.

TABLE 2 – TIDAL DIFFERENCES AND OTHER CONSTANTS

| No. | PLACE | POSITION | | DIFFERENCES | | | | RANGES | | Mean Tide Level |
|------|---|--------------|-------------|---------------------------------|-----------|-------------|-----------|--------|--------|-----------------|
| | | Latitude | Longitude | Time | | Height | | Mean | Spring | |
| | | | | High Water | Low Water | High Water | Low Water | | | |
| | SOUTH AFRICA <40> Time meridian, 30° E | South | East | h m | h m | ft | ft | ft | ft | ft |
| | | | | on Durban, p.376 | | | | | | |
| 3887 | Richards Bay | 28° 47' | 32° 05' | +0 00 | -0 02 | +0.1 | -0.1 | 4.1 | 5.9 | 3.6 |
| 3889 | DURBAN | 29° 52' | 31° 03' | <i>Daily predictions</i> | | | | 3.9 | 5.6 | 3.6 |
| 3891 | East London | 33° 02' | 27° 55' | +0 02 | +0 01 | +0.3 | +0.4 | 3.8 | 5.4 | 3.9 |
| 3893 | Port Elizabeth | 33° 58' | 25° 38' | +0 00 | -0 02 | -0.1 | +0.1 | 3.7 | 5.2 | 3.6 |
| | INDIAN OCEAN ISLANDS Madagascar Time meridian, 45° E | | | on Dar Es Salaam, p.368 | | | | | | |
| 3895 | Hellville, Nosi Be | 13° 24' | 48° 18' | -0 17 | -0 14 | +2.7 | +2.0 | 8.2 | 11.2 | 7.3 |
| 3897 | Baie du Courrier | 12° 11' | 49° 08' | -0 29 | -0 25 | +0.3 | +1.6 | 6.2 | 8.4 | 5.9 |
| 3899 | Diego Suarez | 12° 16' | 49° 18' | -0 41 | -0 38 | (*0.61+1.3) | | 4.6 | 6.2 | 4.4 |
| 3901 | Mangerivy Bay (Port Leven) | 12° 48' | 49° 49' | -0 49 | -1 01 | (*0.53+1.4) | | 4.0 | 5.2 | 4.1 |
| 3903 | Vohemar | 13° 21' | 50° 01' | -1 21 | -1 18 | (*0.41+1.4) | | 3.1 | 4.2 | 3.5 |
| 3905 | Maroantsetra | 15° 27' | 49° 49' | -0 51 | -0 49 | (*0.40+0.9) | | 3.0 | 4.2 | 2.9 |
| | | | | on Colombo, p.324 | | | | | | |
| 3907 | Fenerive | 17° 22' | 49° 24' | -0 19 | -0 06 | +2.1 | +1.8 | 1.7 | 2.3 | 3.2 |
| 3909 | Tamatave | 18° 09' | 49° 26' | -0 13 | -0 09 | +0.8 | +0.7 | 1.5 | 2.0 | 2.0 |
| | | | | on Dar Es Salaam, p.368 | | | | | | |
| 3911 | Fort Dauphin | 25° 01' | 47° 00' | +4 10 | +4 41 | (*0.19+0.4) | | 1.4 | 2.0 | 1.4 |
| 3913 | Androka | 25° 04' | 44° 07' | +1 10 | +1 13 | (*0.75+3.4) | | 5.6 | 8.0 | 7.2 |
| 3915 | Tulear | 23° 21' | 43° 40' | +0 46 | +0 50 | (*0.77+3.0) | | 5.8 | 8.4 | 6.9 |
| 3917 | Cap Ankarana | 20° 29' | 44° 07' | +0 30 | +0 33 | +3.0 | +2.6 | 7.9 | 11.3 | 7.8 |
| 3919 | Nosi Maroantaly | 18° 25' | 43° 56' | +0 26 | +0 30 | +3.4 | +2.3 | 8.6 | 12.1 | 7.8 |
| 3921 | Majunga | 15° 44' | 46° 19' | -0 12 | -0 09 | +5.4 | +3.8 | 9.1 | 12.7 | 9.6 |
| | Lesser Islands | | | | | | | | | |
| 3923 | Moroni, Comoro Island | 11° 41' | 43° 15' | +0 24 | +0 26 | *1.03 | -- | -- | -- | -- |
| 3925 | Zaudzi, Ile Mayotte | 12° 47' | 45° 16' | -0 04 | +0 00 | +3.5 | +2.8 | 8.2 | 11.2 | 8.1 |
| | Time meridian, 60° E | | | on Yokohama, p.20 | | | | | | |
| 3927 | Point des Galets, Reunion Island | 20° 55' | 55° 17' | -2 49 | -2 40 | (*0.34+0.3) | | 1.2 | 1.6 | 1.6 |
| 3929 | Port Louis, Mauritius Island | 20° 09' | 57° 29' | -3 58 | -3 49 | (*0.31+0.8) | | 1.1 | 1.6 | 2.0 |
| | | | | on Apia, p.252 | | | | | | |
| 3931 | Cargados Carajos Shoal | 16° 49' | 59° 31' | -5 34 | -6 02 | +0.5 | +0.3 | 2.8 | 4.0 | 2.0 |
| 3933 | Rodriguez Island | 19° 40' | 63° 26' | -7 21 | -7 50 | +1.7 | +0.5 | 3.8 | 4.7 | 2.7 |
| | Time meridian, local | | | on Dar Es Salaam, p.368 | | | | | | |
| 3935 | Providence Island | 9° 13' | 51° 01' | +1 36 | +1 40 | (*0.72+0.3) | | 5.4 | 7.8 | 3.9 |
| 3937 | Port Victoria, Seychelle Islands | 4° 37' | 55° 27' | +0 18 | +0 25 | (*0.39+1.4) | | 2.9 | 4.0 | 3.4 |
| | Time meridian, 75° E | | | | | | | | | |
| 3939 | DIEGO GARCIA ISLAND, Chagos Archipelago. | 7° 21' | 72° 28' | <i>Daily predictions, p.380</i> | | | | 3.8 | 5.5 | 3.3 |
| | Time meridian, 97° 30' E | | | on Davao, p.176 | | | | | | |
| 3941 | Port Refuge, Cocos Islands | 12° 05' | 96° 53' | -0 39 | -0 36 | (*0.42+1.3) | | 1.8 | 2.4 | 2.3 |
| 3943 | Christmas Island | 10° 25' | 105° 43' | +1 48 | +1 46 | (*0.60+2.1) | | 2.6 | 3.4 | 3.6 |
| | Time meridian, 75° E | | | on Durban, p.376 | | | | | | |
| 3945 | Amsterdam Island | 37° 50' | 77° 33' | -5 25 | -5 22 | *0.51 | *0.31 | 2.3 | 3.3 | 1.6 |
| 3947 | St. Paul Island | 38° 43' | 77° 35' | -2 54 | -2 52 | (*0.72+1.0) | | 2.8 | 3.9 | 3.6 |
| | Kerguelen Island | | | | | | | | | |
| 3949 | Betsy Cove | 49° 09' | 70° 12' | -3 06 | -2 55 | -0.9 | -0.2 | 3.2 | 4.6 | 3.0 |
| 3951 | Baie du Morbihan | 49° 21' | 70° 13' | -4 38 | -4 36 | +0.3 | +0.4 | 3.8 | 5.1 | 3.9 |
| 3953 | Observatory Bay | 49° 25' | 69° 53' | -4 32 | -4 30 | -0.2 | +0.1 | 3.6 | 5.2 | 3.5 |
| | | | | on Mui Vung Tau, p.136 | | | | | | |
| 3955 | Heard Island (Atlas Cove) | 53° 01' | 73° 23' | -1 56 | -1 56 | *0.31 | *0.31 | 1.8 | 2.3 | 2.4 |

Endnotes can be found at the end of table 2.

ENDNOTES

* **RATIO.** If the ratio is accompanied by a correction factor multiply the heights of the high and low waters at the reference station by the ratio and then apply the correction factor. See note and example on pages 385 and 386.

† The tide at this location is chiefly diurnal.

§ The tide at this location is diurnal.

< 1> For other places in Siberia, Arctic Ocean, see "Tide Tables, Europe and West Coast of Africa."

< 2> Apply differences to predictions for Pusan 2 days earlier than the date desired.

< 3> There is a seiche at Miyako Ko with a period of about 22 minutes and a range of about 1 foot.

< 4> At YOKOHAMA, winds from the south may raise the level of the water 1 foot above normal.

< 5> There is a seiche at Aburatsubo with a period of about 15 minutes and a range of about 1 foot during storms.

< 6> There is a seiche at Shimoda Ko with a period of about 16 minutes. When the barometric pressure is low, the range is about 0.7 foot.

< 7> There is a seiche at Futami Ko with a period of 16 to 20 minutes and a range of about 1 foot.

< 8> There are seiches at Susaki Ko with periods of 18 to 40 minutes and ranges of about 0.7 foot.

< 9> In Izumi Nada with a strong SW wind and a falling barometer, sea level may rise as much as 2 feet.

<10> Tide is frequently diurnal. Apply height ratios to HHW and LLW, and time difference to LLW only. Diurnal range is given.

<11> Tide is frequently diurnal. Apply height ratios to HHW and LLW, and time difference to LLW only. HHW occurs about 14 hours after LLW. Diurnal range is given.

<12> There is a seiche at Hamada Ko with a period of about 12 minutes and range of about 0.7 foot.

<13> There are seiches at Maizuru Ko with periods from 16 to 90 minutes and ranges up to 3 feet during storms.

<14> There are seiches at Tsuruga Ko with periods from 10 to 65 minutes and ranges of about 0.7 foot.

<15> There is a seiche in nearby Kamae Ko, with a period of about 20 minutes and a range of up to 1 foot.

<16> There is a seiche in Hososhima with a period of about 10 minutes and ranges of up to 0.7 foot in calm weather and 2 feet during storms.

<17> There is a seiche at Uchiumi with a period of about 10 minutes and a range of up to 1.3 feet.

<18> A seiche occurs in Nakagawara Ura before and after rough weather. During late spring or early summer, when there is a heavy sea in the offing the range may be 2 to 3 feet.

<19> A seiche occurs in Nagasaki Ko with a period of about 35 minutes and may have a range of up to 2 feet. The most pronounced oscillations usually occur with two localized low pressure areas.

<20> Sasebo has a seiche with periods from 64 to 83 minutes and may have ranges as much as 0.7 foot.

<21> There is a seiche in Yobuko Ko with a period of about 10 minutes which may have a range as much as 1 foot.

<25> Mean and diurnal ranges given.

<26> There is a marked seiche at Kao-hsiung with a period of 13 to 25 minutes.

<27> Seasonal height corrections-May through August, subtract 0.6 foot; November through January, add 0.6 foot.

| | | | | | | | |
|--|-----|-----|-----|-----|-----|-----|-----|
| <28> Low water heights at Mui Vung Tau. | 10 | 8 | 6 | 4 | 2 | 0 | -2 |
| Corresponding LW heights at Ho Chi Minh City | 8.4 | 6.3 | 4.5 | 3.1 | 2.0 | 0.9 | 0.0 |

<29> Heights of low waters are about 1.5 feet.

<30> Except near times of the moon's quadrature when the range of tide is negligible the high waters occur about noon and midnight and the low waters about 6 a.m. and 6 p.m.

<31> Predictions through differences for stations in Torres Strait are not feasible. Diurnal range given for Thursday Island.

- <32> Bores occur in the following estuaries immediately after low water when the range of tide is large.
Sittang River: Information is meager.
Pegu River: Bore is said to reach a height of 3 feet.
- <33> Neap difference, -3.7; Spring difference, -0.5.
- <34> Seasonal height corrections— December through April, -0.7; July through September, +1.0.
- <35> Seasonal height corrections— December through April, -1.0; May, -0.5; June, +0.2; July, +1.2; August and September, +2.0; October, +1.0.
- <36> Bores occur in the following estuaries immediately after low water when the range of tide is large.
Meghna River: In the outer channel the bore is particularly dangerous March through October.
Hooghly River: The bore commences near Diamond Harbor but is of little importance until it enters the narrow reaches above Hooghly Point; it may attain a height of 4 feet at Kidderpore and 5 feet above that place.
Cambay Channel and Mahi River.
- <37> Seasonal corrections to be applied to predictions for Basra Reach are: Jan., -0.9; Feb., -0.4; Mar., +0.5; Apr., +1.6; May, +2.3; June, +1.9; July, +0.8; Aug., -0.6; Sept., -1.3; Oct., -1.4; Nov., -1.3; Dec., -1.1.
- <38> Seasonal corrections to be applied to predictions for Munifah are: Jan., -0.2; Feb., -0.3; Mar., -0.4; Apr., -0.3; May, -0.1; June, +0.2; July, +0.4; Aug., +0.4; Sept., +0.3; Oct., +0.1; Nov., 0.0; Dec., -0.1.
- <39> For places on the Mediterranean Sea, see "Tide Tables, Europe and West Coast of Africa."
- <40> For places on the south and west coast, see "Tide Tables, Europe and West Coast of Africa."
- <41> Predictions at this station are not intended for use in navigating Ch'ang Chiang Approach. They are intended only for use in computing tides at designated Table 2 stations in Korea and Sumatra.

TABLE 3. —HEIGHT OF TIDE AT ANY TIME

EXPLANATION OF TABLE

Although the footnote of table 3 may contain sufficient explanation for finding the height of tide at any time, two examples are given here to illustrate its use.

Example 1.—Find the height of the tide at 0735 at Namp'o-hang, Korea, on a day when the predicted tides from table 1 are given as:

| <i>Low Water</i> | | <i>High Water</i> | |
|------------------|---------------|-------------------|---------------|
| <i>Time</i> | <i>Height</i> | <i>Time</i> | <i>Height</i> |
| <i>h.m.</i> | <i>ft</i> | <i>h.m.</i> | <i>ft</i> |
| 0418 | 2.5 | 1105 | 4.4 |
| 1721 | 3.6 | 2324 | 15.2 |

An inspection of the above example shows that the desired time falls between the two morning tides

The duration of rise is $11^{\text{h}} 05^{\text{m}} - 4^{\text{h}} 18^{\text{m}} = 6^{\text{h}} 47^{\text{m}}$.

The time after low water for which the height is required is $7^{\text{h}} 35^{\text{m}} - 4^{\text{h}} 18^{\text{m}} = 3^{\text{h}} 17^{\text{m}}$.

The range of tide is $20.5 - 2.5 = 18.0$ feet.

The duration of rise or fall in table 3 is given in heavy-faced type for each 20 minutes from $4^{\text{h}} 00^{\text{m}}$ to $10^{\text{h}} 40^{\text{m}}$. The nearest tabular value to $6^{\text{h}} 47^{\text{m}}$, the above duration of rise, is $6^{\text{h}} 40^{\text{m}}$; and on the horizontal line of $6^{\text{h}} 40^{\text{m}}$, the nearest tabular time to $3^{\text{h}} 17^{\text{m}}$ after low water for which the height is required is $3^{\text{h}} 20^{\text{m}}$. Following down the column in which this $3^{\text{h}} 20^{\text{m}}$ is found to its intersection with the line of the range 18.0 feet, the correction is 9.0 feet, which being reckoned from low water, must be added, making $2.5 + 9.0 = 11.5$ feet or 351 centimeters which is the required height above the chart datum for Namp'o-hang.

Example 2. —Find the height of the tide at 1045 at Manila, Philippines on a day when the predicted tides from table 1 are given as:

| <i>High Water</i> | | <i>Low Water</i> | |
|-------------------|---------------|------------------|---------------|
| <i>Time</i> | <i>Height</i> | <i>Time</i> | <i>Height</i> |
| <i>h.m.</i> | <i>ft</i> | <i>h.m.</i> | <i>ft</i> |
| 0728 | 4.2 | 1633 | - 0.9 |

The duration of fall is $16^{\text{h}} 33^{\text{m}} - 07^{\text{h}} 28^{\text{m}} = 9^{\text{h}} 05^{\text{m}}$.

The time after high water for which the height is required is $10^{\text{h}} 45^{\text{m}} - 7^{\text{h}} 28^{\text{m}} = 3^{\text{h}} 17^{\text{m}}$.

The range of tide is $4.2 - (- 0.9) = 5.1$ feet.

Entering table 3 at the duration of fall of $9^{\text{h}} 00^{\text{m}}$, which is the nearest value to $9^{\text{h}} 05^{\text{m}}$, the nearest value on the horizontal line to $3^{\text{h}} 17^{\text{m}}$ is $3^{\text{h}} 18^{\text{m}}$ after high water. Following down this column to its intersection with a range of 5.0 feet which is the nearest tabular value to 5.1 feet, one obtains 1.5 which, being calculated from high water, must be subtracted from it. The approximate height at $10^{\text{h}} 45^{\text{m}}$ is, therefore, $4.2 - 1.5 = 2.7$ feet or 82 centimeters.

When the duration of rise or fall is greater than $10^{\text{h}} 40^{\text{m}}$, enter the table with one-half the given duration and with one-half the time from the nearest high or low water; but if the duration of rise or fall is less than 4 hours, enter the table with double the given duration and with double the time from the nearest high or low water.

Similarly, when the range of tide is greater than 20 feet, enter the table with one-half the given range. The tabular correction should then be doubled before applying it to the given high or low water height. If the range of tide is greater than 40 feet, take one-third of the range and multiply the tabular correction by 3.

If the height at any time is desired for a place listed in table 2 predictions of the high and low waters for the day in question should be obtained by the use of the difference given for the place in that table. Having obtained these predictions, the height for any intermediate time is obtained in the same manner as illustrated in the foregoing example.

GRAPHIC METHOD

If the height of the tide is required for a number of times on a certain day the full tide curve for the day may be obtained by the *one-quarter, one-tenth rule*. The procedure is as follows:

1. On cross-section paper plot the high and low water points in the order of their occurrence for the day, measuring time horizontally and height vertically. These are the basic points for the curve.
2. Draw light straight lines connecting the points representing successive high and low waters.
3. Divide each of these straight lines into four equal parts. The halfway point of each line gives another point for the curve.
4. At the quarter point adjacent to high water draw a vertical line above the point and at the quarter point adjacent to low water draw a vertical line below the point, making the length of these lines equal to one-tenth of the range between the high and low waters used. The points marking the ends of these vertical lines give two additional intermediate points for the curve.
5. Draw a smooth curve through the points of high and low waters and the intermediate points, making the curve well rounded near high and low waters. This curve will approximate the actual tide curve and heights for any time of the day may be readily scaled from it.

Caution.—Both methods presented are based on the assumption that the rise and fall conform to simple cosine curves. Therefore the heights obtained will be approximate. The roughness of approximation will vary as the tide curve differs from a cosine curve.

An example of the use of the graphical method is illustrated below. Using the same predicted tides as in example 2, the approximate height at 10^h 45^m could be determined as shown below.

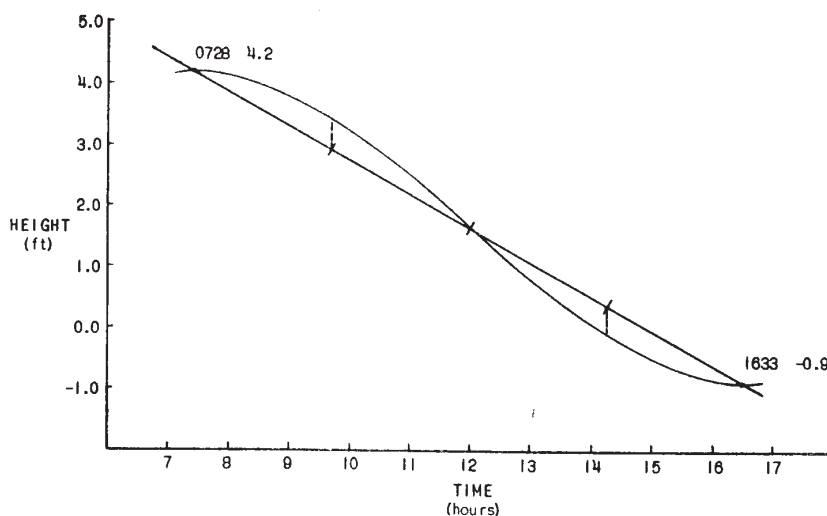


TABLE 3.—HEIGHT OF TIDE AT ANYTIME

| <i>h. m.</i> | Time from the nearest high water or low water | | | | | | | | | | | | | | |
|--------------|---|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | <i>h. m.</i> | <i>h. m.</i> | <i>h. m.</i> | <i>h. m.</i> | <i>h. m.</i> | <i>h. m.</i> | <i>h. m.</i> | <i>h. m.</i> | <i>h. m.</i> | <i>h. m.</i> | <i>h. m.</i> | <i>h. m.</i> | <i>h. m.</i> | <i>h. m.</i> | <i>h. m.</i> |
| 4 10 | 0 08 | 0 16 | 0 24 | 0 32 | 0 40 | 0 48 | 0 56 | 1 04 | 1 12 | 1 20 | 1 28 | 1 36 | 1 44 | 1 52 | 2 00 |
| 4 20 | 0 09 | 0 17 | 0 26 | 0 35 | 0 43 | 0 52 | 1 01 | 1 09 | 1 18 | 1 27 | 1 35 | 1 44 | 1 53 | 2 01 | 2 10 |
| 4 40 | 0 09 | 0 19 | 0 28 | 0 37 | 0 47 | 0 56 | 1 05 | 1 15 | 1 24 | 1 33 | 1 43 | 1 52 | 2 01 | 2 11 | 2 20 |
| 5 00 | 0 10 | 0 20 | 0 30 | 0 40 | 0 50 | 1 00 | 1 10 | 1 20 | 1 30 | 1 40 | 1 50 | 2 00 | 2 10 | 2 20 | 2 30 |
| 5 20 | 0 11 | 0 21 | 0 32 | 0 43 | 0 53 | 1 04 | 1 15 | 1 25 | 1 36 | 1 47 | 1 57 | 2 08 | 2 19 | 2 29 | 2 40 |
| 5 40 | 0 11 | 0 23 | 0 34 | 0 45 | 0 57 | 1 08 | 1 19 | 1 31 | 1 42 | 1 53 | 2 05 | 2 16 | 2 27 | 2 39 | 2 50 |
| 6 00 | 0 12 | 0 24 | 0 36 | 0 48 | 1 00 | 1 12 | 1 24 | 1 36 | 1 48 | 2 00 | 2 12 | 2 24 | 2 36 | 2 48 | 3 00 |
| 6 20 | 0 13 | 0 25 | 0 38 | 0 51 | 1 03 | 1 16 | 1 29 | 1 41 | 1 54 | 2 07 | 2 19 | 2 32 | 2 45 | 2 57 | 3 10 |
| 6 40 | 0 13 | 0 27 | 0 40 | 0 53 | 1 07 | 1 20 | 1 33 | 1 47 | 2 00 | 2 13 | 2 27 | 2 40 | 2 53 | 3 07 | 3 20 |
| 7 00 | 0 14 | 0 28 | 0 42 | 0 56 | 1 10 | 1 24 | 1 38 | 1 52 | 2 06 | 2 20 | 2 34 | 2 48 | 3 02 | 3 16 | 3 30 |
| 7 20 | 0 15 | 0 29 | 0 44 | 0 59 | 1 13 | 1 28 | 1 43 | 1 57 | 2 12 | 2 27 | 2 41 | 2 56 | 3 11 | 3 25 | 3 40 |
| 7 40 | 0 15 | 0 31 | 0 46 | 1 01 | 1 17 | 1 32 | 1 47 | 2 03 | 2 18 | 2 33 | 2 49 | 3 04 | 3 19 | 3 35 | 3 50 |
| 8 00 | 0 16 | 0 32 | 0 48 | 1 04 | 1 20 | 1 36 | 1 52 | 2 08 | 2 24 | 2 40 | 2 56 | 3 12 | 3 28 | 3 44 | 4 00 |
| 8 20 | 0 17 | 0 33 | 0 50 | 1 07 | 1 23 | 1 40 | 1 57 | 2 13 | 2 30 | 2 47 | 3 03 | 3 20 | 3 37 | 3 53 | 4 10 |
| 8 40 | 0 17 | 0 35 | 0 52 | 1 09 | 1 27 | 1 44 | 2 01 | 2 19 | 2 36 | 2 53 | 3 11 | 3 28 | 3 45 | 4 03 | 4 20 |
| 9 00 | 0 18 | 0 36 | 0 54 | 1 12 | 1 30 | 1 48 | 2 06 | 2 24 | 2 42 | 3 00 | 3 18 | 3 36 | 3 54 | 4 12 | 4 30 |
| 9 20 | 0 19 | 0 37 | 0 56 | 1 15 | 1 33 | 1 52 | 2 11 | 2 29 | 2 48 | 3 07 | 3 25 | 3 44 | 4 03 | 4 21 | 4 40 |
| 9 40 | 0 19 | 0 39 | 0 58 | 1 17 | 1 37 | 1 56 | 2 15 | 2 35 | 2 54 | 3 13 | 3 33 | 3 52 | 4 11 | 4 31 | 4 50 |
| 10 00 | 0 20 | 0 40 | 1 00 | 1 20 | 1 40 | 2 00 | 2 20 | 2 40 | 3 00 | 3 20 | 3 40 | 4 00 | 4 20 | 4 40 | 5 00 |
| 10 20 | 0 21 | 0 41 | 1 02 | 1 23 | 1 43 | 2 04 | 2 25 | 2 45 | 3 06 | 3 27 | 3 47 | 4 08 | 4 29 | 4 49 | 5 10 |
| 10 40 | 0 21 | 0 43 | 1 04 | 1 25 | 1 47 | 2 08 | 2 29 | 2 51 | 3 12 | 3 33 | 3 55 | 4 16 | 4 37 | 4 59 | 5 20 |
| <i>Ft.</i> | Correction to height | | | | | | | | | | | | | | |
| | <i>Ft.</i> | <i>Ft.</i> | <i>Ft.</i> | <i>Ft.</i> | <i>Ft.</i> | <i>Ft.</i> | <i>Ft.</i> | <i>Ft.</i> | <i>Ft.</i> | <i>Ft.</i> | <i>Ft.</i> | <i>Ft.</i> | <i>Ft.</i> | <i>Ft.</i> | <i>Ft.</i> |
| 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 |
| 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.4 | 0.4 | 0.5 |
| 1.5 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.3 | 0.4 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 |
| 2.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.3 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 | 1.0 |
| 2.5 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.9 | 1.0 | 1.1 | 1.2 |
| 3.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.8 | 0.9 | 1.0 | 1.2 | 1.3 | 1.5 |
| 3.5 | 0.0 | 0.0 | 0.1 | 0.2 | 0.2 | 0.3 | 0.4 | 0.6 | 0.7 | 0.9 | 1.0 | 1.2 | 1.4 | 1.6 | 1.8 |
| 4.0 | 0.0 | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.7 | 0.8 | 1.0 | 1.2 | 1.4 | 1.6 | 1.8 | 2.0 |
| 4.5 | 0.0 | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.6 | 0.7 | 0.9 | 1.1 | 1.3 | 1.6 | 1.8 | 2.0 | 2.2 |
| 5.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.3 | 0.5 | 0.6 | 0.8 | 1.0 | 1.2 | 1.5 | 1.7 | 2.0 | 2.2 | 2.5 |
| 5.5 | 0.0 | 0.1 | 0.1 | 0.2 | 0.4 | 0.5 | 0.7 | 0.9 | 1.1 | 1.4 | 1.6 | 1.9 | 2.2 | 2.5 | 2.8 |
| 6.0 | 0.0 | 0.1 | 0.1 | 0.3 | 0.4 | 0.6 | 0.8 | 1.0 | 1.2 | 1.5 | 1.8 | 2.1 | 2.4 | 2.7 | 3.0 |
| 6.5 | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.6 | 0.8 | 1.1 | 1.3 | 1.6 | 1.9 | 2.2 | 2.6 | 2.9 | 3.2 |
| 7.0 | 0.0 | 0.1 | 0.2 | 0.3 | 0.5 | 0.7 | 0.9 | 1.2 | 1.4 | 1.8 | 2.1 | 2.4 | 2.8 | 3.1 | 3.5 |
| 7.5 | 0.0 | 0.1 | 0.2 | 0.3 | 0.5 | 0.7 | 1.0 | 1.2 | 1.5 | 1.9 | 2.2 | 2.6 | 3.0 | 3.4 | 3.8 |
| 8.0 | 0.0 | 0.1 | 0.2 | 0.3 | 0.5 | 0.8 | 1.0 | 1.3 | 1.6 | 2.0 | 2.4 | 2.8 | 3.2 | 3.6 | 4.0 |
| 8.5 | 0.0 | 0.1 | 0.2 | 0.4 | 0.6 | 0.8 | 1.1 | 1.4 | 1.8 | 2.1 | 2.5 | 2.9 | 3.4 | 3.8 | 4.2 |
| 9.0 | 0.0 | 0.1 | 0.2 | 0.4 | 0.6 | 0.9 | 1.2 | 1.5 | 1.9 | 2.2 | 2.7 | 3.1 | 3.6 | 4.0 | 4.5 |
| 9.5 | 0.0 | 0.1 | 0.2 | 0.4 | 0.6 | 0.9 | 1.2 | 1.6 | 2.0 | 2.4 | 2.8 | 3.3 | 3.8 | 4.3 | 4.8 |
| 10.0 | 0.0 | 0.1 | 0.2 | 0.4 | 0.7 | 1.0 | 1.3 | 1.7 | 2.1 | 2.5 | 3.0 | 3.5 | 4.0 | 4.5 | 5.0 |
| 10.5 | 0.0 | 0.1 | 0.3 | 0.5 | 0.7 | 1.0 | 1.3 | 1.7 | 2.2 | 2.6 | 3.1 | 3.6 | 4.2 | 4.7 | 5.2 |
| 11.0 | 0.0 | 0.1 | 0.3 | 0.5 | 0.7 | 1.1 | 1.4 | 1.7 | 2.3 | 2.8 | 3.3 | 3.8 | 4.4 | 4.9 | 5.5 |
| 11.5 | 0.0 | 0.1 | 0.3 | 0.5 | 0.8 | 1.1 | 1.5 | 1.8 | 2.3 | 2.9 | 3.4 | 4.0 | 4.6 | 5.1 | 5.8 |
| 12.0 | 0.0 | 0.1 | 0.3 | 0.5 | 0.8 | 1.1 | 1.5 | 1.9 | 2.5 | 3.0 | 3.6 | 4.1 | 4.8 | 5.4 | 6.0 |
| 12.5 | 0.0 | 0.1 | 0.3 | 0.5 | 0.8 | 1.2 | 2.6 | 1.9 | 2.6 | 3.1 | 3.7 | 4.3 | 5.0 | 5.6 | 6.2 |
| 13.0 | 0.0 | 0.1 | 0.3 | 0.6 | 0.9 | 1.2 | 1.7 | 2.2 | 2.7 | 3.2 | 3.9 | 4.5 | 5.1 | 5.8 | 6.5 |
| 13.5 | 0.0 | 0.1 | 0.3 | 0.6 | 0.9 | 1.3 | 1.7 | 2.2 | 2.8 | 3.4 | 4.0 | 4.7 | 5.3 | 6.0 | 6.8 |
| 14.0 | 0.0 | 0.2 | 0.3 | 0.6 | 0.9 | 1.3 | 1.8 | 2.3 | 2.9 | 3.5 | 4.2 | 4.8 | 5.5 | 6.3 | 7.0 |
| 14.5 | 0.0 | 0.2 | 0.4 | 0.6 | 1.0 | 1.4 | 1.9 | 2.4 | 3.0 | 3.6 | 4.3 | 5.0 | 5.7 | 6.5 | 7.2 |
| 15.0 | 0.0 | 0.2 | 0.4 | 0.6 | 1.0 | 1.4 | 1.9 | 2.5 | 3.1 | 3.8 | 4.4 | 5.2 | 5.9 | 6.7 | 7.5 |
| 15.5 | 0.0 | 0.2 | 0.4 | 0.7 | 1.0 | 1.5 | 2.0 | 2.6 | 3.2 | 3.9 | 4.6 | 5.4 | 6.1 | 6.9 | 7.8 |
| 16.0 | 0.0 | 0.2 | 0.4 | 0.7 | 1.1 | 1.5 | 2.1 | 2.6 | 3.3 | 4.0 | 4.7 | 5.5 | 6.3 | 7.2 | 8.0 |
| 16.5 | 0.0 | 0.2 | 0.4 | 0.7 | 1.1 | 1.6 | 2.1 | 2.7 | 3.4 | 4.1 | 4.9 | 5.7 | 6.5 | 7.4 | 8.2 |
| 17.0 | 0.0 | 0.2 | 0.4 | 0.7 | 1.1 | 1.6 | 2.2 | 2.8 | 3.5 | 4.2 | 5.0 | 5.9 | 6.7 | 7.6 | 8.5 |
| 17.5 | 0.0 | 0.2 | 0.4 | 0.8 | 1.2 | 1.7 | 2.2 | 2.9 | 3.6 | 4.4 | 5.2 | 6.0 | 6.9 | 7.8 | 8.8 |
| 18.0 | 0.0 | 0.2 | 0.4 | 0.8 | 1.2 | 1.7 | 2.3 | 3.0 | 3.7 | 4.5 | 5.3 | 6.2 | 7.1 | 8.1 | 9.0 |
| 18.5 | 0.1 | 0.2 | 0.5 | 0.8 | 1.2 | 1.8 | 2.4 | 3.1 | 3.8 | 4.6 | 5.5 | 6.4 | 7.3 | 8.3 | 9.2 |
| 19.0 | 0.1 | 0.2 | 0.5 | 0.8 | 1.3 | 1.8 | 2.4 | 3.1 | 3.9 | 4.8 | 5.6 | 6.6 | 7.5 | 8.5 | 9.5 |
| 19.5 | 0.1 | 0.2 | 0.5 | 0.8 | 1.3 | 1.9 | 2.5 | 3.2 | 4.0 | 4.9 | 5.8 | 6.7 | 7.7 | 8.7 | 9.8 |
| 20.0 | 0.1 | 0.2 | 0.5 | 0.9 | 1.3 | 1.9 | 2.6 | 3.3 | 4.1 | 5.0 | 5.9 | 6.9 | 7.9 | 9.0 | 10.0 |

Obtain from the predictions the high water and low water, one of which is before and the other after the time for which the height is required. The difference between the times of occurrence of these tides is the duration of rise or fall, and the difference between their heights is the range of tide for the above table. Find the difference between the nearest high or low water and the time for which the height is required.

Enter the table with the duration of rise or fall, printed in heavy-faced type, which most nearly agrees with the actual value, and on that horizontal line find the time from the nearest high or low water which agrees most nearly with the corresponding actual difference. The correction sought is in the column directly below, on the line with the range of tide.

When the nearest tide is high water, subtract the correction.

When the nearest tide is low, add the correction.

TABLE 4.—LOCAL MEAN TIME OF SUNRISE AND SUNSET

EXPLANATION OF TABLE

This table gives the local mean time of the rising and setting of the Sun's upper limb for every fifth day of the year. The times were computed for the instant when the true zenith distance of the Sun's center is $90^{\circ} 50', 34''$ having been allowed for horizontal refraction and $16'$ for semidiameter. No allowance has been made for elevation of the observer.

Because of the sensible variations which may be made in the time of rising or setting of the Sun by a difference in elevation of the observer, and by changes in the refraction, any great refinement in the interpolation of intermediate dates or latitudes in this table is unnecessary.

The value obtained from table 4 may be converted to standard time by means of table 5, which follows it.

TABLE 4.-SUNRISE AND SUNSET, 2011

| Date | 0° | | 5° N. | | 10° N. | | 15° N. | | 20° N. | | 25° N. | |
|---------|---------------|--------------|---------------|--------------|---------------|--------------|---------------|--------------|---------------|--------------|---------------|--------------|
| | Rise h. m. | Set h. m. | Rise h. m. | Set h. m. | Rise h. m. | Set h. m. | Rise h. m. | Set h. m. | Rise h. m. | Set h. m. | Rise h. m. | Set h. m. |
| Jan. 1 | 06 00 | 18 07 | 06 08 | 17 59 | 06 17 | 17 50 | 06 26 | 17 41 | 06 35 | 17 32 | 06 45 | 17 22 |
| 6 | 06 02 | 18 09 | 06 10 | 18 01 | 06 19 | 17 53 | 06 27 | 17 44 | 06 36 | 17 35 | 06 46 | 17 25 |
| 11 | 06 04 | 18 12 | 06 12 | 18 04 | 06 20 | 17 55 | 06 29 | 17 47 | 06 37 | 17 38 | 06 47 | 17 29 |
| 16 | 06 06 | 18 13 | 06 14 | 18 06 | 06 21 | 17 58 | 06 29 | 17 50 | 06 38 | 17 42 | 06 47 | 17 33 |
| 21 | 06 08 | 18 15 | 06 15 | 18 08 | 06 22 | 18 00 | 06 30 | 17 53 | 06 38 | 17 45 | 06 46 | 17 36 |
| 26 | 06 09 | 18 16 | 06 16 | 18 09 | 06 23 | 18 02 | 06 30 | 17 55 | 06 37 | 17 48 | 06 45 | 17 40 |
| 31 | 06 10 | 18 17 | 06 16 | 18 11 | 06 23 | 18 04 | 06 29 | 17 58 | 06 36 | 17 51 | 06 43 | 17 44 |
| Feb. 5 | 06 10 | 18 17 | 06 16 | 18 12 | 06 22 | 18 06 | 06 28 | 18 00 | 06 34 | 17 54 | 06 41 | 17 47 |
| 10 | 06 11 | 18 18 | 06 16 | 18 13 | 06 21 | 18 07 | 06 26 | 18 02 | 06 32 | 17 57 | 06 38 | 17 51 |
| 15 | 06 11 | 18 18 | 06 15 | 18 13 | 06 20 | 18 09 | 06 25 | 18 04 | 06 29 | 17 59 | 06 35 | 17 54 |
| 20 | 06 10 | 18 17 | 06 14 | 18 13 | 06 18 | 18 09 | 06 22 | 18 05 | 06 26 | 18 01 | 06 31 | 17 57 |
| 25 | 06 10 | 18 16 | 06 13 | 18 13 | 06 16 | 18 10 | 06 20 | 18 07 | 06 23 | 18 03 | 06 27 | 18 00 |
| Mar. 2 | 06 09 | 18 15 | 06 11 | 18 13 | 06 14 | 18 10 | 06 17 | 18 08 | 06 19 | 18 05 | 06 22 | 18 02 |
| 7 | 06 08 | 18 14 | 06 10 | 18 13 | 06 12 | 18 11 | 06 13 | 18 09 | 06 15 | 18 07 | 06 18 | 18 05 |
| 12 | 06 07 | 18 13 | 06 08 | 18 12 | 06 09 | 18 11 | 06 10 | 18 10 | 06 11 | 18 09 | 06 13 | 18 07 |
| 17 | 06 05 | 18 12 | 06 06 | 18 11 | 06 06 | 18 11 | 06 07 | 18 10 | 06 07 | 18 10 | 06 08 | 18 10 |
| 22 | 06 04 | 18 10 | 06 04 | 18 10 | 06 03 | 18 11 | 06 03 | 18 11 | 06 03 | 18 11 | 06 02 | 18 12 |
| 27 | 06 02 | 18 09 | 06 01 | 18 10 | 06 00 | 18 11 | 05 59 | 18 12 | 05 58 | 18 13 | 05 57 | 18 14 |
| Apr. 1 | 06 01 | 18 07 | 05 59 | 18 09 | 05 58 | 18 11 | 05 56 | 18 12 | 05 54 | 18 14 | 05 52 | 18 16 |
| 6 | 05 59 | 18 06 | 05 57 | 18 08 | 05 55 | 18 10 | 05 52 | 18 13 | 05 50 | 18 16 | 05 47 | 18 18 |
| 11 | 05 58 | 18 04 | 05 55 | 18 07 | 05 52 | 18 10 | 05 49 | 18 14 | 05 46 | 18 17 | 05 42 | 18 21 |
| 16 | 05 57 | 18 03 | 05 53 | 18 07 | 05 49 | 18 11 | 05 46 | 18 14 | 05 42 | 18 18 | 05 37 | 18 23 |
| 21 | 05 55 | 18 02 | 05 51 | 18 06 | 05 47 | 18 11 | 05 43 | 18 15 | 05 38 | 18 20 | 05 33 | 18 25 |
| 26 | 05 54 | 18 01 | 05 50 | 18 06 | 05 45 | 18 11 | 05 40 | 18 16 | 05 34 | 18 22 | 05 29 | 18 27 |
| May 1 | 05 54 | 18 01 | 05 48 | 18 06 | 05 43 | 18 12 | 05 37 | 18 17 | 05 31 | 18 23 | 05 25 | 18 30 |
| 6 | 05 53 | 18 00 | 05 47 | 18 06 | 05 41 | 18 12 | 05 35 | 18 19 | 05 28 | 18 25 | 05 21 | 18 32 |
| 11 | 05 53 | 18 00 | 05 46 | 18 06 | 05 40 | 18 13 | 05 33 | 18 20 | 05 26 | 18 27 | 05 18 | 18 35 |
| 16 | 05 53 | 18 00 | 05 46 | 18 07 | 05 39 | 18 14 | 05 32 | 18 21 | 05 24 | 18 29 | 05 15 | 18 38 |
| 21 | 05 53 | 18 00 | 05 46 | 18 08 | 05 38 | 18 15 | 05 30 | 18 23 | 05 22 | 18 31 | 05 13 | 18 40 |
| 26 | 05 53 | 18 01 | 05 46 | 18 08 | 05 38 | 18 16 | 05 30 | 18 25 | 05 21 | 18 33 | 05 12 | 18 43 |
| 31 | 05 54 | 18 01 | 05 46 | 18 09 | 05 38 | 18 18 | 05 29 | 18 26 | 05 20 | 18 35 | 05 10 | 18 45 |
| June 5 | 05 55 | 18 02 | 05 46 | 18 10 | 05 38 | 18 19 | 05 29 | 18 28 | 05 20 | 18 37 | 05 10 | 18 47 |
| 10 | 05 56 | 18 03 | 05 47 | 18 12 | 05 39 | 18 20 | 05 29 | 18 29 | 05 20 | 18 39 | 05 10 | 18 49 |
| 15 | 05 57 | 18 04 | 05 48 | 18 13 | 05 39 | 18 22 | 05 30 | 18 31 | 05 20 | 18 40 | 05 10 | 18 51 |
| 20 | 05 58 | 18 05 | 05 49 | 18 14 | 05 40 | 18 23 | 05 31 | 18 32 | 05 21 | 18 42 | 05 11 | 18 52 |
| 25 | 05 59 | 18 06 | 05 50 | 18 15 | 05 41 | 18 24 | 05 32 | 18 33 | 05 22 | 18 43 | 05 12 | 18 53 |
| 30 | 06 00 | 18 07 | 05 51 | 18 16 | 05 43 | 18 25 | 05 33 | 18 34 | 05 24 | 18 43 | 05 13 | 18 54 |
| July 5 | 06 01 | 18 08 | 05 52 | 18 17 | 05 44 | 18 25 | 05 35 | 18 34 | 05 25 | 18 44 | 05 15 | 18 54 |
| 10 | 06 02 | 18 09 | 05 54 | 18 17 | 05 45 | 18 26 | 05 36 | 18 34 | 05 27 | 18 43 | 05 17 | 18 53 |
| 15 | 06 02 | 18 10 | 05 54 | 18 17 | 05 46 | 18 26 | 05 38 | 18 34 | 05 29 | 18 43 | 05 19 | 18 52 |
| 20 | 06 03 | 18 10 | 05 55 | 18 17 | 05 47 | 18 25 | 05 39 | 18 33 | 05 31 | 18 42 | 05 22 | 18 51 |
| 25 | 06 03 | 18 10 | 05 56 | 18 17 | 05 48 | 18 25 | 05 41 | 18 32 | 05 33 | 18 40 | 05 24 | 18 49 |
| 30 | 06 03 | 18 10 | 05 56 | 18 17 | 05 49 | 18 23 | 05 42 | 18 31 | 05 35 | 18 38 | 05 26 | 18 46 |
| Aug. 4 | 06 03 | 18 10 | 05 56 | 18 16 | 05 50 | 18 22 | 05 43 | 18 29 | 05 36 | 18 36 | 05 29 | 18 43 |
| 9 | 06 02 | 18 09 | 05 56 | 18 15 | 05 51 | 18 20 | 05 44 | 18 26 | 05 38 | 18 33 | 05 31 | 18 40 |
| 14 | 06 01 | 18 08 | 05 56 | 18 13 | 05 51 | 18 18 | 05 45 | 18 24 | 05 40 | 18 30 | 05 33 | 18 36 |
| 19 | 06 00 | 18 07 | 05 56 | 18 12 | 05 51 | 18 16 | 05 46 | 18 21 | 05 41 | 18 26 | 05 35 | 18 32 |
| 24 | 05 59 | 18 06 | 05 55 | 18 10 | 05 51 | 18 14 | 05 47 | 18 18 | 05 42 | 18 22 | 05 38 | 18 27 |
| 29 | 05 58 | 18 04 | 05 54 | 18 08 | 05 51 | 18 11 | 05 47 | 18 14 | 05 44 | 18 18 | 05 40 | 18 22 |
| Sept. 3 | 05 56 | 18 03 | 05 53 | 18 05 | 05 51 | 18 08 | 05 48 | 18 11 | 05 45 | 18 14 | 05 41 | 18 17 |
| 8 | 05 55 | 18 01 | 05 52 | 18 03 | 05 50 | 18 05 | 05 48 | 18 07 | 05 46 | 18 09 | 05 43 | 18 12 |
| 13 | 05 53 | 17 59 | 05 51 | 18 01 | 05 50 | 18 02 | 05 48 | 18 03 | 05 47 | 18 05 | 05 45 | 18 07 |
| 18 | 05 51 | 17 57 | 05 50 | 17 58 | 05 50 | 17 59 | 05 49 | 18 00 | 05 48 | 18 00 | 05 47 | 18 01 |
| 23 | 05 49 | 17 56 | 05 49 | 17 56 | 05 49 | 17 56 | 05 49 | 17 56 | 05 49 | 17 56 | 05 49 | 17 56 |
| 28 | 05 48 | 17 54 | 05 48 | 17 53 | 05 49 | 17 53 | 05 49 | 17 52 | 05 50 | 17 51 | 05 51 | 17 50 |
| Oct. 3 | 05 46 | 17 52 | 05 47 | 17 51 | 05 49 | 17 50 | 05 50 | 17 48 | 05 51 | 17 47 | 05 53 | 17 45 |
| 8 | 05 44 | 17 51 | 05 46 | 17 49 | 05 48 | 17 47 | 05 50 | 17 45 | 05 53 | 17 42 | 05 55 | 17 40 |
| 13 | 05 43 | 17 50 | 05 46 | 17 47 | 05 48 | 17 44 | 05 51 | 17 41 | 05 54 | 17 38 | 05 57 | 17 35 |
| 18 | 05 42 | 17 49 | 05 45 | 17 45 | 05 49 | 17 42 | 05 52 | 17 38 | 05 56 | 17 35 | 05 59 | 17 31 |
| 23 | 05 41 | 17 48 | 05 45 | 17 44 | 05 49 | 17 40 | 05 53 | 17 35 | 05 57 | 17 31 | 06 02 | 17 26 |
| 28 | 05 40 | 17 47 | 05 45 | 17 43 | 05 50 | 17 38 | 05 54 | 17 33 | 05 59 | 17 28 | 06 05 | 17 23 |
| Nov. 2 | 05 40 | 17 47 | 05 45 | 17 42 | 05 51 | 17 36 | 05 56 | 17 31 | 06 02 | 17 25 | 06 08 | 17 19 |
| 7 | 05 40 | 17 47 | 05 46 | 17 41 | 05 52 | 17 35 | 05 58 | 17 29 | 06 04 | 17 23 | 06 11 | 17 16 |
| 12 | 05 41 | 17 48 | 05 47 | 17 41 | 05 53 | 17 35 | 06 00 | 17 28 | 06 07 | 17 21 | 06 14 | 17 14 |
| 17 | 05 41 | 17 48 | 05 48 | 17 42 | 05 55 | 17 35 | 06 02 | 17 27 | 06 10 | 17 20 | 06 18 | 17 12 |
| 22 | 05 42 | 17 50 | 05 50 | 17 42 | 05 57 | 17 35 | 06 05 | 17 27 | 06 13 | 17 19 | 06 21 | 17 11 |
| 27 | 05 44 | 17 51 | 05 52 | 17 43 | 05 59 | 17 36 | 06 07 | 17 28 | 06 16 | 17 19 | 06 25 | 17 10 |
| Dec. 2 | 05 46 | 17 53 | 05 54 | 17 45 | 06 02 | 17 37 | 06 10 | 17 28 | 06 19 | 17 19 | 06 28 | 17 10 |
| 7 | 05 48 | 17 55 | 05 56 | 17 47 | 06 04 | 17 38 | 06 13 | 17 30 | 06 22 | 17 20 | 06 32 | 17 11 |
| 12 | 05 50 | 17 57 | 05 58 | 17 49 | 06 07 | 17 40 | 06 16 | 17 31 | 06 25 | 17 22 | 06 35 | 17 12 |
| 17 | 05 52 | 18 00 | 06 01 | 17 51 | 06 10 | 17 42 | 06 19 | 17 33 | 06 28 | 17 24 | 06 38 | 17 14 |
| 22 | 05 55 | 18 02 | 06 03 | 17 53 | 06 12 | 17 45 | 06 21 | 17 36 | 06 31 | 17 26 | 06 41 | 17 16 |
| 27 | 05 57 | 18 05 | 06 06 | 17 56 | 06 15 | 17 47 | 06 24 | 17 38 | 06 33 | 17 29 | 06 43 | 17 19 |
| Jan. 1 | 06 00 | 18 07 | 06 08 | 17 59 | 06 17 | 17 50 | 06 26 | 17 41 | 06 35 | 17 32 | 06 45 | 17 22 |

Local mean time. To obtain standard time of rise or set, see table 5.

TABLE 4.-SUNRISE AND SUNSET, 2011

| Date | 30° N. | | 32° N. | | 34° N. | | 36° N. | | 38° N. | | 40° N. | |
|---------|---------------|--------------|---------------|--------------|---------------|--------------|---------------|--------------|---------------|--------------|---------------|--------------|
| | Rise h. m. | Set h. m. | Rise h. m. | Set h. m. | Rise h. m. | Set h. m. | Rise h. m. | Set h. m. | Rise h. m. | Set h. m. | Rise h. m. | Set h. m. |
| Jan. 1 | 06 56 | 17 11 | 07 00 | 17 06 | 07 05 | 17 02 | 07 11 | 16 56 | 07 16 | 16 51 | 07 22 | 16 45 |
| 6 | 06 57 | 17 15 | 07 01 | 17 10 | 07 06 | 17 06 | 07 11 | 17 01 | 07 16 | 16 55 | 07 22 | 16 50 |
| 11 | 06 57 | 17 19 | 07 01 | 17 14 | 07 06 | 17 10 | 07 11 | 17 05 | 07 16 | 17 00 | 07 21 | 16 54 |
| 16 | 06 57 | 17 23 | 07 01 | 17 19 | 07 05 | 17 14 | 07 10 | 17 10 | 07 15 | 17 05 | 07 20 | 17 00 |
| 21 | 06 55 | 17 27 | 06 59 | 17 23 | 07 03 | 17 19 | 07 08 | 17 15 | 07 12 | 17 10 | 07 17 | 17 06 |
| 26 | 06 54 | 17 32 | 06 57 | 17 28 | 07 01 | 17 24 | 07 05 | 17 20 | 07 09 | 17 16 | 07 14 | 17 11 |
| 31 | 06 51 | 17 36 | 06 54 | 17 33 | 06 58 | 17 29 | 07 02 | 17 25 | 07 06 | 17 22 | 07 10 | 17 17 |
| Feb. 5 | 06 48 | 17 40 | 06 51 | 17 37 | 06 54 | 17 34 | 06 58 | 17 31 | 07 01 | 17 27 | 07 05 | 17 23 |
| 10 | 06 44 | 17 44 | 06 47 | 17 42 | 06 50 | 17 39 | 06 53 | 17 36 | 06 56 | 17 33 | 07 00 | 17 29 |
| 15 | 06 40 | 17 48 | 06 43 | 17 46 | 06 45 | 17 44 | 06 48 | 17 41 | 06 51 | 17 38 | 06 53 | 17 35 |
| 20 | 06 36 | 17 52 | 06 38 | 17 50 | 06 40 | 17 48 | 06 42 | 17 46 | 06 44 | 17 44 | 06 47 | 17 41 |
| 25 | 06 31 | 17 56 | 06 32 | 17 54 | 06 34 | 17 53 | 06 36 | 17 51 | 06 38 | 17 49 | 06 40 | 17 47 |
| Mar. 2 | 06 25 | 17 59 | 06 27 | 17 58 | 06 28 | 17 57 | 06 29 | 17 55 | 06 31 | 17 54 | 06 33 | 17 52 |
| 7 | 06 20 | 18 03 | 06 21 | 18 02 | 06 22 | 18 01 | 06 23 | 18 00 | 06 24 | 17 59 | 06 25 | 17 58 |
| 12 | 06 14 | 18 06 | 06 15 | 18 06 | 06 15 | 18 05 | 06 16 | 18 04 | 06 16 | 18 04 | 06 17 | 18 03 |
| 17 | 06 08 | 18 09 | 06 08 | 18 09 | 06 08 | 18 09 | 06 09 | 18 09 | 06 09 | 18 09 | 06 09 | 18 08 |
| 22 | 06 02 | 18 12 | 06 02 | 18 13 | 06 02 | 18 13 | 06 01 | 18 13 | 06 01 | 18 13 | 06 01 | 18 14 |
| 27 | 05 56 | 18 15 | 05 55 | 18 16 | 05 55 | 18 17 | 05 54 | 18 17 | 05 54 | 18 18 | 05 53 | 18 19 |
| Apr. 1 | 05 50 | 18 18 | 05 49 | 18 19 | 05 48 | 18 20 | 05 47 | 18 21 | 05 46 | 18 23 | 05 45 | 18 24 |
| 6 | 05 44 | 18 21 | 05 43 | 18 23 | 05 41 | 18 24 | 05 40 | 18 26 | 05 38 | 18 27 | 05 37 | 18 29 |
| 11 | 05 38 | 18 25 | 05 37 | 18 26 | 05 35 | 18 28 | 05 33 | 18 30 | 05 31 | 18 32 | 05 29 | 18 34 |
| 16 | 05 33 | 18 28 | 05 31 | 18 30 | 05 29 | 18 32 | 05 26 | 18 34 | 05 24 | 18 36 | 05 21 | 18 39 |
| 21 | 05 27 | 18 31 | 05 25 | 18 33 | 05 22 | 18 36 | 05 20 | 18 38 | 05 17 | 18 41 | 05 14 | 18 44 |
| 26 | 05 22 | 18 34 | 05 20 | 18 37 | 05 17 | 18 39 | 05 14 | 18 43 | 05 11 | 18 46 | 05 07 | 18 49 |
| May 1 | 05 18 | 18 37 | 05 15 | 18 40 | 05 11 | 18 43 | 05 08 | 18 47 | 05 04 | 18 50 | 05 01 | 18 54 |
| 6 | 05 13 | 18 40 | 05 10 | 18 44 | 05 06 | 18 47 | 05 03 | 18 51 | 04 59 | 18 55 | 04 55 | 18 59 |
| 11 | 05 10 | 18 44 | 05 06 | 18 47 | 05 02 | 18 51 | 04 58 | 18 55 | 04 54 | 19 00 | 04 49 | 19 04 |
| 16 | 05 06 | 18 47 | 05 02 | 18 51 | 04 58 | 18 55 | 04 54 | 18 59 | 04 49 | 19 04 | 04 44 | 19 09 |
| 21 | 05 04 | 18 50 | 04 59 | 18 54 | 04 55 | 18 59 | 04 50 | 19 03 | 04 45 | 19 08 | 04 40 | 19 14 |
| 26 | 05 01 | 18 53 | 04 57 | 18 57 | 04 52 | 19 02 | 04 47 | 19 07 | 04 42 | 19 12 | 04 37 | 19 18 |
| 31 | 05 00 | 18 56 | 04 55 | 19 00 | 04 50 | 19 05 | 04 45 | 19 10 | 04 40 | 19 16 | 04 34 | 19 22 |
| June 5 | 04 59 | 18 58 | 04 54 | 19 03 | 04 49 | 19 08 | 04 44 | 19 13 | 04 38 | 19 19 | 04 32 | 19 25 |
| 10 | 04 58 | 19 01 | 04 53 | 19 05 | 04 48 | 19 11 | 04 43 | 19 16 | 04 37 | 19 22 | 04 31 | 19 28 |
| 15 | 04 58 | 19 02 | 04 54 | 19 07 | 04 48 | 19 13 | 04 43 | 19 18 | 04 37 | 19 24 | 04 31 | 19 30 |
| 20 | 04 59 | 19 04 | 04 54 | 19 09 | 04 49 | 19 14 | 04 43 | 19 20 | 04 37 | 19 26 | 04 31 | 19 32 |
| 25 | 05 00 | 19 05 | 04 55 | 19 10 | 04 50 | 19 15 | 04 45 | 19 21 | 04 39 | 19 26 | 04 32 | 19 33 |
| 30 | 05 02 | 19 05 | 04 57 | 19 10 | 04 52 | 19 15 | 04 46 | 19 21 | 04 40 | 19 27 | 04 34 | 19 33 |
| July 5 | 05 04 | 19 05 | 04 59 | 19 10 | 04 54 | 19 15 | 04 49 | 19 20 | 04 43 | 19 26 | 04 37 | 19 32 |
| 10 | 05 06 | 19 04 | 05 02 | 19 09 | 04 57 | 19 14 | 04 51 | 19 19 | 04 46 | 19 25 | 04 40 | 19 30 |
| 15 | 05 09 | 19 03 | 05 04 | 19 07 | 05 00 | 19 12 | 04 55 | 19 17 | 04 49 | 19 22 | 04 43 | 19 28 |
| 20 | 05 12 | 19 01 | 05 07 | 19 05 | 05 03 | 19 10 | 04 58 | 19 14 | 04 53 | 19 19 | 04 47 | 19 25 |
| 25 | 05 15 | 18 58 | 05 10 | 19 02 | 05 06 | 19 06 | 05 02 | 19 11 | 04 57 | 19 16 | 04 52 | 19 21 |
| 30 | 05 18 | 18 55 | 05 14 | 18 59 | 05 10 | 19 03 | 05 05 | 19 07 | 05 01 | 19 11 | 04 56 | 19 16 |
| Aug. 4 | 05 21 | 18 51 | 05 17 | 18 55 | 05 13 | 18 59 | 05 09 | 19 02 | 05 05 | 19 07 | 05 01 | 19 11 |
| 9 | 05 24 | 18 47 | 05 20 | 18 50 | 05 17 | 18 54 | 05 13 | 18 57 | 05 09 | 19 01 | 05 05 | 19 05 |
| 14 | 05 27 | 18 43 | 05 24 | 18 45 | 05 21 | 18 48 | 05 17 | 18 52 | 05 14 | 18 55 | 05 10 | 18 59 |
| 19 | 05 29 | 18 37 | 05 27 | 18 40 | 05 24 | 18 43 | 05 21 | 18 46 | 05 18 | 18 49 | 05 15 | 18 52 |
| 24 | 05 32 | 18 32 | 05 30 | 18 34 | 05 28 | 18 37 | 05 25 | 18 39 | 05 23 | 18 42 | 05 20 | 18 44 |
| 29 | 05 35 | 18 26 | 05 33 | 18 28 | 05 31 | 18 30 | 05 29 | 18 32 | 05 27 | 18 35 | 05 24 | 18 37 |
| Sept. 3 | 05 38 | 18 21 | 05 36 | 18 22 | 05 35 | 18 24 | 05 33 | 18 25 | 05 31 | 18 27 | 05 29 | 18 29 |
| 8 | 05 41 | 18 15 | 05 39 | 18 16 | 05 38 | 18 17 | 05 37 | 18 18 | 05 35 | 18 20 | 05 34 | 18 21 |
| 13 | 05 43 | 18 08 | 05 42 | 18 09 | 05 42 | 18 10 | 05 41 | 18 11 | 05 40 | 18 12 | 05 39 | 18 13 |
| 18 | 05 46 | 18 02 | 05 45 | 18 03 | 05 45 | 18 03 | 05 44 | 18 03 | 05 44 | 18 04 | 05 43 | 18 05 |
| 23 | 05 49 | 17 56 | 05 49 | 17 56 | 05 48 | 17 56 | 05 48 | 17 56 | 05 48 | 17 56 | 05 48 | 17 56 |
| 28 | 05 51 | 17 50 | 05 52 | 17 49 | 05 52 | 17 49 | 05 52 | 17 49 | 05 52 | 17 48 | 05 53 | 17 48 |
| Oct. 3 | 05 54 | 17 44 | 05 55 | 17 43 | 05 56 | 17 42 | 05 56 | 17 41 | 05 57 | 17 41 | 05 58 | 17 40 |
| 8 | 05 57 | 17 38 | 05 58 | 17 37 | 05 59 | 17 35 | 06 00 | 17 34 | 06 02 | 17 33 | 06 03 | 17 32 |
| 13 | 06 00 | 17 32 | 06 02 | 17 31 | 06 03 | 17 29 | 06 05 | 17 27 | 06 06 | 17 26 | 06 08 | 17 24 |
| 18 | 06 04 | 17 26 | 06 05 | 17 25 | 06 07 | 17 23 | 06 09 | 17 21 | 06 11 | 17 19 | 06 13 | 17 17 |
| 23 | 06 07 | 17 21 | 06 09 | 17 19 | 06 11 | 17 17 | 06 14 | 17 15 | 06 16 | 17 12 | 06 18 | 17 10 |
| 28 | 06 11 | 17 17 | 06 13 | 17 14 | 06 16 | 17 12 | 06 18 | 17 09 | 06 21 | 17 06 | 06 24 | 17 03 |
| Nov. 2 | 06 14 | 17 13 | 06 17 | 17 10 | 06 20 | 17 07 | 06 23 | 17 04 | 06 26 | 17 00 | 06 30 | 16 57 |
| 7 | 06 18 | 17 09 | 06 21 | 17 06 | 06 25 | 17 02 | 06 28 | 16 59 | 06 32 | 16 55 | 06 35 | 16 51 |
| 12 | 06 22 | 17 06 | 06 26 | 17 02 | 06 29 | 16 59 | 06 33 | 16 55 | 06 37 | 16 51 | 06 41 | 16 47 |
| 17 | 06 26 | 17 03 | 06 30 | 16 59 | 06 34 | 16 56 | 06 38 | 16 51 | 06 42 | 16 47 | 06 47 | 16 43 |
| 22 | 06 30 | 17 01 | 06 34 | 16 57 | 06 39 | 16 53 | 06 43 | 16 49 | 06 48 | 16 44 | 06 53 | 16 39 |
| 27 | 06 35 | 17 00 | 06 39 | 16 56 | 06 43 | 16 52 | 06 48 | 16 47 | 06 53 | 16 42 | 06 58 | 16 37 |
| Dec. 2 | 06 39 | 17 00 | 06 43 | 16 55 | 06 48 | 16 51 | 06 53 | 16 46 | 06 58 | 16 41 | 07 03 | 16 35 |
| 7 | 06 42 | 17 00 | 06 47 | 16 55 | 06 52 | 16 51 | 06 57 | 16 46 | 07 02 | 16 40 | 07 08 | 16 35 |
| 12 | 06 46 | 17 01 | 06 51 | 16 56 | 06 56 | 16 51 | 07 01 | 16 46 | 07 06 | 16 41 | 07 12 | 16 35 |
| 17 | 06 49 | 17 03 | 06 54 | 16 58 | 06 59 | 16 53 | 07 04 | 16 48 | 07 10 | 16 42 | 07 16 | 16 36 |
| 22 | 06 52 | 17 05 | 06 57 | 17 00 | 07 02 | 16 55 | 07 07 | 16 50 | 07 13 | 16 44 | 07 19 | 16 38 |
| 27 | 06 54 | 17 08 | 06 59 | 17 03 | 07 04 | 16 58 | 07 09 | 16 53 | 07 15 | 16 47 | 07 21 | 16 41 |
| Jan. 1 | 06 56 | 17 11 | 07 00 | 17 06 | 07 05 | 17 01 | 07 11 | 16 56 | 07 16 | 16 51 | 07 22 | 16 45 |

Local mean time. To obtain standard time of rise or set, see table 5.

TABLE 4.-SUNRISE AND SUNSET, 2011

| Date | 42° N. | | 44° N. | | 46° N. | | 48° N. | | 50° N. | | 52° N. | |
|---------|---------------|--------------|---------------|--------------|---------------|--------------|---------------|--------------|---------------|--------------|---------------|--------------|
| | Rise h. m. | Set h. m. | Rise h. m. | Set h. m. | Rise h. m. | Set h. m. | Rise h. m. | Set h. m. | Rise h. m. | Set h. m. | Rise h. m. | Set h. m. |
| Jan. 1 | 07 28 | 16 39 | 07 35 | 16 32 | 07 42 | 16 25 | 07 50 | 16 17 | 07 59 | 16 08 | 08 08 | 15 59 |
| 6 | 07 28 | 16 44 | 07 35 | 16 37 | 07 42 | 16 30 | 07 49 | 16 22 | 07 58 | 16 14 | 08 07 | 16 05 |
| 11 | 07 27 | 16 49 | 07 33 | 16 42 | 07 40 | 16 36 | 07 47 | 16 28 | 07 56 | 16 20 | 08 04 | 16 12 |
| 16 | 07 25 | 16 54 | 07 31 | 16 48 | 07 38 | 16 42 | 07 45 | 16 35 | 07 52 | 16 28 | 08 01 | 16 19 |
| 21 | 07 22 | 17 00 | 07 28 | 16 55 | 07 34 | 16 49 | 07 41 | 16 42 | 07 48 | 16 35 | 07 55 | 16 27 |
| 26 | 07 19 | 17 07 | 07 24 | 17 01 | 07 29 | 16 56 | 07 35 | 16 50 | 07 42 | 16 43 | 07 49 | 16 36 |
| 31 | 07 14 | 17 13 | 07 19 | 17 08 | 07 24 | 17 03 | 07 30 | 16 58 | 07 36 | 16 52 | 07 42 | 16 45 |
| Feb. 5 | 07 09 | 17 19 | 07 13 | 17 15 | 07 18 | 17 11 | 07 23 | 17 06 | 07 28 | 17 00 | 07 34 | 16 55 |
| 10 | 07 03 | 17 26 | 07 07 | 17 22 | 07 11 | 17 18 | 07 15 | 17 14 | 07 20 | 17 09 | 07 25 | 17 04 |
| 15 | 06 57 | 17 32 | 07 00 | 17 29 | 07 03 | 17 26 | 07 07 | 17 22 | 07 11 | 17 18 | 07 16 | 17 13 |
| 20 | 06 50 | 17 39 | 06 52 | 17 36 | 06 55 | 17 33 | 06 59 | 17 30 | 07 02 | 17 26 | 07 06 | 17 23 |
| 25 | 06 42 | 17 45 | 06 44 | 17 42 | 06 47 | 17 40 | 06 49 | 17 38 | 06 52 | 17 35 | 06 55 | 17 32 |
| Mar. 2 | 06 34 | 17 51 | 06 36 | 17 49 | 06 38 | 17 47 | 06 40 | 17 45 | 06 42 | 17 43 | 06 45 | 17 41 |
| 7 | 06 26 | 17 57 | 06 27 | 17 56 | 06 29 | 17 54 | 06 30 | 17 53 | 06 32 | 17 51 | 06 33 | 17 50 |
| 12 | 06 18 | 18 03 | 06 19 | 18 02 | 06 19 | 18 01 | 06 20 | 18 00 | 06 21 | 17 59 | 06 22 | 17 59 |
| 17 | 06 09 | 18 08 | 06 10 | 18 08 | 06 10 | 18 08 | 06 10 | 18 08 | 06 10 | 18 07 | 06 11 | 18 07 |
| 22 | 06 01 | 18 14 | 06 00 | 18 14 | 06 00 | 18 15 | 06 00 | 18 15 | 05 59 | 18 15 | 05 59 | 18 16 |
| 27 | 05 52 | 18 20 | 05 51 | 18 20 | 05 51 | 18 21 | 05 50 | 18 22 | 05 49 | 18 23 | 05 47 | 18 25 |
| Apr. 1 | 05 44 | 18 25 | 05 42 | 18 26 | 05 41 | 18 28 | 05 39 | 18 29 | 05 38 | 18 31 | 05 36 | 18 33 |
| 6 | 05 35 | 18 31 | 05 33 | 18 33 | 05 31 | 18 35 | 05 29 | 18 37 | 05 27 | 18 39 | 05 24 | 18 42 |
| 11 | 05 27 | 18 36 | 05 25 | 18 39 | 05 22 | 18 41 | 05 19 | 18 44 | 05 16 | 18 47 | 05 13 | 18 50 |
| 16 | 05 19 | 18 42 | 05 16 | 18 45 | 05 13 | 18 48 | 05 10 | 18 51 | 05 06 | 18 55 | 05 02 | 18 59 |
| 21 | 05 11 | 18 47 | 05 08 | 18 51 | 05 04 | 18 54 | 05 00 | 18 58 | 04 56 | 19 03 | 04 51 | 19 07 |
| 26 | 05 04 | 18 53 | 05 00 | 18 57 | 04 56 | 19 01 | 04 51 | 19 05 | 04 46 | 19 10 | 04 41 | 19 16 |
| May 1 | 04 57 | 18 58 | 04 52 | 19 03 | 04 48 | 19 07 | 04 43 | 19 12 | 04 37 | 19 18 | 04 31 | 19 24 |
| 6 | 04 50 | 19 04 | 04 45 | 19 09 | 04 40 | 19 14 | 04 35 | 19 19 | 04 29 | 19 26 | 04 22 | 19 32 |
| 11 | 04 44 | 19 09 | 04 39 | 19 14 | 04 33 | 19 20 | 04 27 | 19 26 | 04 21 | 19 33 | 04 13 | 19 41 |
| 16 | 04 39 | 19 14 | 04 33 | 19 20 | 04 27 | 19 26 | 04 21 | 19 33 | 04 13 | 19 40 | 04 05 | 19 48 |
| 21 | 04 35 | 19 19 | 04 28 | 19 25 | 04 22 | 19 32 | 04 15 | 19 39 | 04 07 | 19 47 | 03 58 | 19 56 |
| 26 | 04 31 | 19 24 | 04 24 | 19 30 | 04 17 | 19 37 | 04 10 | 19 45 | 04 01 | 19 53 | 03 52 | 20 03 |
| 31 | 04 28 | 19 28 | 04 21 | 19 35 | 04 14 | 19 42 | 04 06 | 19 50 | 03 57 | 19 59 | 03 47 | 20 09 |
| June 5 | 04 26 | 19 32 | 04 19 | 19 39 | 04 11 | 19 46 | 04 03 | 19 55 | 03 54 | 20 04 | 03 43 | 20 14 |
| 10 | 04 24 | 19 35 | 04 17 | 19 42 | 04 09 | 19 50 | 04 01 | 19 58 | 03 51 | 20 08 | 03 41 | 20 18 |
| 15 | 04 24 | 19 37 | 04 17 | 19 44 | 04 09 | 19 52 | 04 00 | 20 01 | 03 50 | 20 11 | 03 40 | 20 22 |
| 20 | 04 24 | 19 39 | 04 17 | 19 46 | 04 09 | 19 54 | 04 00 | 20 03 | 03 50 | 20 13 | 03 40 | 20 24 |
| 25 | 04 26 | 19 40 | 04 18 | 19 47 | 04 10 | 19 55 | 04 01 | 20 04 | 03 52 | 20 13 | 03 41 | 20 23 |
| 30 | 04 28 | 19 40 | 04 20 | 19 47 | 04 12 | 19 55 | 04 04 | 20 03 | 03 54 | 20 13 | 03 43 | 20 23 |
| July 5 | 04 30 | 19 39 | 04 23 | 19 46 | 04 15 | 19 53 | 04 07 | 20 02 | 03 58 | 20 11 | 03 47 | 20 21 |
| 10 | 04 34 | 19 37 | 04 27 | 19 44 | 04 19 | 19 51 | 04 11 | 19 59 | 04 02 | 20 08 | 03 52 | 20 18 |
| 15 | 04 37 | 19 34 | 04 31 | 19 41 | 04 24 | 19 48 | 04 16 | 19 56 | 04 07 | 20 04 | 03 57 | 20 14 |
| 20 | 04 42 | 19 31 | 04 35 | 19 37 | 04 28 | 19 44 | 04 21 | 19 51 | 04 13 | 19 59 | 04 04 | 20 08 |
| 25 | 04 46 | 19 26 | 04 40 | 19 32 | 04 34 | 19 39 | 04 27 | 19 45 | 04 19 | 19 53 | 04 11 | 20 01 |
| 30 | 04 51 | 19 21 | 04 45 | 19 27 | 04 40 | 19 33 | 04 33 | 19 39 | 04 26 | 19 46 | 04 18 | 19 54 |
| Aug. 4 | 04 56 | 19 16 | 04 51 | 19 21 | 04 45 | 19 26 | 04 39 | 19 32 | 04 33 | 19 38 | 04 26 | 19 45 |
| 9 | 05 01 | 19 09 | 04 57 | 19 14 | 04 52 | 19 19 | 04 46 | 19 24 | 04 40 | 19 30 | 04 34 | 19 36 |
| 14 | 05 06 | 19 02 | 05 02 | 19 07 | 04 58 | 19 11 | 04 53 | 19 16 | 04 48 | 19 21 | 04 42 | 19 27 |
| 19 | 05 12 | 18 55 | 05 08 | 18 59 | 05 04 | 19 03 | 05 00 | 19 07 | 04 55 | 19 11 | 04 50 | 19 16 |
| 24 | 05 17 | 18 47 | 05 14 | 18 51 | 05 10 | 18 54 | 05 06 | 18 58 | 05 02 | 19 01 | 04 58 | 19 06 |
| 29 | 05 22 | 18 39 | 05 19 | 18 42 | 05 16 | 18 45 | 05 13 | 18 48 | 05 10 | 18 51 | 05 06 | 18 55 |
| Sept. 3 | 05 27 | 18 31 | 05 25 | 18 33 | 05 23 | 18 35 | 05 20 | 18 38 | 05 17 | 18 41 | 05 14 | 18 44 |
| 8 | 05 32 | 18 23 | 05 31 | 18 24 | 05 29 | 18 26 | 05 27 | 18 28 | 05 25 | 18 30 | 05 22 | 18 32 |
| 13 | 05 37 | 18 14 | 05 36 | 18 15 | 05 35 | 18 16 | 05 34 | 18 17 | 05 32 | 18 19 | 05 31 | 18 20 |
| 18 | 05 43 | 18 05 | 05 42 | 18 06 | 05 41 | 18 06 | 05 40 | 18 07 | 05 40 | 18 08 | 05 39 | 18 09 |
| 23 | 05 48 | 17 56 | 05 48 | 17 56 | 05 48 | 17 57 | 05 47 | 17 57 | 05 47 | 17 57 | 05 47 | 17 57 |
| 28 | 05 53 | 17 48 | 05 54 | 17 47 | 05 54 | 17 47 | 05 54 | 17 46 | 05 55 | 17 46 | 05 55 | 17 45 |
| Oct. 3 | 05 59 | 17 39 | 05 59 | 17 38 | 06 00 | 17 37 | 06 01 | 17 36 | 06 02 | 17 35 | 06 03 | 17 34 |
| 8 | 06 04 | 17 31 | 06 05 | 17 29 | 06 07 | 17 28 | 06 08 | 17 26 | 06 10 | 17 24 | 06 12 | 17 22 |
| 13 | 06 10 | 17 22 | 06 11 | 17 20 | 06 13 | 17 18 | 06 16 | 17 16 | 06 18 | 17 14 | 06 20 | 17 11 |
| 18 | 06 15 | 17 14 | 06 18 | 17 12 | 06 20 | 17 09 | 06 23 | 17 07 | 06 26 | 17 04 | 06 29 | 17 00 |
| 23 | 06 21 | 17 07 | 06 24 | 17 04 | 06 27 | 17 01 | 06 30 | 16 58 | 06 34 | 16 54 | 06 38 | 16 50 |
| 28 | 06 27 | 17 00 | 06 31 | 16 56 | 06 34 | 16 53 | 06 38 | 16 49 | 06 42 | 16 45 | 06 47 | 16 40 |
| Nov. 2 | 06 33 | 16 53 | 06 37 | 16 49 | 06 41 | 16 45 | 06 46 | 16 41 | 06 51 | 16 36 | 06 56 | 16 31 |
| 7 | 06 39 | 16 47 | 06 44 | 16 43 | 06 48 | 16 38 | 06 53 | 16 33 | 06 59 | 16 28 | 07 05 | 16 22 |
| 12 | 06 46 | 16 42 | 06 50 | 16 37 | 06 56 | 16 32 | 07 01 | 16 27 | 07 07 | 16 20 | 07 14 | 16 14 |
| 17 | 06 52 | 16 38 | 06 57 | 16 32 | 07 03 | 16 27 | 07 09 | 16 21 | 07 15 | 16 14 | 07 23 | 16 07 |
| 22 | 06 58 | 16 34 | 07 03 | 16 28 | 07 09 | 16 22 | 07 16 | 16 16 | 07 23 | 16 08 | 07 31 | 16 01 |
| 27 | 07 04 | 16 31 | 07 09 | 16 25 | 07 16 | 16 19 | 07 23 | 16 12 | 07 31 | 16 04 | 07 39 | 15 56 |
| Dec. 2 | 07 09 | 16 29 | 07 15 | 16 23 | 07 22 | 16 16 | 07 29 | 16 09 | 07 37 | 16 01 | 07 46 | 15 52 |
| 7 | 07 14 | 16 28 | 07 20 | 16 22 | 07 27 | 16 15 | 07 35 | 16 07 | 07 44 | 15 59 | 07 53 | 15 49 |
| 12 | 07 18 | 16 29 | 07 25 | 16 22 | 07 32 | 16 15 | 07 40 | 16 07 | 07 49 | 15 58 | 07 59 | 15 48 |
| 17 | 07 22 | 16 30 | 07 29 | 16 23 | 07 36 | 16 16 | 07 44 | 16 08 | 07 53 | 15 59 | 08 03 | 15 49 |
| 22 | 07 25 | 16 32 | 07 32 | 16 25 | 07 39 | 16 18 | 07 47 | 16 10 | 07 56 | 16 01 | 08 06 | 15 51 |
| 27 | 07 27 | 16 35 | 07 34 | 16 28 | 07 41 | 16 21 | 07 49 | 16 13 | 07 58 | 16 04 | 08 08 | 15 54 |
| Jan. 1 | 07 28 | 16 39 | 07 35 | 16 32 | 07 42 | 16 25 | 07 50 | 16 17 | 07 59 | 16 08 | 08 08 | 15 59 |

Local mean time. To obtain standard time of rise or set, see table 5.

TABLE 4.-SUNRISE AND SUNSET, 2011

| Date | 54° N. | | 56° N. | | 58° N. | | 60° N. | | 62° N. | | 64° N. | |
|---------|---------------|--------------|---------------|--------------|---------------|--------------|---------------|--------------|---------------|--------------|---------------|--------------|
| | Rise h. m. | Set h. m. | Rise h. m. | Set h. m. | Rise h. m. | Set h. m. | Rise h. m. | Set h. m. | Rise h. m. | Set h. m. | Rise h. m. | Set h. m. |
| Jan. 1 | 08 19 | 15 48 | 08 31 | 15 36 | 08 46 | 15 22 | 09 02 | 15 05 | 09 23 | 14 44 | 09 50 | 14 17 |
| 6 | 08 17 | 15 54 | 08 29 | 15 42 | 08 43 | 15 29 | 08 59 | 15 13 | 09 19 | 14 53 | 09 44 | 14 28 |
| 11 | 08 14 | 16 02 | 08 26 | 15 50 | 08 39 | 15 37 | 08 54 | 15 22 | 09 12 | 15 04 | 09 35 | 14 41 |
| 16 | 08 10 | 16 10 | 08 20 | 15 59 | 08 33 | 15 47 | 08 47 | 15 33 | 09 03 | 15 17 | 09 24 | 14 56 |
| 21 | 08 04 | 16 19 | 08 14 | 16 09 | 08 25 | 15 58 | 08 38 | 15 45 | 08 53 | 15 30 | 09 12 | 15 12 |
| 26 | 07 57 | 16 28 | 08 06 | 16 19 | 08 16 | 16 09 | 08 28 | 15 58 | 08 42 | 15 44 | 08 58 | 15 28 |
| 31 | 07 49 | 16 38 | 07 57 | 16 30 | 08 07 | 16 21 | 08 17 | 16 11 | 08 29 | 15 59 | 08 43 | 15 44 |
| Feb. 5 | 07 41 | 16 48 | 07 48 | 16 41 | 07 56 | 16 33 | 08 05 | 16 24 | 08 16 | 16 13 | 08 28 | 16 01 |
| 10 | 07 31 | 16 58 | 07 37 | 16 52 | 07 44 | 16 45 | 07 52 | 16 37 | 08 02 | 16 28 | 08 12 | 16 17 |
| 15 | 07 21 | 17 08 | 07 26 | 17 03 | 07 32 | 16 57 | 07 39 | 16 50 | 07 47 | 16 42 | 07 56 | 16 33 |
| 20 | 07 10 | 17 18 | 07 15 | 17 14 | 07 20 | 17 09 | 07 25 | 17 03 | 07 32 | 16 57 | 07 39 | 16 49 |
| 25 | 06 59 | 17 28 | 07 02 | 17 25 | 07 07 | 17 21 | 07 11 | 17 16 | 07 16 | 17 11 | 07 22 | 17 05 |
| Mar. 2 | 06 47 | 17 38 | 06 50 | 17 35 | 06 53 | 17 32 | 06 57 | 17 29 | 07 01 | 17 25 | 07 05 | 17 20 |
| 7 | 06 35 | 17 48 | 06 37 | 17 46 | 06 40 | 17 44 | 06 42 | 17 41 | 06 45 | 17 39 | 06 48 | 17 36 |
| 12 | 06 23 | 17 58 | 06 24 | 17 56 | 06 26 | 17 55 | 06 27 | 17 54 | 06 29 | 17 52 | 06 31 | 17 51 |
| 17 | 06 11 | 18 07 | 06 11 | 18 07 | 06 12 | 18 07 | 06 12 | 18 06 | 06 12 | 18 06 | 06 13 | 18 06 |
| 22 | 05 59 | 18 16 | 05 58 | 18 17 | 05 58 | 18 18 | 05 57 | 18 18 | 05 56 | 18 19 | 05 55 | 18 20 |
| 27 | 05 46 | 18 26 | 05 45 | 18 27 | 05 43 | 18 29 | 05 42 | 18 31 | 05 40 | 18 33 | 05 38 | 18 35 |
| Apr. 1 | 05 34 | 18 35 | 05 32 | 18 37 | 05 29 | 18 40 | 05 27 | 18 43 | 05 24 | 18 46 | 05 20 | 18 50 |
| 6 | 05 22 | 18 44 | 05 19 | 18 48 | 05 15 | 18 51 | 05 12 | 18 55 | 05 07 | 19 00 | 05 02 | 19 05 |
| 11 | 05 10 | 18 54 | 05 06 | 18 58 | 05 01 | 19 02 | 04 57 | 19 07 | 04 51 | 19 13 | 04 45 | 19 20 |
| 16 | 04 58 | 19 03 | 04 53 | 19 08 | 04 48 | 19 13 | 04 42 | 19 20 | 04 35 | 19 27 | 04 27 | 19 35 |
| 21 | 04 46 | 19 12 | 04 41 | 19 18 | 04 34 | 19 25 | 04 27 | 19 32 | 04 19 | 19 40 | 04 09 | 19 50 |
| 26 | 04 35 | 19 22 | 04 29 | 19 28 | 04 21 | 19 36 | 04 13 | 19 44 | 04 03 | 19 54 | 03 52 | 20 06 |
| May 1 | 04 25 | 19 31 | 04 17 | 19 39 | 04 09 | 19 47 | 03 59 | 19 57 | 03 48 | 20 08 | 03 35 | 20 22 |
| 6 | 04 14 | 19 40 | 04 06 | 19 49 | 03 57 | 19 58 | 03 46 | 20 09 | 03 33 | 20 22 | 03 18 | 20 38 |
| 11 | 04 05 | 19 49 | 03 56 | 19 58 | 03 45 | 20 09 | 03 33 | 20 21 | 03 19 | 20 36 | 03 01 | 20 54 |
| 16 | 03 56 | 19 58 | 03 46 | 20 08 | 03 35 | 20 20 | 03 21 | 20 33 | 03 05 | 20 50 | 02 45 | 21 10 |
| 21 | 03 49 | 20 06 | 03 38 | 20 17 | 03 25 | 20 30 | 03 10 | 20 45 | 02 52 | 21 03 | 02 30 | 21 26 |
| 26 | 03 42 | 20 13 | 03 30 | 20 25 | 03 16 | 20 39 | 03 00 | 20 55 | 02 40 | 21 16 | 02 15 | 21 41 |
| 31 | 03 36 | 20 20 | 03 24 | 20 33 | 03 09 | 20 47 | 02 51 | 21 05 | 02 30 | 21 27 | 02 01 | 21 56 |
| June 5 | 03 32 | 20 26 | 03 19 | 20 39 | 03 03 | 20 55 | 02 45 | 21 13 | 02 21 | 21 37 | 01 50 | 22 09 |
| 10 | 03 29 | 20 30 | 03 15 | 20 44 | 02 59 | 21 00 | 02 39 | 21 20 | 02 15 | 21 45 | 01 40 | 22 20 |
| 15 | 03 27 | 20 34 | 03 13 | 20 48 | 02 57 | 21 05 | 02 36 | 21 25 | 02 11 | 21 51 | 01 34 | 22 28 |
| 20 | 03 27 | 20 36 | 03 13 | 20 50 | 02 56 | 21 07 | 02 36 | 21 27 | 02 09 | 21 54 | 01 31 | 22 32 |
| 25 | 03 29 | 20 36 | 03 14 | 20 51 | 02 58 | 21 07 | 02 37 | 21 28 | 02 11 | 21 54 | 01 33 | 22 32 |
| 30 | 03 31 | 20 36 | 03 17 | 20 49 | 03 01 | 21 06 | 02 41 | 21 26 | 02 15 | 21 51 | 01 39 | 22 27 |
| July 5 | 03 35 | 20 33 | 03 22 | 20 47 | 03 06 | 21 03 | 02 47 | 21 22 | 02 22 | 21 46 | 01 49 | 22 19 |
| 10 | 03 41 | 20 29 | 03 27 | 20 42 | 03 12 | 20 57 | 02 54 | 21 16 | 02 31 | 21 38 | 02 01 | 22 08 |
| 15 | 03 47 | 20 24 | 03 34 | 20 37 | 03 20 | 20 51 | 03 03 | 21 08 | 02 42 | 21 28 | 02 14 | 21 55 |
| 20 | 03 54 | 20 18 | 03 42 | 20 30 | 03 29 | 20 43 | 03 13 | 20 58 | 02 54 | 21 17 | 02 29 | 21 41 |
| 25 | 04 01 | 20 11 | 03 50 | 20 21 | 03 38 | 20 34 | 03 24 | 20 48 | 03 06 | 21 05 | 02 45 | 21 26 |
| 30 | 04 09 | 20 02 | 03 59 | 20 12 | 03 48 | 20 23 | 03 35 | 20 36 | 03 20 | 20 51 | 03 01 | 21 10 |
| Aug. 4 | 04 18 | 19 53 | 04 09 | 20 02 | 03 59 | 20 12 | 03 47 | 20 24 | 03 33 | 20 37 | 03 16 | 20 54 |
| 9 | 04 26 | 19 43 | 04 18 | 19 51 | 04 09 | 20 00 | 03 59 | 20 11 | 03 47 | 20 23 | 03 32 | 20 37 |
| 14 | 04 35 | 19 33 | 04 28 | 19 40 | 04 20 | 19 48 | 04 11 | 19 57 | 04 00 | 20 07 | 03 48 | 20 20 |
| 19 | 04 44 | 19 22 | 04 38 | 19 28 | 04 31 | 19 35 | 04 23 | 19 43 | 04 14 | 19 52 | 04 03 | 20 02 |
| 24 | 04 53 | 19 11 | 04 48 | 19 16 | 04 42 | 19 22 | 04 35 | 19 28 | 04 27 | 19 36 | 04 18 | 19 45 |
| 29 | 05 02 | 18 59 | 04 58 | 19 03 | 04 52 | 19 08 | 04 47 | 19 14 | 04 40 | 19 20 | 04 33 | 19 27 |
| Sept. 3 | 05 11 | 18 47 | 05 07 | 18 50 | 05 03 | 18 54 | 04 59 | 18 59 | 04 53 | 19 04 | 04 47 | 19 10 |
| 8 | 05 20 | 18 35 | 05 17 | 18 37 | 05 14 | 18 40 | 05 10 | 18 44 | 05 06 | 18 47 | 05 02 | 18 52 |
| 13 | 05 29 | 18 22 | 05 27 | 18 24 | 05 25 | 18 26 | 05 22 | 18 28 | 05 19 | 18 31 | 05 16 | 18 34 |
| 18 | 05 38 | 18 10 | 05 37 | 18 11 | 05 35 | 18 12 | 05 34 | 18 13 | 05 32 | 18 15 | 05 30 | 18 16 |
| 23 | 05 47 | 17 57 | 05 46 | 17 57 | 05 46 | 17 58 | 05 46 | 17 58 | 05 45 | 17 58 | 05 45 | 17 59 |
| 28 | 05 56 | 17 45 | 05 56 | 17 44 | 05 57 | 17 44 | 05 57 | 17 43 | 05 58 | 17 42 | 05 59 | 17 41 |
| Oct. 3 | 06 05 | 17 33 | 06 06 | 17 31 | 06 08 | 17 30 | 06 09 | 17 28 | 06 11 | 17 26 | 06 13 | 17 24 |
| 8 | 06 14 | 17 20 | 06 16 | 17 18 | 06 19 | 17 16 | 06 21 | 17 13 | 06 24 | 17 10 | 06 28 | 17 06 |
| 13 | 06 23 | 17 08 | 06 26 | 17 05 | 06 30 | 17 02 | 06 33 | 16 58 | 06 38 | 16 54 | 06 42 | 16 49 |
| 18 | 06 33 | 16 57 | 06 37 | 16 53 | 06 41 | 16 49 | 06 46 | 16 44 | 06 51 | 16 38 | 06 57 | 16 32 |
| 23 | 06 42 | 16 46 | 06 47 | 16 41 | 06 52 | 16 35 | 06 58 | 16 29 | 07 05 | 16 23 | 07 13 | 16 15 |
| 28 | 06 52 | 16 35 | 06 58 | 16 29 | 07 04 | 16 23 | 07 11 | 16 16 | 07 19 | 16 08 | 07 28 | 15 58 |
| Nov. 2 | 07 02 | 16 25 | 07 08 | 16 18 | 07 15 | 16 11 | 07 24 | 16 03 | 07 33 | 15 53 | 07 44 | 15 42 |
| 7 | 07 11 | 16 15 | 07 19 | 16 08 | 07 27 | 15 59 | 07 37 | 15 50 | 07 47 | 15 39 | 08 00 | 15 26 |
| 12 | 07 21 | 16 06 | 07 29 | 15 58 | 07 39 | 15 49 | 07 49 | 15 38 | 08 02 | 15 26 | 08 16 | 15 11 |
| 17 | 07 31 | 15 59 | 07 40 | 15 49 | 07 50 | 15 39 | 08 02 | 15 27 | 08 16 | 15 13 | 08 32 | 14 56 |
| 22 | 07 40 | 15 52 | 07 50 | 15 42 | 08 01 | 15 30 | 08 14 | 15 17 | 08 30 | 15 02 | 08 48 | 14 43 |
| 27 | 07 48 | 15 46 | 07 59 | 15 35 | 08 11 | 15 23 | 08 26 | 15 09 | 08 43 | 14 52 | 09 04 | 14 31 |
| Dec. 2 | 07 56 | 15 42 | 08 08 | 15 30 | 08 21 | 15 17 | 08 36 | 15 02 | 08 55 | 14 44 | 09 18 | 14 20 |
| 7 | 08 03 | 15 39 | 08 15 | 15 27 | 08 29 | 15 13 | 08 45 | 14 57 | 09 05 | 14 37 | 09 30 | 14 12 |
| 12 | 08 09 | 15 38 | 08 22 | 15 25 | 08 36 | 15 11 | 08 53 | 14 54 | 09 14 | 14 33 | 09 41 | 14 06 |
| 17 | 08 14 | 15 38 | 08 27 | 15 25 | 08 41 | 15 10 | 08 59 | 14 53 | 09 20 | 14 32 | 09 48 | 14 04 |
| 22 | 08 17 | 15 40 | 08 30 | 15 27 | 08 45 | 15 12 | 09 02 | 14 55 | 09 24 | 14 33 | 09 52 | 14 04 |
| 27 | 08 19 | 15 43 | 08 31 | 15 30 | 08 46 | 15 16 | 09 04 | 14 58 | 09 25 | 14 37 | 09 53 | 14 09 |
| Jan. 1 | 08 19 | 15 48 | 08 31 | 15 36 | 08 46 | 15 21 | 09 02 | 15 04 | 09 23 | 14 44 | 09 50 | 14 17 |

Local mean time. To obtain standard time of rise or set, see table 5.

TABLE 4.-SUNRISE AND SUNSET, 2011

| Date | 66° N. | | 68° N. | | 70° N. | | 72° N. | | 74° N. | | 76° N. | |
|---------|-------------------|--------------|------------------------------------|--------------|-------------------------------------|--------------|-------------------------------------|--------------|------------------------------------|--------------|------------------------------------|--------------|
| | Rise h. m. | Set h. m. | Rise h. m. | Set h. m. | Rise h. m. | Set h. m. | Rise h. m. | Set h. m. | Rise h. m. | Set h. m. | Rise h. m. | Set h. m. |
| Jan. 1 | 10 28 | 13 39 | Rises 3 Jan | | Sun does not rise until 17 January | | Sun does not rise until 26 January | | Sun does not rise until 2 February | | Sun does not rise until 9 February | |
| 6 | 10 18 | 13 54 | 11 24 | 12 48 | | | | | | | | |
| 11 | 10 05 | 14 11 | 10 54 | 13 22 | | | | | | | | |
| 16 | 09 51 | 14 29 | 10 30 | 13 50 | | | | | | | | |
| 21 | 09 35 | 14 48 | 10 07 | 14 17 | 10 59 | 13 24 | .. .. | .. .. | .. .. | .. .. | .. .. | .. .. |
| 26 | 09 18 | 15 08 | 09 45 | 14 41 | 10 23 | 14 03 | 11 47 | 12 39 | .. .. | .. .. | .. .. | .. .. |
| 31 | 09 01 | 15 27 | 09 23 | 15 05 | 09 53 | 14 35 | 10 39 | 13 49 | .. .. | .. .. | .. .. | .. .. |
| Feb. 5 | 08 43 | 15 46 | 09 02 | 15 27 | 09 26 | 15 04 | 09 59 | 14 30 | 10 56 | 13 34 | .. .. | .. .. |
| 10 | 08 25 | 16 05 | 08 41 | 15 49 | 09 00 | 15 30 | 09 26 | 15 04 | 10 03 | 14 27 | 11 14 | 13 16 |
| 15 | 08 07 | 16 23 | 08 20 | 16 10 | 08 35 | 15 54 | 08 56 | 15 34 | 09 23 | 15 07 | 10 04 | 14 26 |
| 20 | 07 48 | 16 41 | 07 59 | 16 30 | 08 11 | 16 18 | 08 27 | 16 02 | 08 48 | 15 41 | 09 17 | 15 13 |
| 25 | 07 29 | 16 58 | 07 38 | 16 50 | 07 48 | 16 40 | 08 00 | 16 28 | 08 16 | 16 13 | 08 37 | 15 52 |
| Mar. 2 | 07 11 | 17 15 | 07 17 | 17 09 | 07 24 | 17 02 | 07 33 | 16 53 | 07 45 | 16 42 | 08 00 | 16 27 |
| 7 | 06 52 | 17 32 | 06 56 | 17 28 | 07 01 | 17 23 | 07 07 | 17 17 | 07 15 | 17 09 | 07 25 | 17 00 |
| 12 | 06 33 | 17 49 | 06 35 | 17 46 | 06 38 | 17 44 | 06 42 | 17 40 | 06 46 | 17 36 | 06 51 | 17 31 |
| 17 | 06 14 | 18 05 | 06 14 | 18 05 | 06 15 | 18 04 | 06 16 | 18 03 | 06 17 | 18 03 | 06 18 | 18 02 |
| 22 | 05 54 | 18 21 | 05 53 | 18 23 | 05 52 | 18 24 | 05 50 | 18 26 | 05 48 | 18 29 | 05 45 | 18 32 |
| 27 | 05 35 | 18 38 | 05 32 | 18 41 | 05 29 | 18 45 | 05 24 | 18 49 | 05 19 | 18 55 | 05 12 | 19 03 |
| Apr. 1 | 05 16 | 18 54 | 05 11 | 18 59 | 05 05 | 19 05 | 04 58 | 19 13 | 04 49 | 19 22 | 04 38 | 19 35 |
| 6 | 04 56 | 19 11 | 04 50 | 19 18 | 04 41 | 19 26 | 04 31 | 19 37 | 04 19 | 19 50 | 04 02 | 20 08 |
| 11 | 04 37 | 19 27 | 04 28 | 19 37 | 04 17 | 19 48 | 04 04 | 20 02 | 03 47 | 20 20 | 03 23 | 20 45 |
| 16 | 04 18 | 19 44 | 04 07 | 19 56 | 03 53 | 20 10 | 03 36 | 20 28 | 03 13 | 20 52 | 02 40 | 21 27 |
| 21 | 03 58 | 20 02 | 03 45 | 20 16 | 03 28 | 20 33 | 03 06 | 20 56 | 02 35 | 21 29 | 01 47 | 22 22 |
| 26 | 03 39 | 20 20 | 03 22 | 20 37 | 03 01 | 20 58 | 02 33 | 21 28 | 01 50 | 22 14 | .. .. | .. .. |
| May 1 | 03 19 | 20 38 | 02 59 | 20 58 | 02 33 | 21 25 | 01 56 | 22 05 | 00 40 | .. .. | .. .. | .. .. |
| 6 | 02 59 | 20 57 | 02 36 | 21 21 | 02 03 | 21 56 | 01 06 | 22 59 | .. .. | .. .. | .. .. | .. .. |
| 11 | 02 40 | 21 16 | 02 11 | 21 46 | 01 26 | 22 34 | .. .. | .. .. | .. .. | .. .. | .. .. | .. .. |
| 16 | 02 20 | 21 36 | 01 44 | 22 14 | 00 30 | .. .. | .. .. | .. .. | .. .. | .. .. | .. .. | .. .. |
| 21 | 02 00 | 21 57 | 01 12 | 22 47 | .. .. | .. .. | .. .. | .. .. | .. .. | .. .. | .. .. | .. .. |
| 26 | 01 39 | 22 18 | 00 24 | .. .. | .. .. | .. .. | .. .. | .. .. | .. .. | .. .. | .. .. | .. .. |
| 31 | 01 18 | 22 41 | .. .. | .. .. | .. .. | .. .. | .. .. | .. .. | .. .. | .. .. | .. .. | .. .. |
| June 5 | 00 56 | 23 05 | | | | | | | | | | |
| 10 | 00 31 | 23 34 | | | | | | | | | | |
| 15 | Sun rises 12 June | | Sun rises 26 May | | Sun rises 16 May | | Sun rises 8 May | | Sun rises 1 May | | Sun rises 25 April | |
| 20 | | | Sun sets 17 July | | Sun sets 27 July | | Sun sets 4 August | | Sun sets 11 August | | Sun sets 18 August | |
| 25 | | | | | | | | | | | | |
| 30 | .. .. | 23 51 | | | | | | | | | | |
| July 5 | 00 45 | 23 19 | .. .. | .. .. | .. .. | .. .. | .. .. | .. .. | .. .. | .. .. | .. .. | .. .. |
| 10 | 01 11 | 22 56 | .. .. | .. .. | .. .. | .. .. | .. .. | .. .. | .. .. | .. .. | .. .. | .. .. |
| 15 | 01 34 | 22 34 | .. .. | .. .. | .. .. | .. .. | .. .. | .. .. | .. .. | .. .. | .. .. | .. .. |
| 20 | 01 55 | 22 14 | 00 53 | 23 11 | .. .. | .. .. | .. .. | .. .. | .. .. | .. .. | .. .. | .. .. |
| 25 | 02 16 | 21 54 | 01 33 | 22 35 | .. .. | .. .. | .. .. | .. .. | .. .. | .. .. | .. .. | .. .. |
| 30 | 02 36 | 21 34 | 02 02 | 22 06 | 01 02 | 23 01 | .. .. | .. .. | .. .. | .. .. | .. .. | .. .. |
| Aug. 4 | 02 56 | 21 14 | 02 28 | 21 40 | 01 48 | 22 18 | .. .. | 23 48 | .. .. | .. .. | .. .. | .. .. |
| 9 | 03 14 | 20 54 | 02 52 | 21 16 | 02 21 | 21 45 | 01 31 | 22 31 | .. .. | .. .. | .. .. | .. .. |
| 14 | 03 32 | 20 34 | 03 14 | 20 53 | 02 49 | 21 16 | 02 14 | 21 49 | 01 12 | 22 44 | .. .. | .. .. |
| 19 | 03 50 | 20 15 | 03 34 | 20 30 | 03 15 | 20 49 | 02 48 | 21 14 | 02 09 | 21 51 | 00 46 | 22 59 |
| 24 | 04 07 | 19 55 | 03 54 | 20 08 | 03 38 | 20 23 | 03 17 | 20 43 | 02 49 | 21 10 | 02 05 | 21 50 |
| 29 | 04 24 | 19 36 | 04 13 | 19 46 | 04 00 | 19 58 | 03 44 | 20 14 | 03 23 | 20 34 | 02 53 | 21 03 |
| Sept. 3 | 04 40 | 19 16 | 04 32 | 19 24 | 04 22 | 19 34 | 04 09 | 19 46 | 03 53 | 20 02 | 03 31 | 20 22 |
| 8 | 04 56 | 18 57 | 04 50 | 19 03 | 04 43 | 19 10 | 04 33 | 19 19 | 04 21 | 19 31 | 04 06 | 19 45 |
| 13 | 05 12 | 18 38 | 05 08 | 18 42 | 05 03 | 18 47 | 04 56 | 18 53 | 04 48 | 19 01 | 04 38 | 19 10 |
| 18 | 05 28 | 18 18 | 05 26 | 18 21 | 05 23 | 18 24 | 05 19 | 18 27 | 05 14 | 18 31 | 05 08 | 18 37 |
| 23 | 05 44 | 17 59 | 05 43 | 18 00 | 05 42 | 18 00 | 05 41 | 18 01 | 05 40 | 18 02 | 05 38 | 18 04 |
| 28 | 06 00 | 17 40 | 06 01 | 17 39 | 06 02 | 17 37 | 06 03 | 17 36 | 06 05 | 17 34 | 06 08 | 17 31 |
| Oct. 3 | 06 16 | 17 21 | 06 18 | 17 18 | 06 22 | 17 14 | 06 26 | 17 10 | 06 31 | 17 05 | 06 38 | 16 58 |
| 8 | 06 32 | 17 02 | 06 36 | 16 57 | 06 42 | 16 51 | 06 49 | 16 44 | 06 57 | 16 36 | 07 09 | 16 24 |
| 13 | 06 48 | 16 43 | 06 55 | 16 36 | 07 03 | 16 28 | 07 13 | 16 18 | 07 25 | 16 06 | 07 41 | 15 49 |
| 18 | 07 05 | 16 24 | 07 13 | 16 15 | 07 24 | 16 05 | 07 37 | 15 52 | 07 54 | 15 35 | 08 16 | 15 12 |
| 23 | 07 22 | 16 06 | 07 33 | 15 55 | 07 46 | 15 41 | 08 03 | 15 24 | 08 25 | 15 02 | 08 56 | 14 31 |
| 28 | 07 39 | 15 47 | 07 53 | 15 34 | 08 09 | 15 17 | 08 30 | 14 56 | 09 00 | 14 26 | 09 45 | 13 41 |
| Nov. 2 | 07 57 | 15 29 | 08 13 | 15 13 | 08 34 | 14 52 | 09 01 | 14 25 | 09 41 | 13 45 | 11 13 | 12 13 |
| 7 | 08 16 | 15 11 | 08 35 | 14 51 | 09 00 | 14 26 | 09 35 | 13 51 | 10 39 | 12 47 | .. .. | .. .. |
| 12 | 08 34 | 14 53 | 08 57 | 14 30 | 09 28 | 13 59 | 10 18 | 13 09 | .. .. | .. .. | .. .. | .. .. |
| 17 | 08 53 | 14 36 | 09 20 | 14 08 | 10 00 | 13 28 | .. .. | .. .. | .. .. | .. .. | .. .. | .. .. |
| 22 | 09 12 | 14 19 | 09 45 | 13 46 | 10 41 | 12 50 | .. .. | .. .. | .. .. | .. .. | .. .. | .. .. |
| 27 | 09 31 | 14 03 | 10 11 | 13 23 | .. .. | .. .. | .. .. | .. .. | .. .. | .. .. | .. .. | .. .. |
| Dec. 2 | 09 49 | 13 49 | 10 40 | 12 58 | .. .. | .. .. | .. .. | .. .. | .. .. | .. .. | .. .. | .. .. |
| 7 | 10 06 | 13 37 | 11 15 | 12 27 | .. .. | .. .. | .. .. | .. .. | .. .. | .. .. | .. .. | .. .. |
| 12 | 10 20 | 13 27 | | | | | | | | | | |
| 17 | 10 30 | 13 22 | Sun does not rise after 9 December | | Sun does not rise after 25 November | | Sun does not rise after 16 November | | Sun does not rise after 9 November | | Sun does not rise after 2 November | |
| 22 | 10 35 | 13 22 | | | | | | | | | | |
| 27 | 10 34 | 13 28 | | | | | | | | | | |
| Jan. 1 | 10 29 | 13 38 | .. .. | .. .. | .. .. | .. .. | .. .. | .. .. | .. .. | .. .. | .. .. | .. .. |

Local mean time. To obtain standard time of rise or set, see table 5.

TABLE 4.-SUNRISE AND SUNSET, 2011

| Date | 0° | | 5° S. | | 10° S. | | 15° S. | | 20° S. | | 25° S. | |
|---------|---------------|--------------|---------------|--------------|---------------|--------------|---------------|--------------|---------------|--------------|---------------|--------------|
| | Rise h. m. | Set h. m. | Rise h. m. | Set h. m. | Rise h. m. | Set h. m. | Rise h. m. | Set h. m. | Rise h. m. | Set h. m. | Rise h. m. | Set h. m. |
| Jan. 1 | 06 00 | 18 07 | 05 51 | 18 16 | 05 42 | 18 24 | 05 33 | 18 33 | 05 24 | 18 43 | 05 13 | 18 53 |
| 6 | 06 02 | 18 09 | 05 54 | 18 18 | 05 45 | 18 26 | 05 36 | 18 35 | 05 27 | 18 44 | 05 17 | 18 54 |
| 11 | 06 04 | 18 12 | 05 56 | 18 20 | 05 48 | 18 28 | 05 39 | 18 36 | 05 30 | 18 45 | 05 21 | 18 55 |
| 16 | 06 06 | 18 13 | 05 58 | 18 21 | 05 50 | 18 29 | 05 42 | 18 37 | 05 34 | 18 46 | 05 24 | 18 55 |
| 21 | 06 08 | 18 15 | 06 00 | 18 22 | 05 53 | 18 30 | 05 45 | 18 37 | 05 37 | 18 45 | 05 28 | 18 54 |
| 26 | 06 09 | 18 16 | 06 02 | 18 23 | 05 55 | 18 30 | 05 48 | 18 37 | 05 40 | 18 45 | 05 32 | 18 53 |
| 31 | 06 10 | 18 17 | 06 04 | 18 23 | 05 57 | 18 30 | 05 50 | 18 36 | 05 43 | 18 43 | 05 36 | 18 51 |
| Feb. 5 | 06 10 | 18 17 | 06 05 | 18 23 | 05 59 | 18 29 | 05 53 | 18 35 | 05 46 | 18 41 | 05 39 | 18 48 |
| 10 | 06 11 | 18 18 | 06 06 | 18 23 | 06 00 | 18 28 | 05 55 | 18 33 | 05 49 | 18 39 | 05 43 | 18 45 |
| 15 | 06 11 | 18 18 | 06 06 | 18 22 | 06 01 | 18 27 | 05 57 | 18 31 | 05 52 | 18 36 | 05 46 | 18 42 |
| 20 | 06 10 | 18 17 | 06 06 | 18 21 | 06 02 | 18 25 | 05 58 | 18 29 | 05 54 | 18 33 | 05 49 | 18 38 |
| 25 | 06 10 | 18 16 | 06 06 | 18 20 | 06 03 | 18 23 | 06 00 | 18 26 | 05 56 | 18 30 | 05 52 | 18 34 |
| Mar. 2 | 06 09 | 18 15 | 06 06 | 18 18 | 06 04 | 18 21 | 06 01 | 18 23 | 05 58 | 18 26 | 05 55 | 18 29 |
| 7 | 06 08 | 18 14 | 06 06 | 18 16 | 06 04 | 18 18 | 06 02 | 18 20 | 06 00 | 18 22 | 05 57 | 18 24 |
| 12 | 06 07 | 18 13 | 06 05 | 18 14 | 06 04 | 18 15 | 06 03 | 18 17 | 06 01 | 18 18 | 06 00 | 18 20 |
| 17 | 06 05 | 18 12 | 06 05 | 18 12 | 06 04 | 18 13 | 06 03 | 18 13 | 06 03 | 18 14 | 06 02 | 18 14 |
| 22 | 06 04 | 18 10 | 06 04 | 18 10 | 06 04 | 18 10 | 06 04 | 18 10 | 06 04 | 18 09 | 06 04 | 18 09 |
| 27 | 06 02 | 18 09 | 06 03 | 18 08 | 06 04 | 18 07 | 06 05 | 18 06 | 06 06 | 18 05 | 06 06 | 18 04 |
| Apr. 1 | 06 01 | 18 07 | 06 02 | 18 06 | 06 04 | 18 04 | 06 05 | 18 02 | 06 07 | 18 01 | 06 09 | 17 59 |
| 6 | 05 59 | 18 06 | 06 01 | 18 04 | 06 04 | 18 01 | 06 06 | 17 59 | 06 08 | 17 56 | 06 11 | 17 54 |
| 11 | 05 58 | 18 04 | 06 01 | 18 01 | 06 04 | 17 59 | 06 07 | 17 56 | 06 10 | 17 52 | 06 13 | 17 49 |
| 16 | 05 57 | 18 03 | 06 00 | 18 00 | 06 04 | 17 56 | 06 07 | 17 52 | 06 11 | 17 48 | 06 15 | 17 44 |
| 21 | 05 55 | 18 02 | 06 00 | 17 58 | 06 04 | 17 54 | 06 08 | 17 49 | 06 13 | 17 45 | 06 17 | 17 40 |
| 26 | 05 54 | 18 01 | 05 59 | 17 56 | 06 04 | 17 52 | 06 09 | 17 47 | 06 14 | 17 41 | 06 20 | 17 36 |
| May 1 | 05 54 | 18 01 | 05 59 | 17 55 | 06 04 | 17 50 | 06 10 | 17 44 | 06 16 | 17 38 | 06 22 | 17 32 |
| 6 | 05 53 | 18 00 | 05 59 | 17 54 | 06 05 | 17 48 | 06 11 | 17 42 | 06 18 | 17 35 | 06 24 | 17 29 |
| 11 | 05 53 | 18 00 | 05 59 | 17 53 | 06 06 | 17 47 | 06 13 | 17 40 | 06 20 | 17 33 | 06 27 | 17 26 |
| 16 | 05 53 | 18 00 | 06 00 | 17 53 | 06 07 | 17 46 | 06 14 | 17 39 | 06 21 | 17 31 | 06 29 | 17 23 |
| 21 | 05 53 | 18 00 | 06 00 | 17 53 | 06 08 | 17 45 | 06 15 | 17 38 | 06 23 | 17 30 | 06 32 | 17 21 |
| 26 | 05 53 | 18 01 | 06 01 | 17 53 | 06 09 | 17 45 | 06 17 | 17 37 | 06 25 | 17 28 | 06 34 | 17 19 |
| 31 | 05 54 | 18 01 | 06 02 | 17 53 | 06 10 | 17 45 | 06 19 | 17 37 | 06 27 | 17 28 | 06 37 | 17 18 |
| June 5 | 05 55 | 18 02 | 06 03 | 17 54 | 06 12 | 17 45 | 06 20 | 17 37 | 06 29 | 17 28 | 06 39 | 17 18 |
| 10 | 05 56 | 18 03 | 06 04 | 17 55 | 06 13 | 17 46 | 06 22 | 17 37 | 06 31 | 17 28 | 06 41 | 17 18 |
| 15 | 05 57 | 18 04 | 06 05 | 17 55 | 06 14 | 17 47 | 06 23 | 17 38 | 06 33 | 17 28 | 06 43 | 17 18 |
| 20 | 05 58 | 18 05 | 06 07 | 17 56 | 06 15 | 17 48 | 06 24 | 17 39 | 06 34 | 17 29 | 06 44 | 17 19 |
| 25 | 05 59 | 18 06 | 06 08 | 17 58 | 06 16 | 17 49 | 06 25 | 17 40 | 06 35 | 17 30 | 06 45 | 17 20 |
| 30 | 06 00 | 18 07 | 06 09 | 17 59 | 06 17 | 17 50 | 06 26 | 17 41 | 06 36 | 17 32 | 06 46 | 17 22 |
| July 5 | 06 01 | 18 08 | 06 09 | 18 00 | 06 18 | 17 51 | 06 27 | 17 43 | 06 36 | 17 33 | 06 46 | 17 23 |
| 10 | 06 02 | 18 09 | 06 10 | 18 01 | 06 18 | 17 53 | 06 27 | 17 44 | 06 36 | 17 35 | 06 45 | 17 25 |
| 15 | 06 02 | 18 10 | 06 10 | 18 02 | 06 18 | 17 54 | 06 27 | 17 45 | 06 35 | 17 37 | 06 44 | 17 28 |
| 20 | 06 03 | 18 10 | 06 10 | 18 02 | 06 18 | 17 55 | 06 26 | 17 47 | 06 34 | 17 39 | 06 43 | 17 30 |
| 25 | 06 03 | 18 10 | 06 10 | 18 03 | 06 17 | 17 56 | 06 25 | 17 48 | 06 33 | 17 40 | 06 41 | 17 32 |
| 30 | 06 03 | 18 10 | 06 10 | 18 03 | 06 17 | 17 56 | 06 24 | 17 50 | 06 31 | 17 42 | 06 39 | 17 35 |
| Aug. 4 | 06 03 | 18 10 | 06 09 | 18 03 | 06 15 | 17 57 | 06 22 | 17 51 | 06 29 | 17 44 | 06 36 | 17 37 |
| 9 | 06 02 | 18 09 | 06 08 | 18 03 | 06 14 | 17 58 | 06 20 | 17 52 | 06 26 | 17 46 | 06 32 | 17 39 |
| 14 | 06 01 | 18 08 | 06 07 | 18 03 | 06 12 | 17 58 | 06 17 | 17 53 | 06 23 | 17 47 | 06 29 | 17 41 |
| 19 | 06 00 | 18 07 | 06 05 | 18 03 | 06 10 | 17 58 | 06 14 | 17 53 | 06 19 | 17 48 | 06 24 | 17 43 |
| 24 | 05 59 | 18 06 | 06 03 | 18 02 | 06 07 | 17 58 | 06 11 | 17 54 | 06 15 | 17 50 | 06 20 | 17 45 |
| 29 | 05 58 | 18 04 | 06 01 | 18 01 | 06 04 | 17 58 | 06 08 | 17 54 | 06 11 | 17 51 | 06 15 | 17 47 |
| Sept. 3 | 05 56 | 18 03 | 05 59 | 18 00 | 06 02 | 17 57 | 06 04 | 17 55 | 06 07 | 17 52 | 06 10 | 17 49 |
| 8 | 05 55 | 18 01 | 05 57 | 17 59 | 05 59 | 17 57 | 06 01 | 17 55 | 06 03 | 17 53 | 06 05 | 17 51 |
| 13 | 05 53 | 17 59 | 05 54 | 17 58 | 05 56 | 17 57 | 05 57 | 17 55 | 05 58 | 17 54 | 06 00 | 17 53 |
| 18 | 05 51 | 17 57 | 05 52 | 17 57 | 05 52 | 17 56 | 05 53 | 17 56 | 05 54 | 17 55 | 05 54 | 17 54 |
| 23 | 05 49 | 17 56 | 05 49 | 17 56 | 05 49 | 17 56 | 05 49 | 17 56 | 05 49 | 17 56 | 05 49 | 17 56 |
| 28 | 05 48 | 17 54 | 05 47 | 17 55 | 05 46 | 17 56 | 05 45 | 17 56 | 05 45 | 17 57 | 05 44 | 17 58 |
| Oct. 3 | 05 46 | 17 52 | 05 45 | 17 54 | 05 43 | 17 55 | 05 42 | 17 57 | 05 40 | 17 58 | 05 38 | 18 00 |
| 8 | 05 44 | 17 51 | 05 42 | 17 53 | 05 40 | 17 55 | 05 38 | 17 57 | 05 36 | 18 00 | 05 33 | 18 02 |
| 13 | 05 43 | 17 50 | 05 40 | 17 52 | 05 38 | 17 55 | 05 35 | 17 58 | 05 32 | 18 01 | 05 28 | 18 05 |
| 18 | 05 42 | 17 49 | 05 39 | 17 52 | 05 35 | 17 55 | 05 31 | 17 59 | 05 28 | 18 03 | 05 24 | 18 07 |
| 23 | 05 41 | 17 48 | 05 37 | 17 52 | 05 33 | 17 56 | 05 29 | 18 00 | 05 24 | 18 05 | 05 19 | 18 10 |
| 28 | 05 40 | 17 47 | 05 36 | 17 52 | 05 31 | 17 57 | 05 26 | 18 02 | 05 21 | 18 07 | 05 15 | 18 13 |
| Nov. 2 | 05 40 | 17 47 | 05 35 | 17 52 | 05 30 | 17 58 | 05 24 | 18 03 | 05 18 | 18 09 | 05 12 | 18 16 |
| 7 | 05 40 | 17 47 | 05 34 | 17 53 | 05 28 | 17 59 | 05 22 | 18 05 | 05 16 | 18 12 | 05 09 | 18 19 |
| 12 | 05 41 | 17 48 | 05 34 | 17 54 | 05 28 | 18 01 | 05 21 | 18 07 | 05 14 | 18 15 | 05 06 | 18 22 |
| 17 | 05 41 | 17 48 | 05 34 | 17 55 | 05 27 | 18 02 | 05 20 | 18 10 | 05 12 | 18 18 | 05 04 | 18 26 |
| 22 | 05 42 | 17 50 | 05 35 | 17 57 | 05 28 | 18 05 | 05 20 | 18 12 | 05 12 | 18 21 | 05 03 | 18 30 |
| 27 | 05 44 | 17 51 | 05 36 | 17 59 | 05 28 | 18 07 | 05 20 | 18 15 | 05 11 | 18 24 | 05 02 | 18 33 |
| Dec. 2 | 05 46 | 17 53 | 05 37 | 18 01 | 05 29 | 18 09 | 05 21 | 18 18 | 05 12 | 18 27 | 05 02 | 18 37 |
| 7 | 05 48 | 17 55 | 05 39 | 18 03 | 05 31 | 18 12 | 05 22 | 18 21 | 05 12 | 18 30 | 05 02 | 18 40 |
| 12 | 05 50 | 17 57 | 05 41 | 18 06 | 05 33 | 18 15 | 05 23 | 18 24 | 05 14 | 18 33 | 05 04 | 18 44 |
| 17 | 05 52 | 18 00 | 05 43 | 18 08 | 05 35 | 18 17 | 05 25 | 18 26 | 05 16 | 18 36 | 05 05 | 18 47 |
| 22 | 05 55 | 18 02 | 05 46 | 18 11 | 05 37 | 18 20 | 05 28 | 18 29 | 05 18 | 18 39 | 05 07 | 18 49 |
| 27 | 05 57 | 18 05 | 05 48 | 18 13 | 05 40 | 18 22 | 05 30 | 18 31 | 05 21 | 18 41 | 05 10 | 18 52 |
| Jan. 1 | 06 00 | 18 07 | 05 51 | 18 16 | 05 42 | 18 24 | 05 33 | 18 33 | 05 24 | 18 43 | 05 13 | 18 53 |

Local mean time. To obtain standard time of rise or set, see table 5.

TABLE 4.-SUNRISE AND SUNSET, 2011

| Date | 30° S. | | 32° S. | | 34° S. | | 36° S. | | 38° S. | | 40° S. | |
|---------|---------------|--------------|---------------|--------------|---------------|--------------|---------------|--------------|---------------|--------------|---------------|--------------|
| | Rise h. m. | Set h. m. | Rise h. m. | Set h. m. | Rise h. m. | Set h. m. | Rise h. m. | Set h. m. | Rise h. m. | Set h. m. | Rise h. m. | Set h. m. |
| Jan. 1 | 05 02 | 19 05 | 04 57 | 19 09 | 04 52 | 19 15 | 04 47 | 19 20 | 04 41 | 19 26 | 04 35 | 19 32 |
| 6 | 05 06 | 19 05 | 05 01 | 19 10 | 04 56 | 19 15 | 04 51 | 19 20 | 04 45 | 19 26 | 04 39 | 19 32 |
| 11 | 05 10 | 19 06 | 05 05 | 19 10 | 05 00 | 19 15 | 04 55 | 19 20 | 04 50 | 19 25 | 04 44 | 19 31 |
| 16 | 05 14 | 19 05 | 05 10 | 19 09 | 05 05 | 19 14 | 05 00 | 19 19 | 04 55 | 19 24 | 04 49 | 19 29 |
| 21 | 05 18 | 19 04 | 05 14 | 19 08 | 05 10 | 19 12 | 05 05 | 19 17 | 05 00 | 19 22 | 04 55 | 19 27 |
| 26 | 05 23 | 19 02 | 05 19 | 19 05 | 05 15 | 19 10 | 05 11 | 19 14 | 05 06 | 19 18 | 05 01 | 19 23 |
| 31 | 05 27 | 18 59 | 05 24 | 19 03 | 05 20 | 19 06 | 05 16 | 19 10 | 05 12 | 19 14 | 05 07 | 19 19 |
| Feb. 5 | 05 32 | 18 56 | 05 28 | 18 59 | 05 25 | 19 02 | 05 21 | 19 06 | 05 18 | 19 10 | 05 13 | 19 14 |
| 10 | 05 36 | 18 52 | 05 33 | 18 55 | 05 30 | 18 58 | 05 27 | 19 01 | 05 23 | 19 05 | 05 20 | 19 08 |
| 15 | 05 40 | 18 48 | 05 37 | 18 50 | 05 35 | 18 53 | 05 32 | 18 56 | 05 29 | 18 59 | 05 26 | 19 02 |
| 20 | 05 44 | 18 43 | 05 42 | 18 45 | 05 39 | 18 48 | 05 37 | 18 50 | 05 34 | 18 52 | 05 32 | 18 55 |
| 25 | 05 48 | 18 38 | 05 46 | 18 40 | 05 44 | 18 42 | 05 42 | 18 44 | 05 40 | 18 46 | 05 37 | 18 48 |
| Mar. 2 | 05 51 | 18 33 | 05 50 | 18 34 | 05 48 | 18 36 | 05 47 | 18 37 | 05 45 | 18 39 | 05 43 | 18 41 |
| 7 | 05 55 | 18 27 | 05 54 | 18 28 | 05 52 | 18 29 | 05 51 | 18 30 | 05 50 | 18 32 | 05 49 | 18 33 |
| 12 | 05 58 | 18 21 | 05 57 | 18 22 | 05 57 | 18 23 | 05 56 | 18 23 | 05 55 | 18 24 | 05 54 | 18 25 |
| 17 | 06 01 | 18 15 | 06 01 | 18 15 | 06 01 | 18 16 | 06 00 | 18 16 | 06 00 | 18 17 | 05 59 | 18 17 |
| 22 | 06 04 | 18 09 | 06 04 | 18 09 | 06 04 | 18 09 | 06 04 | 18 09 | 06 04 | 18 09 | 06 04 | 18 09 |
| 27 | 06 07 | 18 03 | 06 08 | 18 03 | 06 08 | 18 02 | 06 09 | 18 02 | 06 09 | 18 01 | 06 10 | 18 01 |
| Apr. 1 | 06 10 | 17 57 | 06 11 | 17 56 | 06 12 | 17 55 | 06 13 | 17 55 | 06 14 | 17 54 | 06 15 | 17 53 |
| 6 | 06 13 | 17 51 | 06 15 | 17 50 | 06 16 | 17 49 | 06 17 | 17 48 | 06 18 | 17 46 | 06 20 | 17 45 |
| 11 | 06 16 | 17 45 | 06 18 | 17 44 | 06 19 | 17 42 | 06 21 | 17 41 | 06 23 | 17 39 | 06 25 | 17 37 |
| 16 | 06 19 | 17 40 | 06 21 | 17 38 | 06 23 | 17 36 | 06 25 | 17 34 | 06 27 | 17 32 | 06 30 | 17 30 |
| 21 | 06 22 | 17 35 | 06 25 | 17 32 | 06 27 | 17 30 | 06 29 | 17 28 | 06 32 | 17 25 | 06 35 | 17 22 |
| 26 | 06 26 | 17 30 | 06 28 | 17 27 | 06 31 | 17 25 | 06 34 | 17 22 | 06 36 | 17 19 | 06 40 | 17 16 |
| May 1 | 06 29 | 17 25 | 06 32 | 17 22 | 06 35 | 17 19 | 06 38 | 17 16 | 06 41 | 17 13 | 06 45 | 17 09 |
| 6 | 06 32 | 17 21 | 06 35 | 17 18 | 06 38 | 17 15 | 06 42 | 17 11 | 06 46 | 17 07 | 06 49 | 17 03 |
| 11 | 06 35 | 17 17 | 06 39 | 17 14 | 06 42 | 17 10 | 06 46 | 17 06 | 06 50 | 17 02 | 06 54 | 16 58 |
| 16 | 06 38 | 17 14 | 06 42 | 17 11 | 06 46 | 17 07 | 06 50 | 17 02 | 06 54 | 16 58 | 06 59 | 16 53 |
| 21 | 06 41 | 17 12 | 06 45 | 17 08 | 06 49 | 17 03 | 06 54 | 16 59 | 06 58 | 16 54 | 07 03 | 16 49 |
| 26 | 06 44 | 17 10 | 06 48 | 17 05 | 06 53 | 17 01 | 06 57 | 16 56 | 07 02 | 16 51 | 07 08 | 16 46 |
| 31 | 06 47 | 17 08 | 06 51 | 17 04 | 06 56 | 16 59 | 07 01 | 16 54 | 07 06 | 16 49 | 07 11 | 16 44 |
| June 5 | 06 50 | 17 07 | 06 54 | 17 03 | 06 59 | 16 58 | 07 04 | 16 53 | 07 09 | 16 48 | 07 15 | 16 42 |
| 10 | 06 52 | 17 07 | 06 56 | 17 02 | 07 01 | 16 57 | 07 07 | 16 52 | 07 12 | 16 47 | 07 18 | 16 41 |
| 15 | 06 54 | 17 07 | 06 58 | 17 02 | 07 03 | 16 57 | 07 09 | 16 52 | 07 14 | 16 47 | 07 20 | 16 41 |
| 20 | 06 55 | 17 08 | 07 00 | 17 03 | 07 05 | 16 58 | 07 10 | 16 53 | 07 16 | 16 47 | 07 22 | 16 41 |
| 25 | 06 56 | 17 09 | 07 01 | 17 04 | 07 06 | 16 59 | 07 11 | 16 54 | 07 17 | 16 48 | 07 23 | 16 43 |
| 30 | 06 57 | 17 11 | 07 01 | 17 06 | 07 06 | 17 01 | 07 11 | 16 56 | 07 17 | 16 50 | 07 23 | 16 45 |
| July 5 | 06 56 | 17 13 | 07 01 | 17 08 | 07 06 | 17 03 | 07 11 | 16 58 | 07 16 | 16 53 | 07 22 | 16 47 |
| 10 | 06 56 | 17 15 | 07 00 | 17 11 | 07 05 | 17 06 | 07 10 | 17 01 | 07 15 | 16 56 | 07 21 | 16 50 |
| 15 | 06 54 | 17 18 | 06 59 | 17 13 | 07 03 | 17 09 | 07 08 | 17 04 | 07 13 | 16 59 | 07 18 | 16 54 |
| 20 | 06 53 | 17 20 | 06 57 | 17 16 | 07 01 | 17 12 | 07 06 | 17 07 | 07 10 | 17 03 | 07 15 | 16 58 |
| 25 | 06 50 | 17 23 | 06 54 | 17 19 | 06 58 | 17 15 | 07 02 | 17 11 | 07 07 | 17 06 | 07 12 | 17 02 |
| 30 | 06 47 | 17 26 | 06 51 | 17 22 | 06 55 | 17 19 | 06 59 | 17 15 | 07 03 | 17 11 | 07 07 | 17 06 |
| Aug. 4 | 06 44 | 17 29 | 06 47 | 17 26 | 06 50 | 17 22 | 06 54 | 17 19 | 06 58 | 17 15 | 07 02 | 17 11 |
| 9 | 06 40 | 17 32 | 06 43 | 17 29 | 06 46 | 17 26 | 06 49 | 17 22 | 06 53 | 17 19 | 06 56 | 17 15 |
| 14 | 06 35 | 17 35 | 06 38 | 17 32 | 06 41 | 17 29 | 06 44 | 17 26 | 06 47 | 17 23 | 06 50 | 17 20 |
| 19 | 06 30 | 17 38 | 06 33 | 17 35 | 06 35 | 17 33 | 06 38 | 17 30 | 06 40 | 17 27 | 06 43 | 17 24 |
| 24 | 06 25 | 17 40 | 06 27 | 17 38 | 06 29 | 17 36 | 06 31 | 17 34 | 06 34 | 17 32 | 06 36 | 17 29 |
| 29 | 06 19 | 17 43 | 06 21 | 17 41 | 06 23 | 17 40 | 06 25 | 17 38 | 06 27 | 17 36 | 06 29 | 17 34 |
| Sept. 3 | 06 13 | 17 46 | 06 15 | 17 45 | 06 16 | 17 43 | 06 18 | 17 42 | 06 19 | 17 40 | 06 21 | 17 38 |
| 8 | 06 07 | 17 49 | 06 09 | 17 48 | 06 10 | 17 46 | 06 11 | 17 45 | 06 12 | 17 44 | 06 13 | 17 43 |
| 13 | 06 01 | 17 51 | 06 02 | 17 51 | 06 03 | 17 50 | 06 03 | 17 49 | 06 04 | 17 48 | 06 05 | 17 48 |
| 18 | 05 55 | 17 54 | 05 55 | 17 54 | 05 56 | 17 53 | 05 56 | 17 53 | 05 56 | 17 53 | 05 57 | 17 52 |
| 23 | 05 49 | 17 57 | 05 49 | 17 57 | 05 49 | 17 57 | 05 49 | 17 57 | 05 49 | 17 57 | 05 48 | 17 57 |
| 28 | 05 43 | 17 59 | 05 42 | 18 00 | 05 42 | 18 00 | 05 41 | 18 01 | 05 41 | 18 01 | 05 40 | 18 02 |
| Oct. 3 | 05 36 | 18 02 | 05 36 | 18 03 | 05 35 | 18 04 | 05 34 | 18 05 | 05 33 | 18 06 | 05 32 | 18 07 |
| 8 | 05 31 | 18 05 | 05 29 | 18 06 | 05 28 | 18 08 | 05 27 | 18 09 | 05 25 | 18 11 | 05 24 | 18 12 |
| 13 | 05 25 | 18 08 | 05 23 | 18 10 | 05 22 | 18 12 | 05 20 | 18 13 | 05 18 | 18 15 | 05 16 | 18 17 |
| 18 | 05 19 | 18 12 | 05 17 | 18 14 | 05 15 | 18 16 | 05 13 | 18 18 | 05 11 | 18 20 | 05 09 | 18 23 |
| 23 | 05 14 | 18 15 | 05 12 | 18 17 | 05 09 | 18 20 | 05 07 | 18 22 | 05 04 | 18 25 | 05 01 | 18 28 |
| 28 | 05 09 | 18 19 | 05 07 | 18 22 | 05 04 | 18 24 | 05 01 | 18 27 | 04 58 | 18 30 | 04 55 | 18 34 |
| Nov. 2 | 05 05 | 18 23 | 05 02 | 18 26 | 04 59 | 18 29 | 04 56 | 18 32 | 04 52 | 18 36 | 04 48 | 18 39 |
| 7 | 05 01 | 18 27 | 04 58 | 18 30 | 04 54 | 18 34 | 04 51 | 18 37 | 04 47 | 18 41 | 04 43 | 18 45 |
| 12 | 04 58 | 18 31 | 04 54 | 18 34 | 04 50 | 18 38 | 04 46 | 18 42 | 04 42 | 18 47 | 04 38 | 18 51 |
| 17 | 04 55 | 18 35 | 04 51 | 18 39 | 04 47 | 18 43 | 04 43 | 18 48 | 04 38 | 18 52 | 04 33 | 18 57 |
| 22 | 04 53 | 18 39 | 04 49 | 18 43 | 04 45 | 18 48 | 04 40 | 18 53 | 04 35 | 18 58 | 04 30 | 19 03 |
| 27 | 04 52 | 18 43 | 04 47 | 18 48 | 04 43 | 18 53 | 04 38 | 18 58 | 04 33 | 19 03 | 04 27 | 19 08 |
| Dec. 2 | 04 51 | 18 48 | 04 47 | 18 52 | 04 42 | 18 57 | 04 37 | 19 02 | 04 31 | 19 08 | 04 25 | 19 14 |
| 7 | 04 51 | 18 51 | 04 47 | 18 56 | 04 42 | 19 01 | 04 36 | 19 07 | 04 31 | 19 12 | 04 25 | 19 18 |
| 12 | 04 52 | 18 55 | 04 47 | 19 00 | 04 42 | 19 05 | 04 37 | 19 11 | 04 31 | 19 16 | 04 25 | 19 23 |
| 17 | 04 54 | 18 58 | 04 49 | 19 03 | 04 43 | 19 08 | 04 38 | 19 14 | 04 32 | 19 20 | 04 26 | 19 26 |
| 22 | 04 56 | 19 01 | 04 51 | 19 06 | 04 46 | 19 11 | 04 40 | 19 17 | 04 34 | 19 23 | 04 28 | 19 29 |
| 27 | 04 59 | 19 03 | 04 54 | 19 08 | 04 48 | 19 13 | 04 43 | 19 19 | 04 37 | 19 25 | 04 31 | 19 31 |
| Jan. 1 | 05 02 | 19 05 | 04 57 | 19 09 | 04 52 | 19 15 | 04 46 | 19 20 | 04 41 | 19 26 | 04 34 | 19 32 |

Local mean time. To obtain standard time of rise or set, see table 5.

TABLE 4.-SUNRISE AND SUNSET, 2011

| Date | 42° S. | | 44° S. | | 46° S. | | 48° S. | | 50° S. | | 52° S. | |
|---------|---------------|--------------|---------------|--------------|---------------|--------------|---------------|--------------|---------------|--------------|---------------|--------------|
| | Rise h. m. | Set h. m. | Rise h. m. | Set h. m. | Rise h. m. | Set h. m. | Rise h. m. | Set h. m. | Rise h. m. | Set h. m. | Rise h. m. | Set h. m. |
| Jan. 1 | 04 28 | 19 39 | 04 21 | 19 46 | 04 13 | 19 54 | 04 04 | 20 02 | 03 55 | 20 12 | 03 44 | 20 22 |
| 6 | 04 33 | 19 39 | 04 26 | 19 45 | 04 18 | 19 53 | 04 10 | 20 01 | 04 00 | 20 10 | 03 50 | 20 21 |
| 11 | 04 38 | 19 37 | 04 31 | 19 44 | 04 24 | 19 51 | 04 16 | 19 59 | 04 07 | 20 08 | 03 57 | 20 18 |
| 16 | 04 43 | 19 35 | 04 37 | 19 42 | 04 30 | 19 48 | 04 23 | 19 56 | 04 14 | 20 04 | 04 05 | 20 13 |
| 21 | 04 50 | 19 32 | 04 44 | 19 38 | 04 37 | 19 45 | 04 30 | 19 52 | 04 22 | 19 59 | 04 14 | 20 08 |
| 26 | 04 56 | 19 28 | 04 50 | 19 34 | 04 44 | 19 40 | 04 38 | 19 46 | 04 31 | 19 53 | 04 23 | 20 01 |
| 31 | 05 03 | 19 24 | 04 57 | 19 29 | 04 52 | 19 34 | 04 46 | 19 40 | 04 39 | 19 47 | 04 32 | 19 54 |
| Feb. 5 | 05 09 | 19 18 | 05 04 | 19 23 | 04 59 | 19 28 | 04 54 | 19 33 | 04 48 | 19 39 | 04 42 | 19 45 |
| 10 | 05 16 | 19 12 | 05 12 | 19 16 | 05 07 | 19 20 | 05 02 | 19 25 | 04 57 | 19 30 | 04 51 | 19 36 |
| 15 | 05 22 | 19 05 | 05 19 | 19 09 | 05 15 | 19 13 | 05 10 | 19 17 | 05 06 | 19 21 | 05 01 | 19 26 |
| 20 | 05 29 | 18 58 | 05 26 | 19 01 | 05 22 | 19 04 | 05 18 | 19 08 | 05 15 | 19 12 | 05 10 | 19 16 |
| 25 | 05 35 | 18 50 | 05 32 | 18 53 | 05 29 | 18 56 | 05 26 | 18 59 | 05 23 | 19 02 | 05 20 | 19 05 |
| Mar. 2 | 05 41 | 18 43 | 05 39 | 18 45 | 05 37 | 18 47 | 05 34 | 18 49 | 05 32 | 18 52 | 05 29 | 18 54 |
| 7 | 05 47 | 18 34 | 05 46 | 18 36 | 05 44 | 18 37 | 05 42 | 18 39 | 05 40 | 18 41 | 05 38 | 18 43 |
| 12 | 05 53 | 18 26 | 05 52 | 18 27 | 05 51 | 18 28 | 05 50 | 18 29 | 05 48 | 18 30 | 05 47 | 18 32 |
| 17 | 05 59 | 18 17 | 05 58 | 18 18 | 05 58 | 18 18 | 05 57 | 18 19 | 05 56 | 18 20 | 05 56 | 18 20 |
| 22 | 06 04 | 18 09 | 06 04 | 18 09 | 06 04 | 18 09 | 06 04 | 18 09 | 06 04 | 18 09 | 06 04 | 18 09 |
| 27 | 06 10 | 18 00 | 06 10 | 18 00 | 06 11 | 17 59 | 06 12 | 17 59 | 06 12 | 17 58 | 06 13 | 17 57 |
| Apr. 1 | 06 16 | 17 52 | 06 17 | 17 51 | 06 18 | 17 50 | 06 19 | 17 48 | 06 20 | 17 47 | 06 21 | 17 46 |
| 6 | 06 21 | 17 43 | 06 23 | 17 42 | 06 24 | 17 40 | 06 26 | 17 38 | 06 28 | 17 36 | 06 30 | 17 34 |
| 11 | 06 27 | 17 35 | 06 29 | 17 33 | 06 31 | 17 31 | 06 33 | 17 29 | 06 36 | 17 26 | 06 38 | 17 23 |
| 16 | 06 32 | 17 27 | 06 34 | 17 25 | 06 37 | 17 22 | 06 40 | 17 19 | 06 43 | 17 16 | 06 47 | 17 12 |
| 21 | 06 37 | 17 20 | 06 40 | 17 17 | 06 44 | 17 13 | 06 47 | 17 10 | 06 51 | 17 06 | 06 55 | 17 02 |
| 26 | 06 43 | 17 12 | 06 46 | 17 09 | 06 50 | 17 05 | 06 54 | 17 01 | 06 58 | 16 57 | 07 03 | 16 52 |
| May 1 | 06 48 | 17 06 | 06 52 | 17 02 | 06 56 | 16 57 | 07 01 | 16 53 | 07 06 | 16 48 | 07 11 | 16 42 |
| 6 | 06 54 | 16 59 | 06 58 | 16 55 | 07 03 | 16 50 | 07 08 | 16 45 | 07 13 | 16 39 | 07 20 | 16 33 |
| 11 | 06 59 | 16 54 | 07 04 | 16 49 | 07 09 | 16 43 | 07 14 | 16 38 | 07 21 | 16 32 | 07 27 | 16 25 |
| 16 | 07 04 | 16 49 | 07 09 | 16 43 | 07 15 | 16 38 | 07 21 | 16 31 | 07 28 | 16 25 | 07 35 | 16 17 |
| 21 | 07 09 | 16 44 | 07 14 | 16 39 | 07 20 | 16 32 | 07 27 | 16 26 | 07 34 | 16 19 | 07 42 | 16 11 |
| 26 | 07 13 | 16 41 | 07 19 | 16 35 | 07 26 | 16 28 | 07 33 | 16 21 | 07 40 | 16 13 | 07 49 | 16 05 |
| 31 | 07 17 | 16 38 | 07 24 | 16 32 | 07 30 | 16 25 | 07 38 | 16 17 | 07 46 | 16 09 | 07 55 | 16 00 |
| June 5 | 07 21 | 16 36 | 07 27 | 16 29 | 07 34 | 16 22 | 07 42 | 16 15 | 07 50 | 16 06 | 08 00 | 15 57 |
| 10 | 07 24 | 16 35 | 07 31 | 16 28 | 07 38 | 16 21 | 07 46 | 16 13 | 07 54 | 16 04 | 08 04 | 15 55 |
| 15 | 07 26 | 16 34 | 07 33 | 16 28 | 07 41 | 16 20 | 07 49 | 16 12 | 07 57 | 16 03 | 08 07 | 15 54 |
| 20 | 07 28 | 16 35 | 07 35 | 16 28 | 07 42 | 16 21 | 07 50 | 16 13 | 07 59 | 16 04 | 08 09 | 15 54 |
| 25 | 07 29 | 16 36 | 07 36 | 16 29 | 07 43 | 16 22 | 07 51 | 16 14 | 08 00 | 16 05 | 08 10 | 15 55 |
| 30 | 07 29 | 16 38 | 07 36 | 16 32 | 07 43 | 16 24 | 07 51 | 16 16 | 08 00 | 16 07 | 08 10 | 15 58 |
| July 5 | 07 28 | 16 41 | 07 35 | 16 34 | 07 42 | 16 27 | 07 50 | 16 19 | 07 58 | 16 11 | 08 08 | 16 01 |
| 10 | 07 27 | 16 44 | 07 33 | 16 38 | 07 40 | 16 31 | 07 48 | 16 23 | 07 56 | 16 15 | 08 05 | 16 06 |
| 15 | 07 24 | 16 48 | 07 30 | 16 42 | 07 37 | 16 35 | 07 44 | 16 28 | 07 52 | 16 20 | 08 01 | 16 11 |
| 20 | 07 21 | 16 52 | 07 27 | 16 46 | 07 33 | 16 40 | 07 40 | 16 33 | 07 47 | 16 26 | 07 56 | 16 18 |
| 25 | 07 17 | 16 57 | 07 22 | 16 51 | 07 28 | 16 45 | 07 35 | 16 39 | 07 42 | 16 32 | 07 49 | 16 24 |
| 30 | 07 12 | 17 01 | 07 17 | 16 56 | 07 23 | 16 51 | 07 28 | 16 45 | 07 35 | 16 38 | 07 42 | 16 31 |
| Aug. 4 | 07 06 | 17 06 | 07 11 | 17 02 | 07 16 | 16 57 | 07 22 | 16 51 | 07 28 | 16 45 | 07 34 | 16 39 |
| 9 | 07 00 | 17 11 | 07 05 | 17 07 | 07 09 | 17 03 | 07 14 | 16 58 | 07 19 | 16 52 | 07 25 | 16 46 |
| 14 | 06 54 | 17 16 | 06 57 | 17 13 | 07 02 | 17 09 | 07 06 | 17 04 | 07 11 | 16 59 | 07 16 | 16 54 |
| 19 | 06 47 | 17 21 | 06 50 | 17 18 | 06 53 | 17 15 | 06 57 | 17 11 | 07 01 | 17 07 | 07 06 | 17 02 |
| 24 | 06 39 | 17 26 | 06 42 | 17 24 | 06 45 | 17 21 | 06 48 | 17 17 | 06 52 | 17 14 | 06 56 | 17 10 |
| 29 | 06 31 | 17 32 | 06 33 | 17 29 | 06 36 | 17 27 | 06 39 | 17 24 | 06 42 | 17 21 | 06 45 | 17 18 |
| Sept. 3 | 06 23 | 17 37 | 06 25 | 17 35 | 06 27 | 17 33 | 06 29 | 17 31 | 06 31 | 17 29 | 06 34 | 17 26 |
| 8 | 06 14 | 17 42 | 06 16 | 17 41 | 06 17 | 17 39 | 06 19 | 17 38 | 06 20 | 17 36 | 06 22 | 17 34 |
| 13 | 06 06 | 17 47 | 06 07 | 17 46 | 06 08 | 17 45 | 06 09 | 17 44 | 06 10 | 17 43 | 06 11 | 17 42 |
| 18 | 05 57 | 17 52 | 05 57 | 17 52 | 05 58 | 17 51 | 05 58 | 17 51 | 05 59 | 17 51 | 05 59 | 17 50 |
| 23 | 05 48 | 17 57 | 05 48 | 17 58 | 05 48 | 17 58 | 05 48 | 17 58 | 05 48 | 17 58 | 05 47 | 17 59 |
| 28 | 05 40 | 18 03 | 05 39 | 18 03 | 05 38 | 18 04 | 05 37 | 18 05 | 05 37 | 18 06 | 05 36 | 18 07 |
| Oct. 3 | 05 31 | 18 08 | 05 30 | 18 09 | 05 28 | 18 11 | 05 27 | 18 12 | 05 26 | 18 14 | 05 24 | 18 15 |
| 8 | 05 22 | 18 14 | 05 21 | 18 15 | 05 19 | 18 17 | 05 17 | 18 19 | 05 15 | 18 21 | 05 13 | 18 24 |
| 13 | 05 14 | 18 19 | 05 12 | 18 22 | 05 10 | 18 24 | 05 07 | 18 27 | 05 04 | 18 29 | 05 01 | 18 32 |
| 18 | 05 06 | 18 25 | 05 03 | 18 28 | 05 00 | 18 31 | 04 57 | 18 34 | 04 54 | 18 37 | 04 50 | 18 41 |
| 23 | 04 58 | 18 31 | 04 55 | 18 34 | 04 52 | 18 38 | 04 48 | 18 42 | 04 44 | 18 46 | 04 40 | 18 50 |
| 28 | 04 51 | 18 37 | 04 47 | 18 41 | 04 43 | 18 45 | 04 39 | 18 49 | 04 34 | 18 54 | 04 29 | 18 59 |
| Nov. 2 | 04 44 | 18 43 | 04 40 | 18 48 | 04 36 | 18 52 | 04 31 | 18 57 | 04 25 | 19 03 | 04 20 | 19 09 |
| 7 | 04 38 | 18 50 | 04 34 | 18 55 | 04 29 | 19 00 | 04 23 | 19 05 | 04 17 | 19 11 | 04 10 | 19 18 |
| 12 | 04 33 | 18 56 | 04 28 | 19 01 | 04 22 | 19 07 | 04 16 | 19 13 | 04 09 | 19 20 | 04 02 | 19 27 |
| 17 | 04 28 | 19 02 | 04 22 | 19 08 | 04 16 | 19 14 | 04 10 | 19 21 | 04 03 | 19 28 | 03 55 | 19 36 |
| 22 | 04 24 | 19 08 | 04 18 | 19 15 | 04 12 | 19 21 | 04 04 | 19 28 | 03 57 | 19 36 | 03 48 | 19 45 |
| 27 | 04 21 | 19 14 | 04 15 | 19 21 | 04 08 | 19 28 | 04 00 | 19 35 | 03 52 | 19 44 | 03 43 | 19 53 |
| Dec. 2 | 04 19 | 19 20 | 04 12 | 19 27 | 04 05 | 19 34 | 03 57 | 19 42 | 03 48 | 19 51 | 03 38 | 20 01 |
| 7 | 04 18 | 19 25 | 04 11 | 19 32 | 04 03 | 19 40 | 03 55 | 19 48 | 03 46 | 19 57 | 03 36 | 20 07 |
| 12 | 04 18 | 19 29 | 04 11 | 19 37 | 04 03 | 19 44 | 03 54 | 19 53 | 03 45 | 20 02 | 03 34 | 20 13 |
| 17 | 04 19 | 19 33 | 04 12 | 19 40 | 04 04 | 19 48 | 03 55 | 19 57 | 03 45 | 20 07 | 03 35 | 20 18 |
| 22 | 04 21 | 19 36 | 04 14 | 19 43 | 04 06 | 19 51 | 03 57 | 20 00 | 03 47 | 20 10 | 03 36 | 20 21 |
| 27 | 04 24 | 19 38 | 04 17 | 19 45 | 04 09 | 19 53 | 04 00 | 20 02 | 03 50 | 20 11 | 03 39 | 20 22 |
| Jan. 1 | 04 28 | 19 39 | 04 21 | 19 46 | 04 13 | 19 54 | 04 04 | 20 02 | 03 55 | 20 12 | 03 44 | 20 22 |

Local mean time. To obtain standard time of rise or set, see table 5.

TABLE 4.-SUNRISE AND SUNSET, 2011

| Date | 54° S. | | 56° S. | | 58° S. | | 60° S. | |
|--------------|---------------|--------------|---------------|--------------|---------------|--------------|---------------|--------------|
| | Rise h. m. | Set h. m. | Rise h. m. | Set h. m. | Rise h. m. | Set h. m. | Rise h. m. | Set h. m. |
| Jan. 1----- | 03 32 | 20 34 | 03 18 | 20 48 | 03 02 | 21 04 | 02 42 | 21 24 |
| 6----- | 03 39 | 20 32 | 03 25 | 20 45 | 03 10 | 21 01 | 02 51 | 21 19 |
| 11----- | 03 46 | 20 29 | 03 34 | 20 41 | 03 19 | 20 56 | 03 01 | 21 13 |
| 16----- | 03 55 | 20 24 | 03 43 | 20 35 | 03 29 | 20 49 | 03 13 | 21 05 |
| 21----- | 04 04 | 20 17 | 03 53 | 20 28 | 03 40 | 20 41 | 03 26 | 20 55 |
| 26----- | 04 14 | 20 10 | 04 04 | 20 20 | 03 52 | 20 31 | 03 39 | 20 44 |
| 31----- | 04 24 | 20 02 | 04 15 | 20 11 | 04 04 | 20 21 | 03 53 | 20 32 |
| Feb. 5----- | 04 34 | 19 52 | 04 26 | 20 00 | 04 17 | 20 09 | 04 06 | 20 20 |
| 10----- | 04 45 | 19 42 | 04 38 | 19 49 | 04 29 | 19 57 | 04 20 | 20 06 |
| 15----- | 04 55 | 19 32 | 04 49 | 19 38 | 04 42 | 19 45 | 04 34 | 19 53 |
| 20----- | 05 05 | 19 21 | 05 00 | 19 26 | 04 54 | 19 32 | 04 47 | 19 38 |
| 25----- | 05 16 | 19 09 | 05 11 | 19 14 | 05 06 | 19 18 | 05 01 | 19 24 |
| Mar. 2----- | 05 26 | 18 58 | 05 22 | 19 01 | 05 18 | 19 05 | 05 14 | 19 09 |
| 7----- | 05 35 | 18 46 | 05 33 | 18 48 | 05 30 | 18 51 | 05 27 | 18 54 |
| 12----- | 05 45 | 18 33 | 05 43 | 18 35 | 05 41 | 18 37 | 05 39 | 18 39 |
| 17----- | 05 55 | 18 21 | 05 54 | 18 22 | 05 53 | 18 23 | 05 52 | 18 24 |
| 22----- | 06 04 | 18 09 | 06 04 | 18 09 | 06 04 | 18 09 | 06 04 | 18 09 |
| 27----- | 06 14 | 17 56 | 06 14 | 17 56 | 06 15 | 17 55 | 06 16 | 17 54 |
| Apr. 1----- | 06 23 | 17 44 | 06 24 | 17 42 | 06 26 | 17 41 | 06 28 | 17 39 |
| 6----- | 06 32 | 17 32 | 06 34 | 17 30 | 06 37 | 17 27 | 06 40 | 17 24 |
| 11----- | 06 41 | 17 20 | 06 44 | 17 17 | 06 48 | 17 13 | 06 52 | 17 09 |
| 16----- | 06 50 | 17 09 | 06 54 | 17 04 | 06 59 | 17 00 | 07 04 | 16 54 |
| 21----- | 06 59 | 16 57 | 07 04 | 16 52 | 07 10 | 16 47 | 07 16 | 16 40 |
| 26----- | 07 09 | 16 46 | 07 14 | 16 41 | 07 21 | 16 34 | 07 28 | 16 27 |
| May 1----- | 07 17 | 16 36 | 07 24 | 16 29 | 07 32 | 16 22 | 07 40 | 16 13 |
| 6----- | 07 26 | 16 26 | 07 34 | 16 19 | 07 42 | 16 10 | 07 52 | 16 01 |
| 11----- | 07 35 | 16 17 | 07 43 | 16 09 | 07 53 | 15 59 | 08 03 | 15 49 |
| 16----- | 07 43 | 16 09 | 07 52 | 16 00 | 08 03 | 15 49 | 08 15 | 15 37 |
| 21----- | 07 51 | 16 02 | 08 01 | 15 52 | 08 12 | 15 40 | 08 25 | 15 27 |
| 26----- | 07 58 | 15 55 | 08 09 | 15 45 | 08 21 | 15 33 | 08 35 | 15 18 |
| 31----- | 08 05 | 15 50 | 08 16 | 15 39 | 08 29 | 15 26 | 08 44 | 15 11 |
| June 5----- | 08 10 | 15 46 | 08 22 | 15 34 | 08 36 | 15 21 | 08 52 | 15 05 |
| 10----- | 08 15 | 15 44 | 08 27 | 15 31 | 08 41 | 15 17 | 08 58 | 15 00 |
| 15----- | 08 18 | 15 42 | 08 31 | 15 30 | 08 45 | 15 15 | 09 03 | 14 58 |
| 20----- | 08 20 | 15 43 | 08 33 | 15 30 | 08 48 | 15 15 | 09 05 | 14 58 |
| 25----- | 08 21 | 15 44 | 08 34 | 15 31 | 08 49 | 15 17 | 09 06 | 14 59 |
| 30----- | 08 21 | 15 47 | 08 33 | 15 34 | 08 47 | 15 20 | 09 05 | 15 03 |
| July 5----- | 08 19 | 15 51 | 08 31 | 15 39 | 08 45 | 15 25 | 09 01 | 15 08 |
| 10----- | 08 15 | 15 56 | 08 27 | 15 44 | 08 40 | 15 31 | 08 56 | 15 15 |
| 15----- | 08 11 | 16 02 | 08 22 | 15 51 | 08 34 | 15 38 | 08 49 | 15 23 |
| 20----- | 08 05 | 16 08 | 08 15 | 15 58 | 08 27 | 15 46 | 08 41 | 15 33 |
| 25----- | 07 58 | 16 16 | 08 07 | 16 06 | 08 18 | 15 55 | 08 31 | 15 43 |
| 30----- | 07 50 | 16 24 | 07 59 | 16 15 | 08 09 | 16 05 | 08 20 | 15 53 |
| Aug. 4----- | 07 41 | 16 32 | 07 49 | 16 24 | 07 58 | 16 15 | 08 09 | 16 04 |
| 9----- | 07 32 | 16 40 | 07 39 | 16 33 | 07 47 | 16 25 | 07 56 | 16 16 |
| 14----- | 07 22 | 16 49 | 07 28 | 16 42 | 07 35 | 16 35 | 07 43 | 16 27 |
| 19----- | 07 11 | 16 57 | 07 16 | 16 52 | 07 23 | 16 46 | 07 30 | 16 39 |
| 24----- | 07 00 | 17 06 | 07 04 | 17 01 | 07 10 | 16 56 | 07 15 | 16 50 |
| 29----- | 06 48 | 17 15 | 06 52 | 17 11 | 06 56 | 17 07 | 07 01 | 17 02 |
| Sept. 3----- | 06 36 | 17 23 | 06 39 | 17 21 | 06 43 | 17 17 | 06 46 | 17 14 |
| 8----- | 06 24 | 17 32 | 06 27 | 17 30 | 06 29 | 17 28 | 06 32 | 17 25 |
| 13----- | 06 12 | 17 41 | 06 13 | 17 40 | 06 15 | 17 38 | 06 17 | 17 37 |
| 18----- | 06 00 | 17 50 | 06 00 | 17 49 | 06 01 | 17 49 | 06 01 | 17 48 |
| 23----- | 05 47 | 17 59 | 05 47 | 17 59 | 05 47 | 18 00 | 05 46 | 18 00 |
| 28----- | 05 35 | 18 08 | 05 34 | 18 09 | 05 32 | 18 10 | 05 31 | 18 12 |
| Oct. 3----- | 05 22 | 18 17 | 05 20 | 18 19 | 05 18 | 18 21 | 05 16 | 18 24 |
| 8----- | 05 10 | 18 26 | 05 07 | 18 29 | 05 04 | 18 32 | 05 01 | 18 36 |
| 13----- | 04 58 | 18 36 | 04 54 | 18 40 | 04 50 | 18 44 | 04 46 | 18 48 |
| 18----- | 04 46 | 18 45 | 04 42 | 18 50 | 04 37 | 18 55 | 04 31 | 19 01 |
| 23----- | 04 35 | 18 55 | 04 29 | 19 01 | 04 23 | 19 07 | 04 16 | 19 14 |
| 28----- | 04 24 | 19 05 | 04 17 | 19 12 | 04 10 | 19 19 | 04 02 | 19 27 |
| Nov. 2----- | 04 13 | 19 15 | 04 06 | 19 23 | 03 58 | 19 31 | 03 48 | 19 41 |
| 7----- | 04 03 | 19 25 | 03 55 | 19 34 | 03 46 | 19 43 | 03 35 | 19 54 |
| 12----- | 03 54 | 19 35 | 03 45 | 19 45 | 03 34 | 19 55 | 03 23 | 20 07 |
| 17----- | 03 46 | 19 45 | 03 36 | 19 55 | 03 24 | 20 07 | 03 11 | 20 21 |
| 22----- | 03 38 | 19 55 | 03 27 | 20 06 | 03 15 | 20 19 | 03 00 | 20 34 |
| 27----- | 03 32 | 20 04 | 03 20 | 20 16 | 03 07 | 20 30 | 02 51 | 20 46 |
| Dec. 2----- | 03 27 | 20 12 | 03 15 | 20 25 | 03 00 | 20 40 | 02 43 | 20 57 |
| 7----- | 03 24 | 20 19 | 03 11 | 20 33 | 02 55 | 20 48 | 02 37 | 21 07 |
| 12----- | 03 22 | 20 25 | 03 09 | 20 39 | 02 52 | 20 55 | 02 33 | 21 15 |
| 17----- | 03 22 | 20 30 | 03 08 | 20 44 | 02 51 | 21 01 | 02 31 | 21 21 |
| 22----- | 03 24 | 20 33 | 03 10 | 20 47 | 02 53 | 21 04 | 02 32 | 21 25 |
| 27----- | 03 27 | 20 34 | 03 13 | 20 48 | 02 56 | 21 05 | 02 36 | 21 25 |
| Jan. 1----- | 03 32 | 20 34 | 03 18 | 20 48 | 03 02 | 21 04 | 02 42 | 21 24 |

Local mean time. To obtain standard time of rise or set, see table 5.

TABLE 5. —REDUCTION OF LOCAL MEAN TIME TO STANDARD TIME

| Difference of longitude between local and standard meridian | Correction to local mean time to obtain standard time | Difference of longitude between local and standard meridian | Correction to local mean time to obtain standard time | Difference of longitude between local and standard meridian | Correction to local mean time to obtain standard time |
|---|---|---|---|---|---|
| ° ' ° ' | Minutes | ° ' ° ' | Minutes | ° | Hours |
| 0 00 to 0 07 | 0 | 7 23 to 7 37 | 30 | 15 | 1 |
| 0 08 to 0 22 | 1 | 7 38 to 7 52 | 31 | 30 | 2 |
| 0 23 to 0 37 | 2 | 7 53 to 8 07 | 32 | 45 | 3 |
| 0 38 to 0 52 | 3 | 8 08 to 8 22 | 33 | 60 | 4 |
| 0 53 to 1 07 | 4 | 8 23 to 8 37 | 34 | 75 | 5 |
| 1 08 to 1 22 | 5 | 8 38 to 8 52 | 35 | 90 | 6 |
| 1 23 to 1 37 | 6 | 8 53 to 9 07 | 36 | 105 | 7 |
| 1 38 to 1 52 | 7 | 9 08 to 9 22 | 37 | 120 | 8 |
| 1 53 to 2 07 | 8 | 9 23 to 9 37 | 38 | 135 | 9 |
| 2 08 to 2 22 | 9 | 9 38 to 9 52 | 39 | 150 | 10 |
| 2 23 to 2 37 | 10 | 9 53 to 10 07 | 40 | 165 | 11 |
| 2 38 to 2 52 | 11 | 10 08 to 10 22 | 4 | 180 | 12 |
| 2 53 to 3 07 | 12 | 10 23 to 10 37 | 42 | | |
| 3 08 to 3 22 | 13 | 10 38 to 10 52 | 43 | | |
| 3 23 to 3 37 | 14 | 10 53 to 11 07 | 44 | | |
| 3 38 to 3 52 | 15 | 11 08 to 11 22 | 45 | | |
| 3 53 to 4 07 | 16 | 11 23 to 11 37 | 46 | | |
| 4 08 to 4 22 | 17 | 11 38 to 11 52 | 47 | | |
| 4 23 to 4 37 | 18 | 11 53 to 12 07 | 48 | | |
| 4 38 to 4 52 | 19 | 12 08 to 12 22 | 49 | | |
| 4 53 to 5 07 | 20 | 12 23 to 12 37 | 50 | | |
| 5 08 to 5 22 | 21 | 12 38 to 12 52 | 51 | | |
| 5 23 to 5 37 | 22 | 12 53 to 13 07 | 52 | | |
| 5 38 to 5 52 | 23 | 13 08 to 13 22 | 53 | | |
| 5 53 to 6 07 | 24 | 13 23 to 13 37 | 54 | | |
| 6 08 to 6 22 | 25 | 13 38 to 13 52 | 55 | | |
| 6 23 to 6 37 | 26 | 13 53 to 14 07 | 56 | | |
| 6 38 to 6 52 | 27 | 14 08 to 14 22 | 57 | | |
| 6 53 to 7 07 | 28 | 14 23 to 14 37 | 58 | | |
| 7 08 to 7 22 | 29 | 14 38 to 14 52 | 59 | | |

If local meridian is east of standard meridian, subtract the correction from local time.

If local meridian is west of standard meridian, add the correction to local time.

For differences of longitude less than 15° , use the first part of the table. For greater differences use both parts thus: 47° 23' is equivalent to 45° + 2° 23', the correction for 45° is 3 hours, the correction for 2° 23' is 10 minutes; therefore the total correction for the difference in longitude 47° 23' is 3 hours and 10 minutes.

TABLE 6. — CONVERSION OF FEET TO CENTIMETERS

| Feet | Tenths of a Foot | | | | | | | | | | Feet |
|-----------|------------------|------|------|------|------|------|------|------|------|------|-----------|
| | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 | |
| 0 | 0 | 3 | 6 | 9 | 12 | 15 | 18 | 21 | 24 | 27 | 0 |
| 1 | 30 | 34 | 37 | 40 | 43 | 46 | 49 | 52 | 55 | 58 | 1 |
| 2 | 61 | 64 | 67 | 70 | 73 | 76 | 79 | 82 | 85 | 88 | 2 |
| 3 | 91 | 94 | 98 | 101 | 104 | 107 | 110 | 113 | 116 | 119 | 3 |
| 4 | 122 | 125 | 128 | 131 | 134 | 137 | 140 | 143 | 146 | 149 | 4 |
| 5 | 152 | 155 | 158 | 162 | 165 | 168 | 171 | 174 | 177 | 180 | 5 |
| 6 | 183 | 186 | 189 | 192 | 195 | 198 | 201 | 204 | 207 | 210 | 6 |
| 7 | 213 | 216 | 219 | 223 | 226 | 229 | 232 | 235 | 238 | 241 | 7 |
| 8 | 244 | 247 | 250 | 253 | 256 | 259 | 262 | 265 | 268 | 271 | 8 |
| 9 | 274 | 277 | 280 | 283 | 287 | 290 | 293 | 296 | 299 | 302 | 9 |
| 10 | 305 | 308 | 311 | 314 | 317 | 320 | 323 | 326 | 329 | 332 | 10 |
| 11 | 335 | 338 | 341 | 344 | 347 | 351 | 354 | 357 | 360 | 363 | 11 |
| 12 | 366 | 369 | 372 | 375 | 378 | 381 | 384 | 387 | 390 | 393 | 12 |
| 13 | 396 | 399 | 402 | 405 | 408 | 411 | 415 | 418 | 421 | 424 | 13 |
| 14 | 427 | 430 | 433 | 436 | 439 | 442 | 445 | 448 | 451 | 454 | 14 |
| 15 | 457 | 460 | 463 | 466 | 469 | 472 | 475 | 479 | 482 | 485 | 15 |
| 16 | 488 | 491 | 494 | 497 | 500 | 503 | 506 | 509 | 512 | 515 | 16 |
| 17 | 518 | 521 | 524 | 527 | 530 | 533 | 536 | 539 | 543 | 546 | 17 |
| 18 | 549 | 552 | 555 | 558 | 561 | 564 | 567 | 570 | 573 | 576 | 18 |
| 19 | 579 | 582 | 585 | 588 | 591 | 594 | 597 | 600 | 604 | 607 | 19 |
| 20 | 610 | 613 | 616 | 619 | 622 | 625 | 628 | 631 | 634 | 637 | 20 |
| 21 | 640 | 643 | 646 | 649 | 652 | 655 | 658 | 661 | 664 | 668 | 21 |
| 22 | 671 | 674 | 677 | 680 | 683 | 686 | 689 | 692 | 695 | 698 | 22 |
| 23 | 701 | 704 | 707 | 710 | 713 | 716 | 719 | 722 | 725 | 728 | 23 |
| 24 | 732 | 735 | 738 | 741 | 744 | 747 | 750 | 753 | 756 | 759 | 24 |
| 25 | 762 | 765 | 768 | 771 | 774 | 777 | 780 | 783 | 786 | 789 | 25 |
| 26 | 792 | 796 | 799 | 802 | 805 | 808 | 811 | 814 | 817 | 820 | 26 |
| 27 | 823 | 826 | 829 | 832 | 835 | 838 | 841 | 844 | 847 | 850 | 27 |
| 28 | 853 | 856 | 860 | 863 | 866 | 869 | 872 | 875 | 878 | 881 | 28 |
| 29 | 884 | 887 | 890 | 893 | 896 | 899 | 902 | 905 | 908 | 911 | 29 |
| 30 | 914 | 917 | 920 | 924 | 927 | 930 | 933 | 936 | 939 | 942 | 30 |
| 31 | 945 | 948 | 951 | 954 | 957 | 960 | 963 | 966 | 969 | 972 | 31 |
| 32 | 975 | 978 | 981 | 985 | 988 | 991 | 994 | 997 | 1000 | 1003 | 32 |
| 33 | 1006 | 1009 | 1012 | 1015 | 1018 | 1021 | 1024 | 1027 | 1030 | 1033 | 33 |
| 34 | 1036 | 1039 | 1042 | 1045 | 1049 | 1052 | 1055 | 1058 | 1061 | 1064 | 34 |
| 35 | 1067 | 1070 | 1073 | 1076 | 1079 | 1082 | 1085 | 1088 | 1091 | 1094 | 35 |
| 36 | 1097 | 1100 | 1103 | 1106 | 1109 | 1113 | 1116 | 1119 | 1122 | 1125 | 36 |
| 37 | 1128 | 1131 | 1134 | 1137 | 1140 | 1143 | 1146 | 1149 | 1152 | 1155 | 37 |
| 38 | 1158 | 1161 | 1164 | 1167 | 1170 | 1173 | 1177 | 1180 | 1183 | 1186 | 38 |
| 39 | 1189 | 1192 | 1195 | 1198 | 1201 | 1204 | 1207 | 1210 | 1213 | 1216 | 39 |
| 40 | 1219 | 1222 | 1225 | 1228 | 1231 | 1234 | 1237 | 1241 | 1244 | 1247 | 40 |
| 41 | 1250 | 1253 | 1256 | 1259 | 1262 | 1265 | 1268 | 1271 | 1274 | 1277 | 41 |
| 42 | 1280 | 1283 | 1286 | 1289 | 1292 | 1295 | 1298 | 1301 | 1305 | 1308 | 42 |
| 43 | 1311 | 1314 | 1317 | 1320 | 1323 | 1326 | 1329 | 1332 | 1335 | 1338 | 43 |
| 44 | 1341 | 1344 | 1347 | 1350 | 1353 | 1356 | 1359 | 1362 | 1366 | 1369 | 44 |
| 45 | 1372 | 1375 | 1378 | 1381 | 1384 | 1387 | 1390 | 1393 | 1396 | 1399 | 45 |
| 46 | 1402 | 1405 | 1408 | 1411 | 1414 | 1417 | 1420 | 1423 | 1426 | 1430 | 46 |
| 47 | 1433 | 1436 | 1439 | 1442 | 1445 | 1448 | 1451 | 1454 | 1457 | 1460 | 47 |
| 48 | 1463 | 1466 | 1469 | 1472 | 1475 | 1478 | 1481 | 1484 | 1487 | 1490 | 48 |
| 49 | 1494 | 1497 | 1500 | 1503 | 1506 | 1509 | 1512 | 1515 | 1518 | 1521 | 49 |

Feet to Meters = Centimeters divided by 100 (from above table)

Example: 09.40 feet = (287 centimeters) / (100) = 02.87 meters.

1 Meter = 100 centimeters

1 Foot = 0.30480061 meters

PUBLICATIONS RELATING TO TIDES AND TIDAL CURRENTS

TIDE TABLES

Advance information relative to the rise and fall of the tide is given in annual tide tables. These tables include the predicted times and heights of high and low waters for every day in the year for a number of reference stations and differences for obtaining similar predictions for numerous other places.

Tide Tables, Central and Western Pacific Ocean and Indian Ocean.

Tide Tables, East Coast of North and South America (Including Greenland).

Tide Tables, Europe and West Coast of Africa (Including the Mediterranean Sea).

Tide Tables, West Coast of North and South America (Including the Hawaiian Islands).

TIDAL CURRENT TABLES

Accompanying the rise and fall of the tide is a periodic horizontal flow of the water known as the tidal current. Advance information relative to these currents is made available in annual tidal current tables which include daily predictions of the times of slack water and the times and velocities of strength of flood and ebb currents for a number of waterways together with differences for obtaining predictions for numerous other places.

Tidal Current Tables, Atlantic Coast of North America.

Tidal Current Tables, Pacific Coast of North America and Asia.

GLOSSARY OF TERMS

- ANNUAL INEQUALITY**—Seasonal variation in the water level or current, more or less periodic, due chiefly to meteorological causes.
- APOGEAN TIDES OR TIDAL CURRENTS**—Tides of decreased range or currents of decreased speed occurring monthly as the result of the Moon being in apogee (farthest from the Earth).
- AUTOMATIC TIDE GAGE**—An instrument that automatically registers the rise and fall of the tide. In some instruments, the registration is accomplished by recording the heights at regular intervals in digital format, in others by a continuous graph in which the height versus corresponding time of the tide is recorded.
- BENCH MARK (BM)**—A fixed physical object or marks used as reference for a vertical datum. A *tidal bench mark* is one near a tide station to which the tide staff and tidal datums are referred. A *Geodetic bench mark* identifies a surveyed point in the National Geodetic Vertical Network.
- CHART DATUM**—The tidal datum to which soundings on a chart are referred. It is usually taken to correspond to low water elevation of the tide, and its depression below mean sea level is represented by the symbol Zo.
- CURRENT**—Generally, a horizontal movement of water. Currents may be classified as *tidal* and *nontidal*. Tidal currents are caused by gravitational interactions between the Sun, Moon, and Earth and are a part of the same general movement of the sea that is manifested in the vertical rise and fall, called *tide*. Nontidal currents include the permanent currents in the general circulatory systems of the sea as well as temporary currents arising from more pronounced meteorological variability.
- CURRENT DIFFERENCE**—Difference between the time of slack water (or minimum current) or strength of current in any locality and the time of the corresponding phase of the tidal current at a reference station, for which predictions are given in the *Tidal Current Tables*.
- CURRENT ELLIPSE**—A graphic representation of a rotary current in which the velocity of the current at different hours of the tidal cycle is represented by radius vectors and vectorial angles. A line joining the extremities of the radius vectors will form a curve roughly approximating an ellipse. The cycle is completed in one-half tidal day or in a whole tidal day according to whether the tidal current is of the semidiurnal or the diurnal type. A current of the mixed type will give a curve of two unequal loops each tidal day.
- CURRENT METER**—An instrument for measuring the speed and direction or just the speed of a current. The measurements are usually Eulerian since the meter is most often fixed or moored at a specific location.
- DATUM (vertical)**—For marine applications, a base elevation used as a reference from which to reckon heights or depths. It is called a *tidal datum* when defined by a certain phase of the tide. Tidal datums are local datums and should not be extended into areas which have differing topographic features without substantiating measurements. In order that they may be recovered when needed, such datums are referenced to fixed points known as *bench marks*.
- DAYLIGHT SAVING TIME**—A time used during the summer in some localities in which clocks are advanced 1 hour from the usual standard time.
- DIURNAL**—Having a period or cycle of approximately 1 tidal day. Thus, the tide is said to be diurnal when only one high water and one low water occur during a tidal day, and the tidal current is said to be diurnal when there is a single flood and single ebb period in the tidal day. A rotary current is diurnal if it changes its direction through all points of the compass once each tidal day.
- DIURNAL INEQUALITY**—The difference in height of the two high waters or of the two low waters of each day; also the difference in speed between the two flood tidal currents or the two ebb tidal currents of each day. The difference changes with the declination of the Moon and to a lesser extent with the declination of the Sun. In general, the inequality tends to increase with an increasing declination, either north or south, and to diminish as the Moon approaches the Equator. *Mean diurnal high water inequality* (DHQ) is one-half the average difference between the two high waters of each day observed over a specific 19-year Metonic cycle (the National Tidal Datum Epoch). It is obtained by subtracting the mean of all high waters from the mean of the higher high waters. *Mean diurnal low water inequality* (DLQ) is one-half the average difference between the two low waters of each day observed over a specific 19-year Metonic cycle (the National Tidal Datum Epoch). It is obtained by subtracting the mean of the lower low waters from the mean of all low waters. *Tropic high water inequality* (HWQ) is the average difference between the two high waters of the day at the times of the tropic tides. *Tropic low water inequality* (LWQ) is the average difference between the two low waters of the day at the times of the tropic tides. Mean and tropic inequalities as

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defined above are applicable only when the type of tide is either semidiurnal or mixed. Diurnal inequality is sometimes called *declinational inequality*.

DOUBLE EBB—An ebb tidal current where, after ebb begins, the speed increases to a maximum called *first ebb*; it then decreases, reaching a *minimum ebb* near the middle of the ebb period (and at some places it may actually run in a flood direction for a short period); it then again ebbs to a maximum speed called second ebb after which it decreases to slack water.

DOUBLE FLOOD—A flood tidal current where, after flood begins, the speed increases to a maximum called first flood; it then decreases, reaching a minimum flood near the middle of the flood period (and at some places it may actually run in an ebb direction for a short period); it then again floods to a maximum speed called second flood after which it decreases to slack water.

DOUBLE TIDE—A double-headed tide, that is, a high water consisting of two maxima of nearly the same height separated by a relatively small depression, or a low water consisting of two minima separated by a relatively small elevation. Sometimes, it is called an agger.

DURATION OF FLOOD AND DURATION OF EBB—Duration of flood is the interval of time in which a tidal current is flooding, and the *duration of ebb* is the interval in which it is ebbing. Together they cover, on an average, a period of 12.42 hours for a semidiurnal tidal current or a period of 24.84 hours for a diurnal current. In a normal semidiurnal tidal current, the duration of flood and duration of ebb will each be approximately equal to 6.21 hours, but the times may be modified greatly by the presence of a nontidal flow. In a river the duration of ebb is usually longer than the duration of flood because of the freshwater discharge, especially during the spring when snow and ice melt are the predominant influences.

DURATION OF RISE AND DURATION OF FALL—*Duration of rise* is the interval from low water to high water, and *duration of fall* is the interval from high water to low water. Together they cover, on an average, a period of 12.42 hours for a semidiurnal tide or a period of 24.84 hours for a diurnal tide. In a normal semidiurnal tide, the duration of rise and duration of fall will each be approximately equal to 6.21 hours, but in shallow waters and in rivers there is a tendency for a decrease in the duration of rise and a corresponding increase in the duration of fall.

EBB CURRENT—The movement of a tidal current away from shore or down a tidal river or estuary. In the

mixed type of reversing tidal current, the terms *greater ebb* and *lesser ebb* are applied respectively to the ebb tidal currents of greater and lesser speed of each day. The terms *maximum ebb* and *minimum ebb* are applied to the maximum and minimum speeds of a current running continuously ebb, the speed alternately increasing and decreasing without coming to a slack or reversing. The expression maximum ebb is also applicable to any ebb current at the time of greatest speed.

EQUATORIAL TIDAL CURRENTS—Tidal currents occurring semimonthly as a result of the Moon being over the Equator. At these times the tendency of the Moon to produce a diurnal inequality in the tidal current is at a minimum.

EQUATORIAL TIDES—Tides occurring semi monthly as the result of the Moon being over the Equator. At these times the tendency of the Moon to produce a diurnal inequality in the tide is at a minimum.

FLOOD CURRENT—The movement of a tidal current toward the shore or up a tidal river or estuary. In the mixed type of reversing current, the terms *greater flood* and *lesser flood* are applied respectively to the flood currents of greater and lesser speed of each day. The terms *maximum flood* and *minimum flood* are applied to the maximum and minimum speeds of a flood current, the speed of which alternately increases and decreases without coming to a slack or reversing. The expression maximum flood is also applicable to any flood current at the time of greatest speed.

GREAT DIURNAL RANGE (Gt)—The difference in height between mean higher high water and mean lower low water. The expression may also be used in its contracted form, *diurnal range*.

GREENWICH INTERVAL—An interval referred to the transit of the Moon over the meridian of Greenwich as distinguished from the local interval which is referred to the Moon's transit over the local meridian. The relation in hours between Greenwich and local intervals may be expressed by the formula:

Greenwich interval = local interval + 0.069 L
where L is the west longitude of the local meridian in degrees. For east longitude, L is to be considered negative.

GULF COAST LOW WATER DATUM—A chart datum. Specifically, the tidal datum formerly designated for the coastal waters of the Gulf Coast of the United States. It was defined as *mean lower low water* when the type of tide was mixed and *mean low water* when the type of tide was diurnal.

HALF-TIDE LEVEL—See *mean tide level*.

GLOSSARY OF TERMS

- HARMONIC ANALYSIS**—The mathematical process by which the observed tide or tidal current at any place is separated into basic harmonic constituents.
- HARMONIC CONSTANTS**—The amplitudes and epochs of the harmonic constituents of the tide or tidal current at any place.
- HARMONIC CONSTITUENT**—One of the harmonic elements in a mathematical expression for the tide-producing force and in corresponding formulas for the tide or tidal current. Each constituent represents a periodic change or variation in the relative positions of the Earth, Moon, and Sun. A single constituent is usually written in the form $y=A \cos (at+\alpha)$, in which y is a function of time as expressed by the symbol t and is reckoned from a specific origin. The coefficient A is called the amplitude of the constituent and is a measure of its relative importance. The angle $(at+\alpha)$ changes uniformly and its value at any time is called the phase of the constituent. The speed of the constituent is the rate of change in its phase and is represented by the symbol a in the formula. The quantity α is the phase of the constituent at the initial instant from which the time is reckoned. The period of the constituent is the time required for the phase to change through 360° and is the cycle of the astronomical condition represented by the constituent.
- HIGH WATER (HW)**—The maximum height reached by a rising tide. The height may be due solely to the periodic tidal forces or it may have superimposed upon it the effects of prevailing meteorological conditions. Use of the synonymous term, *high tide*, is discouraged.
- HIGHER HIGH WATER (HHW)**—The higher of the two high waters of any tidal day.
- HIGHER LOW WATER (HLW)**—The higher of the two low waters of any tidal day.
- HYDRAULIC CURRENT**—A current in a channel caused by a difference in the surface level at the two ends. Such a current may be expected in a strait connecting two bodies of water in which the tides differ in time or range. The current in the East River, N.Y., connecting Long Island Sound and New York Harbor, is an example.
- KNOT**—A unit of speed, one international nautical mile (1,852.0 meters or 6,076.11549 international feet) per hour.
- LOW WATER (LW)**—The minimum height reached by a falling tide. The height may be due solely to the periodic tidal forces or it may have superimposed upon it the effects of meteorological conditions. Use of the synonymous term, *low tide*, is discouraged.
- LOWER HIGH WATER (LHW)**—The lower of the two high waters of any tidal day.
- LOWER LOW WATER (LLW)**—The lower of the two low waters of any tidal day.
- LUNAR DAY**—The time of the rotation of the Earth with respect to the Moon, or the interval between two successive upper transits of the Moon over the meridian of a place. The mean lunar day is approximately 24.84 solar hours long, or 1.035 times as long as the mean solar day.
- LUNAR INTERVAL**—The difference in time between the transit of the Moon over the meridian of Greenwich and over a local meridian. The average value of this interval expressed in hours is $0.069 L$, in which L is the local longitude in degrees, positive for west longitude and negative for east longitude. The lunar interval equals the difference between the local and Greenwich interval of a tide or current phase.
- LUNICURRENT INTERVAL**—The interval between the Moon's transit (upper or lower) over the local or Greenwich meridian and a specified phase of the tidal current following the transit. Examples: *strength of flood interval and strength of ebb interval*, which may be abbreviated to *flood interval and ebb interval*, respectively. The interval is described as local or Greenwich according to whether the reference is to the Moon's transit over the local or Greenwich meridian. When not otherwise specified, the reference is assumed to be local.
- LUNITIDAL INTERVAL**—The interval between the Moon's transit (upper or lower) over the local or Greenwich meridian and the following high or low water. The average of all high water intervals for all phases of the Moon is known as *mean high water lunitidal interval* and is abbreviated to high water interval (HWI). Similarly the *mean low water lunitidal interval* is abbreviated to low water interval (LWI). The interval is described as local or Greenwich according to whether the reference is to the transit over the local or Greenwich meridian. When not otherwise specified, the reference is assumed to be local.
- MEAN HIGH WATER (MHW)**—A tidal datum. The arithmetic mean of the high water heights observed over a specific 19-year Metonic cycle (the National Tidal Datum Epoch). For stations with shorter series, simultaneous observational comparisons are made with a primary control tide station in order to derive the equivalent of a 19-year value.

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- MEAN HIGHER HIGH WATER (MHHW)**—A tidal datum. The arithmetic mean of the higher high water heights of a mixed tide observed over a specific 19-year Metonic cycle (the National Tidal Datum Epoch). Only the higher high water of each pair of high waters, or the only high water of a tidal day is included in the mean.
- MEAN HIGHER HIGH WATER LINE (MHHWL)**—The intersection of the land with the water surface at the elevation of mean higher high water.
- MEAN LOW WATER (MLW)**—A tidal datum. The arithmetic mean of the low water heights observed over a specific 19-year Metonic cycle (the National Tidal Datum Epoch). For stations with shorter series, simultaneous observational comparisons are made with a primary control tide station in order to derive the equivalent of a 19-year value.
- MEAN LOW WATER SPRINGS (MLWS)**—A tidal datum. Frequently abbreviated *spring low water*. The arithmetic mean of the low water heights occurring at the time of the spring tides observed over a specific 19-year Metonic cycle (the National Tidal Datum Epoch).
- MEAN LOWER LOW WATER (MLLW)**—A tidal datum. The arithmetic mean of the lower low water heights of a mixed tide observed over a specific 19-year Metonic cycle (the National Tidal Datum Epoch). Only the lower low water of each pair of low waters, or the only low water of a tidal day is included in the mean.
- MEAN RANGE OF TIDE (Mn)**—The difference in height between mean high water and mean low water.
- MEAN RIVER LEVEL**—A tidal datum. The average height of the surface of a tidal river at any point for all stages of the tide observed over a 19-year Metonic cycle (the National Tidal Datum Epoch), usually determined from hourly height readings. In rivers subject to occasional freshets the river level may undergo wide variations, and for practical purposes certain months of the year may be excluded in the determination of tidal datums. For charting purposes, tidal datums for rivers are usually based on observations during selected periods when the river is at or near low water stage.
- MEAN SEA LEVEL (MSL)**—A tidal datum. The arithmetic mean of hourly water elevations observed over a specific 19-year Metonic cycle (the National Tidal Datum Epoch). Shorter series are specified in the name; e.g., monthly mean sea level and yearly mean sea level.
- MEAN TIDE LEVEL (MTL)**—Also called half-tide level. A tidal datum midway between mean high water and mean low water.
- MIXED TIDE**—Type of tide with a large inequality in the high and/or low water heights, with two high waters and two low waters usually occurring each tidal day. In strictness, all tides are mixed but the name is usually applied to the tides intermediate to those predominantly semidiurnal and those predominantly diurnal.
- NATIONAL TIDAL DATUM EPOCH**—The specific 19-year period adopted by the National Ocean Service as the official time segment over which tide observations are taken and reduced to obtain mean values (e.g., mean lower low water, etc.) for tidal datums. It is necessary for standardization because of periodic and apparent secular trends in sea level. The present National Tidal Datum Epoch is 1960 through 1978. It is reviewed annually for possible revision and must be actively considered for revision every 25 years.
- NEAP TIDES OR TIDAL CURRENTS**—Tides of decreased range or tidal currents of decreased speed occurring semimonthly as the result of the Moon being in quadrature. The *neap range* (N_p) of the tide is the average semidiurnal range occurring at the time of neap tides and is most conveniently computed from the harmonic constants. It is smaller than the mean range where the type of tide is either semidiurnal or mixed and is of no practical significance where the type of tide is diurnal. The average height of the high waters of the neap tides is called *neap high water* or *high water neaps* (MHWN) and the average height of the corresponding low waters is called neap low water or low water neaps (MLWN).
- PERIGEAN TIDES OR TIDAL CURRENTS**—Tides of increased range or tidal currents of increased speed occurring monthly as the result of the Moon being in perigee or nearest the Earth. The *perigean range* (P_n) of tide is the average semidiurnal range occurring at the time of perigean tides and is most conveniently computed from the harmonic constants. It is larger than the mean range where the type of tide is either semidiurnal or mixed, and is of no practical significance where the type of tide is diurnal.
- RANGE OF TIDE**—The difference in height between consecutive high and low waters, the *mean range* is the difference in height between mean high water and mean low water. Where the type of tide is diurnal the mean range is the same as the diurnal range. For

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other ranges, see great diurnal, spring, neap, perigean, apogean, and tropic tides.

REFERENCE STATION—A tide or current station for which independent daily predictions are given in the *Tide Tables and Tidal Current Tables*, and from which corresponding predictions are obtained for subordinate stations by means of differences and ratios.

REVERSING CURRENT—A tidal current which flows alternately in approximately opposite directions with a slack water at each reversal of direction. Currents of this type usually occur in rivers and straits where the direction of flow is more or less restricted to certain channels. When the movement is towards the shore or up a stream, the current is said to be flooding, and when in the opposite direction it is said to be ebbing. The combined flood and ebb movement including the slack water covers, on an average, 12.42 hours for the semidiurnal current. If unaffected by a nontidal flow, the flood and ebb movements will each last about 6 hours, but when combined with such a flow, the durations of flood and ebb may be quite unequal. During the flow in each direction the speed of the current will vary from zero at the time of slack water to a maximum about midway between the slacks.

ROTARY CURRENT—A tidal current that flows continually with the direction of flow changing through all points of the compass during the tidal period. Rotary currents are usually found offshore where the direction of flow is not restricted by any barriers. The tendency for the rotation in direction has its origin in the Coriolis force and, unless modified by local conditions, the change is clockwise in the Northern Hemisphere and counterclockwise in the Southern. The speed of the current usually varies throughout the tidal cycle, passing through the two maxima in approximately opposite directions and the two minima with the direction of the current at approximately 90° from the direction at time of maximum speed.

SEMIIDIURNAL—Having a period or cycle of approximately one-half of a tidal day. The predominating type of tide throughout the world is semidiurnal, with two high waters and two low waters each tidal day. The tidal current is said to be semidiurnal when there are two flood and two ebb periods each day.

SET (OF CURRENT)—The direction *towards* which the current flows.

SLACK WATER—The state of a tidal current when its speed is near zero, especially the moment when a

reversing current changes direction and its speed is zero. The term is also applied to the entire period of low speed near the time of turning of the current when it is too weak to be of any practical importance in navigation. The relation of the time of slack water to the tidal phases varies in different localities. For standing tidal waves, slack water occurs near the times of high and low water, while for progressive tidal waves, slack water occurs midway between high and low water.

SPRING TIDES OR TIDAL CURRENTS—Tides of increased range or tidal currents of increased speed occurring semimonthly as the result of the Moon being new or full. The *spring range* (Sg) of tide is the average semidiurnal range occurring at the time of spring tides and is most conveniently computed from the harmonic constants. It is larger than the mean range where the type of tide is either semidiurnal or mixed, and is of no practical significance where the type of tide is diurnal. The mean of the high waters of the spring tide is called *spring high water or mean high water springs* (MHWS), and the average height of the corresponding low waters is called *spring low water or mean low water springs* (MLWS).

STAND OF TIDE—Sometimes called a platform tide. An interval at high or low water when there is no sensible change in the height of the tide. The water level is stationary at high and low water for only an instant, but the change in level near these times is so slow that it is not usually perceptible. In general, the duration of the apparent stand will depend upon the range of tide, being longer for a small range than for a large range, but where there is a tendency for a double tide the stand may last for several hours even with a large range of tide.

STANDARD TIME—A kind of time based upon the transit of the Sun over a certain specified meridian, called the *time meridian*, and adopted for use over a considerable area. With a few exceptions, standard time is based upon some meridian which differs by a multiple of 15° from the meridian of Greenwich.

STRENGTH OF CURRENT—Phase of tidal current in which the speed is a maximum; also the speed at this time. Beginning with slack before flood in the period of a reversing tidal current (or minimum before flood in a rotary current), the speed gradually increases to flood strength and then diminishes to slack before ebb (or minimum before ebb in a rotary current), after which the current turns in direction, the speed increases to ebb strength and then diminishes to slack before flood completing the cycle. If it is assumed that the speed throughout the cycle varies as the ordinates of a cosine curve, it can

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be shown that the average speed for an entire flood or ebb period is equal to $2/\pi$ or 0.6366 of the speed of the corresponding strength of current.

SUBORDINATE CURRENT STATION—(1) A current station from which a relatively short series of observations is reduced by comparison with simultaneous observations from a control current station. (2) A station listed in the *Tidal Current Tables* for which predictions are to be obtained by means of differences and ratios applied to the full predictions at a reference station .

SUBORDINATE TIDE STATION—(1) A tide station from which a relatively short series of observations is reduced by comparison with simultaneous observations from a tide station with a relatively long series of observations. (2) A station listed in the *Tide Tables* for which predictions are to be obtained by means of differences and ratios applied to the full predictions at a reference station.

TIDAL CURRENT TABLES—Tables which give daily predictions of the times and speeds of the tidal currents. These predictions are usually supplemented by current differences and constants through which additional predictions can be obtained for numerous other places.

TIDAL DIFFERENCE—Difference in time or height of a high or low water at a subordinate station and at a reference station for which predictions are given in the *Tide Tables*. The difference, when applied according to sign to the prediction at the reference station, gives the corresponding time or height for the subordinate station .

TIDE—The periodic rise and fall of the water resulting from gravitational interactions between the Sun, Moon, and Earth. The vertical component of the particulate motion of a tidal wave. Although the accompanying horizontal movement of the water is part of the same phenomenon, it is preferable to designate the motion as tidal current.

TIDE TABLES—Tables which give daily predictions of the times and heights of high and low waters. These predictions are usually supplemented by tidal differences and constants through which additional predictions can be obtained for numerous other places.

TIME MERIDIAN—A meridian used as a reference for time.

TROPIC CURRENTS—Tidal currents occurring semimonthly when the effect of the Moon's maximum declination is greatest. At these times the tendency of the Moon to produce a diurnal inequality in the current is at a maximum.

TROPIC RANGES—The *great tropic range* (G_c), or *tropic range*, is the difference in height between tropic higher high water and tropic lower low water. The *small tropic range* (S_c) is the difference in height between tropic lower high water and tropic higher low water. The *mean tropic range* (M_c) is the mean between the great tropic range and the small tropic range. The small tropic range and the mean tropic range are applicable only when the type of tide is semidiurnal or mixed. Tropic ranges are most conveniently computed from the harmonic constants.

TROPIC TIDES—Tides occurring semimonthly when the effect of the Moon's maximum declination is greatest. At these times there is a tendency for an increase in the diurnal range. The tidal datums pertaining to the tropic tides are designated as *tropic higher high water* ($TcHHW$), *tropic lower high water* ($TcLHW$), *tropic higher low water* ($TcHLW$), and *tropic lower low water* ($TcLLW$).

TYPE OF TIDE—A classification based on characteristic forms of a tide curve. Qualitatively, when the two high waters and two low waters of each tidal day are approximately equal in height, the tide is said to be *semidiurnal*; when there is a relatively large diurnal inequality in the high or low waters or both, it is said to be *mixed*; and when there is only one high water and one low water in each tidal day, it is said to be *diurnal*.

VANISHING TIDE—In a mixed tide with very large diurnal inequality, the lower high water (or higher low water) frequently becomes indistinct (or vanishes) at time of extreme declinations. During these periods the diurnal tide has such overriding dominance that the semidiurnal tide, although still present, cannot be readily seen on the tide curve.

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| Tubuai or Austral Isl ands. | 2831, 2833 | Vai Tahu. | 2817 |
| Tuburan. | 2359 | Vani na Bay. | 269 |
| Tugas Point. | 2185 | Vanuatu. | 3071-3083 |
| T' u-ko-k' u Kang. | 1475 | Venus Bay. | 3287 |
| Tukuran. | 2221 | Vestnik Bay. | 125 |
| Tulagi Isl and. | 3091 | Vetrychnui Point. | 273 |
| Tulangawang River entrance. | 1815 | Victoria Harbor. | 2063 |
| Tu-I an Wan. | 1437 | Vietnam. | 1575-1675 |
| Tulayan Isl and. | 2109 | Vila Harbor. | 3071 |
| Tul ear. | 3915 | Virac. | 2589 |
| Tul ukbetung. | 1825 | Viyakhtu Bay. | 239 |
| Tul uk Perapat. | 1923 | Vizagapatam. | 3481 |
| Tuminda Channel. | 2077 | Vladivostok. | 287 |
| Tunghi Bay. | 3855 | Vohemar. | 3903 |
| Tung-kang Po-ti. | 1447 | Vung Chua Bay. | 1611 |
| Tung-p' an Hsu. | 1459 | Vung Ro. | 1631 |
| Tungsan-got. | 1157 | Vung Xuan Dai. | 1629 |
| Tuoji Dao. | 1313 | | |
| Tuti cori n. | 3495 | W | |
| Tyul eni y. | 179 | Wa Kyun. | 3425 |
| Tyuti kha Bay. | 275 | Wadomari. | 959 |
| | | Wai anae. | 2753 |
| U | | Wai heke. | 3049 |
| Uban Point. | 2405 | Wai kane. | 2767 |
| Ubay. | 2379 | Wai kato River. | 3017 |
| Ube Ko. | 739 | Wai-ling-ting. | 1523 |
| Uchi umi. | 827 | Wai manalo. | 2763 |
| Udacha Bay. | 143 | Wai mea Bay. | 2741 |
| Udj ung Pangah. | 1875 | Wai papa Point. | 2931 |
| Udo-sudo. | 1079 | Wai tara River entrance. | 3011 |
| Udskaya Bay. | 153 | Wajima Ko. | 793 |
| Ugol naya Bay. | 101 | Wakamatsu Ko. | 755 |
| Uj ae Atoll. | 2699 | Wakamatsu Ura. | 895 |
| Ujel ang Atoll. | 2687 | Wakanoura Wan. | 579 |
| Uken. | 951 | Wake Isl and * (212). | 2685 |
| Uke Shi ma. | 955 | Waki moto. | 399 |
| Uleel heue. | 1725 | Wakkanai Ko. | 427 |
| Ul i thi Isl ands. | 2645 | Wallaroo. | 3325 |
| Ul i ung-do. | 1009 | Wallis Isl ands. | 2859 |
| Ul san. | 1017 | Wando. | 1073 |
| Ul ugan Bay. | 2251 | Wanganui River entrance. | 3005 |
| Umiray River entrance. | 2555 | Wanwangoukou. | 1295 |
| Umo-do. | 1135 | Warba Spi t. | 3633 |
| Um Qasr. | 3629 | Warrnambool. | 3301 |
| Umm ad Dal kh. | 3725 | Warshei k. | 3825 |
| Umm al Qaywayn. | 3741 | Wasi n Isl and. | 3841 |
| Umm Al -Aseed. | 3631 | Wasi an River entrance. | 3137 |
| Umm an Nar. | 3719 | Wei hekou. | 1303 |
| Unggi -hang. | 989 | Wei zhou Dao. | 1565 |
| Unmu-do. | 1189 | Wellington * (264). | 2999 |
| Unoshi ma Ko. | 733 | Wen Wei Rock. | 1521 |
| Unp' ung-p' o. | 1029 | West Brother. | 1527 |
| Unten Ko. | 971 | West Harbor. | 3107 |
| Urado Ko. | 571 | West Haven Inlet. | 2963 |
| Uraga Ko. | 489 | West Passage, Pal au Isl and. | 2639 |
| Urakami Ko. | 539 | Westport. | 2961 |
| Urangan Jetty. | 3235 | Whangarei Heads. | 3039 |
| Urkt Bay entrance. | 167 | Whangaroa. | 3035 |
| Uruppu To. | 337-343 | Wilkes Station. | 3961 |
| Ushi buka. | 855 | Winter Cove. | 3283 |
| Ushimado Ko. | 633 | Wis-som. | 1043 |
| Ushiro Wan. | 225 | Wol eai Isl ands. | 2647 |
| Ushishi ro To. | 329 | Wol lae-do. | 1165 |
| Ust Bolsheretsk. | 129 | | |

ASTRONOMICAL DATA, 2011

| January | | | |
|---------|----|----|----|
| | d | h | m |
| S | 1 | 02 | .. |
| ● | 4 | 09 | 03 |
| E | 9 | 16 | .. |
| A | 10 | 05 | .. |
| ☾ | 12 | 11 | 31 |
| N | 16 | 23 | .. |
| ○ | 19 | 21 | 21 |
| P | 22 | 00 | .. |
| E | 23 | 05 | .. |
| ☾ | 26 | 12 | 57 |
| S | 29 | 17 | .. |

| February | | | |
|----------|----|----|----|
| | d | h | m |
| ● | 3 | 02 | 31 |
| E | 6 | 00 | .. |
| A | 6 | 23 | .. |
| ☾ | 11 | 07 | 18 |
| N | 13 | 09 | .. |
| ○ | 18 | 08 | 36 |
| P | 19 | 07 | .. |
| E | 19 | 15 | .. |
| ☾ | 24 | 23 | 26 |
| S | 25 | 22 | .. |

| March | | | |
|----------------|----|----|----|
| | d | h | m |
| ● | 4 | 20 | 46 |
| E | 5 | 06 | .. |
| A | 6 | 08 | .. |
| N | 12 | 17 | .. |
| ☾ | 12 | 23 | 45 |
| E | 19 | 02 | .. |
| ○ | 19 | 18 | 10 |
| P | 19 | 19 | .. |
| ☾ _m | 20 | 23 | 21 |
| S | 25 | 05 | .. |
| ☾ | 26 | 12 | 07 |

| April | | | |
|-------|----|----|----|
| | d | h | m |
| E | 1 | 12 | .. |
| A | 2 | 09 | .. |
| ● | 3 | 14 | 32 |
| N | 8 | 23 | .. |
| ☾ | 11 | 12 | 05 |
| E | 15 | 13 | .. |
| P | 17 | 06 | .. |
| ○ | 18 | 02 | 44 |
| S | 21 | 14 | .. |
| ☾ | 25 | 02 | 47 |
| E | 28 | 18 | .. |
| A | 29 | 18 | .. |

| May | | | |
|-----|----|----|----|
| | d | h | m |
| ● | 3 | 06 | 51 |
| N | 6 | 04 | .. |
| ☾ | 10 | 20 | 33 |
| E | 12 | 20 | .. |
| P | 15 | 11 | .. |
| ○ | 17 | 11 | 09 |
| S | 19 | 00 | .. |
| ☾ | 24 | 18 | 52 |
| E | 26 | 00 | .. |
| A | 27 | 04 | .. |

| June | | | |
|----------------|----|----|----|
| | d | h | m |
| ● | 1 | 21 | 03 |
| N | 2 | 10 | .. |
| ☾ | 9 | 02 | 11 |
| E | 9 | 02 | .. |
| P | 12 | 01 | .. |
| S | 15 | 09 | .. |
| ○ | 15 | 20 | 14 |
| ☾ _j | 21 | 17 | 16 |
| E | 22 | 08 | .. |
| ☾ | 23 | 11 | 48 |
| A | 24 | 04 | .. |
| N | 29 | 18 | .. |

| July | | | |
|------|----|----|----|
| | d | h | m |
| ● | 1 | 08 | 54 |
| E | 6 | 08 | .. |
| P | 7 | 14 | .. |
| ☾ | 8 | 06 | 29 |
| S | 12 | 17 | .. |
| ○ | 15 | 06 | 40 |
| E | 19 | 17 | .. |
| A | 21 | 23 | .. |
| ☾ | 23 | 05 | 02 |
| N | 27 | 03 | .. |
| ● | 30 | 18 | 40 |

| August | | | |
|--------|----|----|----|
| | d | h | m |
| E | 2 | 15 | .. |
| P | 2 | 21 | .. |
| ☾ | 6 | 11 | 08 |
| S | 9 | 00 | .. |
| ○ | 13 | 18 | 57 |
| E | 16 | 01 | .. |
| A | 18 | 16 | .. |
| ☾ | 21 | 21 | 54 |
| N | 23 | 13 | .. |
| ● | 29 | 03 | 04 |
| E | 30 | 00 | .. |
| P | 30 | 17 | .. |

| September | | | |
|----------------|----|----|----|
| | d | h | m |
| ☾ | 4 | 17 | 39 |
| S | 5 | 05 | .. |
| E | 12 | 08 | .. |
| ○ | 12 | 09 | 27 |
| A | 15 | 06 | .. |
| N | 19 | 21 | .. |
| ☾ | 20 | 13 | 39 |
| ☾ _s | 22 | 09 | 05 |
| E | 26 | 11 | .. |
| ● | 27 | 11 | 09 |
| P | 28 | 01 | .. |

| October | | | |
|---------|----|----|----|
| | d | h | m |
| S | 2 | 12 | .. |
| ☾ | 4 | 03 | 15 |
| E | 9 | 14 | .. |
| ○ | 12 | 02 | 06 |
| A | 12 | 12 | .. |
| N | 17 | 03 | .. |
| ☾ | 20 | 02 | 30 |
| E | 23 | 21 | .. |
| P | 26 | 12 | .. |
| ● | 26 | 19 | 56 |
| S | 29 | 20 | .. |

| November | | | |
|----------|----|----|----|
| | d | h | m |
| ☾ | 2 | 16 | 38 |
| E | 5 | 19 | .. |
| A | 8 | 13 | .. |
| ○ | 10 | 20 | 16 |
| N | 13 | 08 | .. |
| ☾ | 18 | 15 | 09 |
| E | 20 | 05 | .. |
| P | 23 | 23 | .. |
| ● | 25 | 06 | 10 |
| S | 26 | 07 | .. |

| December | | | |
|----------------|----|----|----|
| | d | h | m |
| ☾ | 2 | 09 | 52 |
| E | 3 | 02 | .. |
| A | 6 | 01 | .. |
| N | 10 | 14 | .. |
| ○ | 10 | 14 | 36 |
| E | 17 | 11 | .. |
| ☾ | 18 | 00 | 48 |
| P | 22 | 03 | .. |
| ☾ _d | 22 | 05 | 30 |
| S | 23 | 18 | .. |
| ● | 24 | 18 | 06 |
| E | 30 | 10 | .. |

LUNAR DATA

- | | |
|--|---|
| <ul style="list-style-type: none"> ● -- new Moon ☾ -- first quarter ○ -- full Moon ☾ -- last quarter | <ul style="list-style-type: none"> A -- Moon in apogee P -- Moon in perigee N -- Moon farthest north of Equator E -- Moon on Equator S -- Moon farthest south of Equator |
|--|---|

SOLAR DATA

- ☾_m -- March equinox
- ☾_j -- June solstice
- ☾_s -- September equinox
- ☾_d -- December solstice

Greenwich mean time (GMT) or universal time (UT) is the mean solar time on the Greenwich meridian reckoned in days of 24 mean solar hours written as 00^h at midnight and 12^h at noon. To convert the above times to those of other standard time meridians, add 1 hour for each 15° of east longitude of the desired meridian and subtract 1 hour for each 15° of west longitude. This table was compiled from data supplied by the Nautical Almanac Office, United States Naval Observatory.