

Tide Tables 2016 – East Coast of North and South America including Greenland

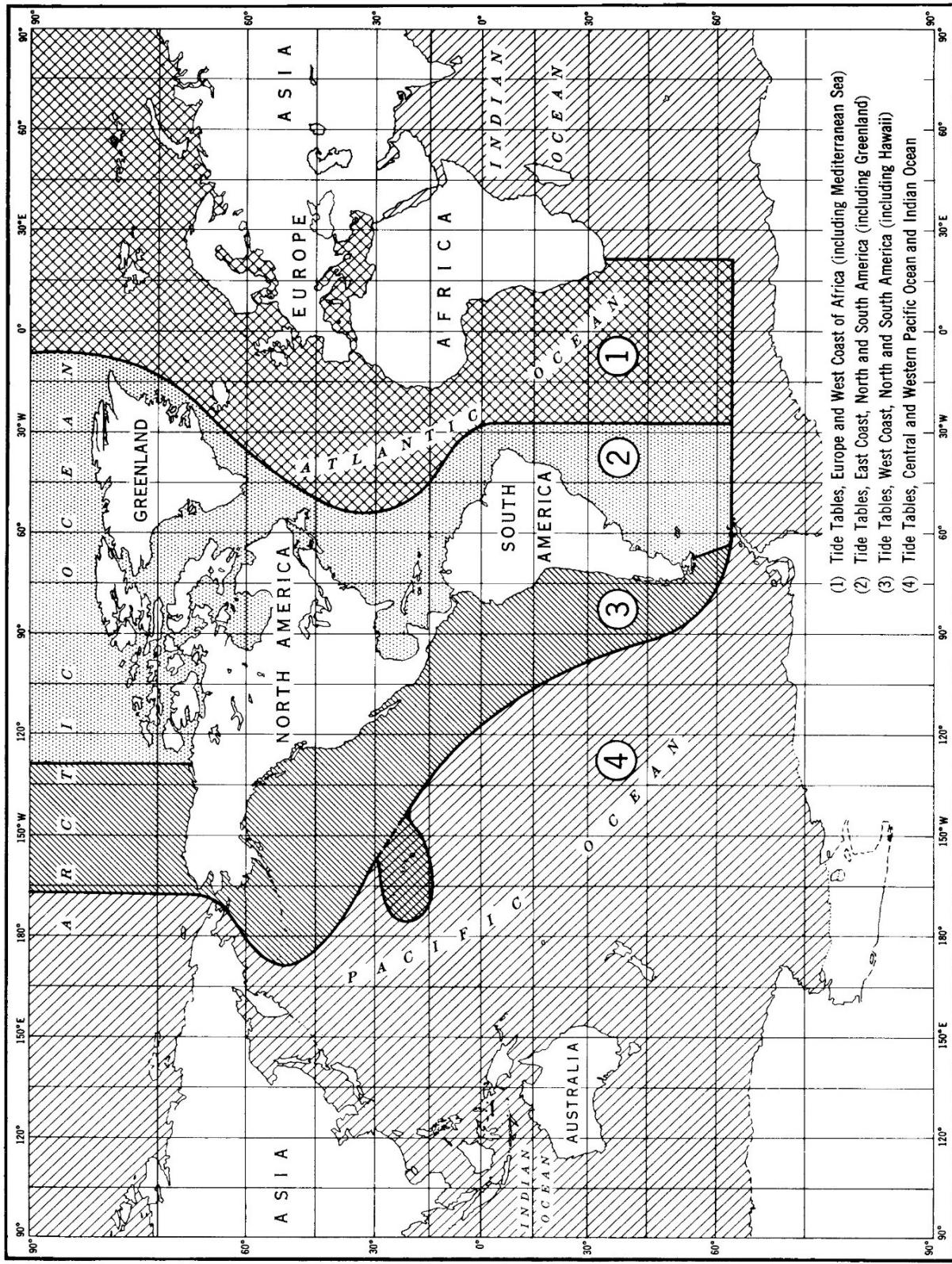
Tide Tables 2016 HIGH AND LOW WATER PREDICTIONS

East Coast of North and South America

Including Greenland



INDEX OF TIDE TABLE COVERAGE



Tide Tables 2016 HIGH AND LOW WATER PREDICTIONS

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Including Greenland

Issued 2015

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 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 stations, predictions are available on the NOS, Center for Operational Oceanographic Products and Services (CO-OPS), website, (<http://tidesandcurrents.noaa.gov/>).

In addition to predictions, the website 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

A list of authorized sales agents is published in the Nautical Chart Catalogs or may be obtained on request from the National Ocean Service.

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

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
Navigation Services Division
1315 East-West Highway
Silver Spring, MD 20910
(888) 990-NOAA (6622)

SOURCES OF ADDITIONAL INFORMATION

WEBSITES

Center for Operational Oceanographic Products and Services
(PORTS® * Predictions * Observations * Bench Marks * Tides Online * Great Lakes Online)
<http://tidesandcurrents.noaa.gov>

Marine Chart Division - <http://www.nauticalcharts.noaa.gov>
Office for Coastal Management - <http://www.coast.noaa.gov>
Ocean Predictions Center - <http://www.opc.ncep.noaa.gov>
National Center for Environmental Information - <https://www.ncei.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.oceanservice.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.weather.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.

Effective January 1, 1989, the chart datum and tidal datum chart, for all nautical charts, bathymetric maps, and tide tables covering the east coast of the United States and areas of the Caribbean Islands were changed from mean low water (MLW) to mean lower low water (MLLW). Notice of changes in tidal datums established through the "National Tidal Datum Convention of 1980" Federal Register, vol. 45, No. 207, Thursday, October 23, 1980, p. 70296-70297.

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 page on the inside back cover, it should be remembered that daylight saving time is based on a meridian 15° east of the normal standard meridian for a particular place.

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 sites:

PORTS® SITES	VOICE ACCESS	INTERNET ACCESS
CHARLESTON HARBOR	855-216-2137	www.tidesandcurrents.noaa.gov
CHERRY POINT	888-817-7794	"
CHESAPEAKE BAY	866-CH-PORTS (866-247-6787)	"
DELAWARE RIVER & BAY	866-30-PORTS (866-307-6787)	"
HOUSTON/GALVESTON	866-HG-PORTS (866-447-6787)	"
HUMBOLDT BAY	855-876-5015	"
JACKSONVILLE	855-901-1549	"
LAKE CHARLES	888-817-7692	"
LOS ANGELES/LONG BEACH		"
LOWER COLUMBIA RIVER	888-53-PORTS (888-537-6787)	"
LOWER MISSISSIPPI RIVER	888-817-7767	"

IMPORTANT NOTICES

PORTS® SITES	VOICE ACCESS	INTERNET ACCESS
MOBILE BAY	877-84-PORTS (877-847-6787)	www.tidesandcurrents.noaa.gov
MORGAN CITY	888-312-4113	"
NARRAGANSETT BAY	866-75-PORTS (866-757-6787)	"
NEW HAVEN	888-80-PORTS (888-807-6787)	"
NEW LONDON	855-626-0509	"
NEW YORK/NEW JERSEY	866-21-PORTS (866-217-6787)	"
PASCAGOULA	888-257-1857	"
PORT OF ANCHORAGE	866-AK-PORTS (866-257-6787)	"
PORT FOURCHON	855-687-2084	"
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)	"



PUBLISHED CAUTIONARY NOTICES

Published in Local Notice to Mariners and United States Coast Pilot Notices

OBSERVED TIDAL CONDITIONS DIFFER FROM TIDAL PREDICTIONS IN THE HUDSON RIVER

The observed tides along the Hudson River have been reported to differ significantly from the published tide predictions; particularly in the northern section of the river from Newburgh to Albany, New York. Based on limited reports and comparisons to USGS stream gauges, it appears that high tides are occurring approximately 1 hour earlier than predicted.

NOAA has no information on what may be causing the difference between predictions and observations. This could be the result of natural changes (shoaling, erosion, etc) or artificial changes (dredging, construction, etc) in the Hudson River. Based on preliminary evidence, this does not appear to be a temporary condition and may indicate a long term change in the tidal conditions of the Hudson River.

NOAA does not have any water level stations operating along the length of the Hudson River, with the nearest operating station being located at The Battery, New York. Without observational data in the area, the extent of the difference between predictions and observations cannot be confirmed; neither can the areas affected by this change. Resources are not available for the installation and operation of water level stations along the Hudson River.

Mariners operating in this area are urged to use caution.

(Issued: May 24, 2010)

CHANGES TO 2004 AND FUTURE EDITIONS OF THE NOS TIDE TABLES

The National Ocean Service's, Center for Operational Oceanographic Products and Services (CO-OPS) is continuing to work on updating tidal data for the 1983-2001 Tidal Epoch. The updated information will begin to appear in the 2004 edition of the published Tide Tables and is expected to be completed for the 2005 Tide Tables. In conjunction with the 1983-2001 Tidal Epoch update, CO-OPS has started a comprehensive review of the secondary stations listed in the published Tide Tables. As a result of this review, there will be numerous changes to the stations listed in the "Table 2 - Tidal Differences and Other Constants" pages of the published Tide Tables and in the CO-OPS web products. These changes will include the addition of new stations, removal of obsolete stations, and updating information for other

IMPORTANT NOTICES

existing stations. These changes will begin to appear in the 2004 edition of the published Tide Tables and are expected to continue for several years.

Tables in which U.S. stations will be affected by the 1983-2001 Epoch and Table 2 station review include:

- Tide Tables - East Coast of North and South America, Including Greenland
- Tide Tables - West Coast of North and South America, Including the Hawaii Islands
- Tide Tables - Central and Western Pacific Ocean and Indian Ocean

(Issued October 1, 2003)

TIDAL CURRENT PREDICTIONS INSIDE U.S. ESTUARIES

At present there are several U.S. estuaries with operational Physical Oceanographic Real Time Systems (PORTS) installed. PORTS systems are presently being installed in several additional estuaries. Over the next ten years there are projected to be twenty or more additional systems installed. In the past, the tidal current reference station has always been located at the entrance to each estuary. All tidal current secondary stations both inside and outside (along the coast) have been referred to the reference station at the entrance to the estuary. This will no longer be the case in estuaries with an operational PORTS system.

Estuaries with an operational PORTS system will have at least two reference stations. One will be the historic station at the entrance to the estuary. All secondary stations along the coast will continue to be referred to this station. The second tidal current reference station will be the primary PORTS station within the estuary. All secondary locations within the estuary itself will be referred to this location. Depending on the circulation dynamics of the estuary, daily tidal current predictions may be provided for one or more additional stations within the estuary.

(Issued October 1, 1999)

ARANSAS PASS – CORPUS CHRISTI BAY, TX

The Aransas-Corpus Christi Pilots have reported that published tidal current predictions for Aransas Pass deviate from observations by as much as two (2) hours. The published predictions must be used with extreme caution. The Pilots should be consulted for critical transits. Tidal Current predictions of the National Ocean Service (NOS) are derived from analysis of observed data at tidal harmonic frequencies which in turn are based on predictable astronomic positions of the moon and sun. The problem in many areas of the Gulf of Mexico, including the south Texas coast, is that localized meteorological conditions can significantly effect and alter the times of maximum flood and ebb currents. Real-time observation and reporting systems, such as the Physical Oceanographic Real Time System (PORTS) installed in the Galveston-Houston area, are the only means of providing accurate tidal current data for areas such as this.

(Issued July 17, 1997)

BISCAYNE BAY/PORT OF MIAMI, FL

The Biscayne Bay Pilots report that recent dredging and construction by the US Corps of Engineers (COE) supporting Miami port expansion has significantly effected the currents in Miami Harbor. Both flood and ebb currents should be expected to be stronger than indicated in official published predictions. The actual times for maximum and slack currents should be expected to deviate from the published predictions. Funding to support a survey to obtain new data for more accurate tidal current predictions is not available at this time. Installation of a Physical Oceanographic Real Time System (PORTS), like the one in operation in Tampa Bay, would be the best solution for long term marine safety.

(Issued July 17, 1997)

IMPORTANT NOTICES

CHARLESTON HARBOR, SC

The US Army Corps of Engineers (COE) is planning dredging and construction projects for Charleston Harbor in 1996-1997. Such projects in the past in other areas have resulted in dramatic changes in the observed tidal currents of those areas. Once dredging and/or construction operations commence, the Tidal Current predictions for this region should be considered questionable and potentially dangerous to rely upon. Tide predictions will also be affected but to a lesser degree. Funding for a real time system to monitor the Tidal Currents and a resurvey of the area after COE operations are complete is presently not available. Therefore, once COE operations begin and until such time as a real-time system is installed or a resurvey of the area conducted, the National Oceanic and Atmospheric Administration, National Ocean Service will be unable to provide accurate Tidal Current predictions necessary for marine safety and navigation in this area.

(Issued June 5, 1996)

CHESAPEAKE & DELAWARE CANAL AND BALTIMORE HARBOR CONNECTING CHANNELS

The US Army Corps of Engineers (COE) is planning a project involving the Chesapeake & Delaware Canal (C&D) and the channels in the upper Chesapeake Bay connecting the canal to Baltimore, MD in 1996-1997. Such projects in the past in other areas have resulted in dramatic changes in the observed tidal currents of those areas. Once the project begins, the Tidal Current predictions for the C&D Canal and the channels connecting the canal to Baltimore should be considered questionable and potentially dangerous to rely upon. Tide predictions will be affected but to a lesser degree. Funding for a real-time system to monitor the Tidal Currents and a resurvey of these areas after COE operations are complete is presently not available. Therefore, once COE operations begin and until such time as a real-time system is installed or a resurvey of the area conducted, the National Oceanic and Atmospheric Administration, National Ocean Service will be unable to provide accurate Tidal Current predictions necessary for marine safety and navigation in this area.

(Issued June 5, 1996)

ST. AUGUSTINE, FL – ATLANTIC INTRACOASTAL WATERWAY

The US Coast Guard (USCG) has reported a problem involving the Tidal Currents in the Atlantic Intracoastal Waterway (AICW) in the St. Augustine, FL area. The specific location is the Bridge of Lions over the waterway. Numerous accidents have occurred at this site which are related to the currents in the waterway. There is no National Ocean Service (NOS) Tidal Current Station at or near the Bridge of Lions. Thus the NOS cannot, at this time, make Tidal Current predictions for this location. The USCG states that the cause of the accidents is loss of maneuverability (control) as a vessel passes under the bridge. The loss of maneuverability results in the vessel striking the bridge supports. The USCG states in part:

“The affect of a ‘fair’ tide on a navigating vessel is to reduce the vessel’s ability to maneuver. When a vessel is proceeding with a current (fair tide), less water flows across the vessel’s rudders. This condition has the affect of reducing the vessel’s maneuverability for a given speed over ground (all other things being equal).

The Bridge of Lions is a difficult bridge to navigate, even under ideal conditions. This circa 1926 Bascule bridge has a horizontal clearance of only 76' versus the 90' horizontal clearance of most of the other bridges on this section of the AICW.”

In addition, according to the US Coast Pilot, Vol 4, Chapter 12, Tidal Currents in excess of 2 knots often run at right angles to the bridge opening. The Coast Pilot advises mariners to transit the bridge at minimal Tidal Current conditions. Funding for real-time monitoring of the Tidal Currents or a survey to obtain Tidal Current observations upon which to base Tidal Current predictions for this location is not presently available. A consortium of local, state, and federal officials in conjunction with the private sector and commercial shipping interests are presently studying various options to provide accurate Tidal Current predictions necessary for marine safety and navigation at this location.

(Issued June 5, 1996)

IMPORTANT NOTICES

WILMINGTON AND CAPE FEAR RIVER, NC

The US Army Corps of Engineers (COE) is due to begin dredging operations in the Wilmington and Cape Fear River area in 1997. The plans call for the deepening of the channel approaching Wilmington and extending up the Cape Fear River. Such actions in the past in other areas have resulted in dramatic changes in the observed tidal currents of those areas. Once dredging operations commence, the Tidal Current predictions for this region should be considered questionable at best and potentially dangerous to rely upon. Tide predictions will also be affected but to a lesser degree. Funding for a real-time system to monitor the Tidal Currents during the project and a resurvey of the area after COE operations are complete is presently not available. Therefore, once COE operations begin and until such time as a real-time system is installed or a resurvey of the area conducted, the National Oceanic and Atmospheric Administration, National Ocean Service will be unable to provide accurate Tidal Current predictions necessary for marine safety and navigation in this area.

(Issued June 5, 1996)

HAMPTON ROADS, VA

Tidal currents in Hampton Roads and Elizabeth River have been significantly altered by dredging and construction of a new bridge/tunnel. Recent dredging by the U.S. Army Corps of Engineers has deepened the channels by 10 feet to a depth of 50 feet. Pilots and officials at the Norfolk Naval Base report hazardous conditions including significantly higher than predicted maximum current velocities, and significant deviation in the predicted times of maximum current. Mariners should exercise EXTREME CAUTION and DISCRETION in the use of published NOS tidal current predictions for this area. Funding for a Quality Assurance study and a full scale resurvey of the area is presently not available.

(Issued March 24, 1992)

CHINCOTEAGUE CHANNEL, VA

United States Coast Guard (USCG) Personnel at the Chincoteague Coast Guard Station, VA report that the times of high and low water computed from differences in Table 2 of the East Coast Tide Tables are frequently off by as much as an hour. The channel is subject to shoaling and is frequently dredged. Exercise caution in using Table 2 Tide differences for this area.

(Issued May 17, 1991)

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 tidal 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 more than 250 reference ports and differences and other constants for more than 6,500 stations.

This edition of the Tide Tables, *East Coast of North and South America*, contains full daily predictions for more than 70 reference ports and differences and other constants for more than 2,500 stations in North America, South America, and Greenland. 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 of moonrise and moonset for 8 places, a table of the Greenwich mean time of the Moons' 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. 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.

The information presented in *Table 4 - Local mean time of sunrise and sunset and in Table 6 - Moonrise and Moonset* is computed by the National Ocean Service using the Interactive Computer Ephemeris Program provided by the United States Naval Observatory.

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

Canadian Hydrographic Service.—*Harrington Harbour, Quebec, Halifax, St. John, Pictou, and Argentia*.

Diretoria de Hidrografia e Navegacao, Brazil.—*Recife, Rio de Janeiro, and Santos*.

Servicio Hidrografico, Argentina.—*Buenos Aires, Puerto Ingeniero White, Comodoro Rivadiva, and Punta Loyola*.

LIST OF REFERENCE STATIONS

Station Name	Page	Datum below mean sea-level	Updated	Data Series
Albany, New York	80	* 2.49	1966	192 days beginning 5/1/1934
Amuay, Venezuela.....	264	0.65		
Apalachicola, Florida.....	192	0.92	1999	3 years (1995-1997)
Argentia, Newfoundland.....	4	4.3		
Atlantic City, New Jersey	88	2.23	1999	5 years (1980-1984)
Baltimore, Maryland	108	0.82	2001	5 years (1994-1998)
Bar Harbor, Maine	32	5.71	2003	5 years (1992-1996)
Bayonne Bridge, New York.....	76	2.78	1999	4 years (1990-1991, 1994-1995)
Bermuda Esso Pier, Bahama.....	236	1.35	2002	4 years (1990-1993)
Boston, Massachusetts.....	40	5.22	2001	5 years (1994-1998)
Breakwater Harbor, Delaware.....	92	2.27	2001	5 years (1994-1998)
Bridgeport, Connecticut	64	3.61	2001	5 years (1994-1998)
Buenos Aires, Argentina	288	2.6		
Cape Hatteras, North Carolina.....	132	1.65	1998	4 years (1988-1991)
Cedar Key, Florida.....	184	2.03	2003	5 years (1992-1997)
Charleston, South Carolina	144	2.95	2003	5 years (1996-2000)
Charlotte Amalie, St. Thomas Island.....	252	0.38	2002	8 years (1984-1991)
Chesapeake Bay Bridge Tunnel, Virginia	116	1.45	1998	5 years (1986-1990)
Comodoro Rivadavia, Argentina	296	10.3		
Cristobal, Panama	232	0.38		
Dauphin Island, Alabama.....	200	0.57	1998	4 years (1993-1996)
Duck Pier, North Carolina	124	1.81	2003	5 years (1996-2000)
Eastport, Maine.....	28	9.71	2001	5 years (1994-1998)
Fernandina Beach, Florida.....	152	3.35	2003	3 years (1998-2000)
Galveston, Texas	216	0.82	1999	5 years (1986-1990)
Grand Isle, Louisiana.....	212	0.56	1999	2 years (1982-1985)
Halifax, Nova Scotia.....	20	4.3		
Hampton Roads, Virginia	120	1.38	2002	5 years (1995-1999)
Harrington Harbour, Quebec.....	12	3.5		
Isla Zapara, Venezuela.....	260	2.70		
Key West, Florida	172	0.92	2003	5 years (1996-2000)
Kings Point, Long Island, New York.....	68	3.87	2002	1 year (1999)
Lime Tree, Saint Croix, Virgin Islands.....	256	0.38	2002	3 years (1995-1997)
Magueyes Island, Puerto Rico	244	0.34	2002	3 years (1995-1997)
Mayport, Florida	156	2.46	2005	3 years (2001-2003)
Miami, Government Cut, Florida	164	1.43	2005	2 years (1985-1986)
Mobile, Alabama	204	0.83	1990	2 years (1985-1986)
Montauk, Fort Pond Bay, New York.....	56	1.09	2003	5 years (1996-2000)
Myrtle Beach, South Carolina	140	2.75	2003	5 years (1980-1987)
Nantucket, Massachusetts.....	44	1.79	2005	5 years (1999-2003)
Naples, Florida.....	176	1.69	2003	4 years (1992-1996)
New London, Connecticut.....	60	1.55	2001	5 years (1994-1998)
New York (The Battery), New York	72	2.58	1994	5 years (1986-1990)
Newport, Rhode Island	52	1.77	2001	5 years (1994-1998)
Ocean City, Maryland	104	1.87	1999	5 years (1985-1989)
Oregon Inlet, North Carolina	128	0.66	1999	4 years (1995-1998)
Padre Island, Texas	224	0.86	1998	1 year (1963)
Pensacola, Florida	196	0.62	2003	5 years (1996-2000)
Philadelphia, Pennsylvania	100	* 3.47	1989	369 days beginnings 1/1/1955
Pictou, Nova Scotia	8	3.9		
Port Canaveral (Trident Pier), Florida	160	1.92	2003	5 years (1997-2001)

LIST OF REFERENCE STATIONS Cont.

Station Name	Page	Datum below mean sea-level	Updated	Data Series
Port O'Connor, Texas.....	220	0.42	1999	29 days beginning 2/1/1989
Portland, Maine	36	4.93	2001	5 years (1993-1997)
Puerto Ingeniero White, Argentina	292	8.5		
Punta Gorda, Venezuela	268	3.30		
Punta Loyola, Argentina	300	20.3		
Quebec, Quebec	16	* 8.5		
Recife, Brazil	276	3.7		
Reedy Point, Delaware.....	96	2.99	1995	4 years (1990-1993)
Rio de Janeiro, Brazil	280	2.3		
St. John, New Brunswick.....	24	14.5		
St. Marks River Entrance, Florida.....	188	1.93	1996	358 days beginning 9/1/1970
St. Petersburg, Florida	180	1.19	1996	4 years (1990-1993)
San Juan, Puerto Rico	248	0.78	1999	4 years (1983-1996)
Sandy Hook, New Jersey	84	2.56	1995	4 years (1990-1993)
Santos, Brazil	284	2.5		
Savannah River Entrance, Georgia.....	148	3.80	2003	5 years (1996-2000)
Settlement Point, Bahama.....	240	1.45	2002	4 years (1986-1988, 1990)
South Pass, Louisiana.....	208	.68	1999	3 years (1989-1991)
Suriname River Entrance, Surinam	272	4.28		
Tampico Harbor, Mexico	228	0.84		
Vaca Key, Florida	168	0.52	1997	4 years (1985-1987, 1989)
Washington, D.C.	112	* 1.56	2001	5 years (1994-1998)
Wilmington, North Carolina.....	136	* 2.33	2002	5 years (1980-1987)

*Datum below mean river level.

** New Reference Station.

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.

Local mean sea level datum should not be confused with the National Geodetic Vertical Datum which is the datum of the geodetic level net of the United States. Relationships between geodetic and local tidal datums are published in connection with the tidal benchmark data of the National Ocean Service.

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. Daylight-saving time is not used in this publication. If daylight-saving time is required, add one (1) hour to the predicted time.

Datum.—The datum from which the predicted heights are recorded is the same as that used for the nautical charts of the locality. The datum for the Atlantic coast of the United States is mean lower low water (MLLW). For foreign coasts a datum approximating to mean low water springs, Indian spring low water, or the lowest possible low water is generally used. The depression of the datum below mean sea level (MSL) 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 recorded. 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 the following tides, or Table 3 may be used. The reference stations in Table 1 contain the heights in centimeters as well as in 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.

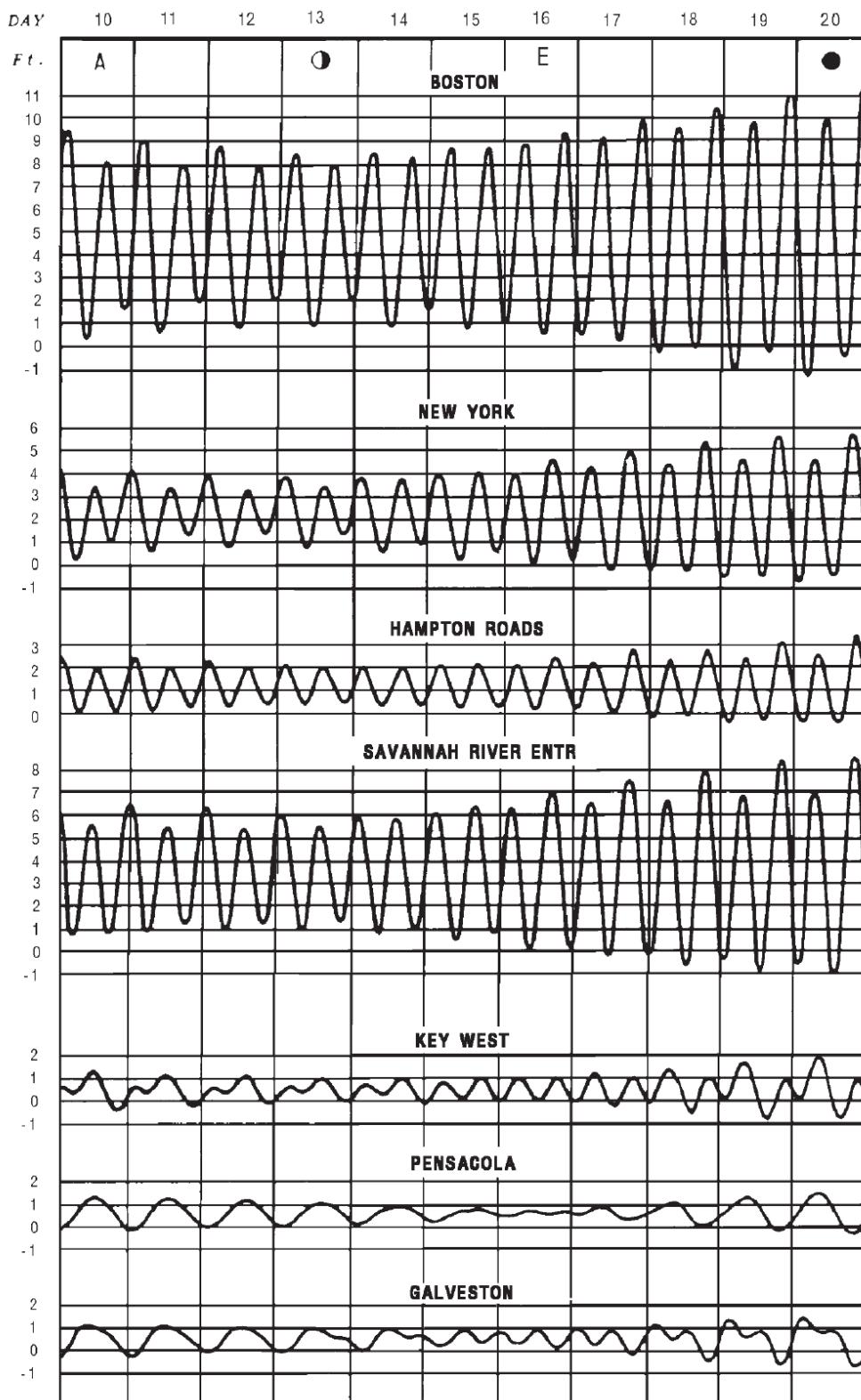
Relation of tide to current.—In using these tables of tide predictions bear in mind that they give the times and heights of high and low waters and not the times of turning of the current or slack water. For stations on the outer coast there is usually a small difference between the time of high or low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

TABLE 1.—DAILY TIDE PREDICTIONS

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 variations in the tide from day to day and from place to place are illustrated on the opposite page by the tide curves for representative ports along the Atlantic and Gulf coasts of the United States. Note that the range of tide for stations along the Atlantic coast varies from place to place but that the type is uniformly semidiurnal with the principal variations following the changes in the Moon's distance and phase. In the Gulf of Mexico, however, the type of tide differs considerably and the range of tide is uniformly small. At certain ports such as Pensacola there is usually only one high and one low water a day while at other ports such as Galveston the inequality is such that the tide is semidiurnal around the times the Moon is on the Equator but becomes diurnal around the times of maximum north or south declination of the Moon. In the Gulf of Mexico, consequently, the principal variations in the tide are due to the changing declination of the Moon. Key West, at the entrance to the Gulf of Mexico, has a type of tide which is a mixture of semidiurnal and diurnal types. Here the tide is semidiurnal but there is considerable inequality in the heights of high and low waters. By reference to the curves it will be seen that where the inequality is large there are times when there is only a few tenths of a foot difference between high water and low water.

TYPICAL TIDE CURVES FOR UNITED STATES PORTS



A discussion of these curves is given on the preceding page.

- Lunar data:
- A - Moon in apogee
 - O - last quarter
 - E - Moon on Equator
 - - new Moon

Argentia, Newfoundland, 2016

Times and Heights of High and Low Waters

January				February				March			
Time	Height	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 F 0044	6.2	190	16 Sa 0043	7.2	220	1 M 0133	6.2	190	16 Tu 0235	6.9	210
0559	3.0	90	0558	2.0	60	0658	3.3	100	0613	3.0	90
1313	6.6	200	1302	7.2	220	1404	5.9	180	1311	5.9	180
1835	3.0	90	● 1819	2.0	60	1932	3.0	90	1831	3.0	90
2 Sa 0135	6.2	190	17 Su 0146	6.9	210	2 Tu 0233	6.2	190	2 W 0343	6.9	210
0654	3.0	90	0656	2.3	70	0835	3.3	100	0708	3.3	100
1406	6.2	190	1406	6.6	200	1508	5.6	170	1416	5.6	170
● 1939	3.0	90	1919	2.3	70	2110	3.0	90	1933	3.3	100
3 Su 0230	6.2	190	18 M 0253	6.9	210	3 W 0338	6.2	190	3 Th 0452	6.9	210
0818	3.3	100	0826	2.6	80	1020	3.3	100	1131	2.6	80
1505	5.9	180	1516	6.6	200	1611	5.6	170	1723	6.2	190
2105	3.0	90	2043	2.6	80	2220	3.0	90	2321	2.6	80
4 M 0328	6.2	190	19 Tu 0401	6.9	210	4 Th 0442	6.6	200	4 F 0558	7.2	220
0952	3.3	100	1028	2.6	80	1119	3.0	90	1219	2.3	70
1605	5.9	180	1627	6.2	190	1711	5.9	180	1824	6.6	200
2208	3.0	90	2217	2.6	80	2313	2.6	80	2244	3.0	90
5 Tu 0427	6.2	190	20 W 0508	7.2	220	5 F 0541	6.9	210	5 Sa 0009	2.3	70
1053	3.0	90	1132	2.3	70	1208	2.6	80	0655	7.5	230
1701	5.9	180	1734	6.6	200	1805	6.2	190	1255	2.3	70
2257	2.6	80	2315	2.3	70	1911	6.9	210	1911	6.9	210
6 W 0522	6.6	200	21 Th 0611	7.5	230	6 Sa 0001	2.3	70	21 Su 0051	2.3	70
1144	2.6	80	1224	2.3	70	0634	7.5	230	0742	7.9	240
1751	5.9	180	1834	6.6	200	1251	2.3	70	1325	2.0	60
2342	2.3	70				1853	6.6	200	1951	6.9	210
7 Th 0613	6.9	210	22 F 0006	2.0	60	7 Su 0047	2.0	60	22 M 0130	2.0	60
1229	2.6	80	0706	7.9	240	0720	7.9	240	0821	7.9	240
1835	6.2	190	1307	2.0	60	1328	2.0	60	1355	2.0	60
			1924	6.9	210	1937	6.9	210	● 2024	7.2	220
8 F 0025	2.0	60	23 Sa 0053	2.0	60	8 M 0131	1.6	50	23 Tu 0206	1.6	50
0659	7.2	220	0756	8.2	250	0803	8.2	250	0854	7.9	240
1311	2.3	70	Sa 1343	2.0	60	M 1403	1.6	50	1426	1.6	50
1917	6.6	200	● 2007	6.9	210	● 2019	7.2	220	2056	7.2	220
9 Sa 0107	1.6	50	24 Su 0138	2.0	60	9 Tu 0212	1.3	40	24 W 0241	1.6	50
0742	7.9	240	0839	8.2	250	0845	8.5	260	0923	7.5	230
1349	2.0	60	1417	2.0	60	1438	1.3	40	1459	1.6	50
● 1957	6.9	210	2045	7.2	220	2102	7.5	230	2128	7.2	220
10 Su 0147	1.6	50	25 M 0219	1.6	50	10 W 0251	1.0	30	25 Th 0315	1.6	50
0823	7.9	240	0918	8.2	250	0928	8.5	260	0953	7.2	220
1424	1.6	50	1450	1.6	50	1513	1.3	40	1532	1.6	50
2038	6.9	210	2121	7.2	220	2146	7.9	240	2202	7.2	220
11 M 0226	1.3	40	26 Tu 0258	1.6	50	11 Th 0331	1.0	30	26 F 0348	1.6	50
0905	8.2	250	0953	7.9	240	1011	8.2	250	1024	7.2	220
1458	1.6	50	Tu 1525	2.0	60	1549	1.3	40	1605	1.6	50
2121	7.2	220	2157	7.2	220	2234	7.9	240	2237	6.9	210
12 Tu 0305	1.3	40	27 W 0335	2.0	60	12 F 0411	1.0	30	27 Sa 0421	2.0	60
0947	8.2	250	1027	7.5	230	1057	7.9	240	1057	6.9	210
1533	1.6	50	1559	2.0	60	1628	1.3	40	1638	2.0	60
2205	7.2	220	2234	6.9	210	2325	7.5	230	2315	6.9	210
13 W 0345	1.3	40	28 Th 0411	2.0	60	13 Sa 0452	1.3	40	28 M 0455	2.3	70
1030	8.2	250	1101	7.2	220	1147	7.5	230	1135	6.6	200
1609	1.6	50	1635	2.0	60	1708	1.6	50	1712	2.3	70
2254	7.2	220	2313	6.9	210				2357	6.6	200
14 Th 0426	1.6	50	29 F 0448	2.3	70	14 Su 0023	7.2	220	29 M 0531	2.6	80
1116	7.9	240	1138	6.9	210	0538	1.6	50	1218	6.2	190
1648	1.6	50	1711	2.3	70	1244	6.9	210	1748	2.6	80
2346	7.2	220	2355	6.6	200	1753	2.0	60	1728	2.0	60
15 F 0510	1.6	50	30 Sa 0526	2.6	80	15 M 0127	7.2	220	15 Tu 0112	7.2	220
1206	7.5	230	1218	6.6	200	0631	2.3	70	0609	2.3	70
1731	2.0	60	1750	2.6	80	1351	6.6	200	1340	6.6	200
			● 1846	2.6	80	● 1846	2.6	80	● 1818	2.6	80
31 W 0041	6.6	200							31 Th 0107	6.6	200
0607	3.0	90							0630	3.3	100
1306	6.2	190							1338	5.6	170
● 1834	3.0	90							● 1847	3.0	90

Time meridian 52° 30' W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.

Heights are referred to the Canadian chart datum of soundings. Subtract 1.9 feet (62 centimeters) to refer these levels to the datum of N.O.S. charts.

Argentia, Newfoundland, 2016

Times and Heights of High and Low Waters

April				May				June			
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height
1 F	0211 6.6 200	16 Sa	0408 6.6 200	1 Su	0243 6.6 200	16 M	0437 6.2 190	1 W	0429 6.6 200	16 Th	0536 5.9 180
0750 3.3 100		1046 3.0 90		0902 3.0 90		1037 2.6 80		1029 2.0 60		1115 2.3 70	
1449 5.6 170		1639 6.2 190		1527 6.2 190		1657 6.2 190		1709 7.2 220		1749 6.6 200	
2015 3.3 100		2301 3.0 90		2132 3.0 90		2307 2.6 80		2313 2.0 60		2356 2.6 80	
2 Sa	0320 6.6 200	17 Su	0515 6.6 200	2 M	0352 6.6 200	17 Tu	0534 6.2 190	2 Th	0533 6.9 210	17 F	0618 6.2 190
1017 3.3 100		1123 2.6 80		1021 2.6 80		1114 2.3 70		1121 1.6 50		1156 2.0 60	
1559 5.9 180		1737 6.6 200		1635 6.6 200		1746 6.6 200		1807 7.5 230		1831 6.9 210	
2213 3.0 90		2343 2.6 80		2244 2.3 70		2347 2.3 70					
3 Su	0429 6.9 210	18 M	0611 6.6 200	3 Tu	0459 6.9 210	18 W	0619 6.2 190	3 F	0007 1.6 50	18 Sa	0038 2.3 70
1107 2.6 80		1153 2.3 70		1109 2.0 60		1150 2.0 60		0630 7.2 220		0655 6.2 190	
1705 6.2 190		1824 6.6 200		1735 6.9 210		1827 6.9 210		1209 1.3 40		1236 2.0 60	
2313 2.3 70				2338 1.6 50				1859 7.9 240		1911 7.2 220	
4 M	0533 7.2 220	19 Tu	0018 2.3 70	4 W	0559 7.2 220	19 Th	0025 2.3 70	4 Sa	0056 1.3 40	19 Su	0117 2.0 60
1148 2.3 70		0654 6.9 210		1153 1.6 50		0655 6.2 190		0721 7.2 220		0730 6.6 200	
1802 6.9 210		1224 2.0 60		1828 7.5 230		1226 2.0 60		1255 1.0 30		1315 1.6 50	
		1901 6.9 210				1903 6.9 210		● 1951 8.2 250		1949 7.5 230	
5 Tu	0003 2.0 60	20 W	0052 2.0 60	5 Th	0026 1.3 40	20 F	0102 2.0 60	5 Su	0142 1.0 30	20 M	0154 2.0 60
0628 7.5 230		0728 6.9 210		0652 7.5 230		0726 6.6 200		0809 7.5 230		0805 6.6 200	
1228 1.6 50		1257 1.6 50		1236 1.0 30		1302 1.6 50		1340 1.0 30		1353 1.6 50	
1851 7.5 230		1932 7.2 220		1917 7.9 240		1936 7.2 220		2041 8.5 260		○ 2027 7.5 230	
6 W	0049 1.3 40	21 Th	0126 1.6 50	6 F	0112 1.0 30	21 Sa	0137 2.0 60	6 M	0226 1.0 30	21 Tu	0229 2.0 60
0716 7.9 240		0756 6.9 210		0740 7.9 240		0756 6.6 200		0857 7.2 220		0841 6.6 200	
1306 1.3 40		1330 1.6 50		1318 1.0 30		1338 1.6 50		1424 1.3 40		1429 1.6 50	
1937 7.9 240		2003 7.2 220		● 2004 8.2 250		○ 2010 7.2 220		2131 8.5 260		2106 7.9 240	
7 Th	0132 0.7 20	22 F	0158 1.6 50	7 Sa	0155 0.7 20	22 Su	0211 1.6 50	7 Tu	0308 1.3 40	22 W	0303 2.0 60
0801 8.2 250		0824 6.9 210		0826 7.9 240		0828 6.6 200		0945 7.2 220		0920 6.9 210	
1345 1.0 30		1404 1.3 40		1400 0.7 20		1413 1.6 50		1507 1.3 40		1505 1.6 50	
● 2022 8.2 250		2034 7.2 220		2052 8.5 260		2045 7.5 230		2222 8.2 250		2146 7.9 240	
8 F	0214 0.7 20	23 Sa	0231 1.6 50	8 Su	0238 0.7 20	23 M	0244 1.6 50	8 W	0349 1.6 50	23 Th	0336 2.0 60
0845 8.2 250		0853 6.9 210		0912 7.5 230		0901 6.6 200		1035 6.9 210		1002 6.9 210	
1424 0.7 20		1437 1.3 40		1442 1.0 30		1447 1.6 50		1551 1.6 50		1542 1.6 50	
2108 8.2 250		2107 7.2 220		2143 8.5 260		2122 7.5 230		2314 7.9 240		2227 7.9 240	
9 Sa	0254 0.3 10	24 Su	0303 1.6 50	9 M	0320 1.0 30	24 Tu	0317 1.6 50	9 Th	0430 2.0 60	24 F	0410 2.0 60
0930 7.9 240		0924 6.6 200		1001 7.2 220		0937 6.6 200		1130 6.9 210		1047 6.9 210	
1503 0.7 20		1509 1.6 50		1523 1.3 40		1520 1.6 50		1634 2.0 60		1620 2.0 60	
2157 8.2 250		2141 7.2 220		2237 8.2 250		2202 7.5 230				2310 7.5 230	
10 Su	0335 0.7 20	25 M	0334 1.6 50	10 Tu	0402 1.3 40	25 W	0350 2.0 60	10 F	0006 7.5 230	25 Sa	0447 2.0 60
1018 7.5 230		0958 6.6 200		1055 6.9 210		1018 6.6 200		0513 2.3 70		1137 6.9 210	
1543 1.0 30		1541 1.6 50		1605 1.6 50		1555 2.0 60		1226 6.6 200		1702 2.0 60	
2250 7.9 240		2219 7.2 220		2334 7.9 240		2244 7.5 230		1721 2.6 80		2357 7.2 220	
11 M	0417 1.0 30	26 Tu	0407 2.0 60	11 W	0446 2.0 60	26 Th	0425 2.0 60	11 Sa	0058 7.2 220	26 Su	0528 2.0 60
1111 7.2 220		1036 6.2 190		1158 6.6 200		1103 6.2 190		0601 2.6 80		1230 6.6 200	
1623 1.6 50		1614 2.0 60		1649 2.3 70		1632 2.3 70		1321 6.2 190		1750 2.3 70	
2350 7.5 230		2301 7.2 220				2329 7.2 220		1814 3.0 90			
12 Tu	0501 1.6 50	27 W	0441 2.3 70	12 Th	0034 7.5 230	27 F	0503 2.3 70	12 Su	0151 6.6 200	27 M	0048 6.9 210
1216 6.6 200		1120 6.2 190		0534 2.3 70		1155 6.2 190		0701 3.0 90		0615 2.3 70	
1706 2.3 70		1649 2.3 70		1302 6.6 200		1715 2.3 70		1415 6.2 190		1328 6.6 200	
		2348 6.9 210				1739 2.6 80		● 1926 3.3 100		● 1845 2.6 80	
13 W	0055 7.2 220	28 Th	0519 2.6 80	13 F	0132 6.9 210	28 Sa	0018 7.2 220	13 M	0248 6.2 190	28 Tu	0146 6.9 210
0551 2.3 70		1212 5.9 180		0634 3.0 90		0547 2.3 70		0831 3.0 90		0713 2.3 70	
1326 6.2 190		1730 2.6 80		1402 6.2 190		1252 6.2 190		1510 6.2 190		1432 6.9 210	
1756 2.6 80				● 1844 3.3 100		1805 2.6 80		2115 3.3 100		1958 2.6 80	
14 Th	0158 6.9 210	29 F	0040 6.9 210	14 Sa	0231 6.6 200	29 Su	0112 6.9 210	14 W	0348 6.2 190	29 W	0252 6.6 200
0750 3.0 90		0606 3.0 90		0858 3.0 90		0641 2.6 80		0943 3.0 90		0828 2.3 70	
1431 6.2 190		1314 5.9 180		1459 6.2 190		1353 6.2 190		1607 6.2 190		1540 6.9 210	
● 2000 3.3 100		● 1822 3.0 90		2122 3.3 100		● 1910 2.6 80		2221 3.0 90		2142 2.6 80	
15 F	0301 6.9 210	30 Sa	0139 6.6 200	15 Su	0334 6.6 200	30 M	0212 6.6 200	15 W	0445 5.9 180	30 Th	0403 6.6 200
0955 3.0 90		0709 3.0 90		0957 3.0 90		0751 2.6 80		1032 2.6 80		0952 2.3 70	
1534 6.2 190		1420 5.9 180		1559 6.2 190		1458 6.6 200		1701 6.6 200		1648 7.2 220	
2210 3.3 100		1936 3.0 90		2221 3.0 90		2040 2.6 80		2312 2.6 80		2258 2.3 70	
						31 Tu	0319 6.6 200				
						0921 2.3 70					
						1605 6.9 210					
						2212 2.3 70					

Time meridian 52° 30' W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to the Canadian chart datum of soundings. Subtract 1.9 feet (62 centimeters) to refer these levels to the datum of N.O.S. charts.

Argentia, Newfoundland, 2016

Times and Heights of High and Low Waters

July				August				September			
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height
1 F 0511 6.6 200 1055 2.0 60 1750 7.5 230 2356 2.0 60	16 Sa 0538 5.9 180 1128 2.6 80 1759 6.9 210	1 M 0047 2.0 60 0659 6.9 210 1234 2.0 60 1932 8.2 250	16 Tu 0038 2.6 80 0639 6.2 190 1236 2.0 60 1904 7.5 230	1 Th 0140 2.0 60 0810 7.2 220 1352 1.6 50 2040 7.9 240	16 F 0120 1.6 50 0738 7.5 230 1336 1.3 40 2003 8.2 250						
2 Sa 0613 6.9 210 1148 1.6 50 1848 7.9 240	17 Su 0016 2.6 80 0623 6.2 190 1213 2.3 70 1846 7.2 220	2 Tu 0128 2.0 60 0747 6.9 210 1321 2.0 60 2019 8.2 250	17 W 0116 2.3 70 0721 6.9 210 1318 1.6 50 1946 7.9 240	2 F 0211 1.6 50 0844 7.2 220 1426 1.6 50 2112 7.5 230	17 Sa 0154 1.3 40 0820 7.9 240 1415 1.0 30 2044 8.2 250						
3 Su 0048 1.6 50 0708 6.9 210 1238 1.6 50 1941 8.2 250	18 M 0059 2.3 70 0704 6.2 190 1255 2.0 60 1928 7.5 230	3 W 0203 1.6 50 0829 7.2 220 1404 1.6 50 2102 8.2 250	18 Th 0150 2.0 60 0802 7.2 220 1358 1.3 40 2027 8.2 250	3 Sa 0243 1.6 50 0916 7.2 220 1500 1.6 50 2142 7.5 230	18 Su 0229 1.0 30 0902 7.9 240 1453 0.7 20 2126 8.2 250						
4 M 0135 1.6 50 0757 7.2 220 1327 1.6 50 2031 8.5 260	19 Tu 0138 2.3 70 0743 6.6 200 1336 1.6 50 2009 7.9 240	4 Th 0236 1.6 50 0907 7.2 220 1443 1.6 50 2140 8.2 250	19 F 0222 1.6 50 0842 7.5 230 1435 1.3 50 2107 8.2 250	4 Su 0316 1.6 50 0950 7.2 220 1534 1.6 50 2213 7.2 220	19 M 0305 1.0 30 0947 8.2 250 1532 0.7 20 2210 7.9 240						
5 Tu 0216 1.6 50 0843 7.2 220 1412 1.6 50 2118 8.5 260	20 W 0213 2.0 60 0822 6.9 210 1415 1.6 50 2048 8.2 250	5 F 0310 1.6 50 0944 7.2 220 1520 1.6 50 2215 7.9 240	20 Sa 0255 1.3 40 0924 7.5 230 1512 1.0 30 2147 8.2 250	5 M 0350 1.6 50 1024 7.2 220 1608 2.0 60 2246 6.9 210	20 Tu 0343 1.0 30 1036 7.9 240 1612 1.0 30 2258 7.5 230						
6 W 0255 1.6 50 0927 7.2 220 1455 1.6 50 2204 8.2 250	21 Th 0246 1.6 50 0902 7.2 220 1452 1.6 50 2128 8.2 250	6 Sa 0344 1.6 50 1021 7.2 220 1557 1.6 50 2250 7.5 230	21 Su 0329 1.3 40 1008 7.9 240 1550 1.0 30 2230 7.9 240	6 Tu 0423 2.0 60 1102 6.9 210 1642 2.0 60 2322 6.6 200	21 W 0422 1.3 40 1131 7.9 240 1654 1.3 40 2353 6.9 210						
7 Th 0332 1.6 50 1011 7.2 220 1537 1.6 50 2247 7.9 240	22 F 0318 1.6 50 0944 7.2 220 1529 1.3 40 2208 8.2 250	7 Su 0419 2.0 60 1100 6.9 210 1633 2.0 60 2326 6.9 210	22 M 0406 1.3 40 1055 7.5 230 1630 1.3 40 2316 7.5 230	7 W 0458 2.3 70 1142 6.9 210 1718 2.3 70	22 Th 0504 1.6 50 1234 7.5 230 1742 2.0 60						
8 F 0409 2.0 60 1055 6.9 210 1617 2.0 60 2330 7.5 230	23 Sa 0352 1.6 50 1028 7.2 220 1607 1.3 40 2251 7.9 240	8 M 0455 2.3 70 1141 6.9 210 1711 2.3 70	23 Tu 0444 1.3 40 1147 7.5 230 1712 1.6 50	8 Th 0004 6.2 190 0534 2.6 80 1229 6.6 200 1758 3.0 90	23 F 0101 6.6 200 0551 2.3 70 1342 7.2 220 1843 2.6 80						
9 Sa 0447 2.3 70 1141 6.6 200 1659 2.3 70	24 Su 0427 1.6 50 1116 7.2 220 1647 1.6 50 2336 7.5 230	9 Tu 0006 6.6 200 0533 2.3 70 1226 6.6 200 1751 2.6 80	24 W 0008 7.2 220 0526 1.6 50 1247 7.2 220 1759 2.0 60	9 F 0055 5.9 180 0614 3.0 90 1325 6.6 200 1849 3.3 100	24 Sa 0214 6.2 190 0551 2.3 70 1342 7.2 220 1843 2.6 80						
10 Su 0013 7.2 220 0528 2.6 80 1229 6.6 200 1742 2.6 80	25 M 0507 1.6 50 1208 7.2 220 1731 2.0 60	10 W 0053 6.2 190 0615 2.6 80 1317 6.2 190 1839 3.0 90	25 Th 0110 6.6 200 0614 2.3 70 1355 7.2 220 1901 2.6 80	10 Sa 0159 5.6 170 0710 3.3 100 1430 6.2 190 2118 3.6 110	25 Su 0324 6.2 190 1000 3.3 100 1559 6.9 210 2251 2.6 80						
11 M 0059 6.6 200 0613 2.6 80 1320 6.2 190 1832 3.0 90	26 Tu 0027 7.2 220 0550 2.0 60 1306 6.9 210 1822 2.3 70	11 Th 0149 5.9 180 0707 3.0 90 1415 6.2 190 1954 3.3 100	26 F 0221 6.2 190 0715 2.6 80 1505 6.9 210 2150 3.0 90	11 Su 0307 5.6 170 0916 3.3 100 1539 6.6 200 2235 3.3 100	26 M 0435 6.2 190 1100 3.0 90 1710 6.9 210 2339 2.6 80						
12 Tu 0152 6.2 190 0708 3.0 90 1414 6.2 190 1940 3.3 100	27 W 0125 6.9 210 0642 2.3 70 1411 6.9 210 1926 2.6 80	12 F 0252 5.6 170 0839 3.3 100 1519 6.2 190 2159 3.3 100	27 Sa 0334 6.2 190 0922 3.0 90 1615 6.9 210 2301 2.6 80	12 M 0414 5.6 170 1031 3.0 90 1645 6.6 200 2326 3.0 90	27 Tu 0540 6.6 200 1149 2.6 80 1813 7.2 220						
13 W 0250 5.9 180 0830 3.0 90 1511 6.2 190 2126 3.3 100	28 Th 0233 6.6 200 0747 2.6 80 1520 6.9 210 2129 2.6 80	13 Sa 0355 5.6 170 1004 3.0 90 1623 6.6 200 2303 3.3 100	28 Tu 0448 6.2 190 1056 2.6 80 1725 7.2 220 2355 2.3 70	13 W 0517 5.9 180 1125 2.6 80 1745 6.9 210 2003 7.9 240	28 F 0014 2.3 70 0632 6.9 210 1228 2.3 70 1902 7.2 220						
14 Th 0349 5.9 180 0947 3.0 90 1610 6.2 190 2235 3.0 90	29 F 0345 6.2 190 0921 2.6 80 1630 7.2 220 2258 2.6 80	14 Su 0456 5.9 180 1100 3.0 90 1724 6.9 210 2354 3.0 90	29 M 0555 6.6 200 1150 2.6 80 1828 7.5 230	14 W 0008 2.6 80 0610 6.6 200 1213 2.3 70 1836 7.5 230	29 Th 0042 2.0 60 0713 6.9 210 1302 2.0 60 1942 7.2 220						
15 F 0446 5.9 180 1041 2.6 80 17											

Argentia, Newfoundland, 2016

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	0142	1.6 50		16 Su	0123	1.0 30		1 Tu	0222	1.3 40	
	0819	7.2 220		16 Su	0758	8.2 250		1 Tu	0856	7.2 220	
	1406	1.6 50		13 Su	1353	0.7 20		1 Tu	1450	1.6 50	
	2043	7.2 220	O	2021	7.9 240			16 W	2113	6.6 200	
2 Su	0215	1.3 40		17 M	0202	0.7 20		2 W	0256	1.6 50	
	0849	7.2 220		17 M	0843	8.2 250		17 Th	0303	1.0 30	
	1439	1.6 50		17 M	1433	0.3 10		2 F	1010	8.5 260	
	2111	6.9 210		2105	7.9 240			15 W	1523	1.6 50	
3 M	0248	1.3 40		18 Tu	0241	0.7 20		3 Th	0329	1.6 50	
	0921	7.2 220		18 Tu	0930	8.2 250		18 F	1107	8.2 250	
	1511	1.6 50		18 Tu	1514	0.7 20		3 Sa	1627	1.6 50	
	2140	6.9 210		2151	7.9 240			18 F	2228	6.9 210	
4 Tu	0321	1.6 50		19 W	0321	1.0 30		4 F	0402	2.0 60	
	0954	7.2 220		19 W	1021	8.2 250		4 F	1046	7.2 220	
	1544	1.6 50		19 W	1556	1.0 30		4 Sa	1630	2.3 70	
	2212	6.6 200		2242	7.2 220			19 Sa	2304	6.2 190	
5 W	0354	1.6 50		20 Th	0402	1.3 40		5 Sa	0436	2.3 70	
	1030	7.2 220		20 Th	1119	7.9 240		5 Sa	0518	2.3 70	
	1617	2.0 60		20 Th	1639	1.3 40		5 M	1306	7.2 220	
	2248	6.6 200		20 Th	2342	6.9 210		5 M	1729	2.3 70	
6 Th	0427	2.0 60		21 F	0445	2.0 60		6 Su	0515	2.6 80	
	1110	6.9 210		21 F	1222	7.5 230		6 Su	1219	6.9 210	
	1651	2.3 70		21 F	1727	2.0 60		6 Su	1749	3.0 90	
	2328	6.2 190		21 F				21 M	0137	6.6 200	
7 F	0501	2.3 70		22 Sa	0053	6.6 200		6 M	0616	3.0 90	
	1155	6.9 210		22 Sa	0533	2.6 80		6 M	1406	6.9 210	
	1728	2.6 80		22 Sa	1327	7.2 220		6 O	1938	3.0 90	
			O	1828	2.6 80			21 W			
8 Sa	0018	5.9 180		23 Su	0201	6.2 190		7 M	0050	5.9 180	
	0539	2.6 80		23 Su	0633	3.0 90		7 M	0852	3.3 100	
	1247	6.6 200		23 Su	1431	6.9 210		7 M	1508	6.6 200	
	1813	3.0 90		23 Su	2127	3.0 90		7 M	2140	3.0 90	
9 Su	0118	5.6 170		24 M	0305	6.2 190		7 O	0122	6.2 190	
	0627	3.0 90		24 M	0946	3.3 100		7 O	0639	2.6 80	
	1348	6.6 200		24 M	1538	6.6 200		7 O	1340	6.6 200	
	1921	3.3 100		24 M	2225	3.0 90		7 O	1914	2.6 80	
10 M	0226	5.6 170		25 Tu	0410	6.2 190		8 W	0335	6.2 190	
	0743	3.3 100		25 Tu	1043	3.0 90		8 W	1005	3.0 90	
	1455	6.6 200		25 Tu	1646	6.6 200		8 W	1612	6.2 190	
	2156	3.3 100		25 Tu	2308	2.6 80		8 W	2223	2.6 80	
11 Tu	0334	5.9 180		26 W	0513	6.6 200		8 Th	0751	3.0 90	
	0955	3.0 90		26 W	1129	2.6 80		8 Th	1443	6.6 200	
	1603	6.6 200		26 W	1748	6.6 200		8 Th	2030	2.6 80	
	2249	3.0 90		26 W	2339	2.3 70		8 Th			
12 W	0441	6.2 190		27 Th	0604	6.6 200		9 W	0257	5.9 180	
	1055	2.6 80		27 Th	1207	2.3 70		9 W	0848	3.0 90	
	1707	6.9 210		27 Th	1837	6.9 210		9 W	1520	6.6 200	
	2331	2.3 70		27 Th				9 W	2153	2.6 80	
13 Th	0539	6.6 200		28 F	0008	2.0 60		9 W	0434	6.2 190	
	1145	2.0 60		28 F	0646	6.9 210		9 W	1053	2.6 80	
	1804	7.2 220		28 F	1240	2.0 60		9 W	1713	6.2 190	
				28 F	1915	6.9 210		9 W	2258	2.6 80	
14 F	0008	2.0 60		29 Sa	0040	1.6 50		9 W	0434	6.9 210	
	0629	7.2 220		29 Sa	0721	7.2 220		9 W	1135	2.6 80	
	1230	1.6 50		29 Sa	1312	2.0 60		9 W	1803	6.2 190	
	1853	7.5 230		29 Sa	1947	6.9 210		9 W	2244	2.3 70	
15 Sa	0046	1.3 40		30 Su	0113	1.6 50		10 Th	0601	7.2 220	
	0714	7.5 230		30 Su	0752	7.2 220		10 Th	1202	1.6 50	
	1312	1.0 30		30 Su	1345	1.6 50		10 Th	1417	0.7 20	
	1937	7.9 240		30 Su	2014	6.9 210		10 Th	2047	7.5 230	
31 Sa	0148	1.3 40		31 M	0148	1.3 40		11 Tu	0613	6.9 210	
	0823	7.2 220		31 M	0823	7.2 220		11 Tu	1113	2.3 70	
	1418	1.6 50		31 M	1418	1.6 50		11 Tu	1844	6.2 190	
	2042	6.6 200		31 M	2042	6.6 200		11 Tu			

Time meridian 52° 30' W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to the Canadian chart datum of soundings. Subtract 1.9 feet (62 centimeters) to refer these levels to the datum of N.O.S. charts.

Pictou, Nova Scotia, 2016

Times and Heights of High and Low Waters

January				February				March			
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height
1 F 0159 5.2 160 0820 2.6 80 1509 5.2 160 2053 3.3 100	h m ft cm	16 Sa 0203 5.6 170 0809 2.0 60 1451 5.9 180 2046 2.6 80	h m ft cm	1 M 0315 4.6 140 0840 3.3 100 1505 5.2 160 2154 2.6 80	h m ft cm	16 Tu 0426 4.9 150 0933 3.3 100 1557 5.6 170 2245 2.0 60	h m ft cm	1 Tu 0246 4.6 140 0800 3.3 100 1413 5.2 160 2102 2.3 70	h m ft cm	16 W 0419 4.9 150 0916 3.3 100 1527 5.6 170 2225 1.6 50	
	h m ft cm		h m ft cm		h m ft cm		h m ft cm	h m ft cm			
	h m ft cm		h m ft cm		h m ft cm		h m ft cm	h m ft cm			
	h m ft cm		h m ft cm		h m ft cm		h m ft cm	h m ft cm			
2 Sa 0256 4.9 150 0859 3.0 90 1545 5.2 160 2154 3.3 100	17 Su 0312 5.2 160 0859 2.6 80 1539 5.9 180 2152 2.3 70	2 Tu 0428 4.3 130 0921 3.6 110 1545 5.2 160 2300 2.6 80	17 W 0548 4.9 150 1040 3.6 110 1702 5.6 170	2 W 0348 4.6 140 0840 3.3 100 1452 5.2 160 2203 2.3 70	2 Th 0535 4.9 150 1027 3.6 110 1641 5.2 160 2344 2.0 60						
	h m ft cm	h m ft cm	h m ft cm	h m ft cm	h m ft cm						
	h m ft cm	h m ft cm	h m ft cm	h m ft cm	h m ft cm						
	h m ft cm	h m ft cm	h m ft cm	h m ft cm	h m ft cm						
3 Su 0408 4.6 140 0941 3.3 100 1622 5.2 160 2302 3.0 90	18 M 0434 4.9 150 0957 3.0 90 1631 5.9 180 2305 2.3 70	3 W 0547 4.3 130 1015 3.6 110 1635 5.6 170	18 Th 0004 2.0 60 0706 4.9 150 1153 3.6 110 1812 5.6 170	3 Th 0504 4.3 130 0933 3.6 110 1542 5.2 160 2313 2.3 70	18 F 0648 4.9 150 1143 3.6 110 1758 5.2 160						
	h m ft cm	h m ft cm	h m ft cm	h m ft cm	h m ft cm						
	h m ft cm	h m ft cm	h m ft cm	h m ft cm	h m ft cm						
	h m ft cm	h m ft cm	h m ft cm	h m ft cm	h m ft cm						
4 M 0527 4.6 140 1030 3.6 110 1702 5.2 160	19 Tu 0557 4.9 150 1103 3.3 100 1730 5.9 180	4 Th 0009 2.6 80 0701 4.6 140 1125 3.9 120 1735 5.6 170	19 F 0116 1.6 50 0817 4.9 150 1303 3.6 110 1919 5.6 170	4 F 0619 4.3 130 1046 3.6 110 1646 5.2 160	19 Sa 0055 2.0 60 0752 4.9 150 1253 3.3 100 1908 5.2 160						
	h m ft cm	h m ft cm	h m ft cm	h m ft cm	h m ft cm						
	h m ft cm	h m ft cm	h m ft cm	h m ft cm	h m ft cm						
	h m ft cm	h m ft cm	h m ft cm	h m ft cm	h m ft cm						
5 Tu 0008 3.0 90 0638 4.6 140 1126 3.6 110 1748 5.6 170	20 W 0019 2.0 60 0714 4.9 150 1211 3.6 110 1831 5.9 180	5 F 0111 2.3 70 0805 4.6 140 1237 3.9 120 1842 5.6 170	20 Sa 0216 1.6 50 0911 4.9 150 1405 3.6 110 2018 5.9 180	5 Sa 0022 2.0 60 0725 4.6 140 1206 3.6 110 1806 5.2 160	20 Su 0153 2.0 60 0840 4.9 150 1354 3.3 100 2008 5.2 160						
	h m ft cm	h m ft cm	h m ft cm	h m ft cm	h m ft cm						
	h m ft cm	h m ft cm	h m ft cm	h m ft cm	h m ft cm						
	h m ft cm	h m ft cm	h m ft cm	h m ft cm	h m ft cm						
6 W 0104 2.6 80 0742 4.6 140 1226 3.9 120 1837 5.6 170	21 Th 0127 1.6 50 0824 5.2 160 1317 3.6 110 1931 6.2 190	6 Sa 0204 2.0 60 0859 4.9 150 1341 3.6 110 1947 5.9 180	21 Su 0305 1.6 50 0953 5.2 160 1457 3.3 100 2110 5.9 180	6 Su 0124 2.0 60 0820 4.9 150 1317 3.3 100 1926 5.6 170	21 M 0241 2.0 60 0918 4.9 150 1444 2.6 80 2059 5.2 160						
	h m ft cm	h m ft cm	h m ft cm	h m ft cm	h m ft cm						
	h m ft cm	h m ft cm	h m ft cm	h m ft cm	h m ft cm						
	h m ft cm	h m ft cm	h m ft cm	h m ft cm	h m ft cm						
7 Th 0152 2.3 70 0838 4.9 150 1322 3.9 120 1928 5.9 180	22 F 0226 1.3 40 0923 5.2 160 1417 3.6 110 2028 6.2 190	7 Su 0250 1.6 50 0943 5.2 160 1439 3.6 110 2046 5.9 180	22 M 0347 1.6 50 1028 5.2 160 1543 3.0 90 O 2156 5.9 180	7 M 0217 1.6 50 0905 4.9 150 1418 3.0 90 2032 5.9 180	22 Tu 0321 2.0 60 0951 5.2 160 1527 2.3 70 2145 5.6 170						
	h m ft cm	h m ft cm	h m ft cm	h m ft cm	h m ft cm						
	h m ft cm	h m ft cm	h m ft cm	h m ft cm	h m ft cm						
	h m ft cm	h m ft cm	h m ft cm	h m ft cm	h m ft cm						
8 F 0236 2.0 60 0927 4.9 150 1415 3.9 120 2018 5.9 180	23 Sa 0317 1.3 40 1012 5.2 160 1510 3.6 110 O 2119 6.2 190	8 M 0333 1.3 40 1023 5.2 160 1530 3.3 100 ● 2140 6.2 190	23 Tu 0424 1.6 50 1059 5.2 160 1625 2.6 80 2239 5.9 180	8 W 0304 1.3 40 0946 5.2 160 1512 2.6 80 ● 2130 5.9 180	23 O 0357 2.0 60 1021 5.2 160 1606 2.3 70 ● 2228 5.6 170						
	h m ft cm	h m ft cm	h m ft cm	h m ft cm	h m ft cm						
	h m ft cm	h m ft cm	h m ft cm	h m ft cm	h m ft cm						
	h m ft cm	h m ft cm	h m ft cm	h m ft cm	h m ft cm						
9 Sa 0316 1.6 50 1011 5.2 160 1504 3.6 110 ● 2106 6.2 190	24 Su 0402 1.3 40 1053 5.6 170 1558 3.3 100 2206 6.2 190	9 Tu 0414 1.0 30 1100 5.6 170 1619 3.0 90 2230 6.2 190	24 W 0459 1.6 50 1130 5.2 160 1704 2.6 80 2320 5.6 170	9 W 0348 1.3 40 1024 5.6 170 1601 2.0 60 2223 6.2 190	24 Th 0429 2.3 70 1050 5.2 160 1642 2.0 60 2307 5.2 160						
	h m ft cm	h m ft cm	h m ft cm	h m ft cm	h m ft cm						
	h m ft cm	h m ft cm	h m ft cm	h m ft cm	h m ft cm						
	h m ft cm	h m ft cm	h m ft cm	h m ft cm	h m ft cm						
10 Su 0356 1.3 40 1051 5.6 170 1550 3.6 110 2152 6.2 190	25 M 0444 1.3 40 1131 5.6 170 1642 3.3 100 2250 6.2 190	10 W 0455 1.0 30 1138 5.9 180 1705 2.3 70 2320 6.2 190	25 Th 0530 2.0 60 1159 5.2 160 1740 2.3 70 2358 5.6 170	10 Th 0431 1.3 40 1102 5.9 180 1648 1.6 50 2314 6.2 190	25 F 0459 2.3 70 1117 5.2 160 1716 1.6 50 2345 5.2 160						
	h m ft cm	h m ft cm	h m ft cm	h m ft cm	h m ft cm						
	h m ft cm	h m ft cm	h m ft cm	h m ft cm	h m ft cm						
	h m ft cm	h m ft cm	h m ft cm	h m ft cm	h m ft cm						
11 M 0436 1.3 40 1130 5.6 170 1636 3.3 100 2238 6.2 190	26 Tu 0522 1.3 40 1206 5.6 170 1724 3.0 90 2332 5.9 180	11 Th 0536 1.3 40 1215 5.9 180 1752 2.3 70	26 F 0600 2.3 70 1225 5.2 160 1816 2.3 70	11 F 0513 1.3 40 1140 5.9 180 1734 1.3 40	26 Sa 0528 2.6 80 1142 5.2 160 1749 1.6 50						
	h m ft cm	h m ft cm	h m ft cm	h m ft cm	h m ft cm						
	h m ft cm	h m ft cm	h m ft cm	h m ft cm	h m ft cm						
	h m ft cm	h m ft cm	h m ft cm	h m ft cm	h m ft cm						
12 Tu 0515 1.0 30 1209 5.6 170 1722 3.3 100 2325 6.2 190	27 W 0558 1.6 50 1239 5.6 170 1804 3.0 90 2325 6.2 190	12 F 0011 6.2 190 0618 1.3 40 1253 5.9 180 1839 2.0 60	27 Sa 0036 5.2 160 0629 2.3 70 1250 5.2 160 1852 2.3 70	12 Sa 0006 5.9 180 0557 1.6 50 1219 6.2 190 1822 1.0 30	27 Su 0023 5.2 160 0557 2.6 80 1206 5.2 160 1823 1.6 50						
	h m ft cm	h m ft cm	h m ft cm	h m ft cm	h m ft cm						
	h m ft cm	h m ft cm	h m ft cm	h m ft cm	h m ft cm						
	h m ft cm	h m ft cm	h m ft cm	h m ft cm	h m ft cm						
13 W 0556 1.3 40 1247 5.9 180 1808 3.0 90	28 Th 0012 5.6 170 0632 2.0 60 1310 5.2 160 1844 3.0 90	13 Sa 0103 5.9 180 0701 1.6 50 1333 5.9 180 1929 2.0 60	28 Su 0115 4.9 150 0658 2.6 80 1314 5.2 160 1930 2.3 70	13 Su 0059 5.9 180 0641 2.0 60 1259 5.9 180 1911 1.0 30	28 M 0102 4.9 150 0627 3.0 90 1232 5.2 160 1859 1.6 50						
	h m ft cm	h m ft cm	h m ft cm	h m ft cm	h m ft cm						
	h m ft cm	h m ft cm	h m ft cm	h m ft cm	h m ft cm						
	h m ft cm	h m ft cm	h m ft cm	h m ft cm	h m ft cm						
14 Th 0013 6.2 190 0638 1.3 40 1327 5.9 180 1856 3.0 90	29 F 0052 5.6 170 0704 2.3 70 1339 5.2 160 1924 3.0 90	14 Su 0201 5.6 170 0747 2.3 70 1415 5.9 180 2025 2.0 60	29 M 0157 4.9 150 0728 3.0 90 1341 5.2 160 2012 2.3 70	14 M 0157 5.6 170 0727 2.6 80 1342 5.9 180 2006 1.3 40	29 Tu 0144 4.9 150 0659 3.0 90 1300 5.2 160 1940 2.0 60						
	h m ft cm	h m ft cm	h m ft cm	h m ft cm	h m ft cm						
	h m ft cm	h m ft cm	h m ft cm	h m ft cm	h m ft cm						
	h m ft cm	h m ft cm	h m ft cm	h m ft cm	h m ft cm						
15 F 0105 5.9 180 0722 1.6 50 1408 5.9 180 1948 2.6 80	30 Sa 0133 5.2 160 0735 2.6 80 1406 5.2 160 2007 3.0 90	15 M 0308 5.2 160 0837 2.6 80 1502 5.9 180 ● 2130 2.0 60	31 Su 0219 4.9 150 0806 3.0 90 1434 5.2 160 ● 2056 3.0 90	15 Tu 0304 5.2 160 0818 3.0 90 1429 5.6 170 ● 2109 1.6 50	30 W 0231 4.6 140 0736 3.3 100 1333 5.2 160 2027 2.0 60						
	h m ft cm	h m ft cm	h m ft cm	h m ft cm	h m ft cm						
	h m ft cm	h m ft cm	h m ft cm	h m ft cm	h m ft cm						
	h m ft cm	h m ft cm	h m ft cm	h m ft cm	h m ft cm						

Pictou, Nova Scotia, 2016

Times and Heights of High and Low Waters

April					May					June				
	Time	Height		Time	Height		Time	Height		Time	Height		Time	Height
1 F 0434 4.6 140 0915 3.6 110 1504 5.2 160 2228 2.0 60	16 0614 4.9 150		Sa 1131 3.3 100	1 Su 1019 3.3 100	1 M 1606 4.9 150	16 0504 4.9 150	W 1215 2.6 80	1 W 0605 5.6 170	16 0648 5.2 160	16 0031 3.0 90				
	Sa 1742 4.9 150			1742 4.9 150		2257 2.0 60	1019 3.3 100	1830 4.6 140	1219 2.0 60	1853 4.9 150	1330 2.0 60	1959 4.6 140	Th 1330 2.0 60	
							1606 4.9 150		1830 4.6 140				1959 4.6 140	
							2257 2.0 60		1853 4.9 150					
2 Sa 0540 4.6 140 1030 3.6 110 1615 4.9 150 2336 2.0 60	17 0021 2.0 60		Su 0708 4.9 150	2 M 1132 3.0 90	17 0556 4.9 150	17 0033 2.6 80	2 Th 0655 5.6 170	17 0118 3.3 100	17 0729 5.2 160	17 0031 3.0 90				
	1239 3.0 90			1239 3.0 90		1742 4.9 150	0701 4.9 150	1312 2.3 70	1320 1.6 50	2000 5.2 160	1415 2.0 60	2050 4.6 140	F 1415 2.0 60	
	1853 4.9 150						1312 2.3 70		1932 4.6 140				2050 4.6 140	
							1932 4.6 140							
3 Su 0640 4.6 140 1148 3.3 100 1747 4.9 150	18 0118 2.3 70		M 0753 4.9 150	3 Tu 0001 2.0 60	18 0504 4.9 150	18 W 0122 2.6 80	3 F 0746 5.9 180	18 0202 3.3 100	18 Sa 0809 5.2 160	18 0031 3.0 90				
	1337 2.6 80			1337 2.6 80		1239 2.6 80	0740 5.2 160	1401 2.0 60	1416 1.0 30	2102 5.2 160	1456 1.6 50	2137 4.9 150	Sa 1456 1.6 50	
	1954 4.9 150			1954 4.9 150		1903 4.9 150	1401 2.0 60	2026 4.9 150	2102 5.2 160				2137 4.9 150	
							2026 4.9 150							
4 M 0041 2.0 60 0733 4.9 150 1258 3.0 90 1913 5.2 160	19 0206 2.3 70		Tu 0831 4.9 150	4 W 0102 2.0 60	19 0504 4.9 150	19 Th 0206 3.0 90	4 Sa 0226 2.6 80	19 0244 3.3 100	19 Su 0848 5.6 170	19 0325 3.3 100				
	1426 2.3 70			1426 2.3 70		1339 2.0 60	0734 5.2 160	1443 2.0 60	1509 0.7 20	● 2159 5.6 170	1533 1.3 40	2221 4.9 150	Th 1415 2.0 60	
	2046 4.9 150			2046 4.9 150		2011 5.2 160	1443 2.0 60	2114 4.9 150	2159 5.6 170				2221 4.9 150	
							2114 4.9 150							
5 Tu 0139 1.6 50 0820 5.2 160 1359 2.3 70 2021 5.6 170	20 0247 2.3 70		W 0906 5.2 160	5 Th 0159 2.0 60	20 0504 4.9 150	20 F 0245 3.0 90	5 Sa 0319 2.6 80	20 0325 3.3 100	20 M 0927 5.6 170	20 0325 3.3 100				
	1507 2.0 60			1507 2.0 60		1434 1.3 40	0821 5.6 170	1521 1.6 50	1559 0.3 10	● 2303 5.2 160	1610 1.3 40	2303 5.2 160	Th 1533 1.3 40	
	2132 5.2 160			2132 5.2 160		2111 5.6 170	1521 1.6 50	2158 4.9 150	2254 5.6 170				2303 5.2 160	
							2158 4.9 150							
6 W 0231 1.6 50 0903 5.6 170 1453 2.0 60 2120 5.6 170	21 0323 2.6 80		Th 0937 5.2 160	6 F 0251 2.3 70	21 0504 4.9 150	21 Sa 0321 3.0 90	6 M 0410 3.0 90	21 0405 3.3 100	21 Tu 1006 5.6 170	21 0405 3.3 100				
	1545 2.0 60			1545 2.0 60		1525 0.7 20	0907 5.9 180	1556 1.3 40	1649 0.3 10	● 2344 5.2 160	1647 1.0 30	2344 5.2 160	Th 1647 1.0 30	
	2214 5.2 160			2214 5.2 160		● 2207 5.6 170	1525 0.7 20	2240 4.9 150	2346 5.6 170				2344 5.2 160	
							2207 5.6 170							
7 Th 0319 1.6 50 0945 5.9 180 1543 1.3 40 ● 2215 5.9 180	22 0356 2.6 80		F 1007 5.2 160	7 Sa 0341 2.3 70	22 0504 4.9 150	22 Tu 0459 3.0 90	7 W 1045 5.9 180	22 0446 3.3 100	22 W 1045 5.9 180	22 0446 3.3 100				
	1619 1.6 50			1619 1.6 50		1613 0.3 10	0952 6.2 190	1630 1.3 40	1738 0.3 10	● 2224 5.2 160	1724 1.0 30	2224 5.2 160	Th 1724 1.0 30	
	2254 5.2 160			2254 5.2 160		2301 5.9 180	0958 6.2 190	2320 5.2 160	2320 5.2 160				2224 5.2 160	
							0958 6.2 190							
8 F 0405 1.6 50 1026 5.9 180 1630 0.7 20 2307 5.9 180	23 0427 3.0 90		Sa 1035 5.2 160	8 Su 0429 2.3 70	23 0504 4.9 150	23 M 0431 3.3 100	8 W 0538 5.6 170	23 0024 5.2 160	23 Th 0527 3.3 100	23 0024 5.2 160				
	1652 1.3 40			1652 1.3 40		1701 0.3 10	1037 6.2 190	1704 1.3 40	1151 0.7 20	● 2344 5.2 160	1126 1.0 30	2344 5.2 160	Th 1126 1.0 30	
	2333 5.2 160			2333 5.2 160		2354 5.9 180	1037 6.2 190	1704 1.3 40	1827 0.7 20				2344 5.2 160	
							1037 6.2 190							
9 Sa 0450 2.0 60 1106 6.2 190 1717 0.7 20	24 0458 3.0 90		Su 1102 5.6 170	9 M 0517 2.6 80	24 0504 4.9 150	24 Th 0129 5.6 170	9 Th 0638 3.0 90	24 0104 5.2 160	24 F 0611 3.3 100	24 0104 5.2 160				
	1102 5.6 170			1102 5.6 170		1121 0.3 10	0507 3.3 100	1103 5.6 170	1240 5.9 180	● 2405 5.2 160	1209 5.6 170	2405 5.2 160	Th 1209 5.6 170	
	1725 1.3 40			1725 1.3 40		1750 0.3 10	1121 0.3 10	1740 1.3 40	1917 1.0 30				2405 5.2 160	
							1121 0.3 10							
10 Su 0000 5.9 180 0536 2.0 60 1148 6.2 190 1805 0.7 20	25 0012 5.2 160		M 0530 3.0 90	10 Tu 0049 5.9 180	25 0504 4.9 150	25 W 0042 5.2 160	10 F 0220 5.2 160	25 0145 5.2 160	25 Sa 0657 3.0 90	25 0145 5.2 160				
	1130 5.6 170			1130 5.6 170		1207 6.2 190	0605 3.0 90	1137 5.6 170	1332 5.6 170	● 2508 5.2 160	1256 5.6 170	2508 5.2 160	Th 1256 5.6 170	
	1759 1.3 40			1759 1.3 40		1840 0.7 20	0605 3.0 90	1819 1.3 40	1859 1.3 40				2508 5.2 160	
							0605 3.0 90							
11 M 0055 5.9 180 0622 2.3 70 1230 6.2 190 1854 0.7 20	26 0052 5.2 160		Tu 0604 3.3 100	11 W 0145 5.6 170	26 0504 4.9 150	26 Th 0124 5.2 160	11 Sa 0309 5.2 160	26 0226 5.2 160	26 Su 0746 3.0 90	26 0226 5.2 160				
	1159 5.6 170			1159 5.6 170		1254 5.9 180	0655 3.0 90	1214 5.6 170	1431 5.2 160	● 2102 2.0 60	1350 5.2 160	2102 2.0 60	Th 1350 5.2 160	
	1836 1.3 40			1836 1.3 40		1933 1.0 30	1254 5.9 180	1859 1.3 40	2102 2.0 60				2102 2.0 60	
							1254 5.9 180							
12 Tu 0154 5.6 170 0710 3.0 90 1314 5.9 180 1948 1.0 30	27 0135 4.9 150		W 0641 3.3 100	12 Th 0244 5.2 160	27 0504 4.9 150	27 F 0208 5.2 160	12 Su 0356 5.2 160	27 0309 5.2 160	27 M 0842 2.6 80	27 0309 5.2 160				
	1231 5.6 170			1231 5.6 170		1346 5.6 170	0749 3.3 100	1256 5.2 160	1537 4.9 150	● 2155 2.3 70	1454 4.9 150	2155 2.3 70	Th 1454 4.9 150	
	1916 1.6 50			1916 1.6 50		2031 1.3 40	0749 3.3 100	1945 1.3 40	2155 2.3 70				2155 2.3 70	
							0749 3.3 100							
13 W 0258 5.2 160 0803 3.3 100 1403 5.6 170 ● 2051 1.3 40	28 0222 4.9 150		Th 0721 3.3 100	13 F 0343 5.2 160	28 0504 4.9 150	28 M 0441 4.9 150	13 Th 0353 5.2 160	28 0944 2.6 80	28 Tu 1045 4.9 150	28 0944 2.6 80				
	1306 5.2 160			1306 5.2 160		1449 5.2 160	0849 3.3 100	1345 5.2 160	1649 4.6 140	● 2249 2.6 80	1609 4.9 150	2249 2.6 80	Th 1609 4.9 150	
	2002 1.6 50			2002 1.6 50		● 2134 1.6 50	0849 3.3 100	2034 1.6 50	2034 1.6 50				2249 2.6 80	
							0849 3.3 100							
14 Th 0406 4.9 150 0904 3.3 100 1505 5.2 160 2202 1.6 50	29 0314 4.9 150		F 0809 3.6 110	14 Sa 0439 4.9 150	29 0504 4.9 150	29 M 0441 4.9 150	14 Th 0440 5.6 170	29 1051 2.3 70	29 W 1729 4.9 150	29 1051 2.3 70				
	1349 5.2 160			1349 5.2 160		1604 4.9 150	0958 3.3 100	1448 4.9 150	1758 4.6 140	● 2341 3.0 90	2300 2.6 80	2341 3.0 90	Th 2300 2.6 80	
	● 2055 1.6 50			● 2055 1.6 50		2238 2.0 60	0958 3.3 100	2128 2.0 60	2341 3.0 90				2300 2.6 80	
							0958 3.3 100							
15 F 0513 4.9 150 1016 3.6 110 1623 4.9 150 2315 2.0 60	30 0409 4.9 150		Sa 0909 3.6 110	15 Su 0530 4.9 150	30 0428 5.2 160	30 M 0606 4.9 150	15 Tu 1112 2.6 80	30 1040 5.6 170	30 W 1729 4.9 150	30 1040 5.6 170				
	1446 4.9 150			1446 4.9 150		1109 3.0 90	1004 3.0 90	1109 3.0 90	1239 2.3 70	● 2328 2.3 70	1843 4.9 150	2328 2.3 70	Th 1843 4.9 150	
	2154 2.0 60			2154 2.0 60		2338 2.3 70	1004 3.0 90	2338 2.3 70	2226 2.0 60				2328 2.3 70	
							1004 3.0 90							

Time meridian 60° W. 0000 is midnight. 12

Pictou, Nova Scotia, 2016

Times and Heights of High and Low Waters

July				August				September			
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height
1 F 0004 2.6 80 0625 5.9 180 1303 1.3 40 1951 4.9 150	16 0027 3.3 100 Sa 0639 5.2 160 1344 2.0 60 2021 4.6 140	1 M 0152 3.3 100 0807 5.9 180 1453 1.0 30 2142 5.2 160	16 0136 3.3 100 Tu 0749 5.6 170 1444 1.6 50 2127 4.9 150	1 Th 0326 2.6 80 0944 5.9 180 1609 1.6 50 2241 5.2 160	16 0255 2.6 80 0917 5.9 180 1532 1.6 50 2204 5.6 170						
2 Sa 0107 3.0 90 0721 5.9 180 1404 1.0 30 2054 5.2 160	17 0119 3.6 110 Su 0728 5.2 160 1430 1.6 50 2112 4.6 140	2 Tu 0249 3.0 90 0902 6.2 190 1543 1.0 30 ● 2229 5.2 160	17 0229 3.3 100 W 0843 5.6 170 1524 1.3 40 2207 4.9 150	2 F 0409 2.3 70 1030 5.9 180 1647 1.6 50 2314 5.2 160	17 0342 2.0 60 Sa 1008 5.9 180 1614 1.6 50 2241 5.6 170						
3 Su 0206 3.0 90 0817 6.2 190 1459 0.7 20 2152 5.2 160	18 0208 3.6 110 M 0816 5.6 170 1511 1.6 50 2157 4.9 150	3 W 0340 3.0 90 0953 6.2 190 1628 1.0 30 2312 5.2 160	18 0317 3.0 90 Th 0933 5.9 180 1604 1.3 40 O 2245 5.2 160	3 Sa 0450 2.3 70 1113 5.9 180 1723 2.0 60 2346 5.2 160	18 0427 1.6 50 Su 1057 6.2 190 1655 1.6 50 2319 5.9 180						
4 M 0302 3.0 90 0911 6.2 190 1551 0.7 20 ● 2245 5.6 170	19 0255 3.3 100 Tu 0903 5.6 170 1550 1.3 40 O 2239 4.9 150	4 Th 0427 2.6 80 1041 6.2 190 1711 1.0 30 2351 5.2 160	19 0403 2.6 80 F 1021 5.9 180 1643 1.3 40 2322 5.6 170	4 Su 0529 2.0 60 1155 5.6 170 1757 2.3 70	19 0512 1.3 40 M 1147 6.2 190 1737 2.0 60 2358 5.9 180						
5 Tu 0354 3.0 90 1002 6.2 190 1640 0.7 20 2333 5.6 170	20 0340 3.3 100 W 0949 5.9 180 1628 1.0 30 2319 5.2 160	5 F 0511 2.6 80 1127 5.9 180 1751 1.3 40	20 0448 2.3 70 Sa 1109 5.9 180 1722 1.3 40 2358 5.6 170	5 M 0017 5.2 160 0607 2.0 60 1236 5.6 170 1829 2.3 70	20 0558 1.0 30 Tu 1239 5.9 180 1821 2.3 70						
6 W 0443 3.0 90 1052 6.2 190 1726 0.7 20	21 0425 3.0 90 Th 1033 5.9 180 1707 1.0 30 2357 5.2 160	6 Sa 0027 5.2 160 0554 2.3 70 1212 5.6 170 1829 1.6 50	21 0533 2.0 60 Su 1157 5.9 180 1803 1.3 40	6 Tu 0046 5.2 160 0644 2.0 60 1318 5.2 160 1901 2.6 80	21 0038 5.9 180 W 0647 1.0 30 1336 5.9 180 1908 2.6 80						
7 Th 0019 5.6 170 0531 3.0 90 1139 5.9 180 1812 1.0 30	22 0508 3.0 90 F 1119 5.9 180 1746 1.0 30	7 Su 0103 5.2 160 0636 2.3 70 1256 5.6 170 1906 2.0 60	22 0036 5.6 170 M 0619 1.6 50 1248 5.9 180 1845 1.6 50	7 W 0113 5.2 160 0723 2.0 60 1402 4.9 150 1934 3.0 90	22 0121 5.9 180 Th 0740 1.3 40 1439 5.6 170 1959 3.0 90						
8 F 0103 5.2 160 0617 2.6 80 1227 5.9 180 1856 1.3 40	23 0035 5.2 160 Sa 0553 2.6 80 1205 5.9 180 1826 1.3 40	8 M 0137 5.2 160 0718 2.3 70 1342 5.2 160 1943 2.3 70	23 0115 5.6 170 Tu 0707 1.6 50 1343 5.6 170 1931 2.0 60	8 Th 0141 5.2 160 0806 2.3 70 1453 4.9 150 2009 3.3 100	23 0210 5.9 180 F 0841 1.3 40 1551 5.2 160 ● 2058 3.3 100						
9 Sa 0145 5.2 160 0704 2.6 80 1316 5.6 170 1940 1.6 50	24 0113 5.6 170 Su 0639 2.3 70 1255 5.6 170 1908 1.3 40	9 Tu 0210 5.2 160 0804 2.3 70 1431 4.9 150 2019 2.6 80	24 0157 5.6 170 W 0759 1.6 50 1446 5.2 160 O 2020 2.6 80	9 F 0213 5.2 160 0857 2.3 70 1554 4.6 140 O 2052 3.6 110	24 0309 5.6 170 Sa 0953 1.6 50 1705 5.2 160 2208 3.6 110						
10 Su 0226 5.2 160 0753 2.6 80 1407 5.2 160 2024 2.0 60	25 0152 5.6 170 M 0727 2.3 70 1349 5.6 170 O 2058 3.0 90	10 W 0242 4.9 150 0854 2.3 70 1528 4.6 140 2058 3.0 90	25 0243 5.6 170 Th 0901 1.6 50 1558 4.9 150 2116 3.0 90	10 Sa 0253 5.2 160 0959 2.3 70 1702 4.6 140 2147 3.6 110	25 0423 5.6 170 Su 1113 2.0 60 1815 4.9 150 2323 3.6 110						
11 M 0306 5.2 160 0846 2.6 80 1505 4.9 150 ● 2108 2.3 70	26 0233 5.6 170 Tu 0821 2.3 70 1451 5.2 160 O 2042 2.0 60	11 Th 0317 4.9 150 0953 2.6 80 1634 4.6 140 2142 3.3 100	26 0338 5.6 170 F 1012 1.6 50 1714 4.9 150 2221 3.3 100	11 Su 0346 5.2 160 1110 2.3 70 1808 4.6 140 2255 3.6 110	26 0540 5.2 160 M 1226 2.0 60 1815 4.9 150 2323 3.6 110						
12 Tu 0346 4.9 150 0946 2.6 80 1610 4.6 140 2154 3.0 90	27 0318 5.6 170 W 0922 2.0 60 1604 4.9 150 2137 2.6 80	12 F 0358 4.9 150 1101 2.3 70 1741 4.3 130 2236 3.3 100	27 0442 5.6 170 Sa 1129 1.6 50 1828 4.9 150 2332 3.3 100	12 M 0455 5.2 160 1218 2.3 70 1909 4.6 140 2111 5.2 160	27 0033 3.3 100 Tu 0650 5.6 170 1329 2.0 60 2011 5.2 160						
13 W 0426 4.9 150 1052 2.6 80 1718 4.6 140 2242 3.0 90	28 0408 5.6 170 Th 1031 2.0 60 1721 4.9 150 2238 3.0 90	13 Sa 0449 5.2 160 1208 2.3 70 1846 4.6 140 2337 3.6 110	28 0552 5.6 170 Su 1243 1.6 50 1937 4.9 150	13 Tu 0005 3.6 110 0614 5.2 160 1317 2.0 60 2002 4.9 150	28 0134 3.0 90 W 0752 5.6 170 1420 2.0 60 2053 5.2 160						
14 Th 0508 4.9 150 1156 2.3 70 1823 4.3 130 2334 3.3 100	29 0504 5.6 170 F 1143 1.6 50 1835 4.9 150 2345 3.0 90	14 Su 0548 5.2 160 1307 2.0 60 1947 4.6 140	29 0041 3.3 100 M 0659 5.6 170 1348 1.6 50 2036 4.9 150	14 W 0109 3.3 100 0724 5.2 160 1406 2.0 60 2047 4.9 150	29 0225 2.6 80 F 0846 5.6 170 1504 2.0 60 2130 5.2 160						
15 F 0552 5.2 160 1253 2.3 70 1924 4.6 140	30 0605 5.9 180 Sa 1252 1.3 40 1945 4.9 150	15 M 0038 3.6 110 0650 5.2 160 1359 2.0 60 2041 4.6 140	30 0143 3.3 100 Tu 0800 5.9 180 1442 1.3 40 2124 5.2 160	15 Th 0205 3.0 90 0823 5.6 170 1451 1.6 50 2127 5.2 160	30 0310 2.3 70 F 0933 5.6 170 1543 2.3 70 ● 2203 5.2 160						
31 Su 0050 3.3 100 0707 5.9 180 1356 1.3 40 2048 5.2 160	31 0238 3.0 90 W 0855 5.9 180 1528 1.3 40 2205 5.2 160		31 0238 3.0 90 W 0855 5.9 180 1528 1.3 40 2205 5.2 160		31 0225 2.6 80 F 0846 5.6 170 1504 2.0 60 2130 5.2 160						

Time meridian 60° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.

Heights are referred to the Canadian chart datum of soundings.

Pictou, Nova Scotia, 2016

Times and Heights of High and Low Waters

October				November				December			
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height
1 Sa 0351 2.0 60	16 0320 1.6 50	1 Tu 0440 1.6 50	16 0436 0.7 20	1 Th 0451 1.6 50	16 0511 0.7 20						
1017 5.6 170	Su 0954 5.9 180	1123 5.6 170	1128 6.2 190	1146 5.6 170	1210 5.9 180						
1618 2.3 70	O 1543 2.0 60	1648 3.3 100	1650 3.0 90	1651 3.6 110	1721 3.3 100						
2234 5.6 170	2201 6.2 190	2248 5.6 170	2254 6.6 200	2243 5.9 180	2323 6.6 200						
2 Su 0428 2.0 60	17 0407 1.0 30	2 W 0513 1.6 50	17 0524 0.7 20	2 F 0525 1.6 50	17 0559 1.0 30						
1059 5.6 170	M 1046 6.2 190	1202 5.6 170	1222 6.2 190	1224 5.6 170	Sa 1300 5.9 180						
1651 2.6 80	1628 2.3 70	1720 3.6 110	1739 3.3 100	1726 3.6 110	1810 3.3 100						
2303 5.6 170	2241 6.2 190	2315 5.6 170	2339 6.6 200	2315 5.9 180							
3 M 0504 1.6 50	18 0453 0.7 20	3 Th 0546 1.6 50	18 0613 0.7 20	3 Sa 0600 1.6 50	18 0011 6.2 190						
1139 5.6 170	Tu 1137 6.2 190	1241 5.6 170	F 1317 5.9 180	1303 5.6 170	Su 0648 1.3 40						
1722 2.6 80	1713 2.3 70	1752 3.6 110	1828 3.3 100	1805 3.9 120	1350 5.9 180						
2331 5.6 170	2322 6.2 190	2342 5.6 170		2349 5.9 180	1900 3.3 100						
4 Tu 0539 1.6 50	19 0540 0.7 20	4 F 0621 1.6 50	19 0027 6.2 190	4 Su 0638 1.6 50	19 0102 5.9 180						
1218 5.6 170	W 1231 6.2 190	1322 5.2 160	Sa 0705 1.0 30	1344 5.2 160	M 0738 1.6 50						
1753 3.0 90	1759 2.6 80	1827 3.6 110	1415 5.9 180	1846 3.9 120	1440 5.6 170						
2357 5.6 170			1921 3.6 110		1953 3.3 100						
5 W 0613 1.6 50	20 0005 6.2 190	5 Sa 0012 5.6 170	20 0119 5.9 180	5 M 0027 5.6 170	20 0157 5.6 170						
1258 5.2 160	Th 0629 0.7 20	0659 2.0 60	Su 0801 1.6 50	0718 2.0 60	W 0828 2.0 60						
1824 3.3 100	1328 5.9 180	1406 5.2 160	1515 5.6 170	1426 5.2 160	Tu 1529 5.6 170						
	1847 3.0 90	1906 3.9 120	2020 3.6 110	1932 3.6 110	O 2052 3.3 100						
6 Th 0023 5.6 170	21 0050 6.2 190	6 Su 0047 5.6 170	21 0220 5.6 170	6 Tu 0110 5.6 170	21 0303 5.2 160						
0649 2.0 60	F 0721 1.0 30	0742 2.0 60	M 0903 2.0 60	0803 2.0 60	W 0921 2.6 80						
1340 5.2 160	1431 5.6 170	1456 5.2 160	1614 5.6 170	1510 5.2 160	1615 5.2 160						
1856 3.3 100	1940 3.3 100	1951 3.9 120	O 2127 3.6 110	2025 3.6 110	2159 3.3 100						
7 F 0050 5.2 160	22 0141 5.9 180	7 M 0127 5.2 160	22 0335 5.2 160	7 W 0204 5.2 160	22 0419 4.9 150						
0728 2.0 60	Sa 0821 1.3 40	0831 2.3 70	Tu 1008 2.3 70	0852 2.3 70	Th 1016 3.0 90						
1427 4.9 150	1539 5.6 170	1549 4.9 150	1709 5.2 160	1555 5.2 160	1701 5.2 160						
1932 3.6 110	O 2041 3.6 110	2047 3.9 120	2242 3.6 110	O 2127 3.6 110	2313 3.0 90						
8 Sa 0123 5.2 160	23 0243 5.6 170	8 Tu 0219 5.2 160	23 0456 4.9 150	8 Th 0318 4.9 150	23 0536 4.9 150						
0813 2.3 70	Su 0931 1.6 50	0927 2.3 70	W 1112 2.6 80	0947 2.6 80	F 1112 3.3 100						
1523 4.9 150	1646 5.2 160	1642 4.9 150	1758 5.2 160	1641 5.6 170	1745 5.2 160						
2016 3.6 110	2153 3.6 110	2154 3.6 110	2354 3.3 100	2236 3.3 100							
9 Su 0203 5.2 160	24 0402 5.2 160	9 W 0334 4.9 150	24 0612 4.9 150	9 F 0452 4.9 150	24 0021 3.0 90						
0908 2.3 70	M 1047 2.0 60	1029 2.6 80	Th 1212 3.0 90	1047 3.0 90	Sa 0647 4.6 140						
1626 4.9 150	1749 5.2 160	1733 5.2 160	1843 5.2 160	1729 5.6 170	1207 3.6 110						
O 2112 3.9 120	2309 3.6 110	2307 3.6 110	2307 3.6 110	2344 2.6 80	1828 5.6 170						
10 M 0254 5.2 160	25 0523 5.2 160	10 Th 0513 4.9 150	25 0056 3.0 90	10 Sa 0618 4.9 150	25 0118 2.6 80						
1013 2.3 70	Tu 1156 2.3 70	1133 2.6 80	F 0718 4.9 150	1151 3.0 90	Su 0750 4.9 150						
1727 4.9 150	1845 5.2 160	1821 5.2 160	1304 3.3 100	1819 5.9 180	1258 3.6 110						
2223 3.9 120			1924 5.6 170		1910 5.6 170						
11 Tu 0408 4.9 150	26 0020 3.3 100	11 F 0014 3.0 90	26 0147 2.6 80	11 Su 0049 2.3 70	26 0206 2.3 70						
1121 2.3 70	W 0636 5.2 160	0638 5.2 160	Sa 0815 5.2 160	0730 5.2 160	M 0844 4.9 150						
1824 4.9 150	1257 2.6 80	1234 2.6 80	1350 3.3 100	1254 3.0 90	1345 3.9 120						
2336 3.6 110	1932 5.2 160	1908 5.6 170	2002 5.6 170	1911 6.2 190	O 1951 5.6 170						
12 W 0541 5.2 160	27 0119 3.0 90	12 Sa 0114 2.3 70	27 0231 2.3 70	12 M 0147 1.6 50	27 0248 2.0 60						
1225 2.3 70	0739 5.2 160	0747 5.2 160	Su 0905 5.2 160	0834 5.6 170	W 0931 4.9 150						
1914 4.9 150	1348 2.6 80	1331 2.6 80	1431 3.6 110	1353 3.3 100	1428 3.9 120						
	2012 5.2 160	1953 5.9 180	2037 5.6 170	2003 6.6 200	2031 5.9 180						
13 Th 0042 3.3 100	28 0209 2.6 80	13 Su 0209 2.0 60	28 0310 2.0 60	13 M 0242 1.0 30	28 0325 2.0 60						
0700 5.2 160	F 0833 5.2 160	0847 5.6 170	M 0949 5.2 160	0933 5.9 180	W 1012 5.2 160						
1321 2.3 70	1431 2.6 80	1424 2.6 80	1508 3.6 110	1449 3.3 100	1508 3.9 120						
1959 5.2 160	2048 5.6 170	2038 6.2 190	2110 5.9 180	O 2055 6.6 200	2108 5.9 180						
14 F 0140 2.6 80	29 0252 2.3 70	14 M 0259 1.3 40	29 0345 1.6 50	14 W 0333 0.7 20	29 0359 1.6 50						
0805 5.6 170	Sa 0921 5.6 170	0942 5.9 180	Tu 1029 5.6 170	1027 5.9 180	1050 5.2 160						
1411 2.0 60	1510 3.0 90	1514 2.6 80	1542 3.6 110	1541 3.3 100	1547 3.9 120						
2040 5.6 170	2121 5.6 170	O 2124 6.6 200	● 2142 5.9 180	2145 6.9 210	● 2145 5.9 180						
15 Sa 0232 2.3 70	30 0331 2.0 60	15 Tu 0348 0.7 20	30 0418 1.6 50	15 W 0423 0.7 20	30 0433 1.6 50						
0901 5.9 180	Su 1004 5.6 170	1036 6.2 190	1108 5.6 170	1119 6.2 190	1127 5.6 170						
1458 2.0 60	1545 3.0 90	1603 3.0 90	1616 3.6 110	1632 3.3 100	1626 3.6 110						
2121 5.9 180	● 2152 5.6 170	2208 6.6 200	2212 5.9 180	2234 6.9 210	2222 5.9 180						
	31 0406 1.6 50										
	M 1044 5.6 170										
	1617 3.3 100										
	2221 5.6 170										

Time meridian 60° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to the Canadian chart datum of soundings.

Harrington Harbour, Quebec, 2016

Times and Heights of High and Low Waters

January				February				March					
Time	Height	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 F	0311	4.9	150	16 Sa	0311	5.2	160	1 M	0428	4.6	140		
0920	2.3	70	0923	2.0	60	1035	3.0	90	16 Tu	0526	5.2	160	
1540	5.2	160	1538	5.6	170	1612	4.6	140	1 O	1141	2.6	80	
2215	2.3	70	2205	1.6	50	2256	2.3	70	2345	1.6	50		
2 Sa	0418	4.6	140	17 Su	0424	5.2	160	2 Tu	0549	4.9	150		
1025	2.6	80	1037	2.3	70	1155	3.0	90	17 W	0653	5.2	160	
1632	4.9	150	1641	5.2	160	1721	4.3	130	2 W	1306	2.6	80	
2308	2.3	70	2307	1.6	50	1843	4.3	130	2301	2.0	60		
3 Su	0535	4.6	140	18 M	0547	5.2	160	3 W	0001	2.0	60		
1140	3.0	90	1158	2.3	70	0705	4.9	150	18 Th	0058	1.6	50	
1731	4.6	140	1750	4.9	150	1315	3.0	90	3 Th	0805	5.6	170	
						1837	4.3	130		1418	2.3	70	
										1955	4.6	140	
4 M	0005	2.3	70	19 Tu	0012	1.6	50	4 Th	0105	2.0	60		
0649	4.9	150	0707	5.6	170	0806	5.2	160	4 F	0203	1.3	40	
1255	3.0	90	1318	2.3	70	1419	2.6	80	4 F	0859	5.9	180	
1833	4.6	140	1901	4.9	150	1944	4.3	130	2051	4.6	140		
5 Tu	0101	2.0	60	20 W	0116	1.3	40	5 Sa	0200	1.6	50		
0749	5.2	160	0814	5.9	180	0854	5.6	170	5 Sa	0257	1.0	30	
1359	3.0	90	1427	2.3	70	1509	2.3	70	5 Sa	0944	5.9	180	
1930	4.6	140	2005	4.9	150	2038	4.6	140	2137	4.9	150		
6 W	0151	2.0	60	21 Th	0215	1.3	40	6 Sa	0248	1.3	40		
0838	5.6	170	0909	6.2	190	0936	6.2	190	6 Su	0342	1.0	30	
1451	2.6	80	1523	2.0	60	1551	2.0	60	6 Su	1022	6.2	190	
2020	4.6	140	2059	4.9	150	2124	4.9	150	2216	5.2	160		
7 Th	0235	1.6	50	22 F	0307	1.0	30	7 Su	0332	1.0	30		
0921	5.9	180	0956	6.6	200	1015	6.6	200	22 M	0423	0.7	20	
1535	2.3	70	1611	2.0	60	1629	1.6	50	7 M	1056	6.2	190	
2105	4.9	150	2147	5.2	160	2207	5.2	160	22 O	1708	1.6	50	
8 F	0315	1.3	40	23 Sa	0353	0.7	20	8 M	2253	5.6	170		
0959	6.2	190	1039	6.6	200	1053	6.6	200	8 Tu	0310	1.0	30	
1615	2.3	70	1653	1.6	50	1707	1.3	40	22 Tu	1024	6.6	200	
2146	4.9	150	2229	5.2	160	2250	5.6	170	23 W	1048	1.0	30	
9 Sa	0354	1.0	30	24 Su	0436	0.7	20	9 W	0414	0.7	20		
1037	6.6	200	1117	6.6	200	1131	6.9	210	24 Tu	0500	0.7	20	
1653	2.0	60	1732	1.6	50	1745	1.3	40	9 W	1128	6.2	190	
2226	5.2	160	2308	5.2	160	2332	5.9	180	24 W	1157	5.9	180	
10 Su	0432	0.7	20	25 M	0516	0.7	20	9 W	1811	1.3	40		
1115	6.6	200	1154	6.6	200	1209	6.9	210	25 Tu	0441	0.3	10	
1731	1.6	50	1809	1.6	50	1824	1.0	30	25 W	1103	6.6	200	
2306	5.2	160	2346	5.6	170	1226	5.6	170	25 W	1715	0.7	20	
11 M	0511	0.7	20	26 Th	0016	5.9	180	25 W	1811	1.3	40		
1153	6.9	210	1228	6.2	190	0624	0.7	20	26 Th	0003	5.6	170	
1810	1.6	50	1845	1.6	50	1249	6.6	200	26 F	0526	0.3	10	
2347	5.6	170				1905	1.0	30	26 F	1143	6.6	200	
12 Tu	0553	0.7	20	27 W	0024	5.6	170	26 F	0611	1.0	30		
1232	6.9	210	0632	1.0	30	0713	1.0	30	27 W	0048	6.2	190	
1850	1.6	50	1300	5.9	180	1331	6.2	190	27 W	0721	1.6	50	
			1919	1.6	50	1949	1.0	30	27 W	1322	5.2	160	
13 W	0030	5.6	170	28 Th	0102	5.2	160	27 W	1941	1.6	50		
0637	0.7	20	0710	1.3	40	0153	5.9	180	28 Tu	0113	5.6	170	
1313	6.6	200	1332	5.9	180	0806	1.3	40	28 W	0721	1.6	50	
1933	1.6	50	1954	2.0	60	1416	5.9	180	28 W	1353	4.9	150	
14 Th	0117	5.6	170	29 F	0142	5.2	160	28 W	2036	1.3	40		
0725	1.0	30	0750	2.0	60	0907	2.0	60	29 Tu	0238	4.9	150	
1357	6.2	190	1405	5.6	170	1506	5.2	160	29 W	0848	2.3	70	
2019	1.6	50	2031	2.0	60	2131	1.3	40	29 W	1429	4.6	140	
15 F	0209	5.2	160	30 Sa	0227	4.9	150	29 W	2058	2.0	60		
0819	1.6	50	0834	2.3	70	1019	2.3	70	30 Tu	0234	5.9	180	
1445	5.9	180	1439	4.9	150	1606	4.9	150	30 W	0856	1.6	50	
2109	1.6	50	2111	2.0	60	2234	1.6	50	30 W	1438	4.9	150	
			31 Su	0321	4.9	150				31 Tu	2059	1.3	40
			0927	2.6	80					2204	1.6	50	
			1520	4.9	150					2214	2.0	60	
			2158	2.3	70								

Time meridian 60° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to the Canadian chart datum of soundings.

Harrington Harbour, Quebec, 2016

Times and Heights of High and Low Waters

April				May				June			
Time	Height	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 F 0524	4.9	150	16 Sa 0015	2.0	60	1 Su 0552	5.2	160	1 W 0053	2.0	60
1146	2.6	80	0709	4.9	150	1215	2.0	60	W 0714	4.9	150
1712	3.9	120	1323	2.0	60	1814	4.3	130	M 1329	2.0	60
2334	2.0	60	1925	4.3	130				1950	4.9	150
2 Sa 0638	4.9	150	17 Su 0126	1.6	50	2 M 0018	1.6	50	17 Th 0155	2.0	60
1258	2.3	70	0803	4.9	150	0654	5.2	160	W 0800	4.6	140
1841	4.3	130	1414	2.0	60	1313	1.6	50	Tu 1414	1.6	50
			2020	4.6	140	1923	4.9	150	2037	5.2	160
3 Su 0049	1.6	50	18 M 0223	1.6	50	3 Tu 0127	1.6	50	18 W 0245	2.0	60
0738	5.2	160	0845	5.2	160	0748	5.2	160	W 0840	4.6	140
1355	2.0	60	1456	1.6	50	1403	1.3	40	1452	1.3	40
1948	4.6	140	2104	4.9	150	2019	5.2	160	2117	5.6	170
4 M 0153	1.3	40	19 Tu 0310	1.6	50	4 W 0227	1.3	40	4 Th 0329	2.0	60
0827	5.6	170	0921	5.2	160	0837	5.6	170	W 0915	4.6	140
1442	1.6	50	1531	1.3	40	1449	0.7	20	1527	1.3	40
2041	5.2	160	2141	5.2	160	2109	5.9	180	2154	5.6	170
5 Tu 0248	1.0	30	20 W 0350	1.3	40	5 Th 0321	1.0	30	5 F 0408	1.6	50
0911	5.9	180	0953	5.2	160	0923	5.6	170	W 0949	4.6	140
1524	1.0	30	1603	1.3	40	1533	0.3	10	1559	1.0	30
2129	5.6	170	2216	5.6	170	2157	6.6	200	2228	5.9	180
6 W 0338	0.7	20	21 Th 0427	1.3	40	6 F 0412	0.7	20	6 Sa 0444	1.6	50
0953	5.9	180	1023	4.9	150	1008	5.6	170	W 1021	4.6	140
1604	0.7	20	1633	1.0	30	1616	0.0	0	1629	1.0	30
2214	6.2	190	2249	5.9	180	● 2245	6.9	210	O 2302	5.9	180
7 Th 0426	0.3	10	22 F 0502	1.3	40	7 Sa 0502	0.7	20	7 Tu 0520	1.6	50
1035	6.2	190	1052	4.9	150	1052	5.6	170	W 1054	4.6	140
1645	0.3	10	1701	1.0	30	1659	0.0	0	1659	1.0	30
● 2259	6.6	200	O 2322	5.9	180	2332	6.9	210	2337	5.9	180
8 F 0513	0.3	10	23 Sa 0536	1.3	40	8 Su 0552	1.0	30	8 M 0555	1.6	50
1116	5.9	180	1120	4.9	150	1137	5.2	160	W 1127	4.6	140
1725	0.0	0	1728	1.0	30	1744	0.0	0	1731	1.0	30
2346	6.6	200	2355	5.9	180	1829	0.3	10	1806	1.0	30
9 Sa 0602	0.7	20	24 Su 0610	1.6	50	9 M 0021	6.9	210	9 Tu 0013	5.9	180
1159	5.9	180	1150	4.9	150	0643	1.0	30	W 0633	2.0	60
1807	0.0	0	1757	1.0	30	1222	5.2	160	1202	4.6	140
						1829	0.3	10	1806	1.0	30
10 Su 0033	6.6	200	25 M 0029	5.9	180	10 Tu 0111	6.6	200	10 W 0051	5.9	180
0652	1.0	30	0646	1.6	50	0736	1.3	40	W 0714	2.0	60
1242	5.2	160	1221	4.6	140	1309	4.9	150	1240	4.6	140
1851	0.3	10	1828	1.0	30	1918	0.7	20	1844	1.0	30
11 M 0124	6.2	190	26 Tu 0106	5.6	170	11 W 0204	6.2	190	11 Th 0132	5.9	180
0746	1.3	40	0726	2.0	60	0832	1.6	50	W 0758	2.0	60
1327	4.9	150	1256	4.6	140	1359	4.6	140	Th 1322	4.6	140
1939	0.7	20	1903	1.3	40	2012	1.0	30	1928	1.3	40
12 Tu 0219	5.9	180	27 W 0147	5.6	170	12 Th 0303	5.6	170	27 F 0218	5.6	170
0846	1.6	50	0811	2.0	60	0932	2.0	60	W 0847	2.0	60
1417	4.6	140	1335	4.3	130	1459	4.3	130	1411	4.3	130
2034	1.0	30	1944	1.3	40	2114	1.6	50	2020	1.6	50
13 W 0323	5.6	170	28 Th 0236	5.2	160	13 F 0407	5.2	160	13 M 0310	5.6	170
0952	2.0	60	0904	2.3	70	1034	2.0	60	W 0941	2.0	60
1518	4.3	130	1422	4.3	130	1612	4.3	130	1513	4.3	130
● 2138	1.6	50	2036	1.6	50	● 2225	2.0	60	2123	1.6	50
14 Th 0439	5.2	160	29 F 0334	5.2	160	14 Sa 0515	4.9	150	29 W 0409	5.2	160
1105	2.3	70	1005	2.3	70	1136	2.0	60	W 1038	2.0	60
1637	3.9	120	1525	3.9	120	1735	4.3	130	Sa 1628	4.3	130
2254	1.6	50	● 2143	2.0	60	2341	2.0	60	● 2236	2.0	60
15 F 0559	4.9	150	30 Sa 0443	4.9	150	15 Su 0619	4.9	150	30 M 0512	5.2	160
1218	2.3	70	1111	2.3	70	1236	2.0	60	W 1137	1.6	50
1809	3.9	120	1649	3.9	120	1851	4.6	140	1747	4.6	140
			2301	2.0	60				2353	2.0	60
									31 Tu 0614	5.2	160
									1234	1.6	50
									1858	5.2	160

Time meridian 60° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to the Canadian chart datum of soundings.

Harrington Harbour, Quebec, 2016

Times and Heights of High and Low Waters

July				August				September			
Time	Height	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 F 0156	2.0	60	16 Sa 0234	2.6	80	1 M 0344	2.0	60	1 Th 0448	1.6	50
0743	4.9	150	0801	4.3	130	0922	4.9	150	1036	5.6	170
1356	1.0	30	1418	1.6	50	1529	0.7	20	1645	1.0	30
2042	6.2	190	2105	5.6	170	2216	6.6	200	2312	6.2	190
2 Sa 0258	1.6	50	17 Su 0321	2.3	70	2 Tu 0430	1.6	50	2 F 0522	1.6	50
0839	4.9	150	0848	4.6	140	1008	5.2	160	1113	5.6	170
1449	0.7	20	1500	1.3	40	1616	0.7	20	1724	1.0	30
2135	6.6	200	2146	5.9	180	2258	6.6	200	2344	5.9	180
3 Su 0353	1.6	50	18 M 0401	2.3	70	3 W 0512	1.6	50	3 Sa 0555	1.3	40
0930	4.9	150	0930	4.6	140	1051	5.2	160	1150	5.9	180
1538	0.7	20	1539	1.0	30	1659	0.7	20	1801	1.3	40
2224	6.6	200	2224	6.2	190	2338	6.2	190	2312	6.6	200
4 M 0443	1.6	50	19 Tu 0440	2.0	60	4 Th 0551	1.6	50	4 Su 0015	5.6	170
1019	5.2	160	1011	4.9	150	1131	5.6	170	0627	1.6	50
1626	0.3	30	1617	1.0	30	1741	0.7	20	1226	5.6	170
● 2311	6.6	200	○ 2301	6.2	190	1720	0.7	20	1839	1.3	40
5 Tu 0530	1.6	50	20 W 0517	2.0	60	5 F 0015	6.2	190	5 M 0045	5.6	170
1105	5.2	160	1050	4.9	150	0629	1.6	50	0659	1.6	50
1712	0.3	10	1656	0.7	20	1211	5.6	170	1304	5.6	170
2356	6.6	200	2338	6.2	190	1822	1.0	30	1917	2.0	60
6 W 0615	1.6	50	21 Th 0554	1.6	50	6 Sa 0050	5.9	180	6 Tu 0115	5.2	160
1149	5.2	160	1130	5.2	160	0706	1.6	40	0731	1.6	50
1757	0.7	20	1736	0.7	20	1251	5.2	160	1344	5.2	160
7 Th 0040	6.6	200	22 F 0016	6.2	190	1903	1.3	40	1959	2.3	70
0658	1.6	50	0632	1.6	50	7 Su 0125	5.6	170	7 M 0147	4.9	150
1233	5.2	160	1212	5.2	160	1333	5.2	160	0723	1.3	40
1842	1.0	30	1818	0.7	20	1945	1.6	50	1328	5.9	180
8 F 0122	6.2	190	23 Sa 0055	6.2	190	8 M 0159	5.2	160	2041	1.6	50
0742	1.6	50	0712	1.6	50	0821	2.0	60	0850	2.0	60
1317	4.9	150	1256	5.2	160	1419	5.2	160	1528	4.9	150
1928	1.3	40	1903	1.0	30	2032	2.0	60	2148	3.0	90
9 Sa 0203	5.9	180	24 Su 0136	6.2	190	9 Tu 0235	4.9	150	9 F 0312	4.3	130
0825	2.0	60	0755	1.6	50	0902	2.0	60	0945	2.3	70
1405	4.9	150	1345	5.2	160	1512	4.9	150	1641	4.9	150
2016	1.6	50	1955	1.3	40	2126	2.6	80	○ 2300	3.0	90
10 Su 0245	5.2	160	25 M 0220	5.9	180	10 W 0316	4.6	140	10 M 0418	4.3	130
0910	2.0	60	0842	1.6	50	0949	2.0	60	0543	4.3	130
1458	4.9	150	1441	5.2	160	1616	4.9	150	1207	2.3	70
2110	2.0	60	2053	1.6	40	○ 2230	2.6	80	1910	5.2	160
11 M 0329	4.9	150	26 Tu 0310	5.6	170	11 Th 0407	4.3	130	11 Su 0018	3.0	90
0957	2.0	60	0934	1.6	50	1045	2.3	70	0543	4.3	130
1559	4.6	140	1547	5.2	160	1732	4.9	150	1207	2.3	70
● 2211	2.3	70	○ 2201	2.0	60	2343	3.0	90	1910	5.2	160
12 Tu 0417	4.6	140	27 W 0407	5.2	160	12 F 0512	4.3	130	12 M 0126	2.6	80
1048	2.0	60	1031	1.6	50	1147	2.3	70	0700	4.3	130
1711	4.6	140	1703	5.2	160	1847	4.9	150	1313	2.0	60
2320	2.6	80	2317	2.3	70	1929	5.6	170	2003	5.6	170
13 W 0511	4.6	140	28 Th 0512	4.9	150	13 F 0058	3.0	90	12 M 0224	2.0	60
1143	2.0	60	1134	1.6	50	0624	4.3	130	0820	4.9	150
1824	4.9	150	1823	5.6	170	1250	2.0	60	1423	1.6	50
14 Th 0031	2.6	80	29 F 0035	2.3	70	1948	5.2	160	2059	5.9	180
0610	4.3	130	0622	4.6	140	14 Su 0202	2.6	80	12 F 0224	2.0	60
1239	2.0	60	1239	1.3	40	0729	4.3	130	0722	4.6	140
1928	4.9	150	1935	5.9	180	1346	1.6	50	M 1324	1.6	50
15 F 0138	2.6	80	30 Sa 0149	2.3	70	2038	5.6	170	2013	5.6	170
0708	4.3	130	0729	4.6	140	○ 2230	2.6	80	1916	5.6	170
1331	2.0	60	1342	1.3	40	1711	2.3	70	11 F 0019	2.6	80
2020	5.2	160	2036	5.9	180	2317	2.3	70	0605	4.3	130
31 W 0251	2.0	60	31 Su 0829	4.9	150	1928	5.2	160	1213	2.0	60
1438	1.0	30	1438	1.0	30	2129	6.2	190	1916	5.6	170
2129	6.2	190	2129	6.2	190	2338	6.2	190	25 M 0129	2.3	70

Time meridian 60° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to the Canadian chart datum of soundings.

Harrington Harbour, Quebec, 2016

Times and Heights of High and Low Waters

October				November				December			
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height
1 Sa 0450 1.3 40	16 0420 0.7 20	1 Tu 0516 1.3 40	16 0520 0.3 10	1 Th 0521 1.3 40	16 0550 0.3 10						
1055 5.9 180	Su 1036 6.9 210	1143 6.2 190	1157 7.2 220	1201 6.2 190	1235 6.9 210						
1707 1.3 40	M 1651 0.7 20	1801 2.0 60	1819 1.3 40	1821 2.0 60	1857 1.6 50						
2311 5.6 170	O 2253 6.2 190	2339 4.9 150	2359 5.6 170	2349 4.9 150							
2 Su 0520 1.3 40	17 0500 0.7 20	2 W 0545 1.3 40	17 0606 0.7 20	2 F 0553 1.3 40	17 0030 5.2 160						
1129 5.9 180	M 1121 6.9 210	1218 6.2 190	1247 6.9 210	1238 6.2 190	0638 0.7 20						
1743 1.3 40	W 1738 1.0 30	1837 2.0 60	1912 1.6 50	1859 2.3 70	1324 6.6 200						
2340 5.2 160	O 2335 5.9 180				1947 2.0 60						
3 M 0549 1.3 40	18 0542 0.3 10	3 Th 0010 4.9 150	18 0047 5.2 160	3 Sa 0025 4.9 150	18 0118 5.2 160						
1203 5.9 180	Tu 1209 6.9 210	0615 1.3 40	0655 1.0 30	0628 1.3 40	0728 1.3 40						
1818 1.6 50	O 1828 1.0 30	1254 5.9 180	1341 6.6 200	1316 6.2 190	1413 6.2 190						
4 Tu 0008 5.2 160	19 0018 5.6 170	4 F 0043 4.9 150	19 0138 4.9 150	4 Su 0104 4.9 150	19 0211 4.9 150						
0618 1.3 40	W 0626 0.7 20	0648 1.6 50	0749 1.3 40	0708 1.6 50	0823 1.6 50						
1238 5.9 180	M 1259 6.9 210	1334 5.9 180	1439 6.2 190	1359 5.9 180	1505 5.9 180						
1855 2.0 60	O 1922 1.6 50	2000 2.6 80	2108 2.3 70	2026 2.3 70	2130 2.3 70						
5 W 0038 4.9 150	20 0105 5.2 160	5 Sa 0121 4.6 140	20 0237 4.6 140	5 M 0149 4.6 140	20 0311 4.9 150						
0647 1.6 50	Th 0714 1.0 30	0728 2.0 60	0850 1.6 50	0755 2.0 60	0924 2.0 60						
1315 5.6 170	W 1355 6.6 200	1421 5.6 170	1544 5.9 180	1447 5.6 170	1559 5.6 170						
1934 2.3 70	O 2022 2.0 60	2052 2.6 80	2211 2.3 70	2117 2.3 70	2225 2.3 70						
6 Th 0110 4.9 150	21 0157 4.9 150	6 Su 0207 4.6 140	21 0349 4.6 140	6 Tu 0244 4.6 140	21 0422 4.6 140						
0721 1.6 50	W 0809 1.3 40	0818 2.0 60	1002 2.0 60	0853 2.0 60	1033 2.3 70						
1358 5.6 170	M 1459 5.9 180	1518 5.2 160	1654 5.6 170	1542 5.6 170	1658 5.2 160						
2021 2.6 80	O 2129 2.3 70	2151 2.6 80	2315 2.3 70	2213 2.3 70	2323 2.3 70						
7 F 0146 4.6 140	22 0259 4.6 140	7 M 0308 4.3 130	22 0513 4.6 140	7 W 0355 4.6 140	22 0543 4.9 150						
0800 2.0 60	Sa 0915 1.6 50	0922 2.3 70	1119 2.3 70	1003 2.3 70	1148 2.6 80						
1449 5.2 160	M 1614 5.6 170	1625 5.2 160	1801 5.2 160	1643 5.2 160	1758 4.9 150						
2117 2.6 80	O 2242 2.3 70	2255 2.6 80	2311 2.3 70								
8 Sa 0233 4.3 130	23 0418 4.3 130	8 Tu 0429 4.3 130	23 0017 2.3 70	8 Th 0516 4.9 150	23 0020 2.3 70						
0853 2.3 70	W 1032 2.0 60	1040 2.3 70	0634 4.9 150	1121 2.3 70	0657 4.9 150						
1555 4.9 150	Su 1735 5.6 170	1734 5.2 160	1235 2.3 70	1236 2.3 70	1301 2.6 80						
2224 3.0 90	O 2355 2.3 70	2358 2.6 80	1859 5.2 160	1846 5.2 160	1855 4.6 140						
9 Su 0337 4.3 130	24 0549 4.6 140	9 W 0555 4.6 140	24 0112 2.0 60	9 F 0008 2.0 60	24 0115 2.0 60						
1003 2.3 70	M 1153 2.0 60	1158 2.3 70	0737 5.2 160	0631 5.2 160	0756 5.2 160						
1712 4.9 150	O 1847 5.6 170	1835 5.2 160	1339 2.3 70	1236 2.3 70	1404 2.6 80						
2337 3.0 90			1948 5.2 160	1846 5.2 160	1946 4.6 140						
10 M 0506 4.3 130	25 0100 2.3 70	10 Tu 0054 2.3 70	25 0159 2.0 60	10 Sa 0103 1.6 50	25 0203 2.0 60						
1123 2.3 70	W 0707 4.6 140	0704 4.9 150	0826 5.6 170	0735 5.6 170	0844 5.6 170						
1825 5.2 160	Tu 1307 2.0 60	1307 2.0 60	1433 2.3 70	1344 2.0 60	1456 2.6 80						
1944 5.6 170	O 1928 5.6 170	1928 5.6 170	2030 5.2 160	1941 5.6 170	2031 4.6 140						
11 Tu 0044 2.6 80	26 0153 2.0 60	11 F 0143 1.6 50	26 0240 1.6 50	11 Su 0155 1.3 40	26 0245 1.6 50						
0631 4.3 130	W 0804 5.2 160	0759 5.6 170	0907 5.9 180	0830 6.2 190	0925 5.9 180						
1236 2.0 60	Su 1406 2.0 60	1406 1.6 50	1518 2.0 60	1443 1.6 50	1540 2.3 70						
1922 5.2 160	O 2028 5.6 170	2015 5.6 170	2106 4.9 150	2033 5.6 170	2111 4.9 150						
12 W 0138 2.3 70	27 0237 2.0 60	12 Sa 0227 1.3 40	27 0316 1.6 50	12 M 0244 1.0 30	27 0322 1.3 40						
0734 4.9 150	Th 0848 5.6 170	0848 6.2 190	0944 5.9 180	0921 6.9 210	1002 6.2 190						
1338 1.6 50	F 1455 1.6 50	1459 1.3 40	1558 2.0 60	1538 1.6 50	1618 2.3 70						
2009 5.6 170	O 2106 5.6 170	2100 5.9 180	2140 4.9 150	2123 5.6 170	2148 4.9 150						
13 Th 0223 2.0 60	28 0314 1.6 50	13 Su 0310 1.0 30	28 0349 1.3 40	13 M 0331 0.7 20	28 0356 1.3 40						
0824 5.2 160	W 0927 5.9 180	0935 6.6 200	1019 6.2 190	1010 7.2 220	1037 6.2 190						
1430 1.3 40	F 1537 1.6 50	1549 1.3 40	1635 2.0 60	1629 1.3 40	1654 2.3 70						
2051 5.9 180	O 2140 5.6 170	2145 5.9 180	2212 4.9 150	2210 5.6 170	2223 4.9 150						
14 F 0303 1.3 40	29 0347 1.3 40	14 M 0353 0.7 20	29 0420 1.3 40	14 W 0417 0.3 10	29 0429 1.3 40						
0909 5.9 180	Sa 1003 5.9 180	1021 7.2 220	1053 6.2 190	1059 7.2 220	1111 6.6 200						
1518 1.0 30	1615 1.6 50	1639 1.0 30	1711 2.0 60	1719 1.3 40	1729 2.0 60						
2132 6.2 190	O 2211 5.2 160	2229 5.9 180	● 2244 4.9 150	2257 5.6 170	2257 4.9 150						
15 Sa 0342 1.0 30	30 0418 1.3 40	15 Tu 0436 0.3 10	30 0450 1.3 40	15 W 0504 0.3 10	30 0502 1.0 30						
0953 6.2 190	W 1037 6.2 190	1108 7.2 220	1127 6.2 190	1147 7.2 220	1146 6.6 200						
1604 1.0 30	Su 1651 1.6 50	1728 1.3 40	1746 2.0 60	1808 1.6 50	1804 2.0 60						
2212 6.2 190	O 2240 5.2 160	2313 5.6 170	2316 4.9 150	2344 5.6 170	2333 5.2 160						
16 M 0448 1.3 40	31 0448 1.3 40										
1110 6.2 190	W 1110 6.2 190										
1726 1.6 50	Su 1726 1.6 50										
2309 5.2 160	M 2309 5.2 160										

Time meridian 60° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to the Canadian chart datum of soundings.

Quebec, Quebec, 2016

Times and Heights of High and Low Waters

January				February				March				
Time	Height	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 F 0612	1.0	30	16 0612	0.3	10	1 M 0639	1.0	30	16 0006	13.5	410	
1106 13.1 400	Sa 1054	14.8 450	M 1151	12.5 380	Tu 0733	0.7 20	Tu 1057	13.8 420	1 Tu 0551	1.3 40	16 0703	1.3 40
1824 1.6 50	Sa 1839	0.7 20	M 1927	1.3 40	Tu 1239	14.8 450	Tu 1833	1.3 40	W 1212	14.8 450	W 2009	1.0 30
2321 13.1 400	● 2315	14.1 430			Tu 2033	0.7 20	● 2336	12.1 370	O 2336	1.3 370		
2 Sa 0657	1.3 40	17 0703	0.3 10	2 Tu 0021	10.5 320	17 W 0124	12.8 390	2 W 0633	2.0 60	17 Th 0109	12.8 390	
1200 12.8 390	Su 1154	14.8 450	Tu 0727	1.3 40	W 0836	1.0 30	W 1157	13.5 410	17 W 0809	1.6 50	Th 1333	14.4 440
1921 2.0 60	Su 1945	0.7 20	Tu 1254	12.1 370	W 1354	14.4 440	W 1933	1.6 50	2124	1.0 30		
● 2030			Tu 2030	2.0 60	W 2148	0.7 20						
3 Su 0018	12.1 370	18 0021	13.1 400	3 W 0133	11.2 340	18 Th 0245	12.8 390	3 Th 0042	11.5 350	18 F 0230	12.8 390	
0742 1.6 50	M 0803	0.7 20	W 0827	2.0 60	Th 0951	1.0 30	Th 0730	2.3 70	F 0930	1.6 50	1448	14.4 440
1300 12.8 390	M 1303	14.4 440	W 1403	13.1 400	Th 1506	14.8 450	Th 1306	13.5 410	2236	0.7 20		
2033 2.0 60	M 2057	0.7 20	W 2145	1.6 50	Th 2303	0.3 10	Th 2051	1.6 50				
4 M 0127	11.5 350	19 0139	12.5 380	4 Th 0248	11.5 350	19 F 0357	13.1 400	4 F 0203	11.5 350	19 Sa 0342	13.5 410	
0842 2.0 60	Tu 0906	0.7 20	Th 0939	1.6 50	F 1103	1.0 30	F 0848	2.3 70	Sa 1045	1.3 40		
1403 13.1 400	M 1412	14.8 450	Th 1509	13.5 410	F 1612	15.4 470	F 1418	13.5 410	1557	14.8 450		
2142 2.0 60	M 2212	0.7 20	Th 2257	1.0 30			F 2209	1.3 40	2339	0.7 20		
5 Tu 0233	11.2 340	20 0254	12.1 370	5 F 0354	12.1 370	20 Sa 0003	0.3 10	5 Sa 0315	12.1 370	20 Su 0439	14.4 440	
0942 1.6 50	W 1015	0.7 20	F 1051	1.3 40	Sa 0457	13.8 420	Sa 1012	1.6 50	Su 1151	1.0 30	Su 1651	15.4 470
1500 13.5 410	W 1518	15.1 460	F 1603	14.4 440	Sa 1206	0.7 20	Sa 1524	14.4 440				
2245 1.3 40	W 2321	0.3 10			Sa 1709	16.1 490	Sa 2321	0.7 20				
6 W 0336	11.5 350	21 0400	12.5 380	6 Sa 0000	0.3 10	21 Su 0057	0.3 10	6 Su 0412	13.1 400	21 M 0030	0.7 20	
1039 1.6 50	W 1118	0.3 10	Sa 0445	12.8 390	Sa 0539	14.1 430	Su 1124	1.0 30	M 0521	14.8 450		
1554 14.4 440	W 1618	15.7 480	Sa 1154	0.7 20	Sa 1257	0.7 20	Su 1621	15.7 480	M 1242	0.7 20	1736	16.1 490
2342 1.0 30			Sa 1651	15.7 480								
7 Th 0430	12.1 370	22 0021	0.0 0	7 Su 0051	0.3 10	22 M 0142	0.3 10	7 M 0018	0.3 10	22 Tu 0112	0.7 20	
1133 1.3 40	F 0500	12.8 390	Su 0527	13.5 410	M 0621	14.8 450	F 0457	14.1 430	Tu 0557	15.4 470		
1636 15.1 460	F 1218	0.3 10	Su 1245	0.3 10	M 1345	0.3 10	M 1224	0.7 20	1327	0.7 20	1812	16.1 490
	F 1712	16.1 490	Su 1736	16.7 510	O 1830	16.7 510	Tu 1709	17.1 520				
8 F 0033	0.7 20	23 0115	0.0 0	8 M 0139	0.0 0	23 Tu 0218	0.3 10	8 Tu 0109	0.3 10	23 W 0151	0.7 20	
0512 12.5 380	Sa 0548	13.1 400	M 0606	14.4 440	Tu 0654	15.4 470	Tu 0539	15.7 480	W 0630	16.1 490		
1221 1.0 30	Sa 1309	0.0 0	M 1336	0.0 0	Tu 1424	0.3 10	Tu 1318	0.3 10	W 1406	0.7 20		
1721 16.1 490	O 1757	16.4 500	● 1812	17.4 530	Tu 1903	16.7 510	● 1751	17.7 540	O 1842	16.1 490		
9 Sa 0118	0.3 10	24 0200	0.0 0	9 Tu 0221	0.0 0	24 W 0254	0.3 10	9 W 0157	0.3 10	24 Th 0221	0.7 20	
0551 13.1 400	Su 0630	13.8 420	Tu 0645	15.4 470	W 0724	15.7 480	W 0615	16.7 510	Th 0657	16.4 500		
1306 0.7 20	Su 1354	0.0 0	Tu 1424	0.0 0	W 1500	0.3 10	W 1409	0.0 0	Th 1439	0.7 20		
● 1757 16.7 510	Su 1839	16.7 510	Tu 1854	17.7 540	W 1933	16.4 500	W 1833	18.0 550	1912	16.1 490		
10 Su 0200	0.3 10	25 0242	0.0 0	10 Th 0303	0.0 0	25 Th 0324	0.3 10	10 Th 0239	0.3 10	25 F 0251	0.7 20	
0627 13.8 420	M 0709	14.1 430	W 0721	16.1 490	Th 0751	15.7 480	Th 0654	17.4 530	F 0724	16.4 500		
1351 0.3 10	M 1439	0.0 0	W 1512	0.0 0	Th 1536	0.3 10	Th 1457	0.0 0	M 1512	0.7 20		
1836 17.1 520	W 1921	16.4 500	W 1933	17.7 540	Th 2006	16.1 490	Th 1915	18.0 550	1942	16.1 490		
11 M 0242	0.0 0	26 0318	0.0 0	11 Th 0345	0.0 0	26 F 0354	0.3 10	11 F 0321	0.3 10	26 Sa 0321	0.7 20	
0706 14.4 440	Tu 0745	14.1 430	Th 0803	16.4 500	Th 1557	0.0 0	Th 1609	0.3 10	Sa 0751	16.4 500		
1433 0.0 0	Tu 1518	0.0 0	Th 1557	0.0 0	Th 2018	17.4 530	Th 2039	15.7 480	Sa 1545	0.0 0		
1915 17.4 530	Tu 1957	16.1 490							2009	15.7 480		
12 Tu 0321	0.0 0	27 0354	0.0 0	12 F 0424	0.0 0	27 Sa 0424	0.3 10	12 Sa 0400	0.3 10	27 Su 0348	1.0 30	
0745 14.8 450	W 0824	14.4 440	F 1645	0.0 0	W 1642	0.7 20	Sa 0821	18.0 550	Su 0821	16.4 500		
1518 0.0 0	W 1557	0.0 0	F 2106	16.7 510	Tu 2112	14.8 450	Sa 1630	0.3 10	1618	1.0 30		
1957 17.4 530	W 2033	15.4 470							2042	15.1 460		
13 W 0403	0.0 0	28 0427	0.0 0	13 M 0506	0.0 0	28 Su 0451	0.3 10	13 Th 0442	0.3 10	28 M 0418	1.0 30	
0827 15.1 460	Th 0857	14.1 430	Sa 0933	16.4 500	Th 1733	0.3 10	Th 0909	17.7 540	M 0851	16.1 490		
1603 0.0 0	Th 1633	0.3 10	Sa 2109	14.8 450	Sa 2157	15.7 480	Th 1718	0.3 10	1651	1.0 30		
2039 17.1 520	Th 2109	14.8 450							2118	14.4 440		
14 Th 0445	0.0 0	29 0457	0.0 0	14 F 0551	0.0 0	29 M 0518	0.7 20	14 M 0524	0.7 20	29 Tu 0445	1.3 40	
0912 15.1 460	F 0939	13.8 420	Su 1027	16.1 490	Su 1824	0.3 10	W 1012	14.1 430	F 1003	17.1 520		
1651 0.3 10	F 1709	0.7 20	Su 1824	0.3 10	Su 2254	14.4 440	W 1751	1.0 30	W 1809	0.7 20	Tu 1727	1.3 40
2127 16.4 500	F 2148	13.8 420							2239	14.4 440		
15 F 0527	0.0 0	30 0530	0.3 10	15 M 0636	0.3 10							
1000 15.1 460	Sa 1018	13.5 410	Sa 1745	1.0 30	M 1130	15.4 470						
1742 0.7 20	Sa 1903	1.3 40	Sa 2233	12.5 380	M 1927	0.3 10						
2218 15.4 470	Sa 2324	11.5 350										
16 31 0603	0.7 20											
Su 1103	12.8 390											
1830 1.3 40												
● 2324	11.5 350											

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

Quebec, Quebec, 2016

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	0657	2.6 80	16 Sa	0200	13.8 420	1 Su	0042	13.5 410	16 M	0227	14.4 440	1 W	0224	15.4 470		
	1218	13.8 420		0906	2.6 80		0754	2.6 80		0948	2.3 70		1012	1.0 30		
	2012	2.0 60		1418	14.4 440		1254	14.8 450		1451	14.1 430		1448	15.1 460		
				2203	1.6 50		2057	1.3 40		2218	1.6 50		2233	0.7 20		
2 Sa	0115	12.5 380	17 Su	0309	14.1 430	2 M	0151	14.1 430	17 Tu	0327	14.8 450	2 Th	0321	16.7 510		
	0815	2.6 80		1024	2.3 70		0918	2.0 60		1054	1.6 50		1121	0.7 20		
	1327	14.1 430		1527	14.4 440		1409	15.1 460		1551	14.4 440		1551	15.4 470		
	2130	1.6 50		2303	1.3 40		2206	1.3 40		2312	1.6 50		2330	1.0 30		
3 Su	0230	13.1 400	18 M	0406	14.8 450	3 Tu	0254	15.1 460	18 W	0415	15.4 470	3 F	0412	17.7 540		
	0942	2.3 70		1130	1.6 50		1036	1.3 40		1151	1.3 40		1224	0.7 20		
	1442	14.8 450		1624	15.1 460		1512	15.7 480		1639	14.1 430		1645	15.7 480		
	2242	1.3 40		2357	1.3 40		2306	1.0 30		2357	1.3 40					
4 M	0330	14.4 440	19 Tu	0451	15.4 470	4 W	0348	16.4 500	19 Th	0457	16.1 490	4 Sa	0027	0.7 20		
	1100	1.3 40		1224	1.6 50		1142	1.0 30		1239	1.3 40		0503	18.7 570		
	1545	16.1 490		1709	15.4 470		1609	16.7 510		1718	14.4 440		1318	0.7 20		
	2345	1.0 30										●	1739	16.1 490		
5 Tu	0421	15.4 470	20 W	0042	1.3 40	5 Th	0003	1.0 30	20 F	0036	1.3 40	5 Su	0115	0.7 20		
	1203	1.0 30		0527	16.4 500		0436	18.0 550		0530	16.7 510		0551	19.4 590		
	1636	17.1 520		1309	1.3 40		1242	1.0 30		1321	1.0 30		1412	0.7 20		
				1745	15.7 480		1703	17.1 520		1754	14.8 450		1827	16.4 500		
6 W	0039	0.7 20	21 Th	0118	1.3 40	6 F	0054	1.0 30	21 Sa	0112	1.3 40	6 M	0203	1.0 30		
	0506	17.1 520		0557	16.7 510		0521	19.0 580		0603	17.1 520		0636	19.4 590		
	1300	0.7 20		1345	1.3 40		1339	1.0 30		1354	1.0 30		1457	0.7 20		
	1724	17.7 540		1815	15.7 480		●	1751	17.4 530		○	1824	15.1 460		1915	16.1 490
7 Th	0124	0.7 20	22 F	0151	1.3 40	7 Sa	0142	1.0 30	22 Su	0148	1.3 40	7 Tu	0251	0.7 20		
	0545	18.0 550		0627	17.1 520		0603	19.7 600		0633	17.1 520		0724	19.0 580		
	1354	0.7 20		1421	1.3 40		1427	0.7 20		1430	1.0 30		1542	0.7 20		
	● 1809	18.0 550		○ 1848	15.7 480		1836	17.4 530		1857	15.1 460		2003	16.1 490		
8 F	0209	0.7 20	23 Sa	0221	1.6 50	8 Su	0227	1.0 30	23 M	0218	1.3 40	8 W	0336	1.0 30		
	0627	19.0 580		0654	17.4 530		0651	19.7 600		0703	17.4 530		0812	18.4 560		
	1445	0.3 10		1454	1.3 40		1515	1.0 30		1503	1.0 30		1627	0.7 20		
	1854	18.0 550		1915	15.7 480		1924	17.1 520		1930	15.1 460		2051	15.4 470		
9 Sa	0254	0.7 20	24 Su	0248	1.6 50	9 M	0309	1.0 30	24 Tu	0251	1.3 40	9 Th	0418	1.3 40		
	0709	19.4 590		0721	17.4 530		0736	19.7 600		0733	17.4 530		0903	17.7 540		
	1530	0.7 20		1524	1.3 40		1600	1.0 30		1536	1.0 30		1712	0.7 20		
	1939	17.4 530		1945	15.4 470		2012	16.7 510		2003	14.8 450		2142	15.1 460		
10 Su	0333	0.7 20	25 M	0318	1.3 40	10 Tu	0354	1.0 30	25 W	0327	1.3 40	10 F	0503	1.3 40		
	0754	19.0 580		0751	17.1 520		0827	18.7 570		0806	17.1 520		0954	16.7 510		
	1615	0.7 20		1554	1.3 40		1645	1.0 30		1612	1.0 30		1754	1.0 30		
	2027	17.1 520		2015	15.1 460		2103	16.1 490		2039	14.4 440		2233	14.4 440		
11 M	0415	1.0 30	26 Tu	0348	1.3 40	11 W	0436	1.3 40	26 Th	0403	1.3 40	11 Sa	0551	1.6 50		
	0845	18.4 560		0827	16.7 510		0918	17.7 540		0845	16.7 510		1048	15.4 470		
	1700	0.7 20		1630	1.3 40		1733	1.0 30		1651	1.0 30		1839	1.0 30		
	2118	16.1 490		2054	14.4 440		2200	14.8 450		2124	14.4 440		2336	14.4 440		
12 Tu	0457	1.0 30	27 W	0421	1.6 50	12 Th	0524	1.6 50	27 F	0442	1.6 50	12 Su	0648	2.0 60		
	0936	17.7 540		0903	16.4 500		1015	16.7 510		0930	16.4 500		1151	14.1 430		
	1751	1.0 30		1706	1.3 40		1821	1.3 40		1736	1.0 30		1930	1.3 40		
	2218	14.8 450		2139	14.4 440		2303	14.4 440		2215	14.4 440		●	2348	14.8 450	
13 W	0542	1.3 40	28 Th	0457	2.0 60	13 F	0615	2.3 70	28 Sa	0533	2.0 60	13 M	0039	14.1 430		
	1039	16.4 500		0948	15.7 480		1118	15.4 470		1021	15.7 480		0751	2.3 70		
	1845	1.3 40		1748	1.6 50		1915	1.3 40		1827	1.0 30		1257	13.8 420		
	● 2324	14.1 430		2230	13.8 420		○			2312	14.1 430		2024	1.6 50		
14 Th	0636	2.3 70	29 F	0542	2.3 70	14 Sa	0012	14.1 430	29 Su	0630	2.0 60	14 Tu	0142	14.1 430		
	1148	15.4 470		1042	15.1 460		0721	2.6 80		1121	15.1 460		0903	2.0 60		
	1945	1.6 50		1839	1.6 50		1230	14.4 440		1924	1.0 30		1403	13.1 400		
				○ 2333	13.5 410		2015	1.6 50		○			2121	1.6 50		
15 F	0042	13.5 410	30 Sa	0639	2.6 80	15 Su	0124	14.1 430	30 M	0012	14.1 430	15 W	0239	14.1 430		
	0748	2.6 80		1145	14.8 450		0833	2.6 80		0739	2.0 60		1009	1.6 50		
	1300	14.4 440		1945	1.6 50		1342	14.1 430		1230	14.8 450		1509	13.1 400		
	2054	1.6 50					2118	1.6 50		2027	1.0 30		2218	1.6 50		
													31 Tu	0121	14.8 450	
													0857	1.3 40		
													1339	14.8 450		
													2130	1.0 30		

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

Quebec, Quebec, 2016

Times and Heights of High and Low Waters

July				August				September					
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height		
h m	ft	cm		h m	ft	cm		h m	ft	cm			
1 F 0300	16.4	500		16 Sa 0339	14.4	440		1 M 0445	17.1	520			
1103 0.7	20		Sa 1124	1.0	30	M 1251	0.3	10	Tu 1236	0.3	10		
1536 14.1	430		1618	12.5	380	1727	14.1	430	1718	13.5	410		
2303 0.7	20		2315	1.6	50								
2 Sa 0357	17.4	530		17 Su 0424	15.1	460	2 Tu 0045	0.7	20	17 W 0027	0.7	20	
1206 0.3	10		1706	13.1	400	536	17.4	530	521	16.4	500		
1639 14.4	440					1339	0.3	10	1321	0.3	10		
						● 1812	14.8	450	1754	14.1	430		
3 Su 0003	0.7	20		18 M 0003	1.3	40	3 W 0136	0.3	10	18 Th 0115	0.3	10	
0451 17.7	540		0509	16.1	490	621	17.4	530	0600	17.1	520		
1303 0.3	10		1306	0.7	20	1424	0.3	10	1403	0.0	0		
1730 14.8	450		1745	13.8	420	1854	15.1	460	1833	14.8	450		
4 M 0057	0.7	20		19 Tu 0051	1.0	30	4 Th 0221	0.3	10	4 F 0200	0.3	10	
0542 18.4	560		0545	16.7	510	700	17.4	530	0636	17.4	530		
1354 0.3	10		1348	0.7	20	1503	0.3	10	1442	0.3	10		
● 1821 15.1	460		O 1821	14.1	430	1930	15.4	470	1906	15.7	480		
5 Tu 0148	0.3	10		20 W 0136	0.7	20	5 F 0303	0.3	10	20 Sa 0245	0.3	10	
0630 18.4	560		0624	17.1	520	739	17.4	530	0715	17.7	540		
1442 0.3	10		1427	0.3	10	1542	0.3	10	1521	0.0	0		
1906 15.4	470		1854	14.4	440	2009	15.4	470	1942	16.4	500		
6 W 0236	0.3	10		21 Th 0215	0.7	20	6 Sa 0342	0.7	20	21 M 0330	0.0	0	
0715 18.4	560		0657	17.4	530	0818	16.7	510	0757	17.4	530		
1524 0.3	10		1506	0.3	10	1618	0.3	10	1600	0.0	0		
1951 15.4	470		1930	14.8	450	2045	15.4	470	2021	16.7	510		
7 Th 0318	0.7	20		22 F 0300	0.3	10	7 Su 0421	0.7	20	22 M 0418	0.3	10	
0757 17.7	540		0736	17.4	530	0857	16.1	490	0842	17.1	520		
1606 0.3	10		1542	0.3	10	1648	0.3	10	1642	0.0	0		
2033 15.1	460		2006	15.1	460	2124	15.1	460	2109	16.7	510		
8 F 0400	0.7	20		23 Sa 0342	0.3	10	8 M 0500	0.7	20	23 Th 0503	0.3	10	
0842 17.4	530		0815	17.4	530	0939	14.8	450	0930	16.1	490		
1645 0.3	10		1621	0.3	10	1721	0.3	10	1724	0.0	0		
2118 15.1	460		2048	15.7	480	2203	14.4	440	2200	16.4	500		
9 Sa 0445	1.0	30		24 Su 0430	0.7	20	9 Tu 0536	1.0	30	9 W 0554	0.3	10	
0927 16.4	500		0900	17.1	520	1021	13.8	420	1027	14.8	450		
1724 0.7	20		1706	0.3	10	1754	0.7	20	1724	1.3	40		
2200 14.8	450		2133	15.7	480	2251	14.1	430	2248	13.8	420		
10 Su 0527	1.0	30		25 M 0518	0.7	20	10 W 0618	1.3	40	10 Th 0539	1.3	40	
1012 15.1	460		0948	16.1	490	1112	12.8	390	0654	13.1	370		
1803 0.7	20		1748	0.3	10	1827	1.3	40	1118	12.1	370		
2251 14.1	430		2224	15.7	480	O 2345	13.8	420	1818	2.3	70		
11 M 0612	1.6	50		26 Tu 0609	0.7	20	11 Th 0709	2.0	60	11 Sa 0048	13.5	410	
1103 14.1	430		1045	15.1	460	1209	11.8	360	0800	0.7	20		
1842 1.0	30		1833	0.3	10	1909	2.0	60	1248	13.1	400		
● 2342 13.8	420		O 2321	15.4	470	2000	1.0	30	2000	1.0	30		
12 Tu 0706	2.0	60		27 W 0712	0.7	20	12 F 0045	13.5	410	12 M 0200	13.8	420	
1200 13.1	400		1148	14.1	430	0815	2.0	60	0915	0.7	20		
1924 1.6	50		1927	0.3	10	1318	11.5	350	1406	12.8	390		
						2003	2.3	70	2112	1.3	40		
13 W 0042	13.8	420		28 Th 0027	15.4	470	13 Sa 0148	13.5	410	13 Tu 0230	15.1	460	
0806 2.0	60		0818	0.7	20	0930	2.0	60	0800	0.7	20		
1309 12.1	370		1300	13.8	420	1433	11.5	350	1248	13.1	400		
2015 2.0	60		2030	0.7	20	2121	2.3	70	2230	1.0	30		
14 Th 0145	13.8	420		29 F 0133	15.7	480	14 Tu 0251	13.8	420	14 M 0339	15.7	480	
0918 2.0	60		0933	0.7	20	1039	1.3	40	0915	0.7	20		
1415 11.8	360		1418	13.5	410	1539	11.8	360	1462	13.8	420		
2115 2.0	60		2136	0.7	20	2230	2.0	60	2336	0.7	20		
15 F 0242	13.8	420		30 Sa 0242	16.1	490	15 M 0348	14.4	440	30 Tu 0439	16.4	500	
1021 1.6	50		1045	0.3	10	1142	1.0	30	1233	0.3	10		
1524 12.1	370		1530	13.5	410	1636	12.8	390	1715	14.4	440		
2215 1.6	50		2242	0.7	20	2333	1.3	40					
				31 Su 0348	16.4	500				15 Th 0003	0.7	20	
				1151	0.3	10				0451	16.4	500	
				1633	13.8	420				1248	0.7	20	
				2348	0.7	20				1721	14.8	450	
											● 1815	16.1	490

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

Quebec, Quebec, 2016

Times and Heights of High and Low Waters

October			November			December		
Time	Height		Time	Height		Time	Height	
h m 0151 0630 1409 1845	ft 0.7 16.1 0.7 16.4	cm 20 490 20 500	h m 16 0127 0548 1345 1806	ft 0.0 17.1 0.3 18.0	cm 0 520 10 550	h m 1 0239 0709 1436 1918	ft 0.3 14.8 0.7 16.4	cm 10 450 20 500
Sa 0630 1409 1845	0.7 16.1 16.4	500	Su 16 0127 0548 1345 1806	0.0 17.1 0.3 18.0	520	Tu 1 0239 0709 1436 1918	0.3 14.8 0.7 16.4	10 450 20 500
2 Su 0700 1439 1912	0.7 16.1 0.7 16.4	500	M 17 0215 0630 1427 1848	0.0 17.1 0.3 18.7	0 520 10 570	W 2 0309 0739 1503 1945	0.7 14.4 0.7 16.4	20 440 20 500
3 M 0727 1506 1942	0.7 15.7 0.7 16.4	500	Tu 18 0303 0718 1509 1933	0.0 17.1 0.3 18.7	0 520 10 570	Th 3 0342 0812 1533 2018	0.7 14.1 0.7 16.1	20 430 20 490
4 Tu 0800 1533 2012	0.7 15.1 0.7 16.1	460	W 19 0348 0803 1551 2018	0.3 16.4 0.3 18.4	10 500 30 560	F 4 0415 0848 1603 2054	0.7 13.8 1.0 15.7	20 420 30 480
5 W 0833 1603 2045	0.7 14.4 0.7 15.7	440	Th 20 0436 0854 1633 2112	0.3 15.7 0.7 17.4	10 480 20 530	Sa 5 0448 0927 1639 2133	0.7 13.5 1.3 15.1	20 410 20 460
6 Th 0909 1630 2121	0.7 13.8 1.0	420	F 21 0524 0954 1721 2212	0.3 14.4 0.7 16.7	10 440 20 510	Su 6 0527 1018 1718 2224	1.0 12.8 1.6 14.4	30 390 30 440
7 F 0954 1703 2206	1.0 13.5 1.6	410	Tu 7 0618 1100 1812 O 2321	0.7 13.8 1.3 15.4	20 420 30 470	W 7 0615 1115 1809 O 2324	1.3 12.5 2.3 13.8	40 380 70 420
8 Sa 1042 1739 O 2257	1.6 12.5 2.0	50	Th 8 0718 1218 1918	1.0 13.5 2.0	30 410 60	Su 8 0715 1221 1921	1.3 12.5 2.3	40 380 70
9 Su 1145 1830	2.0 11.8 2.6	60	F 9 0036 0827 1336 2039	14.8 1.0 13.5 2.0	450 30 410 60	M 9 0033 0824 1333 2042	13.8 1.3 13.1 1.6	40 40 40 50
10 M 0748 1257 1942	2.0 11.8 2.6	420	Tu 10 0154 0936 1448 2154	14.1 1.0 13.8 1.6	430 30 420 30	W 10 0145 0933 1433 2203	14.1 0.7 13.8 1.0	430 40 40 30
11 Tu 0903 1412 2112	1.6 12.5 2.0	420	Th 11 0251 1039 1527 2312	14.4 0.3 15.1 0.3	440 30 460 10	Su 11 0247 1142 1645 2354	13.8 1.0 15.1 0.0	430 30 460 0
12 W 1015 1515 2230	1.0 13.5 1.3	430	W 12 0406 1136 1636 2303	14.8 0.7 15.1 1.0	450 20 500 30	Th 12 0024 0509 1224 1724	0.7 13.8 0.7 15.7	20 420 20 480
13 Th 1118 1606 2336	0.7 14.4 0.7	460	Th 13 0000 0457 1221 1718	0.7 14.8 0.7 15.7	20 450 20 480	Su 13 0015 0442 1227 1700	0.0 16.1 0.3 17.7	0 490 10 540
14 F 1212 1648	1.6 15.7	490	Sa 14 0048 0536 1300 O 1751	0.7 15.1 0.7 16.1	20 460 20 500	W 14 0109 0530 1315 O 1742	0.0 16.4 0.3 18.4	0 500 10 560
15 Sa 1300 O 1727	0.3 16.7	510	Su 15 0130 0609 1333 ● 1821	0.7 15.1 0.7 16.4	20 460 20 500	W 15 0200 0615 1400 1827	0.0 16.4 0.3 19.0	0 500 10 580
			M 31 0206 0642 1403 1848	0.7 15.1 0.7 16.4	20 460 20 500			

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

Halifax, Nova Scotia, 2016

Times and Heights of High and Low Waters

January				February				March			
Time	Height	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 F 0032	5.6	170	16 Sa 0016	5.9	180	1 M 0120	5.2	160	16 Tu 0144	5.6	170
0735	2.3	70	0722	1.3	40	0816	2.0	60	0725	2.0	60
1247	4.9	150	1234	5.6	170	1346	4.6	140	1259	4.9	150
1926	2.0	60	● 1937	1.0	30	2012	2.3	70	● 1932	2.3	70
2 Sa 0121	5.6	170	17 Su 0108	5.9	180	2 Tu 0211	5.2	160	2 W 0251	5.2	160
0824	2.3	70	0823	1.0	30	0907	2.0	60	0820	2.0	60
1340	4.9	150	1334	5.2	160	1450	4.6	140	1356	4.6	140
● 2013	2.0	60	2037	1.0	30	2110	2.3	70	2033	2.3	70
3 Su 0214	5.2	160	18 M 0207	5.6	170	3 W 0310	5.2	160	3 Th 0405	5.6	170
0913	2.0	60	0923	1.0	30	0959	1.6	50	0917	1.6	50
1441	4.6	140	1443	4.9	150	1601	4.6	140	1508	4.6	140
2103	2.0	60	2138	1.3	40	2206	2.3	70	2132	2.3	70
4 M 0310	5.2	160	19 Tu 0312	5.6	170	4 Th 0409	5.2	160	4 F 0512	5.6	170
1000	2.0	60	1023	1.0	30	1053	1.3	40	1203	1.0	30
1547	4.6	140	1559	4.9	150	1703	4.9	150	1759	5.2	160
2155	2.0	60	2240	1.3	40	2301	2.0	60	1622	4.9	150
5 Tu 0405	5.2	160	20 W 0420	5.6	170	5 F 0504	5.6	170	5 Sa 0026	1.3	40
1047	1.6	50	1123	0.7	20	1145	1.0	30	0607	5.9	180
1648	4.6	140	1710	5.2	160	1755	4.9	150	1255	0.7	20
2248	2.0	60	2341	1.3	40	2354	2.0	60	1847	5.6	170
6 W 0454	5.2	160	21 Th 0522	5.9	180	6 Sa 0554	5.9	180	6 Su 0116	1.3	40
1134	1.3	40	1219	0.7	20	1235	0.7	20	0655	5.9	180
1740	4.9	150	1810	5.6	170	1841	5.2	160	1341	0.7	20
2338	2.0	60							1930	5.9	180
7 Th 0540	5.6	170	22 F 0039	1.3	40	7 Su 0044	1.6	50	22 M 0201	1.3	40
1219	1.0	30	0618	5.9	180	0642	6.2	190	0738	5.9	180
1827	5.2	160	1312	0.7	20	1322	0.3	10	1422	0.7	20
			1902	5.6	170	1924	5.6	170	● 2011	5.9	180
8 F 0025	2.0	60	23 Sa 0132	1.3	40	8 M 0133	1.3	40	23 Tu 0241	1.3	40
0623	5.9	180	0708	6.2	190	0728	6.2	190	0820	5.9	180
1304	0.7	20	1400	0.7	20	1408	0.3	10	1459	1.0	30
1910	5.2	160	● 1950	5.9	180	● 2008	5.9	180	2049	5.9	180
9 Sa 0111	1.6	50	24 Su 0220	1.3	40	9 Tu 0222	1.0	30	24 W 0317	1.3	40
0706	5.9	180	0755	6.2	190	0814	6.6	200	0900	5.9	180
1349	0.3	10	1445	0.7	20	1453	0.0	0	1531	1.0	30
● 1952	5.6	170	2035	5.9	180	2052	6.2	190	2126	5.9	180
10 Su 0156	1.3	40	25 M 0305	1.6	50	10 W 0313	0.7	20	25 Th 0350	1.6	50
0750	6.2	190	0840	6.2	190	0901	6.2	190	0939	5.9	180
1433	0.3	10	1526	0.7	20	1540	0.0	0	1559	1.3	40
2033	5.6	170	2116	5.9	180	2137	6.2	190	2201	5.9	180
11 M 0242	1.3	40	26 Tu 0347	1.6	50	11 Th 0407	0.7	20	26 F 0424	1.6	50
0834	6.2	190	0923	6.2	190	0949	6.2	190	1017	5.6	170
1517	0.3	10	1603	1.0	30	1629	0.0	0	1626	1.6	50
2116	5.9	180	2156	5.9	180	2222	6.2	190	2237	5.9	180
12 Tu 0331	1.3	40	27 W 0428	1.6	50	12 F 0504	0.7	20	27 Sa 0501	1.6	50
0918	6.2	190	1005	5.9	180	1037	5.9	180	1054	5.2	160
1603	0.3	10	1638	1.3	40	1723	0.3	10	1658	1.6	50
2159	5.9	180	2235	5.9	180	2308	6.2	190	2312	5.6	170
13 W 0424	1.3	40	28 Th 0508	2.0	60	13 Sa 0604	0.7	20	28 M 0543	2.0	60
1004	6.2	190	1045	5.6	170	1127	5.9	180	1132	5.2	160
1651	0.3	10	1711	1.3	40	1821	0.7	20	1739	2.0	60
2243	5.9	180	2313	5.9	180	2355	5.9	180	2350	5.6	170
14 Th 0522	1.3	40	29 F 0551	2.0	60	14 Su 0705	1.0	30	29 M 0631	2.0	60
1051	5.9	180	1126	5.2	160	1219	5.6	170	1213	4.9	150
1743	0.7	20	1747	1.6	50	1923	1.0	30	1831	2.3	70
2328	5.9	180	2352	5.6	170						
15 F 0622	1.3	40	30 Sa 0637	2.0	60	15 M 0046	5.9	180	15 Tu 0025	5.6	170
1141	5.9	180	1208	5.2	160	0807	1.0	30	0749	0.7	20
1839	0.7	20	1828	2.0	60	● 2026	1.3	40	1301	5.2	160
			31 Su 0034	5.6	170				31 W 0726	2.0	60
			0726	2.0	60				1224	4.9	150
			1253	4.9	150				1902	2.3	70
			● 1918	2.0	60				31 O 0204	2.6	80

Time meridian 60° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to the Canadian chart datum of soundings.

Halifax, Nova Scotia, 2016

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 <i>F</i>	0128	5.2	160	16	0325	4.9	150	1	0159	5.2	160	16	0358	5.2	160	
	0840	1.6	50	<i>Sa</i>	1020	1.3	40	<i>Su</i>	0904	1.3	40	<i>M</i>	1035	1.6	50	
	1423	4.9	150		1618	5.2	160		1457	5.2	160		1632	5.6	170	
	2104	2.3	70		2256	1.6	50		2139	2.0	60		2318	1.6	50	
2 <i>Sa</i>	0234	5.2	160	17	0435	5.2	160	2	0313	5.2	160	17	0457	4.9	150	
	0937	1.6	50	<i>Su</i>	1113	1.3	40	<i>M</i>	0959	1.3	40	<i>Tu</i>	1125	1.6	50	
	1538	4.9	150		1712	5.6	170		1603	5.6	170		1719	5.6	170	
	2202	2.0	60		2347	1.6	50		2238	1.3	40					
3 <i>Su</i>	0348	5.6	170	18	0529	5.2	160	3	0424	5.6	170	18	0003	1.3	40	
	1032	1.3	40	<i>M</i>	1202	1.3	40	<i>Tu</i>	1054	1.0	30	<i>W</i>	0546	5.2	160	
	1642	5.2	160		1755	5.6	170		1659	5.9	180		1210	1.6	50	
	2259	1.6	50						2336	1.0	30		1759	5.6	170	
4 <i>M</i>	0453	5.6	170	19	0033	1.3	40	4	0526	5.9	180	19	0042	1.3	40	
	1126	1.0	30	<i>Tu</i>	0614	5.2	160	<i>W</i>	1149	0.7	20	<i>Th</i>	0630	5.2	160	
	1734	5.9	180		1247	1.3	40		1752	6.6	200		1249	1.6	50	
	2356	1.0	30		1834	5.6	170					1837	5.6	170		
5 <i>Tu</i>	0550	5.9	180	20	0113	1.3	40	5	0032	0.3	10	20	0117	1.0	30	
	1218	0.7	20	<i>W</i>	0655	5.6	170	<i>Th</i>	0623	5.9	180	<i>F</i>	0711	5.2	160	
	1823	6.2	190		1325	1.3	40		1244	0.7	20		1324	1.6	50	
					1910	5.6	170		1842	6.6	200		1912	5.6	170	
6 <i>W</i>	0051	0.7	20	21	0147	1.0	30	6	0128	0.0	0	21	0150	1.0	30	
	0643	6.2	190	<i>Th</i>	0735	5.6	170	<i>F</i>	0716	6.2	190	<i>Sa</i>	0750	5.2	160	
	1309	0.3	10		1357	1.3	40		1339	0.3	10		1356	1.6	50	
	1910	6.6	200		1945	5.9	180					<i>O</i>	1947	5.6	170	
7 <i>Th</i>	0145	0.3	10	22	0218	1.0	30	7	0222	-0.3	-10	22	0223	0.7	20	
	0734	6.2	190	<i>F</i>	0813	5.6	170	<i>Sa</i>	0809	6.2	190	<i>Su</i>	0828	5.6	170	
	1400	0.0	0		1426	1.6	50		1435	0.3	10		1429	1.6	50	
	● 1958	6.9	210	<i>O</i>	2019	5.9	180		2023	6.9	210		2023	5.9	180	
8 <i>F</i>	0238	0.0	0	23	0249	1.0	30	8	0316	-0.3	-10	23	0258	0.7	20	
	0825	6.2	190	<i>Sa</i>	0850	5.6	170	<i>Su</i>	0901	6.2	190	<i>M</i>	0905	5.6	170	
	1452	0.0	0		1453	1.6	50		1532	0.7	20		1503	2.0	60	
	2046	6.9	210		2053	5.9	180		2113	6.6	200		2059	5.9	180	
9 <i>Sa</i>	0333	0.0	0	24	0320	1.0	30	9	0410	0.0	0	24	0336	1.0	30	
	0916	6.2	190	<i>Su</i>	0926	5.6	170	<i>M</i>	0953	6.2	190	<i>Tu</i>	0942	5.6	170	
	1547	0.3	10		1523	1.6	50		1632	1.0	30		1543	2.0	60	
	2135	6.6	200		2127	5.9	180		2203	6.6	200		2137	5.9	180	
10 <i>Su</i>	0429	0.0	0	25	0355	1.0	30	10	0506	0.3	10	10	0417	1.0	30	
	1007	5.9	180	<i>M</i>	1002	5.6	170	<i>Tu</i>	1044	5.9	180	<i>W</i>	1019	5.6	170	
	1647	0.7	20		1558	2.0	60		1735	1.3	40		1629	2.0	60	
	2224	6.6	200		2202	5.6	170		2253	5.9	180		2216	5.9	180	
11 <i>M</i>	0527	0.3	10	26	0436	1.3	40	11	0603	0.7	20	11	0012	5.2	160	
	1058	5.9	180	<i>Tu</i>	1039	5.2	160	<i>W</i>	1134	5.6	170	<i>Th</i>	1058	5.6	170	
	1751	1.0	30		1643	2.3	70		1838	1.6	50		1723	2.3	70	
	2313	6.2	190		2239	5.6	170		2344	5.6	170		2258	5.6	170	
12 <i>Tu</i>	0627	0.7	20	27	0522	1.3	40	12	0700	1.0	30	12	0105	4.9	150	
	1150	5.6	170	<i>W</i>	1117	5.2	160	<i>Th</i>	1227	5.6	170	<i>F</i>	1141	5.6	170	
	1856	1.3	40		1738	2.3	70		1939	2.0	60		1822	2.3	70	
					2319	5.6	170					2343	5.6	170		
13 <i>W</i>	0004	5.6	170	28	0615	1.6	50	13	0038	5.2	160	13	0647	1.3	40	
	0727	1.0	30	<i>Th</i>	1159	5.2	160	<i>F</i>	0756	1.3	40	<i>Sa</i>	1228	5.6	170	
	1246	5.2	160		1840	2.3	70		1324	5.2	160		1922	2.3	70	
	● 1959	1.6	50						<i>O</i>	2038	2.0	60				
14 <i>Th</i>	0101	5.2	160	29	0003	5.6	170	14	0139	4.9	150	14	0034	5.6	170	
	0826	1.0	30	<i>F</i>	0711	1.6	50	<i>Sa</i>	0851	1.6	50	<i>Tu</i>	0741	1.3	40	
	1350	5.2	160		1249	5.2	160		1429	5.2	160		1322	5.6	170	
	2101	1.6	50		<i>O</i>	1942	2.3	70		2134	2.0	60		<i>O</i>	2021	2.0	60
15 <i>F</i>	0207	5.2	160	30	0056	5.2	160	15	0249	4.9	150	15	0134	5.2	160	
	0924	1.3	40	<i>Sa</i>	0808	1.6	50	<i>Su</i>	0944	1.6	50	<i>M</i>	0836	1.3	40	
	1507	4.9	150		1349	5.2	160		1536	5.2	160		1422	5.6	170	
	2200	1.6	50		2041	2.3	70		2228	1.6	50		2120	1.6	50	

Halifax, Nova Scotia, 2016

Times and Heights of High and Low Waters

July				August				September									
Time	Height	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 F 1114 1703	0446 1.3 6.2	5.2 40 190	16 Sa 1129 1728	0527 5.2	4.9 160	1 M 0636 1304 1845	0044 1.3 6.2	0.7 40 190	16 Tu 0628 1228 1828	0017 1.6 5.9	1.0 40 180	1 Th 0752 1425 2003	0203 1.3 6.2	0.7 40 190	16 F 1339 O 1932	0115 0.7 6.2	0.3 20 190
2 Sa 1216 1801	0001 5.6 1.0 6.2	10 170 30 190	17 Su 0615 1215 1812	0007 2.0 5.6	1.3 60 170	2 Tu 0727 1357 ● 1935	0136 1.3 6.2	0.3 40 190	17 W 0710 1314 1912	0104 1.3 6.2	0.7 40 190	2 F 1505 2044	0244 5.9	0.7 180	17 Sa 1429 2019	0201 6.2	0.0 190
3 Su 1314 1856	0058 0647 1.0 6.6	10 180 30 200	18 M 0658 1258 1854	0051 2.0 5.9	1.0 60 180	3 W 0814 1446 2022	0224 1.3 6.2	0.3 40 190	18 Th 0750 1401 ○ 1956	0148 1.0 6.2	0.3 30 190	3 Sa 0909 1541 2125	0319 1.3 5.9	1.0 40 180	18 Su 1520 2107	0247 6.2	0.0 190
4 M 1410 ● 1948	0151 5.9 1.0 6.6	0 180 30 200	19 Tu 0739 1340 ○ 1936	0133 1.6 5.9	0.7 160 180	4 Th 0858 1531 2106	0308 1.3 6.2	0.7 190	19 F 0832 1448 2040	0231 1.0 6.2	0.3 190	4 Su 0946 1617 2204	0351 1.3 5.6	1.3 40 170	19 M 1614 2155	0336 6.2	0.0 190
5 Tu 1504 2038	0242 0832 1.3 6.6	0 190 40 200	20 W 0819 1423 2018	0215 1.3	0.7 170	5 F 0939 1615 2149	0350 1.6 5.9	0.7 190	20 Sa 0913 1538 2125	0314 0.7 6.2	0.0 190	5 M 1022 1653 2242	0420 1.6 5.6	1.3 40 170	20 Tu 1017 1712 2245	0430 6.6 5.9	0.3 10 180
6 W 1556 2126	0331 0920 1.3 6.2	10 190 40 190	21 Th 0859 1508 2059	0257 1.3	0.3 170	6 Sa 1019 1658 2231	0428 1.6 5.9	1.0 180	21 Su 0956 1631 2211	0359 0.7 6.2	0.0 190	6 Tu 1059 1733 2321	0450 1.6 5.2	1.6 160	21 W 1105 1812 2336	0530 6.2 5.6	0.7 190 170
7 Th 1647 2212	0418 1006 1.6 6.2	20 190 50 190	22 F 0939 1556 2143	0340 1.3	0.3 180	7 Su 1058 1741 2312	0504 1.6 5.6	1.3 180	22 M 1040 1728 2259	0450 0.7 5.9	0.3 180	7 W 1137 1818 1909	0528 2.0 2.0	2.0 60	22 Th 1155 1914	0635 0.7	1.0 20
8 F 1738 2257	0503 1049 1.6 5.9	30 180 50 180	23 Sa 1020 1649 2227	0424 1.3	0.3 180	8 M 1137 1827 2354	0540 2.0 5.2	1.6 180	23 Tu 1126 1829 2349	0545 0.7 5.6	0.7 180	8 Th 0617 1217 1909	0002 2.3 5.6	4.9 150	23 F 0741 1250 ● 2016	0031 5.6	5.2 170 10.0
9 Sa 1830 2343	0548 1131 2.0 5.9	40 180 60 170	24 Su 1103 1746 2313	0512 1.3	0.7 180	9 Tu 1219 1915	0620 2.0	2.0 60	24 W 1214 1930 ○ 2003	0646 1.0 60	1.0 30	9 F 0716 1302 2.0	0047 2.3 60	4.9 150	24 Sa 0846 1353 2118	0133 5.2	4.9 160
10 Su 1921	0632 1215 5.6	50 170 60	25 M 1147 1845	0604 1.3	0.7 180	10 W 0707 1304 ● 2004	0039 1.3	4.9 160	25 Th 0750 1308 2032	0043 1.3 6.0	5.2 170	10 Sa 0817 1357 2058	0141 2.6 2.0	4.9 150	25 Su 0948 1510 2217	0250 5.2 1.0	4.9 150 30
11 M 1302 ● 2012	0030 0718 1.6	160 50 190	26 Tu 0700 1235 ● 1946	0003 5.9	5.6 180	11 Th 0801 1355 2055	0130 1.3	4.6 160	26 F 0854 1411 2134	0145 1.3 6.0	4.9 170	11 Su 0916 1502 2153	0250 2.3 1.6	4.6 140	26 M 1048 1628 2314	0413 5.2 1.0	5.2 160 30
12 Tu 1354	0121 0805 2.0	450 160 60	27 W 0759 1329 2047	0058 5.6	5.2 170	12 F 0858 1453 2146	0231 4.9	4.6 150	27 Sa 0957 1525 2235	0301 5.6 1.0	4.9 170	12 M 1013 1610 2248	0405 5.2 1.3	4.9 150	27 Tu 1145 1728 2248	0516 5.6 40	5.2 160
13 W 1450	0220 0854 2.0	140 160 60	28 Th 0901 1431 2148	0201 5.6	5.2 170	13 Sa 0954 1555 2237	0343 5.2	4.6 150	28 Su 1059 1639 2334	0424 5.6 1.0	4.9 170	13 Tu 1107 1708 2340	0505 5.6 1.0	4.9 150	28 W 0604 1236 1817	0008 1.3 5.6	1.0 170
14 Th 1548	0326 0946 1.6	140 160 50	29 F 1004 1540 2249	0315 5.6	4.9 170	14 Su 1049 1652 2328	0449 5.2	4.9 150	29 M 1158 1741 2328	0531 5.9	5.2 180	14 W 1158 1758 1846	0553 5.9	5.2 160	29 Th 1322 1901 ● 1942	0056 1.3 5.9	1.0 180
15 F 1641	0431 1039 2.0	140 160 60	30 Sa 1106 1648 2348	0432 5.9	5.2 180	15 M 1140 1742 ● 2004	0543 5.6	4.9 150	30 Tu 0624 1252 1833	0029 5.6 1.0	0.7 180	15 Th 0636 1249 1846	0029 5.6 5.9	0.7 180	30 F 0724 1402 ● 1942	0139 1.0 5.9	30
			31 Su 1207 1750	0539 5.9	5.2 180				31 W 0709 1341 1919	0119 1.3 5.9	0.7 40 180						

Time meridian 60° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to the Canadian chart datum of soundings.

Halifax, Nova Scotia, 2016

Times and Heights of High and Low Waters

October				November				December			
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height
1 Sa	0216 1.0 30	16 Su	0132 0.3 10	1 Tu	0247 1.6 50	16 W	0301 0.7 20	1 Th	0253 2.0 60	16 F	0348 1.0 30
0801 5.9 180	0731 6.6 200	0840 5.9 180	0847 6.9 210	0840 5.9 180	0848 5.9 180	0922 6.6 200	0922 6.6 200	0922 6.6 200	0922 6.6 200	1012 6.2 190	
1437 1.0 30	1410 0.0 0	1512 1.0 30	1541 -0.3 -10	1512 1.0 30	1541 -0.3 -10	1601 1.0 30	1618 0.0 0	1523 1.0 30	1618 0.0 0	1712 0.3 10	
2022 5.9 180	1959 6.2 190	2116 5.6 170	2128 6.2 190	2116 5.6 170	2128 6.2 190	2131 5.6 170	2205 6.2 190	2131 5.6 170	2205 6.2 190	2254 6.2 190	
2 Su	0249 1.3 40	17 M	0222 0.3 10	2 W	0315 2.0 60	17 Th	0401 1.0 30	2 F	0329 2.0 60	17 Sa	0447 1.3 40
0837 5.9 180	0819 6.9 210	1503 -0.3 -10	0915 5.9 180	1544 1.0 30	0938 6.6 200	1638 0.0 0	0925 5.9 180	1601 1.0 30	1712 0.3 10	1712 0.3 10	
1510 1.0 30	2050 6.2 190	2152 5.6 170	2220 6.2 190	2220 6.2 190	2207 5.6 170	2207 5.6 170	2207 5.6 170	2207 5.6 170	2207 5.6 170	2254 6.2 190	
2101 5.6 170											
3 M	0317 1.3 40	18 Tu	0316 0.3 10	3 Th	0347 2.0 60	18 F	0504 1.3 40	3 Sa	0411 2.3 70	18 Su	0547 1.6 50
0912 5.9 180	0907 6.9 210	1558 0.0 0	0950 5.6 170	1621 1.3 40	1029 6.2 190	1735 0.3 10	1003 5.9 180	1643 1.3 40	1102 5.9 180	1806 0.7 20	
1541 1.3 40	2141 6.2 190	2228 5.6 170	2312 5.9 180	2312 5.9 180	2245 5.6 170	2342 5.9 180	2245 5.6 170	2342 5.9 180	2342 5.9 180		
2139 5.6 170											
4 Tu	0343 1.6 50	19 W	0414 0.7 20	4 F	0427 2.3 70	19 Sa	0609 1.3 40	4 Su	0459 2.3 70	19 M	0646 1.6 50
0947 5.9 180	0956 6.6 200	1655 0.0 0	1027 5.6 170	1703 1.3 40	1120 5.9 180	1834 0.7 20	1042 5.6 170	1729 1.3 40	1152 5.6 170	1859 1.0 30	
1613 1.3 40	2232 5.9 180	2306 5.2 160	2306 5.2 160	2306 5.2 160	2306 5.2 160	2306 5.2 160	2306 5.2 160	2306 5.2 160	2306 5.2 160		
2216 5.6 170											
5 W	0412 2.0 60	20 Th	0517 1.0 30	5 Sa	0518 2.3 70	20 Su	0004 5.6 170	5 M	0555 2.3 70	20 Tu	0031 5.6 170
1022 5.6 170	1046 6.2 190	1755 0.3 10	1105 5.6 170	1752 1.6 50	0712 1.6 50	1214 5.6 170	1819 1.3 40	1124 5.6 170	0743 1.6 50	1244 5.2 160	
1650 1.6 50	2325 5.6 170	2346 5.2 160	1931 1.0 30	1931 1.0 30	1931 1.0 30	1931 1.0 30	1931 1.0 30	1931 1.0 30	1951 1.3 40		
2252 5.2 160											
6 Th	0450 2.0 60	21 F	0624 1.3 40	6 Su	0618 2.6 80	21 M	0059 5.6 170	6 Tu	0008 5.6 170	21 W	0123 5.6 170
1058 5.6 170	1137 5.9 180	1856 0.7 20	1147 5.2 160	1846 1.6 50	0813 1.6 50	1312 5.2 160	1312 5.2 160	1211 5.6 170	0653 2.3 70	1341 4.9 150	
1733 1.6 50	2331 5.2 160	2027 1.3 40	2027 1.3 40	2027 1.3 40	2027 1.3 40	2027 1.3 40	2027 1.3 40	1911 1.3 40	2042 1.6 50		
2331 5.2 160											
7 F	0541 2.3 70	22 Sa	0019 5.6 170	7 M	0032 5.2 160	22 Tu	0201 5.2 160	7 W	0056 5.6 170	22 Th	0220 5.2 160
1136 5.6 170	0730 1.6 50	1232 5.6 170	0719 2.6 80	1235 5.2 160	0911 1.6 50	1419 4.9 150	1419 4.9 150	1305 5.2 160	0751 2.0 60	1446 4.6 140	
1824 2.0 60	1957 1.0 30	1941 1.6 50	1941 1.6 50	2122 1.3 40	2122 1.3 40	2122 1.3 40	2122 1.3 40	205 1.3 40	205 1.3 40	2134 1.6 50	
8 Sa	0012 5.2 160	23 Su	0120 5.2 160	8 Tu	0126 5.2 160	23 W	0308 5.2 160	8 Th	0151 5.6 170	23 F	0320 5.2 160
0643 2.6 80	0833 1.6 50	1335 5.2 160	0817 2.3 70	1332 5.2 160	1006 1.6 50	1531 4.9 150	1531 4.9 150	1408 5.2 160	0849 2.0 60	1553 4.6 140	
1219 5.2 160	2056 1.0 30	2036 1.6 50	2036 1.6 50	2215 1.6 50	2215 1.6 50	2059 1.3 40	2059 1.3 40	2225 2.0 60	2059 1.3 40		
1920 2.0 60											
9 Su	0102 4.9 150	24 M	0232 5.2 160	9 W	0229 5.2 160	24 Th	0408 5.6 170	9 F	0252 5.6 170	24 Sa	0416 5.2 160
0745 2.6 80	0934 1.6 50	1450 4.9 150	0914 2.0 60	1441 5.2 160	1058 1.6 50	1635 4.9 150	1635 4.9 150	1520 5.2 160	0947 1.3 40	1653 4.9 150	
1309 5.2 160	2153 1.3 40	2130 1.3 40	2130 1.3 40	2307 1.6 50	2307 1.6 50	2307 1.6 50	2307 1.6 50	2154 1.3 40	2154 1.3 40	2316 2.0 60	
2016 2.0 60											
10 M	0203 4.9 150	25 Tu	0348 5.2 160	10 Th	0334 5.6 170	25 F	0458 5.6 170	10 Sa	0353 5.9 180	25 Su	0505 5.2 160
0845 2.6 80	1031 1.6 50	1607 4.9 150	1010 1.6 50	1553 5.2 160	1146 1.3 40	1728 4.9 150	1728 4.9 150	1630 5.2 160	1045 1.0 30	1745 4.9 150	
1411 5.2 160	2248 1.3 40	2224 1.3 40	2224 1.3 40	2355 1.6 50	2355 1.6 50	2355 1.6 50	2355 1.6 50	2252 1.0 30	2252 1.0 30		
2113 1.6 50											
11 Tu	0316 4.9 150	26 W	0448 5.6 170	11 F	0432 5.9 180	26 Sa	0542 5.6 170	11 M	0452 6.2 190	26 M	0003 2.0 60
0942 2.3 70	1125 1.3 40	1707 5.2 160	1107 1.0 30	1658 5.6 170	1230 1.3 40	1814 5.2 160	1814 5.2 160	1733 5.6 170	1144 0.3 10	1235 1.0 30	
1523 5.2 160	2341 1.3 40	2318 1.0 30	2318 1.0 30	2318 1.0 30	2318 1.0 30	2318 1.0 30	2318 1.0 30	2352 1.0 30	1831 5.2 160		
2207 1.3 40											
12 W	0421 5.2 160	27 Th	0535 5.6 170	12 Sa	0524 6.2 190	27 Su	0039 1.6 50	12 M	0548 6.6 200	27 Tu	0044 2.0 60
1037 2.0 60	1215 1.3 40	1755 5.2 160	1203 0.7 20	1755 5.9 180	0621 5.6 170	1308 1.0 30	1857 5.2 160	1241 0.0 0	0630 5.6 170	1312 1.0 30	
1631 5.6 170	2389 5.6 170	1849 5.9 180	1849 5.9 180	1937 5.2 160	1937 5.2 160	1937 5.2 160	1937 5.2 160	1937 5.2 160	1914 5.2 160		
2300 1.0 30											
13 Th	0513 5.6 170	28 F	0029 1.3 40	13 Su	0013 0.7 20	28 M	0117 1.6 50	13 Tu	0052 1.0 30	28 W	0121 2.0 60
1131 1.3 40	0615 5.6 170	1258 1.0 30	0614 6.6 200	1258 0.0 0	0659 5.6 170	1342 1.0 30	1342 1.0 30	1337 0.0 0	0643 6.9 210	1348 1.0 30	
1728 5.6 170	1839 5.6 170	1849 5.9 180	1849 5.9 180	1937 5.2 160	1937 5.2 160	1937 5.2 160	1937 5.2 160	1937 5.2 160	1953 5.2 160		
2352 0.7 20											
14 F	0559 5.9 180	29 Sa	0111 1.3 40	14 M	0108 0.7 20	29 Tu	0151 1.6 50	14 W	0151 0.7 20	29 Th	0156 2.0 60
1225 1.0 30	0653 5.9 180	1336 1.0 30	0704 6.9 210	1353 -0.3 -10	1415 1.0 30	1415 1.0 30	1415 1.0 30	1431 -0.3 -10	0737 6.9 210	1425 0.7 20	
1819 5.9 180	1920 5.6 170	1920 6.2 190	1920 6.2 190	1920 6.2 190	1920 6.2 190	1920 6.2 190	1920 6.2 190	2021 6.2 190	1431 6.2 190	2032 5.6 170	
15 Sa	0042 0.7 20	30 Su	0148 1.3 40	15 Tu	0204 0.7 20	30 W	0222 2.0 60	15 Th	0249 1.0 30	30 F	0232 2.0 60
0645 6.2 190	0729 5.9 180	1410 1.0 30	0755 6.9 210	1447 -0.3 -10	0811 5.9 180	1448 1.0 30	1448 1.0 30	1525 0.0 0	0830 6.6 200	1503 0.7 20	
1318 0.3 10	1910 6.2 190	1910 5.6 170	2035 6.2 190	2035 6.2 190	2054 5.6 170	2054 5.6 170	2054 5.6 170	2114 6.2 190	2114 6.2 190	2109 5.6 170	
31 M	0219 1.6 50	31 M	0805 5.9 180								
1441 1.0 30	1441 1.0 30	1441 1.0 30	1441 1.0 30								
2038 5.6 170	2038 5.6 170	2038 5.6 170	2038 5.6 170								

Time meridian 60° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.

Heights are referred to the Canadian chart datum of soundings.

Saint John, New Brunswick, 2016

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 F	0434	23.6	720	16	0410	26.2	800	1	0528	23.0	700
	1048	5.9	180	Sa	1029	3.0	90	M	1145	6.6	200
	1656	23.3	710		1638	25.6	780		1755	22.0	670
	2313	5.6	170	●	2257	2.6	80				
2 Sa	0527	23.3	710	17	0508	25.9	790	2	0007	6.9	210
	1142	6.2	190	Su	1130	3.0	90	Tu	0621	22.6	690
	1751	22.6	690		1740	24.9	760		1240	6.6	200
	●				2358	3.3	100		1851	21.7	660
3 Su	0006	6.2	190	18	0610	25.6	780	3	0101	6.9	210
	0620	23.0	700	M	1234	3.3	100	W	0716	23.0	700
	1237	6.6	200		1845	24.6	750		1336	6.2	190
	1847	22.3	680						1947	22.0	670
4 M	0059	6.6	200	19	0101	3.6	110	4	0156	6.6	200
	0714	23.0	700	Tu	0714	25.6	780	Th	0810	23.3	710
	1332	6.2	190		1338	3.3	100		1430	5.6	170
	1942	22.0	670		1950	24.6	750		2040	22.3	680
5 Tu	0152	6.6	200	20	0204	3.6	110	5	0249	5.9	180
	0805	23.3	710	W	0817	25.9	790	F	0901	24.0	730
	1424	5.9	180		1441	3.0	90		1520	4.6	140
	2034	22.3	680		2053	24.6	750		2130	23.3	710
6 W	0242	6.2	190	21	0305	3.6	110	6	0338	4.9	150
	0854	23.6	720	Th	0917	26.2	800	Sa	0949	25.3	770
	1512	5.2	160		1539	2.6	80		1608	3.6	110
	2122	22.6	690		2151	24.9	760		2216	24.3	740
7 Th	0329	5.9	180	22	0401	3.6	110	7	0425	3.9	120
	0939	24.3	740	F	1012	26.2	800	Su	1035	26.2	800
	1557	4.3	130		1633	2.3	70		1653	2.3	70
	2207	23.3	710		2244	25.3	770		2300	25.3	770
8 F	0413	5.2	160	23	0454	3.3	100	8	0511	3.0	90
	1022	24.9	760	Sa	1102	26.6	810	M	1119	26.9	820
	1640	3.6	110		1723	2.3	70		1738	1.3	40
	2249	24.0	730	○	2332	25.3	770		●	2344	26.2	800
9 Sa	0456	4.6	140	24	0542	3.3	100	9	0556	2.0	60
	1104	25.9	790	Su	1149	26.6	810	Tu	1204	27.6	840
	1722	2.6	80		1809	2.3	70		1823	0.7	20
	●	2330	24.6								
10 Su	0538	3.6	110	25	0017	25.3	770	10	0029	26.9	820
	1145	26.6	810	M	0628	3.6	110	W	0643	1.3	40
	1804	2.0	60		1234	26.2	800		1250	27.9	850
	●				1853	2.6	80		1909	0.3	10
11 M	0011	25.3	770	26	0100	25.3	770	11	0115	27.6	840
	0621	3.3	100	Tu	0711	3.6	110	Th	0730	1.0	30
	1227	26.9	820		1317	25.9	790		1338	27.9	850
	1847	1.6	50		1935	3.0	90		1956	0.3	10
12 Tu	0053	25.9	790	27	0142	25.3	770	12	0204	27.6	840
	0705	2.6	80	W	0754	3.9	120	F	0820	1.0	30
	1311	27.2	830		1359	25.6	780		1428	27.6	840
	1931	1.3	40		2016	3.3	100		2046	1.0	30
13 W	0138	26.2	800	28	0224	24.9	760	13	0255	27.2	830
	0751	2.3	70	Th	0836	4.3	130	Sa	0913	1.3	40
	1357	27.2	830		1442	24.9	760		1522	26.6	810
	2017	1.3	40		2058	3.9	120		2140	1.6	50
14 Th	0225	26.2	800	29	0307	24.3	740	14	0350	26.6	810
	0840	2.3	70	F	0920	4.9	150	Su	1010	2.3	70
	1447	26.9	820		1526	24.0	730		1620	25.6	780
	2107	1.6	50		2141	4.9	150		2238	2.6	80
15 F	0315	26.2	800	30	0351	24.0	730	15	0449	25.9	790
	0932	2.6	80	Sa	1005	5.6	170	M	1112	3.0	90
	1540	26.2	800		1613	23.3	710		1723	24.6	750
	2159	2.0	60		2226	5.6	170	○	2340	3.6	110
31 Su	0438	23.3	710	31	0438	23.3	710				
	1053	6.2	190	Su	1053	6.2	190				
	1702	22.3	680		1702	22.3	680				
	●	2315	6.2		●	2315	6.2				

Time meridian 60° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to the Canadian chart datum of soundings.

Saint John, New Brunswick, 2016

Times and Heights of High and Low Waters

April						May						June					
Time		Height		Time		Height		Time		Height		Time		Height		Time	
1 F 0546 1209 1821	23.0	700	16 Sa 0115 0727 1347 2002	5.6	170	1 Su 0004 0614 1236 1848	5.9	180	16 M 0146 0756 1411 2025	5.6	170	1 W 0139 0749 1406 2017	3.0	90	16 Th 0254 0904 1513 2123	5.2	160
	5.9	180		24.0	730		24.0	140		23.3	710		25.3	770		23.0	700
	22.3	680		23.6	720		24.0	730		24.0	140		26.2	80		5.6	170
2 Sa 0035 0647 1309 1921	6.6	200	17 Su 0216 0827 1445 2058	5.2	160	2 M 0105 0715 1335 1946	4.9	150	17 Tu 0241 0850 1503 2114	4.9	150	2 Th 0239 0848 1503 2114	2.0	60	17 F 0341 0950 1557 2206	4.6	140
	23.3	710		24.0	730		24.6	140		23.6	720		25.9	790		23.3	710
	5.2	160		4.6	140		3.6	110		4.9	150		2.0	60		5.6	170
	23.0	700		24.0	730		24.9	760		24.3	740		27.6	840		24.3	740
3 Su 0135 0747 1407 2018	5.6	170	18 M 0311 0921 1536 2146	4.6	140	3 Tu 0204 0814 1432 2042	3.6	110	18 W 0330 0939 1550 2159	4.6	140	3 F 0336 0945 1559 2208	1.0	30	18 Sa 0423 1033 1638 2246	4.3	130
	24.3	740		24.3	740		25.6	780		23.6	720		26.6	810		23.3	710
	4.3	130		4.3	130		2.6	80		4.9	150		1.3	40		5.2	160
	24.3	740		24.3	740		26.2	800		24.6	750		28.2	860		24.9	760
4 M 0233 0843 1502 2111	4.3	130	19 Tu 0359 1009 1621 2230	4.3	130	4 W 0301 0910 1527 2136	2.0	60	19 Th 0415 1024 1632 2239	4.3	130	4 Sa 0431 1040 1653 2302	0.3	10	19 Su 0503 1112 1717 2323	3.9	120
	25.3	770		24.6	750		26.6	810		24.0	730		26.9	820		23.6	720
	3.0	90		3.9	120		1.3	40		4.6	140		1.3	40		4.9	150
	25.6	780		24.6	750		27.6	840		24.6	750		28.5	870		25.3	770
5 Tu 0327 0937 1554 2202	2.6	80	20 W 0443 1052 1702 2309	3.6	110	5 Th 0356 1005 1619 2228	0.7	20	20 F 0455 1104 1710 2317	3.6	110	5 Su 0524 1134 1746 2354	0.0	0	20 M 0540 1149 1754 2354	3.3	100
	26.6	810		24.6	750		27.2	830		24.0	730		26.9	820		24.0	730
	1.6	50		3.9	120		0.7	20		4.6	140		1.3	40		4.6	140
	26.9	820		24.9	760		28.5	870		24.9	760		28.5	870		O	
6 W 0419 1028 1644 2252	1.0	30	21 Th 0523 1131 1740 2345	3.6	110	6 F 0449 1058 1711 2320	-0.3	-10	21 Sa 0532 1141 1746 2352	3.6	110	6 M 0617 1227 1838 2532	0.0	0	21 Tu 0000 0618 1225 1832	25.6	780
	27.6	840		24.6	750		27.9	850		24.0	730		26.9	820		23.3	100
	0.3	10		3.9	120		0.3	10		4.6	140		1.6	50		24.3	740
	28.2	860		24.9	760		29.2	890		25.3	770		28.5	870		24.6	140
7 Th 0509 1118 1733 ● 2341	0.0	0	22 F 0559 1207 1815	3.3	100	7 Sa 0541 1150 1803	-0.7	-20	22 Su 0608 1216 1821	3.3	100	7 Tu 0046 0708 1319 1930	28.2	860	22 W 0038 0655 1302 1911	25.6	780
	28.2	860		24.6	750		27.9	850		24.0	730		26.2	800		24.6	750
	-0.3	-10		4.3	130		0.3	10		4.9	150		2.6	80		4.3	130
	28.9	880		O													
8 F 0559 1208 1823	-0.7	-20	23 Sa 0020 0634 1242	24.9	760	8 Su 0011 0633 1242	29.2	890	23 M 0026 0643 1251	25.3	770	8 W 0138 0759 1411	27.6	840	23 Th 0116 0735 1342	25.9	790
	28.2	860		3.3	100		-0.7	-20		3.3	100		1.6	50		3.0	90
	-0.3	-10		4.3	130		27.6	840		24.0	730		25.9	790		24.9	760
	28.2	860		4.6	140		1.0	30		4.9	150		3.3	100		4.3	130
9 Sa 0031 0650 1259 1914	29.2	890	24 Su 0053 0708 1316	24.9	760	9 M 0103 0725 1336	28.5	870	24 Tu 0102 0719 1326	25.3	770	9 Th 0230 0852 1504	26.6	810	24 F 0157 0817 1424	25.9	790
	-0.7	-20		3.6	110		0.0	0		3.6	110		2.3	70		3.0	90
	-20	850		24.0	730		0.0	0		4.6	140		25.3	770		24.9	760
	0.0	0		4.9	150		1.6	50		4.9	150		4.3	130		4.3	130
10 Su 0122 0743 1352 2007	28.9	880	25 M 0128 0743 1351	24.9	760	10 Tu 0156 0819 1431	27.9	850	25 W 0139 0757 1405	25.3	770	10 F 0323 0945 1558	25.6	780	25 Sa 0242 0902 1510	25.6	780
	-0.3	-10		3.9	120		1.0	30		3.6	110		24.6	750		3.0	90
	-10	830		24.0	730		25.9	790		24.0	730		24.6	750		24.9	760
	1.0	30		5.2	160		3.0	90		5.2	160		4.9	150		3.9	120
11 M 0215 0837 1448 2102	27.9	850	26 Tu 0204 0821 1428	24.6	750	11 W 0251 0914 1527	26.6	810	26 Th 0219 0839 1446	24.9	760	11 Sa 0419 1040 1654	24.6	750	26 Su 0331 0952 1600	25.6	780
	0.7	20		4.3	130		2.3	70		3.9	120		3.9	120		3.0	90
	26.2	800		23.6	720		24.9	760		24.0	730		24.0	730		25.3	770
	2.3	70		5.6	170		3.9	120		5.2	160		5.6	170		3.9	120
12 Tu 0311 0934 1547 2201	26.9	820	27 W 0243 0902 1510	24.3	740	12 Th 0349 1012 1626	25.6	780	27 F 0303 0925 1533	24.6	750	12 Sa 0517 1040 1654	23.6	720	27 M 0424 1045 1655	25.3	770
	2.0	60		4.6	140		3.3	100		3.9	120		4.9	150		3.3	100
	25.3	770		23.3	710		24.3	740		24.0	730		23.6	720		25.3	770
	3.6	110		5.9	180		4.9	150		5.2	160		5.6	170		3.9	120
13 W 0411 1035 1649 ● 2304	25.6	780	28 Th 0328 0948 1557	24.0	730	13 F 0450 1112 1728	24.6	750	28 Sa 0353 1015 1728	24.6	750	13 M 0008 0617 1624	5.9	180	28 Tu 0522 1142 1754	24.9	760
	3.3	100		4.9	150		4.3	130		4.3	130		4.3	130		3.3	100
	24.3	740		23.0	700		23.6	720		24.0	730		24.0	730		24.9	760
	4.6	140		6.2	190		5.6	170		5.2	160		5.6	170		5.6	170
14 Th 0515 1139 1755	24.6	750	29 F 0418 1040 1650	23.6	720	14 Sa 0553 1214 1830	24.0	730	29 W 0447 1109 1720	24.3	740	14 Tu 0107 0716 1331	5.9	180	29 M 0015 0624 1243	3.6	110
	4.3	130		5.2	160		4.9	150		3.9	120		2.0	60		24.9	760
	13.0			23.0	700		23.6	720		24.0	730		23.6	720		3.3	100
	23.6	720		6.2	190		5.6	170		4.9	150		4.9	150		25.9	790
15 F 0009 0622 1245 1901	5.2	160	30 Sa 0514 1137 1748	23.6	720	15 W 0045 0656 1314	5.6	170	30 M 0546 1207 1819	24.6	750	15 W<br					

Time meridian 60° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to the Canadian chart datum of soundings.

Saint John, New Brunswick, 2016

Times and Heights of High and Low Waters

July				August				September						
Time	Height	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	2.3	70		16 Sa 0301	5.6	170		1 M 0405	2.3	70				
0830 25.3	770		Sa 0912	22.6	690		1015 25.3	770		Tu 1004	23.6	720		
1444 2.6	80		1519 6.2	190			1627 3.3	100		1612 4.6	140			
2056 27.2	830		2129 24.0	730			2236 26.9	820		2222 25.3	770			
2 Sa 0319	1.6	50		17 Su 0347	4.9	150		2 Tu 0458	2.0	60		17 W 0439	3.3	100
0930 25.6	780		Su 0957	23.0	700		1107 25.6	780		16 0355	4.3	130		
1543 2.6	80		1604 5.6	170			1718 3.0	90		Th 1137	25.3	770		
2153 27.6	840		2213 24.6	750			● 2326 26.9	820		● 1749	3.3	100		
3 Su 0416	1.3	40		18 M 0430	3.9	120		18 0521	2.3	70		3 Sa 0037	25.9	790
1027 25.9	790		M 1039	23.6	720		1155 25.6	780		Sa 0652	3.0	90		
1638 2.3	70		1645 4.9	150			1806 3.0	90		1259 25.6	780			
2248 27.9	850		2254 25.3	770			○ 2346 26.9	820		1911 3.3	100			
4 M 0510	1.0	30		19 Tu 0511	3.3	100		4 Th 0013	26.9	820		4 Su 0118	25.6	780
1120 26.2	800		Tu 1119	24.3	740		0632 2.0	60		F 0604	1.3	40		
1731 2.3	70		1726 4.3	130			1240 25.6	780		19 0604	1.3	40		
● 2340 27.9	850		○ 2333 25.9	790			1852 3.0	90		4 Su 0118	25.6	780		
5 Tu 0602	1.0	30		20 W 0551	2.6	80		5 F 0058	26.6	810		5 M 0158	24.9	760
1211 26.2	800		W 1158	24.9	760		0716 2.3	70		Sa 0646	0.7	20		
1822 2.6	80		1806 3.6	110			1324 25.6	780		5 M 0158	24.9	760		
6 W 0030	27.6	840		21 Th 0013	26.2	800		1936 3.3	100		Sa 0810	3.9	120	
0651 1.3	40		Th 0631	2.3	70		6 Sa 0142	25.9	790		5 M 1417	24.9	760	
1300 25.9	790		1237 25.6	780			0759 3.0	90		2031 4.3	130			
1912 3.0	90		1847 3.3	100			1407 25.3	770		20 Tu 0757	0.7	20		
7 Th 0118	26.9	820		22 F 0053	26.6	810		2020 3.9	120		20 W 1405	27.9	850	
0739 2.0	60		F 0712	2.0	60		21 Sa 0113	27.6	840		20 Tu 2025	0.3	10	
1348 25.6	780		1318 25.9	790			0731 0.7	20		21 W 0234	26.9	820		
1959 3.3	100		1930 2.6	80			1337 27.2	830		21 W 0850	1.3	40		
8 F 0206	26.2	800		23 Sa 0136	26.9	820		1953 1.0	30		21 W 1458	27.2	830	
0826 2.6	80		Sa 0755	1.6	50		7 Su 0226	25.3	770		21 W 2120	1.3	40	
1436 25.3	770		Sa 1401	26.2	800		0842 3.6	110		22 F 0331	25.9	790		
2048 3.9	120		2015 2.6	80			1451 24.9	760		22 F 0946	2.6	80		
9 Sa 0255	25.6	780		24 Sa 0221	26.6	810		2104 4.3	130		22 F 1556	26.2	800	
0914 3.3	100		Sa 0840	1.6	50		22 F 0358	23.6	720		22 F 2220	2.3	70	
1525 24.6	750		Sa 1447	26.2	800		1012 5.2	160		23 F 0346	25.9	790		
2138 4.6	140		2103 2.6	80			1623 2.3	720		23 F 1048	3.6	110		
10 Su 0345	24.6	750		25 Sa 0310	26.2	800		2239 5.6	170		23 F 1659	25.3	770	
1003 4.3	130		Sa 0930	2.0	60		11 F 0448	22.6	690		23 F 2324	3.3	100	
1615 24.3	740		M 1538	26.2	800		1101 6.2	190		24 Sa 0454	22.0	670		
2230 5.2	160		2156 2.6	80			1714 23.0	700		24 Sa 1154	4.6	140		
11 M 0438	23.6	720		26 M 0404	25.9	790		2339 3.3	100		24 Sa 1807	24.6	750	
1055 4.9	150		M 1023	2.6	80		1154 6.9	210		10 0549	21.7	660		
1708 23.6	720		Tu 1633	25.9	790		1808 22.6	690		10 1200	7.2	220		
● 2324 5.9	180		● 2253 3.0	90			1715 25.6	780		10 1814	22.3	680		
12 Tu 0533	23.0	700		27 W 0502	25.3	770		2339 3.3	100		10 0648	23.6	720	
1148 5.9	180		W 1121	3.0	90		12 F 0027	6.6	200		10 1302	4.9	150	
1803 23.3	710		1732 25.9	790			0638 21.7	660		10 1916	24.3	740		
2355 3.3	100		2355 3.3	100			1249 7.2	220		11 0032	3.9	120		
13 W 0021	6.2	190		28 Th 0606	24.6	750		1904 22.6	690		11 0647	21.7	660	
0630 22.3	680		Th 1223	3.6	110		27 F 0046	3.6	110		11 0754	23.6	720	
1244 6.2	190		1836 25.6	780			0659 24.0	730		11 1408	4.9	150		
1858 23.0	700		1958 23.0	700			1315 4.6	140		11 2021	24.6	750		
14 Th 0117	6.2	190		29 F 0059	3.3	100		1928 24.9	760		12 0139	4.3	130	
0727 22.0	670		F 0712	24.6	750		27 F 0046	3.6	110	12 0745	22.0	670		
1339 6.6	200		1327 3.6	110			0807 24.0	730		12 1356	6.6	200		
1952 23.0	700		1940 25.9	790			1345 6.9	210		12 2008	23.3	710		
15 F 0211	5.9	180		30 Sa 0205	3.0	90		1958 23.0	700		13 0227	5.2	160	
0822 22.3	680		Sa 0817	24.6	750		1013 22.6	690		13 0838	23.0	700		
1431 6.6	200		1431 3.6	110			0919 22.6	690		13 1449	5.6	170		
2043 23.3	710		2043 26.2	800			1521 3.9	120		13 2100	24.3	740		
31 Su 0307	2.6	80		31 Su 0307	2.6	80		2132 25.6	790		13 2210	25.3	770	
0919 24.9	760		Su 0919	24.9	760		1053 25.3	770		28 W 0948	24.6	750		
1531 3.3	100		1531 3.3	100			1704 3.3	100		28 W 1559	3.9	120		
2142 26.6	810		2142 26.6	810			2312 25.9	790		28 W 2210	25.3	770		

Time meridian 60° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to the Canadian chart datum of soundings.

Saint John, New Brunswick, 2016

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		h m	ft cm									
1 Sa	0550 1156 1809	3.3 25.3 3.3	100 770 100	16 Su O	0508 1115 1734 2342	0.3 28.5 -0.3 27.9	10 870 -10 850	1 Tu	0031 0638 1243 1858	24.3 4.6 24.9 3.6	740 140 760 110	16 W	0015 0627 1236 1858	27.6 0.7 29.2 -0.3	840 20 890 -10	1 Th	0042 0647 1252 1909	24.0 4.9 25.3 3.6	730 150 770 110	16 F	0053 0705 1313 1935	26.9 2.0 28.2 0.7	820 60 860 20
2 Su	0016 0628 1233 1847	25.3 3.6 25.3 3.3	770 110 770 100	17 M	0556 1204 1823	0.0 28.9 -0.7	0 880 -20	2 W	0106 0713 1317 1933	24.0 4.9 24.9 3.9	730 150 760 120	17 Th	0108 0721 1329 1952	27.2 1.3 28.5 0.3	830 40 870 10	2 F	0117 0723 1328 1945	24.0 5.2 24.9 3.9	730 160 760 120	17 Sa	0146 0758 1406 2028	26.2 2.6 27.2 1.6	800 80 830 50
3 M	0054 0704 1309 1924	24.9 3.9 25.3 3.6	760 120 770 110	18 Tu	0032 0646 1254 1915	27.9 0.0 28.9 -0.7	850 0 880 -20	3 Th	0141 0748 1353 2010	23.6 5.2 24.6 4.3	720 160 750 130	18 F	0203 0816 1424 2047	26.6 2.3 27.6 1.3	810 40 840 40	3 Sa	0153 0801 1406 2024	24.0 5.2 24.9 3.9	730 160 760 120	18 Su	0239 0852 1459 2121	25.6 3.3 26.2 2.6	780 100 800 80
4 Tu	0131 0740 1346 2000	24.3 4.6 24.9 3.9	740 140 760 120	19 W	0124 0738 1346 2008	27.6 0.7 28.5 0.3	840 20 870 10	4 F	0218 0826 1431 2049	23.6 5.6 24.3 4.6	720 170 740 140	19 Sa	0259 0913 1522 2145	25.6 3.3 26.2 2.6	780 100 800 80	19 M	0334 0947 1555 2216	24.9 4.3 25.3 3.6	760 130 770 110				
5 W	0208 0817 1423 2038	24.0 4.9 24.3 4.6	730 150 740 140	20 Th	0218 0832 1441 2104	26.6 1.6 27.6 1.3	810 50 840 40	5 Sa	0258 0907 1513 2133	23.3 6.2 24.0 4.9	710 190 730 150	20 Su	0359 1013 1622 2245	24.9 4.3 25.3 3.6	760 130 770 110	20 M	0315 0926 1532 2153	23.6 5.6 24.3 4.3	720 170 740 130	20 Tu	0430 1044 1653 2313	24.6 4.9 24.3 4.3	750 150 740 130
6 Th	0246 0855 1502 2119	23.3 5.6 24.0 5.2	710 170 730 160	21 F	0316 0930 1540 2204	25.6 3.0 26.2 2.3	780 90 800 70	6 Su	0342 0953 1600 2221	23.0 6.6 23.6 5.2	700 200 720 160	21 M	0500 1115 1725 2347	24.3 4.9 24.3 4.3	740 150 740 130	21 W	0528 1144 1753	24.0 5.2 23.6	730 160 720				
7 F	0328 0938 1546 2204	22.6 6.2 23.3 5.6	690 190 710 170	22 Sa	0418 1032 1643 2308	24.6 3.9 25.3 3.6	750 120 770 110	7 M	0432 1045 1653 2314	22.6 6.6 23.3 5.2	690 200 710 160	22 Tu	0603 1218 1829	24.0 5.2 24.0	730 160 730	22 W	0454 1110 1717 2338	24.0 5.2 24.3 4.3	730 170 740 130	22 Th	0011 0626 1244 1854	4.9 24.0 5.6 23.3	150 730 170 710
8 Sa	0414 1025 1635 2255	22.3 6.9 23.0 5.9	680 210 700 180	23 Su	0523 1138 1750	24.0 4.9 24.3	730 150 740	8 Tu	0526 1141 1750	23.0 6.2 23.3	700 190 710	23 W	0048 0704 1321 1931	4.6 24.0 5.2 23.6	140 730 160 720	23 Th	0549 1208 1816	24.3 4.6 24.3	740 140 740	23 F	0109 0723 1342 1952	5.2 23.6 5.2 23.0	160 720 160 700
9 Su	0506 1118 1729 2351	22.0 7.2 22.6 6.2	670 220 690 190	24 M	0014 0630 1245 1857	4.3 23.6 5.2 24.0	130 720 160 730	9 W	0011 0623 1239 1849	4.9 23.3 5.6 24.0	150 710 170 730	24 Th	0147 0802 1418 2028	4.9 24.0 4.9 23.6	150 730 150 720	24 Sa	0035 0647 1307 1916	3.9 25.3 3.6 24.9	120 770 110 760	24 F	0205 0818 1437 2047	5.6 24.0 5.2 23.0	170 730 160 700
10 M	0604 1216 1828	22.0 6.9 23.0	670 210 700	25 Tu	0118 0734 1349 2000	4.6 23.6 4.9 24.0	140 720 160 730	10 Th	0109 0720 1338 1947	4.3 24.3 4.3 24.6	130 740 130 750	25 F	0242 0854 1511 2121	4.9 24.3 4.6 24.0	150 740 140 730	25 Sa	0134 0745 1407 2016	3.3 26.2 2.6 25.6	100 800 80 780	25 Su	0257 0908 1526 2136	5.6 24.0 4.9 23.3	170 730 150 710
11 Tu	0049 0702 1316 1927	5.9 22.6 6.2 23.3	180 690 190 710	26 W	0218 0833 1447 2058	4.3 24.0 4.6 24.3	130 730 140 740	11 F	0205 0815 1434 2043	3.3 25.6 3.0 25.6	100 780 90 750	26 Sa	0332 0942 1558 2208	4.6 24.6 3.9 24.0	140 750 120 730	26 M	0231 0842 1505 2114	2.3 27.2 1.6 26.2	70 830 50 800	26 Tu	0344 0953 1611 2221	5.6 24.3 4.3 23.3	170 740 130 710
12 W	0146 0758 1412 2022	4.9 23.6 4.9 24.6	150 720 150 750	27 Th	0313 0925 1539 2148	4.3 24.6 3.9 24.6	130 750 120 750	12 Sa	0259 0909 1528 2137	2.3 26.9 1.6 26.6	70 820 50 810	27 Su	0417 1025 1641 2251	4.6 24.9 3.6 24.0	140 760 110 730	27 M	0328 0938 1601 2210	1.6 28.2 0.7 26.9	50 860 70 820	27 Tu	0428 1035 1651 2302	5.2 24.6 4.9 23.6	160 750 150 720
13 Th	0240 0850 1505 2115	3.6 24.6 3.6 25.6	110 750 110 780	28 F	0401 1011 1625 2234	3.9 24.9 3.6 24.6	120 760 110 780	13 Su	0352 1001 1621 2230	1.3 28.2 0.3 27.2	40 860 10 830	28 M	0458 1104 1721 2330	4.6 24.9 3.6 24.0	140 760 110 730	28 W	0507 1114 1731 2340	5.2 24.9 3.6 24.0	160 760 110 730				
14 F	0331 0939 1556 2204	2.3 26.2 2.0 26.6	70 800 60 810	29 Sa	0445 1053 1707 2316	3.9 25.3 3.3 24.6	120 770 100 750	14 M	0443 1052 1713 2322	0.7 28.9 -0.7 27.6	20 880 -20 840	29 Tu	0536 1141 1758 2359	4.9 24.9 3.6 27.2	150 760 110 830	29 Th	0545 1151 1749 2359	4.9 25.3 0.0 27.2	150 770 0 830	29 F	0545 1151 1808 2359	4.9 25.3 3.6 27.2	150 770 110 830
15 Sa	0420 1028 1645 2253	1.3 27.6 0.7 27.6	40 840 20 840	30 Su	0525 1131 1746 2354	3.9 25.3 3.3 24.6	120 770 100 750	15 Tu	0535 1144 1805	0.3 29.2 -0.7	10 890 -20 840	30 W	0007 1144 1805 2354	24.0 29.2 24.0 24.6	730 890 730 840	30 Th	0611 1220 1842 2359	1.3 28.5 0.0 27.2	40 870 0 830	30 F	0016 1227 1844 2359	24.0 25.6 3.3 27.2	730 780 100 830
				31 M	0602 1207 1823	4.3 25.3 3.3	130 770 100								31 Sa	0051 0658 1304	24.3 4.6 25.6	740 140 780					

Time meridian 60° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to the Canadian chart datum of soundings.

Eastport, Maine, 2016

Times and Heights of High and Low Waters

January				February				March						
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height			
h m	ft	cm		h m	ft	cm		h m	ft	cm				
1 F 0329	17.5	533		16 0316	19.9	607		1 F 0425	17.2	524				
0947	2.3	70	Sa	0941	-0.3	-9	M	1046	2.5	76	Tu	1124	0.2	6
1550	17.3	527		1542	19.4	591		1651	16.3	497		1729	18.0	549
2211	1.9	58	O	2209	-0.5	-15		2308	2.7	82		2351	0.9	27
2 Sa 0420	17.2	524		17 0414	19.7	600		2 0518	17.1	521		17 W 0558	19.0	579
1039	2.6	79	Su	1041	0.0	0	Tu	1141	2.5	76	W	1229	0.4	12
1644	16.7	509		1643	18.8	573		1747	16.1	491		1835	17.7	539
2302	2.3	70		2308	0.1	3						2321	2.9	88
3 Su 0513	17.1	521		18 0514	19.6	597		3 W 0003	2.8	85		18 Th 0055	1.1	34
1133	2.7	82	M	1144	0.1	3		0613	17.2	524		18 Th 0702	19.0	579
1739	16.4	500		1747	18.4	561		1238	2.3	70		1333	0.3	9
2355	2.5	76						1844	16.2	494		1938	17.8	543
4 M 0606	17.3	527		19 0010	0.4	12		4 Th 0059	2.6	79		19 F 0157	1.0	30
1228	2.5	76	Tu	0617	19.6	597		0708	17.7	539		20 F 0803	19.2	585
1834	16.4	500		1248	0.0	0		1334	1.7	52		1433	0.0	0
				1851	18.3	558		1939	16.7	509		2036	18.2	555
5 Tu 0049	2.5	76		20 W 0112	0.5	15		5 F 0154	2.0	61		5 Sa 0254	0.6	18
0659	17.6	536		0718	19.8	604		0801	18.4	561		6 Sa 0858	19.5	594
1322	2.0	61		1350	-0.3	-9		1427	0.8	24		1526	-0.4	-12
1927	16.7	509		1953	18.4	561		2031	17.5	533		2128	18.6	567
6 W 0141	2.2	67		21 Th 0212	0.3	9		6 Sa 0246	1.2	37		6 Su 0345	0.2	6
0749	18.1	552		0817	20.1	613		0850	19.3	588		7 Su 0947	19.8	604
1413	1.4	43		1448	-0.8	-24		1517	-0.2	-6		1613	-0.7	-21
2018	17.1	521		2050	18.8	573		2119	18.4	561		2214	19.0	579
7 Th 0231	1.8	55		22 F 0308	0.0	0		7 Su 0335	0.3	9		7 M 0431	-0.1	-3
0837	18.7	570		0912	20.4	622		0938	20.2	616		8 M 1032	19.9	607
1502	0.6	18		1542	-1.2	-37		1605	-1.1	-34		9 M 1655	-0.8	-24
2105	17.7	539		2143	19.1	582		2206	19.3	588		10 O 2255	19.2	585
8 F 0318	1.2	37		23 Sa 0400	-0.3	-9		8 M 0423	-0.6	-18		11 Th 0512	-0.2	-6
0922	19.4	591		1002	20.6	628		1024	21.0	640		12 Tu 1113	19.9	607
1548	-0.1	-3		1631	-1.4	-43		1651	-2.0	-61		13 Tu 1735	-0.7	-21
2149	18.3	558	O	2231	19.3	588		● 2251	20.2	616		14 Th 2334	19.3	588
9 Sa 0403	0.6	18		24 Su 0448	-0.4	-12		9 Tu 0510	-1.4	-43		15 W 0552	-0.2	-6
1005	20.0	610		1049	20.6	628		1110	21.6	658		16 W 1152	19.7	600
1632	-0.8	-24		1716	-1.4	-43		1737	-2.5	-76		17 W 1813	-0.5	-15
● 2233	18.9	576		2316	19.4	591		2337	20.8	634		18 Th 2334	21.8	664
10 Su 0448	0.1	3		25 M 0533	-0.3	-9		10 W 0557	-1.9	-58		19 Th 0535	-2.9	-88
1048	20.6	628		1133	20.4	622		1157	21.9	668		20 F 0012	19.2	585
1716	-1.4	-43		1759	-1.2	-37		1823	-2.8	-85		21 Th 0630	0.0	0
2316	19.4	591		2359	19.3	588						22 F 0630	19.3	588
11 M 0532	-0.4	-12		26 Tu 0616	-0.1	-3		11 Th 0023	21.2	646		23 F 0050	19.0	579
1132	20.9	637		1215	20.0	610		0645	-2.1	-64		24 F 0709	0.3	9
1800	-1.8	-55		1840	-0.8	-24		1245	21.8	664		25 F 1309	18.9	576
2359	19.8	604						1911	-2.6	-79		26 Th 1850	-0.1	-3
12 Tu 0617	-0.7	-21		27 W 0040	19.0	579		12 F 0111	21.3	649		27 F 0050	19.0	579
1216	21.1	643		0657	0.3	9		0734	-2.0	-61		28 F 0748	0.7	21
1845	-2.0	-61		1257	19.5	594		1334	21.3	649		29 F 1350	18.3	558
				1920	-0.2	-6		2000	-2.2	-67		30 F 2008	1.0	30
13 W 0044	20.1	613		28 Th 0121	18.7	570		13 F 0201	21.1	643		31 F 1939	-2.3	-70
0704	-0.8	-24		0739	0.8	24		0827	-1.6	-49		32 F 1936	1.2	37
1303	21.0	640		1339	18.8	573		1427	20.5	625				
1932	-1.9	-58		2001	0.4	12		2052	-1.4	-43				
14 Th 0132	20.2	616		29 F 0204	18.3	558		14 F 0255	20.6	628				
0753	-0.8	-24		0821	1.3	40		0922	-1.0	-30				
1353	20.7	631		1423	18.1	552		1524	19.6	597				
2021	-1.6	-49		2043	1.1	34		2148	-0.5	-15				
15 F 0222	20.1	613		30 F 0248	17.9	546		15 F 0352	19.9	607				
0846	-0.6	-18		0906	1.8	55		1021	-0.4	-12				
1446	20.1	613		1509	17.4	530		1624	18.6	567				
2113	-1.1	-34		2128	1.7	52		● 2247	0.3	9				
16 F 0314	20.5	613		31 F 0334	17.5	533								
0954	2.2	67		0954	2.2	67								
1558	16.8	512		1558	16.8	512								
● 2216	2.3	70		● 2216	2.3	70								

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Eastport, Maine, 2016

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		h m	ft cm				
1 <i>F</i>	0451	17.5	533	16 <i>Sa</i>	0013	1.9	58	1 <i>Su</i>	0518	18.3	558	16 <i>M</i>	0040	2.0	61
	1119	1.8	55		0619	17.9	546		1146	0.8	24		0645	17.5	533
	1725	16.8	512		1245	1.2	37		1752	18.2	555		1304	1.6	49
	2344	2.4	73		1854	17.5	533					1913	17.9	546	
2 <i>Sa</i>	0550	17.8	543	17 <i>Su</i>	0114	1.7	52	2 <i>M</i>	0015	1.2	37	17 <i>Tu</i>	0134	1.7	52
	1218	1.4	43		0719	17.9	546		0619	18.8	573		0738	17.6	536
	1824	17.4	530		1342	1.1	34		1245	0.3	9		1356	1.6	49
					1949	17.9	546		1851	19.1	582		2002	18.2	555
3 <i>Su</i>	0045	1.7	52	18 <i>M</i>	0209	1.3	40	3 <i>Tu</i>	0115	0.2	6	18 <i>W</i>	0224	1.3	40
	0650	18.5	564		0813	18.2	555		0718	19.5	594		0828	17.8	543
	1317	0.6	18		1434	0.9	27		1343	-0.5	-15		1443	1.4	43
	1922	18.3	558		2038	18.3	558		1947	20.2	616		2047	18.6	567
4 <i>M</i>	0143	0.7	21	19 <i>Tu</i>	0258	0.8	24	4 <i>W</i>	0213	-0.9	-27	19 <i>Th</i>	0309	0.8	24
	0747	19.4	591		0901	18.5	564		0815	20.3	619		0913	18.0	549
	1414	-0.4	-12		1519	0.7	21		1439	-1.3	-40		1526	1.2	37
	2017	19.5	594		2122	18.8	573		2041	21.2	646		2129	19.0	579
5 <i>Tu</i>	0239	-0.6	-18	20 <i>W</i>	0342	0.4	12	5 <i>Th</i>	0308	-2.0	-61	20 <i>F</i>	0352	0.4	12
	0842	20.4	622		0944	18.7	570		0910	21.0	640		0954	18.2	555
	1507	-1.4	-43		1600	0.5	15		1532	-1.9	-58		1607	1.1	34
	2109	20.7	631		2201	19.1	582		2134	22.1	674		2209	19.2	585
6 <i>W</i>	0332	-1.8	-55	21 <i>Th</i>	0422	0.1	3	6 <i>F</i>	0402	-2.9	-88	21 <i>Sa</i>	0432	0.1	3
	0934	21.4	652		1024	18.8	573		1003	21.5	655		1034	18.3	558
	1558	-2.3	-70		1639	0.5	15		1625	-2.3	-70		1647	1.1	34
	2159	21.8	664		2239	19.3	588		2225	22.6	689		2247	19.3	588
7 <i>Th</i>	0424	-2.8	-85	22 <i>F</i>	0500	-0.1	-3	7 <i>Sa</i>	0454	-3.4	-104	22 <i>Su</i>	0511	0.0	0
	1025	22.0	671		1102	18.8	573		1055	21.7	661		1113	18.3	558
	1648	-2.8	-85		1716	0.6	18		1716	-2.3	-70		1726	1.1	34
	2248	22.5	686		2316	19.4	591		2316	22.8	695		2325	19.3	588
8 <i>F</i>	0514	-3.5	-107	23 <i>Sa</i>	0537	-0.1	-3	8 <i>Su</i>	0546	-3.5	-107	23 <i>M</i>	0550	-0.1	-3
	1116	22.2	677		1139	18.7	570		1147	21.5	655		1151	18.3	558
	1738	-3.0	-91		1753	0.7	21		1807	-2.0	-61		1805	1.2	37
	2338	22.8	695		2352	19.3	588					1845	1.3	40	
9 <i>Sa</i>	0605	-3.6	-110	24 <i>Su</i>	0615	0.0	0	9 <i>M</i>	0007	22.4	683	24 <i>Tu</i>	0003	19.3	588
	1206	22.0	671		1216	18.5	564		0637	-3.1	-94		0629	-0.1	-3
	1828	-2.6	-79		1830	1.0	30		1239	20.9	637		1230	18.2	555
									1859	-1.4	-43		1845	1.3	40
10 <i>Su</i>	0028	22.5	686	25 <i>M</i>	0029	19.1	582	10 <i>Tu</i>	0059	21.7	661	25 <i>W</i>	0043	19.2	585
	0656	-3.3	-101		0653	0.2	6		0729	-2.4	-73		0710	0.0	0
	1257	21.4	652		1254	18.2	555		1332	20.2	616		1311	18.1	552
	1919	-2.0	-61		1909	1.3	40		1952	-0.6	-18		1927	1.4	43
11 <i>M</i>	0119	21.9	668	26 <i>Tu</i>	0108	18.9	576	11 <i>W</i>	0153	20.8	634	26 <i>Th</i>	0125	19.1	582
	0748	-2.6	-79		0733	0.4	12		0823	-1.4	-43		0753	0.1	3
	1351	20.5	625		1334	17.9	546		1427	19.3	588		1354	18.1	552
	2012	-1.0	-30		1950	1.7	52		2047	0.3	9		2012	1.5	46
12 <i>Tu</i>	0213	20.9	637	27 <i>W</i>	0149	18.6	567	12 <i>Th</i>	0248	19.7	600	27 <i>Sa</i>	0210	18.9	576
	0843	-1.6	-49		0815	0.7	21		0917	-0.4	-12		0839	0.2	6
	1447	19.5	594		1417	17.6	536		1524	18.5	564		1441	18.2	555
	2108	0.0	0		2034	2.0	61		2143	1.1	34		2100	1.5	46
13 <i>W</i>	0311	19.9	607	28 <i>Th</i>	0234	18.3	558	13 <i>F</i>	0347	18.8	573	28 <i>M</i>	0300	18.8	573
	0941	-0.5	-15		0902	1.0	30		1014	0.5	15		0929	0.3	9
	1546	18.5	564		1504	17.4	530		1622	18.0	549		1532	18.3	558
	2207	1.0	30		2123	2.1	64		2242	1.7	52		2153	1.4	43
14 <i>Th</i>	0412	18.9	576	29 <i>F</i>	0324	18.1	552	14 <i>Sa</i>	0446	18.0	549	29 <i>Su</i>	0354	18.7	570
	1041	0.4	12		0953	1.1	34		1112	1.1	34		1022	0.3	9
	1649	17.8	543		1557	17.4	530		1721	17.6	536		1627	18.6	567
	2309	1.6	49		2216	2.1	64		2341	2.0	61		2250	1.1	34
15 <i>F</i>	0515	18.2	555	30 <i>Sa</i>	0419	18.1	552	15 <i>Su</i>	0547	17.6	536	30 <i>W</i>	0452	18.8	573
	1143	1.0	30		1048	1.1	34		1209	1.5	46		1119	0.2	6
	1753	17.5	533		1654	17.7	539		1819	17.6	536		1725	19.1	582
					2315	1.8	55					2350	0.6	18	
												31 <i>Tu</i>	0552	19.0	579
												1217	0.0	0	0
												1823	19.7	600	

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Eastport, Maine, 2016

Times and Heights of High and Low Waters

July				August				September			
Time	Height	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	-0.8	-24		16 Sa 0154	1.6	49		1 Th 0257	0.4	12	
0732 19.2	585			0759 16.8	512			0432 -1.0	-30		
1353 -0.3	-9			1412 2.2	67	M 0912 19.1	582	1033 19.4	591	16 0400 -1.6	-49
1957 20.9	637			1531 -0.3	-9	1515 1.0	30	1652 -0.4	-12	1001 20.5	625
				2133 20.7	631	2119 19.4	591	2251 20.0	610	1622 -1.5	-46
2 Sa 0229	-1.4	-43		17 Su 0243	1.1	34		● 0515	-0.9	-27	
0830 19.5	594			0848 17.2	524	2 0403 -1.5	-46	1115 19.5	594	0447 -2.2	-67
1450 -0.6	-18			1500 1.8	55	Tu 1004 19.4	591	1734 -0.3	-9	1047 21.3	649
2053 21.3	649			2105 18.8	573	1623 -0.5	-15	2333 19.7	600	1710 -2.3	-70
				● 2224	20.7	631				2311 21.6	658
3 Su 0325	-1.9	-58		18 M 0330	0.5	15		3 Sa 0555	-0.6	-18	
0926 19.8	604			0933 17.7	539	3 W 0452 -1.6	-49	1155 19.4	591	0534 -2.5	-76
1546 -0.8	-24			1546 1.3	40	1711 -0.5	-15	1815 -0.1	-3	1134 21.8	664
2147 21.5	655			2149 19.3	588	2311 20.6	628			1759 -2.7	-82
						○ 2249 20.7	631			2359 21.6	658
4 M 0419	-2.2	-67		19 Tu 0415	-0.1	-3		4 Su 0014	19.3	588	
1020 20.0	610			1017 18.2	555	4 Th 0538 -1.4	-43	0635 -0.1	-3	0622 -2.5	-76
1639 -0.9	-27			1631 0.8	24	1139 19.5	594	1234 19.1	582	1222 21.9	668
● 2239 21.5	655			○ 2232 19.7	600	2357 20.2	616	1855 0.2	6	1849 -2.7	-82
5 Tu 0510	-2.3	-70		20 W 0458	-0.6	-18		5 M 0055	18.8	573	
1111 20.0	610			1059 18.7	570	5 F 0622 -1.1	-34	0714 0.5	15	0049 21.3	649
1730 -0.8	-24			1715 0.4	12	1223 19.4	591	1315 18.8	573	0712 -2.1	-64
2330 21.2	646			2314 20.1	613	1842 -0.1	-3	1935 0.6	18	1312 21.7	661
										1940 -2.4	-73
6 W 0559	-2.0	-61		21 Th 0541	-1.1	-34		6 Tu 0136	18.2	555	
1201 19.8	604			1142 19.1	582	6 Sa 0705 -0.5	-15	0754 1.1	34	0141 20.6	628
1819 -0.5	-15			1759 0.0	0	1306 19.1	582	1356 18.4	561	0804 -1.4	-43
				2358 20.3	619	1925 0.4	12	2018 1.1	34	1405 21.2	646
										2035 -1.8	-55
7 Th 0019	20.7	631		22 F 0625	-1.3	-40		7 W 0220	17.6	536	
0647 -1.6	-49			1225 19.5	594	7 Su 0125 19.0	579	0837 1.7	52	0237 19.8	604
1249 19.5	594			1844 -0.3	-9	7 M 0734 0.1	3	1440 17.9	546	0859 -0.5	-15
1907 -0.1	-3					1350 18.7	570	2102 1.6	49	1502 20.4	622
						2009 0.8	24			2132 -1.0	-30
8 F 0107	20.1	613		23 Sa 0042	20.4	622		8 Th 0306	16.9	515	
0734 -0.9	-27			0710 -1.4	-43	8 M 0830 0.8	24	0922 2.3	70	0336 18.9	576
1337 19.1	582			1310 19.8	604	1434 18.3	558	1527 17.5	533	0958 0.3	9
1955 0.5	15			1931 -0.5	-15	2054 1.3	40	2151 2.0	61	1602 19.7	600
										● 2234 -0.3	-9
9 Sa 0155	19.3	588		24 Su 0129	20.3	619		9 F 0356	16.5	503	
0820 -0.2	-6			0756 -1.4	-43	9 Tu 0915 1.5	46	1011 2.7	82	0439 18.2	555
1424 18.6	567			1358 20.0	610	1521 17.9	546	1619 17.2	524	1100 0.9	27
2043 1.0	30			2020 -0.6	-18	2141 1.8	55	● 2243 2.2	67	1706 19.1	582
										2337 0.2	6
10 Su 0244	18.5	564		25 M 0220	20.0	610		10 M 0450	16.2	494	
0907 0.6	18			0846 -1.1	-34	10 W 1002 2.1	64	1105 2.9	88	0545 17.9	546
1513 18.2	555			1448 20.1	613	1610 17.5	533	1713 17.1	521	1205 1.2	37
2132 1.6	49			2113 -0.5	-15	● 2231 2.1	64	2339 2.2	67	1811 18.8	573
11 M 0335	17.8	543		26 Tu 0313	19.6	597		11 Su 0546	16.2	494	
0955 1.3	40			0938 -0.7	-21	11 Th 1052 2.5	76	1201 2.8	85	0041 0.3	9
1603 17.8	543			1542 20.0	610	1701 17.3	527	1809 17.3	527	0649 18.0	549
● 2223 2.0	61			● 2209 -0.4	-12	2324 2.3	70			1308 1.1	34
										1914 18.9	576
12 Tu 0427	17.1	521		27 W 0410	19.1	582		12 M 0035	1.8	55	
1045 1.9	58			1034 -0.2	-6	12 F 1145 2.8	85	0642 16.6	506	0141 0.2	6
1654 17.6	536			1640 19.9	607	1755 17.3	527	1258 2.4	73	0748 18.3	558
2315 2.2	67			2309 -0.3	-9			1905 17.9	546	1407 0.7	21
										2011 19.1	582
13 W 0520	16.7	509		28 Th 0511	18.7	570		13 Tu 0455	18.4	561	
1136 2.3	70			1133 0.1	3	28 Su 0703 18.1	552	1109 1.5	46	0044 0.3	9
1746 17.5	533			1740 19.9	607	1240 2.7	82	1352 1.5	46	0649 18.0	549
						1849 17.5	533	1957 18.7	570	1459 0.3	9
14 Th 0008	2.2	67		29 F 0011	-0.3	-9		13 F 0159	-0.3	-9	
0614 16.5	503			0614 18.5	564	14 Th 0720 16.5	503	0915 19.4	591	0927 19.2	585
1228 2.5	76			1235 0.3	9	1334 2.4	73	1534 -0.6	-18	1547 -0.1	-3
1838 17.6	536			1841 20.0	610	1941 18.0	549	2119 19.9	607	2148 19.5	594
15 F 0102	2.0	61		30 Sa 0113	-0.5	-15		14 W 0223	0.3	9	
0708 16.6	506			0716 18.5	564	30 M 0812 17.1	521	0915 19.4	591	0927 19.2	585
1321 2.4	73			1336 0.3	9	1426 1.8	55	1534 -0.6	-18	1547 -0.1	-3
1929 17.9	546			1941 20.2	616	2031 18.7	570	2119 19.9	607	2148 19.5	594
31 Su 0213	-0.9	-27		31 W 0816	18.8	573		14 W 0223	0.3	9	
1435 0.0	0	0		1435 0.0	0			14 W 0826	18.4	561	
2039 20.5	625			2039 20.5	625			14 W 1444	0.5	15	
								2048 19.6	597		

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Eastport, Maine, 2016

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	0449	-0.3	-9		16 Su	0421	-2.4	-73	1 Tu	0536	0.8	24
	1048	19.5	594		1021	22.2	677		1136	19.4	591	
	1709	-0.3	-9		1647	-3.0	-91		1759	0.0	0	
	2309	19.3	588		2248	21.8	664					
2 Su	0527	0.0	0		17 M	0510	-2.6	-79	2 W	0000	18.4	561
	1126	19.5	594		1110	22.6	689		0614	1.1	34	
	1748	-0.2	-6		1737	-3.4	-104		1213	19.1	582	
	2347	19.0	579		2338	21.8	664		1837	0.3	9	
3 M	0605	0.4	12		18 Tu	0559	-2.5	-76	3 Th	0038	18.0	549
	1204	19.3	588		1159	22.6	689		0652	1.5	46	
	1826	0.1	3		1828	-3.3	-101		1252	18.8	573	
									1917	0.6	18	
4 Tu	0026	18.6	567		19 W	0029	21.4	652	4 F	0118	17.6	536
	0642	0.8	24		0650	-2.0	-61		0733	1.9	58	
	1242	19.0	579		1251	22.2	677		1333	18.4	561	
	1904	0.5	15		1921	-2.8	-85		1959	1.0	30	
5 W	0105	18.1	552		20 Th	0122	20.6	628	5 Sa	0201	17.3	527
	0721	1.4	43		0744	-1.2	-37		0816	2.3	70	
	1322	18.5	564		1345	21.4	652		1417	18.1	552	
	1945	0.9	27		2016	-2.0	-61		2044	1.3	40	
6 Th	0147	17.5	533		21 F	0219	19.8	604	6 Su	0247	17.1	521
	0802	1.9	58		0840	-0.3	-9		0903	2.5	76	
	1404	18.1	552		1442	20.4	622		1505	17.8	543	
	2028	1.3	40		2113	-1.1	-34		2133	1.4	43	
7 F	0231	17.0	518		22 Sa	0318	18.9	576	7 M	0338	17.0	518
	0846	2.4	73		0939	0.6	18		0955	2.6	79	
	1449	17.7	539		1543	19.5	594		1558	17.7	539	
	2115	1.7	52		2213	-0.2	-6		2226	1.4	43	
8 Sa	0319	16.6	506		23 Su	0421	18.2	555	8 Tu	0432	17.2	524
	0935	2.8	85		1041	1.2	37		1052	2.3	70	
	1539	17.3	527		1646	18.8	573		1655	17.8	543	
	2206	2.0	61		2316	0.4	12		2322	1.2	37	
9 Su	0412	16.4	500		24 M	0525	17.9	546	9 W	0529	17.8	543
	1028	2.9	88		1145	1.5	46		1150	1.8	55	
	1634	17.2	524		1751	18.4	561		1754	18.3	558	
	2301	2.0	61									
10 M	0507	16.6	506		25 Tu	0018	0.7	21	10 Th	0020	0.7	21
	1125	2.7	82		0628	18.0	549		0626	18.6	567	
	1731	17.5	533		1247	1.4	43		1249	0.9	27	
	2357	1.6	49		1853	18.3	558		1852	18.9	576	
11 Tu	0604	17.1	521		26 W	0117	0.7	21	11 F	0116	0.0	0
	1223	2.2	67		0725	18.3	558		0721	19.7	600	
	1828	18.0	549		1345	1.0	30		1346	-0.3	-9	
					1949	18.5	564		1948	19.8	604	
12 W	0054	1.0	30		27 Th	0210	0.5	15	12 Sa	0211	-0.8	-24
	0700	18.0	549		0816	18.7	570		0815	20.9	637	
	1320	1.2	37		1437	0.6	18		1441	-1.5	-46	
	1924	18.9	576		2039	18.7	570		2043	20.6	628	
13 Th	0149	0.1	3		28 F	0258	0.4	12	13 Su	0304	-1.6	-49
	0753	19.1	582		0901	19.1	582		0907	21.9	668	
	1414	0.0	0		1523	0.2	6		1534	-2.5	-76	
	2017	19.8	604		2124	18.8	573		2135	21.2	646	
14 F	0241	-0.9	-27		29 Sa	0341	0.3	9	14 M	0356	-2.1	-64
	0844	20.3	619		0943	19.4	591		0957	22.6	689	
	1507	-1.2	-37		1604	-0.1	-3		1626	-3.3	-101	
	2108	20.7	631		2205	18.9	576		2227	21.6	658	
15 Sa	0331	-1.8	-55		30 Su	0421	0.4	12	15 Tu	0447	-2.4	-73
	0933	21.4	652		1021	19.5	594		1048	23.0	701	
	1557	-2.3	-70		1644	-0.2	-6		1718	-3.6	-110	
	2158	21.4	652		2244	18.8	573		2319	21.6	658	
31 M	0459	0.5	15		31 M	1059	19.5	594				
					1721	-0.1	-3					
					2322	18.6	567					

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Bar Harbor, Maine, 2016

Times and Heights of High and Low Waters

January				February				March							
Time	Height	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	10.1	308	16	0309	11.7	357	1	0418	10.0	305	16	0433	11.4	347
0943	1.6	49	Sa	0926	0.0	0	M	1041	1.7	52	Tu	0951	1.5	46	
1549	9.9	302	Sa	1535	11.3	344	M	1647	9.2	280	Tu	1120	0.1	3	
2206	1.2	37	●	2152	-0.2	-6		2256	1.9	58		1733	10.4	317	
									2342	0.7	21		2206	1.9	58
2 Sa	0421	10.0	305	17	0409	11.6	354	2	0510	9.9	302	17	0559	11.4	347
1038	1.7	52	Su	1030	0.1	3	Tu	1137	1.7	52	W	1228	0.1	3	
1643	9.5	290	Su	1640	10.9	332		1744	9.1	277		1841	10.3	314	
●	2258	1.5	46		2253	0.1	3		2351	2.0	61		2302	2.0	61
3 Su	0513	9.9	302	18	0511	11.6	354	3	0605	10.1	308	18	0049	0.8	24
1134	1.7	52	M	1137	0.1	3	W	1234	1.5	46	Th	0705	11.4	347	
1739	9.3	283	M	1747	10.7	326		1842	9.2	280		1332	0.0	0	
2350	1.7	52		2358	0.3	9						1945	10.4	317	
4 M	0605	10.0	305	19	0615	11.7	357	4	0046	1.9	58	3	0516	10.0	305
1229	1.5	46	Tu	1243	-0.1	-3	Th	0700	10.4	317	F	0151	0.7	21	
1835	9.3	283	Tu	1854	10.6	323		1329	1.1	34	F	0805	11.6	347	
								1937	9.5	290		1430	-0.2	-6	
5 Tu	0042	1.7	52	20	0102	0.4	12	4	0001	1.9	58	19	0136	0.9	27
0656	10.3	314	W	0718	11.9	363	Th	0751	10.8	329	Sa	0748	11.1	338	
1322	1.3	40	W	1346	-0.4	-12		1419	0.6	18	Sa	1410	0.2	6	
1928	9.4	287	W	1957	10.8	329		2027	10.0	305		2023	10.6	323	
6 W	0132	1.6	49	21	0203	0.3	9	5	0139	1.5	46	20	0231	0.6	18
0744	10.6	323	Th	0817	12.1	369	W	0948	11.9	363	Sa	0842	11.2	341	
1411	0.9	27	Th	1444	-0.7	-21	Sa	1506	0.0	0	Sa	1500	0.1	3	
2017	9.7	296	Th	2055	11.0	335		2114	10.5	320		2111	10.9	332	
7 Th	0219	1.4	43	22	0259	0.1	3	6	0229	1.1	34	21	0320	0.3	9
0830	11.0	335	F	0911	12.3	375	W	0948	11.9	363	Su	0929	11.4	347	
1456	0.4	12	F	1536	-0.9	-27	Sa	1550	-0.6	-18	M	1544	0.0	0	
2103	10.0	305	F	2147	11.2	341		2158	11.1	338		2154	11.1	338	
8 F	0303	1.1	34	23	0350	0.0	0	7	0316	0.5	15	22	0403	0.1	3
0913	11.4	347	Sa	1001	12.4	378	W	0927	12.0	366	M	1011	11.4	347	
1538	0.0	0	Sa	1624	-1.0	-30	Su	1550	-0.6	-15		1624	0.0	0	
2145	10.4	317	Sa	2234	11.3	344	O	2257	11.2	341		2232	11.2	341	
9 Sa	0345	0.7	21	24	0438	0.0	0	8	0402	-0.1	-3	23	0442	0.0	0
0954	11.8	360	Su	1047	12.3	375	M	1012	12.5	381	Tu	0948	12.7	387	
1619	-0.4	-12	Su	1709	-0.9	-27		1634	-1.1	-34		1607	-1.3	-40	
●	2226	10.7	Su	2318	11.3	344	●	2242	11.7	357		2216	12.3	375	
10 Su	0426	0.4	12	25	0522	0.0	0	9	0447	-0.5	-15	24	0519	0.0	0
1035	12.2	372	M	1131	12.1	369	W	1058	12.8	390	W	1050	11.4	347	
1659	-0.8	-24	M	1751	-0.7	-21	Su	1718	-1.4	-43	Tu	1700	0.1	3	
2308	11.1	338	M					2327	12.1	369	O	2307	11.3	344	
11 M	0509	0.1	3	26	0000	11.2	341	10	0534	-0.9	-27	25	0554	0.1	3
1118	12.4	378	Tu	0605	0.2	6	W	1145	13.0	396	Th	1126	13.2	402	
1741	-1.0	-30	Tu	1212	11.8	360	Su	1803	-1.6	-49		1740	-1.7	-52	
2350	11.4	347	Tu	1831	-0.4	-12						2350	13.1	399	
12 Tu	0553	-0.1	-3	27	0040	11.0	335	11	0605	-1.8	-55	26	0014	11.1	338
1202	12.5	381	W	0646	0.4	12	W	0623	-1.1	-34	Sa	0629	0.2	6	
1825	-1.1	-34	W	1253	11.4	347	Su	1233	12.9	393	Sa	1237	10.7	326	
			W	1911	0.0	0		1850	-1.5	-46		1842	0.8	24	
13 W	0035	11.6	354	28	0120	10.8	329	12	0102	12.5	381	27	0048	11.0	335
0640	-0.2	-6	W	0728	0.7	21	W	0714	-1.0	-30	Sa	0705	0.4	12	
1250	12.4	378	W	1335	10.9	332	Sa	1325	12.5	381	Su	1313	10.4	317	
1911	-1.1	-34	W	1951	0.4	12		1940	-1.1	-34		1920	-1.2	-37	
14 Th	0123	11.7	357	29	0201	10.5	320	13	0248	12.2	372	28	0204	10.6	323
0731	-0.2	-6	Th	0812	1.0	30	Th	0909	-0.5	-15	M	0852	-0.8	-24	
1341	12.2	372	Th	1418	10.4	317	Su	1520	11.4	347		1435	9.8	299	
2001	-0.9	-27	Th	2033	0.9	27		2132	-0.1	-3		2038	1.7	52	
15 F	0214	11.7	357	30	0243	10.3	314	14	0348	11.9	363	29	0248	10.4	317
0826	-0.1	-3	F	0858	1.3	40	W	1013	-0.2	-6	W	0825	0.9	27	
1436	11.8	360	F	1503	9.9	302	Sa	1624	10.8	329	Tu	1435	9.8	299	
2054	-0.6	-18	F	2116	1.3	40	●	2235	0.4	12		2038	1.7	52	
				31	0329	10.1	308	15	0328	11.9	363	30	0248	10.4	317
				Su	0947	1.6	49	W	0955	-0.3	-9	W	0912	1.1	34
				Su	1553	9.5	290	Su	1609	10.7	326	Th	1523	9.5	290
				●	2204	1.6	49	●	2219	0.6	18		2127	1.8	55
												31	0338	10.2	311
												Th	1004	1.2	37
												1617	9.4	287	
												●	2222	1.9	58

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Bar Harbor, Maine, 2016

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	10.2	311	16 Sa	0012	1.2	37	1 Su	0503	10.7	326	16 M	0041	1.2	37	1 W	0035	0.0	0
	1102	1.1	34		0623	10.6	323		1127	0.4	12		0649	10.2	311		0644	11.2	341
	1716	9.6	293		1245	0.6	18		1743	10.5	320		1303	0.9	27		1257	-0.2	-6
	2323	1.7	52		1901	10.3	314		2356	0.9	27		1918	10.5	320		1913	12.1	369
2 Sa	0535	10.4	317	17 Su	0113	1.0	30	2 M	0606	11.0	335	17 Tu	0135	1.0	30	2 Th	0136	-0.6	-18
	1203	0.8	24		0723	10.6	323		1227	0.1	3		0742	10.2	311		0746	11.5	351
	1816	10.0	305		1341	0.6	18		1842	11.1	338		1353	1.0	30		1355	-0.5	-15
					1955	10.6	323						2006	10.7	326		2010	12.7	387
3 Su	0025	1.3	40	18 M	0207	0.8	24	3 Tu	0058	0.3	9	18 W	0224	0.7	21	3 F	0234	-1.2	-37
	0637	10.9	332		0816	10.7	326		0708	11.4	347		0831	10.2	311		0845	11.8	360
	1301	0.4	12		1430	0.5	15		1325	-0.3	-9		1438	0.9	27		1451	-0.7	-21
	1914	10.6	323		2042	10.8	329		1939	11.8	360		2049	10.9	332		2105	13.1	399
4 M	0125	0.6	18	19 Tu	0255	0.5	15	4 W	0157	-0.5	-15	19 Th	0308	0.4	12	4 Sa	0330	-1.7	-52
	0736	11.4	347		0904	10.8	329		0807	11.8	360		0915	10.3	314		0941	12.0	366
	1357	-0.2	-6		1514	0.4	12		1420	-0.7	-21		1520	0.9	27		1546	-0.8	-24
	2008	11.3	344		2124	11.0	335		2033	12.6	384		2128	11.1	338		2158	13.4	408
5 Tu	0221	-0.2	-6	20 W	0338	0.2	6	5 Th	0253	-1.3	-40	20 F	0349	0.2	6	5 Su	0424	-2.0	-61
	0832	12.1	369		0946	10.9	332		0903	12.3	375		0956	10.4	317		1035	12.1	369
	1449	-0.8	-24		1554	0.4	12		1513	-1.1	-34		1558	0.9	27		1639	-0.8	-24
	2100	12.2	372		2202	11.2	341		2125	13.2	402		2205	11.2	341		2250	13.4	408
6 W	0314	-1.0	-30	21 Th	0417	0.1	3	6 F	0347	-1.9	-58	21 Sa	0427	0.1	3	6 M	0516	-2.0	-61
	0925	12.6	384		1025	10.9	332		0958	12.5	381		1034	10.4	317		1128	12.0	366
	1539	-1.3	-40		1631	0.5	15		1605	-1.3	-40		1635	1.0	30		1732	-0.6	-18
	2149	12.9	393		2237	11.3	344		2217	13.5	411		2241	11.3	344		2342	13.1	399
7 Th	0406	-1.7	-52	22 F	0454	0.0	0	7 Sa	0439	-2.2	-67	22 Su	0503	0.0	0	7 Tu	0608	-1.8	-55
	1017	12.9	393		1101	10.8	329		1051	12.6	384		1111	10.4	317		1221	11.8	360
	1628	-1.6	-49		1705	0.6	18		1657	-1.3	-40		1710	1.0	30		1825	-0.3	-9
	2239	13.3	405		2311	11.3	344		2308	13.6	415		2316	11.3	344		2327	11.5	351
8 F	0456	-2.1	-64	23 Sa	0529	0.0	0	8 Su	0532	-2.3	-70	23 M	0539	0.0	0	8 W	0035	12.7	387
	1108	13.0	396		1136	10.7	326		1144	12.5	381		1147	10.3	314		0700	-1.4	-43
	1718	-1.6	-49		1739	0.8	24		1749	-1.0	-30		1746	1.1	34		1314	11.5	351
	2328	13.5	411		2344	11.2	341						2351	11.3	344		1918	0.1	3
9 Sa	0548	-2.2	-67	24 Su	0604	0.1	3	9 M	0000	13.4	408	24 Tu	0615	0.0	0	9 Th	0127	12.1	369
	1200	12.9	393		1212	10.5	320		0625	-2.0	-61		1224	10.3	314		0753	-0.8	-24
	1808	-1.4	-43		1813	1.0	30		1237	12.1	369		1823	1.2	37		1407	11.1	338
									1842	-0.6	-18					2013	0.5	15	
10 Su	0019	13.4	408	25 M	0018	11.1	338	10 Tu	0053	13.0	396	25 W	0029	11.2	341	10 F	0221	11.5	351
	0641	-2.0	-61		0639	0.2	6		0719	-1.6	-49		0653	0.1	3		0846	-0.3	-9
	1253	12.4	378		1248	10.3	314		1333	11.7	357		1304	10.3	314		1501	10.8	329
	1901	-0.9	-27		1848	1.2	37		1938	-0.1	-3		1903	1.3	40		2110	0.9	27
11 M	0112	13.0	396	26 Tu	0054	11.0	335	11 W	0148	12.3	375	26 Th	0109	11.2	341	11 Sa	0317	10.9	332
	0736	-1.6	-49		0716	0.4	12		0815	-1.0	-30		0734	0.1	3		0939	0.2	6
	1349	11.9	363		1326	10.1	308		1430	11.2	341		1346	10.3	314		1555	10.5	320
	1956	-0.3	-9		1927	1.4	43		2037	0.4	12		1947	1.3	40		2207	1.2	37
12 Tu	0208	12.5	381	27 W	0133	10.8	329	12 Th	0246	11.7	357	27 F	0154	11.1	338	12 Su	0413	10.4	317
	0834	-1.0	-30		0757	0.5	15		0913	-0.4	-12		0819	0.1	3		0938	-0.2	-6
	1448	11.3	344		1408	10.0	305		1529	10.8	329		1432	10.3	314		1501	11.1	338
	2056	0.3	9		2009	1.6	49		2138	0.9	27		2036	1.2	37		2211	0.4	12
13 W	0308	11.8	360	28 Th	0217	10.7	326	13 F	0347	11.1	338	28 Sa	0244	11.0	335	13 M	0510	10.0	305
	0936	-0.4	-12		0842	0.6	18		1012	0.2	6		0908	0.1	3		1126	1.0	30
	1551	10.7	326		1455	9.9	302		1629	10.5	320		1523	10.5	320		1743	10.3	314
	2200	0.8	24		2058	1.6	49		2240	1.2	37		2130	1.1	34		2313	0.2	6
14 Th	0412	11.2	341	29 F	0307	10.6	323	14 Sa	0449	10.6	323	29 Su	0339	11.0	335	14 Tu	0001	1.4	43
	1040	0.1	3		0933	0.7	21		1112	0.6	18		1001	0.1	3		0607	9.8	299
	1657	10.4	317		1547	9.9	302		1729	10.3	314		1618	10.7	326		1219	1.3	40
	2307	1.1	34		2153	1.6	49		2342	1.3	40		2230	0.9	27		1834	10.4	317
15 F	0519	10.8	329	30 Sa	0403	10.6	323	15 Su	0551	10.3	314	30 M	0438	10.9	332	15 W	0055	1.2	37
	1144	0.4	12		1028	0.6	18		1209	0.8	24		1058	0.1	3		0702	9.7	296
	1801	10.3	314		1644	10.1	308		1826	10.3	314		1716	11.1	338		1309	1.4	43
					2253	1.4	43						2332	0.5	15		1923	10.5	320
													31 Tu	0541	11.0	335			
													1158	-0.1	-3				
													1815	11.6	354				

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to mean lower low water which is the chart datum of soundings.

Bar Harbor, Maine, 2016

Times and Heights of High and Low Waters

July				August				September					
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height		
h m	ft	cm		h m	ft	cm		h m	ft	cm			
1 F 0120	-0.6	-18		16 Sa 0154	1.0	30		1 M 0305	-0.9	-27			
0729	11.1	338		0801	9.5	290		0249	0.4	12			
1336	-0.1	-3	Sa	1403	1.6	49	M	0916	11.1	338	Tu		
1952	12.5	381		2014	10.7	326		0857	10.1	308			
								1459	0.9	27			
								2109	11.5	351			
								● 2251	11.9	363			
2 Sa 0220	-1.0	-30		17 Su 0241	0.7	21	2 Tu 0357	-1.1	-34	2 F 0507	-0.5	-15	
0830	11.3	344		0849	9.7	296	W 1008	11.3	344	1116	11.4	347	
1435	-0.2	-6	Su	1448	1.4	43	1612	-0.1	-3	1725	-0.1	-3	
2049	12.8	390		2058	11.0	335	● 2222	12.5	381	2332	11.6	354	
3 Su 0317	-1.3	-40		18 M 0325	0.3	9	3 W 0445	-1.1	-34	3 Sa 0547	-0.2	-6	
0927	11.5	351		0932	10.0	305	1056	11.4	347	1155	11.2	341	
1531	-0.4	-12	M	1532	1.1	34	1700	-0.1	-3	1805	0.1	3	
2144	13.0	396		2140	11.4	347	2310	12.3	375	○ 2237	12.3	375	
4 M 0410	-1.5	-46		19 Tu 0406	0.0	0	4 Th 0531	-0.9	-27	4 Su 0012	11.3	344	
1021	11.6	354		1013	10.3	314	1141	11.4	347	0625	0.1	3	
1624	-0.4	-12	Tu	1613	0.9	27	1746	0.0	0	1232	11.1	338	
● 2236	13.0	396		○ 2221	11.7	357	2355	12.0	366	1845	0.3	9	
5 Tu 0502	-1.5	-46		20 W 0445	-0.3	-9	5 F 0614	-0.6	-18	5 M 0052	10.9	332	
1113	11.6	354		1053	10.6	323	1224	11.2	341	0703	0.5	15	
1716	-0.3	-9	Sa	1654	0.6	18	1831	0.2	6	1310	10.9	332	
2326	12.8	390		2302	11.9	363				1925	0.6	18	
6 W 0551	-1.4	-43		21 Th 0525	-0.6	-18	6 Sa 0039	11.6	354	6 Tu 0132	10.5	320	
1202	11.5	351		1134	10.9	332	0657	-0.3	-9	0741	0.9	27	
1806	-0.1	-3	Th	1736	0.4	12	1307	11.0	335	1350	10.6	323	
				2344	12.0	366	1916	0.5	15	2008	0.9	27	
7 Th 0016	12.4	378		22 F 0606	-0.7	-21	7 Su 0122	11.1	338	7 W 0215	10.0	305	
0639	-1.0	-30		1216	11.2	341	0739	0.2	6	0823	1.3	40	
1251	11.3	344	F	1820	0.1	3	1349	10.8	329	1432	10.4	317	
1856	0.2	6					2001	0.8	24	2053	1.2	37	
8 F 0104	11.9	363		23 Sa 0029	12.1	369	8 M 0207	10.6	323	8 Th 0301	9.6	293	
0726	-0.6	-18		0649	-0.8	-24	0821	0.6	18	0907	1.7	52	
1339	11.1	338	Sa	1301	11.5	351	1432	10.6	323	1518	10.2	311	
1946	0.5	15		1908	0.0	0	2047	1.1	34	2142	1.4	43	
9 Sa 0153	11.3	344		24 Su 0116	12.0	366	9 Tu 0253	10.1	308	9 F 0351	9.3	283	
0814	-0.1	-3		0735	-0.8	-24	0905	1.1	34	0859	-0.3	-9	
1427	10.8	329	Sa	1348	11.6	354	1517	10.3	314	1515	12.1	369	
2037	0.9	27		1959	-0.1	-3	2136	1.3	40	● 2139	-0.4	-12	
10 Su 0243	10.8	329		25 M 0208	11.8	360	10 W 0342	9.7	296	25 Th 0349	11.0	335	
0901	0.4	12		0825	-0.6	-18	0952	1.5	46	1000	0.1	3	
1515	10.5	320	M	1439	11.8	360	1605	10.2	311	1616	11.8	360	
2128	1.2	37		2054	-0.1	-3	● 2228	1.5	46	2243	-0.2	-6	
11 M 0334	10.3	314		26 Tu 0303	11.4	347	11 Th 0434	9.3	283	11 F 0455	9.7	277	
0950	0.9	27		0918	-0.3	-9	1042	1.8	55	1000	2.1	64	
1604	10.3	314	Tu	1534	11.8	360	1656	10.1	308	1721	11.7	357	
● 2221	1.4	43		● 2154	-0.1	-3	2323	1.6	49	2350	-0.1	-3	
12 Tu 0426	9.8	299		27 W 0403	11.1	338	12 F 0530	9.1	277	27 Sa 0028	1.2	37	
1040	1.3	40		1016	-0.1	-3	1136	1.9	58	0638	9.4	287	
1655	10.2	311	W	1633	11.8	360	1750	10.1	308	1243	1.7	52	
2316	1.5	46		2257	-0.1	-3				1855	10.5	320	
13 W 0521	9.5	290		28 Th 0507	10.8	329	13 Sa 0019	1.5	46	13 Tu 0455	10.7	326	
1131	1.5	46		1117	0.2	6	0626	9.1	277	1104	0.5	15	
1746	10.2	311	Th	1735	11.9	363	1230	1.9	58	1721	11.7	357	
							1843	10.3	314	2350	-0.1	-3	
14 Th 0011	1.4	43		29 F 0003	-0.2	-6	14 M 0112	1.2	37	14 W 0156	-0.3	-9	
0616	9.3	283		0613	10.7	326	0720	9.3	283	0808	10.8	329	
1223	1.7	52	F	1221	0.3	9	1323	1.7	52	1415	0.3	9	
1837	10.3	314		1838	12.0	366	1935	10.6	323	2028	11.9	363	
15 F 0104	1.3	40		30 Sa 0107	-0.4	-12	15 M 0202	0.8	24	15 Tu 0251	-0.5	-15	
0710	9.3	283		0718	10.7	326	0810	9.7	296	0902	11.0	335	
1314	1.7	52	Sa	1324	0.3	9	1412	1.4	43	1509	0.1	3	
1927	10.5	320		1940	12.2	372	2023	11.0	335	2120	12.0	366	
16 W 0208	-0.6	-18		31 Su 0819	10.9	332		● 0341	-0.6	-18	16 W 0951	11.2	341
1424	0.1	3	Su	1424	0.1	3		1558	-0.1	-3	1558	-0.1	-3
2038	12.4	378		2038	12.4	378		2207	12.0	366	2207	12.0	366

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Bar Harbor, Maine, 2016

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		h m	ft cm			
1 Sa	0441	0.0	0	16 Su	0359	-1.3	-40	1 Tu	0524	0.8	24	16 W	0518	-1.2	-37
	1048	11.4	347		1010	13.1	399		1129	11.2	341		1130	13.7	418
	1701	-0.1	-3		1628	-1.8	-55		1750	0.1	3		1755	-2.2	-67
	2309	11.2	341		2239	12.8	390		2357	10.4	317				
2 Su	0518	0.2	6	17 M	0448	-1.4	-43	2 W	0558	1.0	30	17 Th	0007	12.3	375
	1124	11.3	344		1058	13.4	408		1204	11.1	338		0611	-0.9	-27
	1739	0.0	0		1719	-2.1	-64		1826	0.3	9		1223	13.3	405
	2346	11.0	335		2330	12.7	387						1849	-1.8	-55
3 M	0553	0.5	15	18 Tu	0537	-1.3	-40	3 Th	0034	10.2	311	18 F	0102	11.9	363
	1159	11.2	341		1149	13.5	411		0634	1.3	40		0707	-0.4	-12
	1816	0.2	6		1811	-2.0	-61		1240	10.9	332		1319	12.8	390
									1903	0.5	15		1946	-1.3	-40
4 Tu	0023	10.6	323	19 W	0023	12.4	378	4 F	0112	9.9	302	19 Sa	0200	11.4	347
	0628	0.8	24		0630	-1.0	-30		0712	1.5	46		0806	0.1	3
	1234	11.0	335		1241	13.2	402		1319	10.7	326		1417	12.1	369
	1853	0.4	12		1906	-1.7	-52		1943	0.7	21		2044	-0.7	-21
5 W	0101	10.3	314	20 Th	0118	12.0	366	5 Sa	0154	9.8	299	20 Su	0300	11.0	335
	0705	1.2	37		0725	-0.5	-15		0754	1.7	52		0909	0.6	18
	1312	10.7	326		1337	12.7	387		1402	10.5	320		1519	11.5	351
	1933	0.7	21		2004	-1.2	-37		2027	0.8	24		2145	-0.2	-6
6 Th	0141	9.9	302	21 F	0218	11.4	347	6 Su	0239	9.6	293	21 M	0402	10.7	326
	0744	1.5	46		0825	0.0	0		0841	1.9	58		1013	0.9	27
	1352	10.5	320		1438	12.2	372		1450	10.3	314		1623	10.9	332
	2015	1.0	30		2106	-0.7	-21		2116	0.9	27		2246	0.3	9
7 F	0224	9.6	293	22 Sa	0321	11.0	335	7 M	0329	9.7	296	22 Tu	0504	10.6	323
	0827	1.8	55		0929	0.5	15		0934	1.8	55		1117	1.0	30
	1436	10.2	311		1542	11.6	354		1543	10.3	314		1726	10.6	323
	2101	1.2	37		2210	-0.2	-6		2208	0.9	27		2346	0.5	15
8 Sa	0312	9.4	287	23 Su	0426	10.6	323	8 Tu	0423	9.8	299	23 W	0603	10.5	320
	0916	2.0	61		1036	0.8	24		1031	1.7	52		1218	1.0	30
	1526	10.1	308		1649	11.2	341		1641	10.4	317		1827	10.4	317
	2153	1.3	40		2315	0.1	3		2304	0.7	21		2327	0.3	9
9 Su	0404	9.3	283	24 M	0532	10.5	320	9 W	0520	10.2	311	24 Th	0043	0.7	21
	1009	2.1	64		1143	0.9	27		1132	1.2	37		0658	10.7	326
	1620	10.1	308		1755	10.9	332		1741	10.6	323		1315	0.8	24
	2248	1.3	40									1923	10.3	314	
10 M	0500	9.4	287	25 Tu	0018	0.2	6	10 Th	0001	0.4	12	25 F	0134	0.8	24
	1107	1.9	58		0634	10.6	323		0616	10.8	329		0748	10.8	329
	1718	10.2	311		1246	0.8	24		1231	0.6	18		1406	0.6	18
	2344	1.1	34		1856	10.9	332		1841	11.0	335		2014	10.4	317
11 Tu	0557	9.7	296	26 W	0115	0.3	9	11 F	0057	0.0	0	26 Sa	0221	0.8	24
	1206	1.5	46		0730	10.8	329		0711	11.5	351		0833	11.0	335
	1816	10.5	320		1343	0.6	18		1329	-0.1	-3		1452	0.3	9
					1952	10.9	332		1939	11.5	351		2100	10.4	317
12 W	0040	0.6	18	27 Th	0207	0.3	9	12 Sa	0151	-0.5	-15	27 M	0304	0.8	24
	0652	10.3	314		0820	11.0	335		0805	12.3	375		0914	11.2	341
	1303	0.9	27		1433	0.3	9		1424	-0.9	-27		1534	0.1	3
	1913	11.0	335		2042	11.0	335		2034	12.0	366		2142	10.4	317
13 Th	0133	0.1	3	28 F	0253	0.3	9	13 Su	0244	-0.9	-27	28 M	0344	0.8	24
	0744	11.0	335		0904	11.2	341		0856	13.0	396		0952	11.3	344
	1357	0.2	6		1518	0.1	3		1517	-1.6	-49		1613	0.0	0
	2006	11.6	354		2126	11.0	335		2128	12.3	375		2221	10.4	317
14 F	0223	-0.5	-15	29 Sa	0335	0.3	9	14 M	0335	-1.2	-37	29 Tu	0421	0.9	27
	0834	11.8	360		0944	11.3	344		0947	13.5	411		1028	11.4	347
	1448	-0.6	-18		1559	-0.1	-3		1610	-2.1	-64		1650	0.0	0
	2058	12.2	372		2207	10.9	332		2220	12.5	381		2257	10.4	317
15 Sa	0311	-1.0	-30	30 Su	0413	0.4	12	15 Tu	0426	-1.3	-40	30 W	0457	1.0	30
	0922	12.5	381		1020	11.4	347		1038	13.7	418		1103	11.3	344
	1538	-1.3	-40		1638	-0.1	-3		1702	-2.3	-70		1726	0.0	0
	○ 2148	12.6	384		● 2245	10.8	329		2313	12.5	381		2333	10.3	314
31 M	0449	0.6	18	31 M	1055	11.4	347								
					1714	0.0	0								
					2321	10.6	323								

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Portland, Maine, 2016

Times and Heights of High and Low Waters

January				February				March				
Time	Height	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 F	0352	8.6	262	16 Sa	0329	10.0	305	1 M	0436	8.5	259	
0959	1.4	43	0941	-0.1	-3	1056	1.4	43	16 Tu	0512	9.9	302
1607	8.4	256	1554	9.6	293	1706	7.7	235	1138	-0.1	-3	
2222	1.0	30	● 2207	-0.4	-12	2308	1.5	46	1755	8.8	268	
									2357	0.5	15	
2 Sa	0442	8.5	259	17 Su	0428	9.9	302	2 Tu	0529	8.5	259	
1054	1.5	46	1046	-0.1	-3	1154	1.4	43	17 W	0619	9.8	299
1702	8.1	247	1659	9.2	280	1805	7.6	232	1248	0.0	0	
● 2313	1.3	40	2308	0.0	0				1905	8.7	265	
3 Su	0533	8.5	259	18 M	0531	9.9	302	3 W	0003	1.6	49	
1152	1.5	46	1154	-0.1	-3	0623	8.6	262	18 Th	0104	0.6	18
1759	7.9	241	1808	9.0	274	1252	1.2	37	0725	9.8	299	
						1904	7.7	235	1353	-0.2	-6	
4 M	0005	1.5	46	19 Tu	0012	0.2	6	4 Th	0058	1.5	46	
0625	8.6	262	0635	10.0	305	0718	8.9	271	19 F	0207	0.5	15
1248	1.3	40	1301	-0.2	-6	1346	0.8	24	0826	9.9	302	
1857	7.8	238	1916	8.9	271	1959	7.9	241	1450	-0.3	-9	
									2106	9.0	274	
5 Tu	0056	1.5	46	20 W	0116	0.2	6	5 F	0151	1.2	37	
0716	8.8	268	0738	10.2	311	0809	9.3	283	20 Sa	0303	0.3	9
1341	1.1	34	1405	-0.5	-15	1436	0.3	9	0920	10.0	305	
1950	7.9	241	2020	9.0	274	2049	8.3	253	1541	-0.5	-15	
									2156	9.2	280	
6 W	0146	1.4	43	21 Th	0217	0.2	6	6 Sa	0241	0.8	24	
0803	9.1	277	0837	10.4	317	0858	9.8	299	21 Su	0353	0.1	3
1429	0.7	21	1503	-0.7	-21	1522	-0.2	-6	0908	10.1	308	
2040	8.2	250	2118	9.2	280	2135	8.8	268	1627	-0.5	-15	
									2240	9.4	287	
7 Th	0232	1.2	37	22 F	0313	0.0	0	7 Su	0329	0.3	9	
0848	9.4	287	0931	10.5	320	0944	10.3	314	22 M	0438	0.0	0
1513	0.3	9	1555	-0.9	-27	1607	-0.7	-21	1052	10.1	308	
2125	8.4	256	2210	9.4	287	2219	9.3	283	1707	-0.5	-15	
									○ 2319	9.4	287	
8 F	0315	0.9	27	23 Sa	0405	-0.1	-3	8 M	0415	-0.2	-6	
0930	9.8	299	1021	10.6	323	1030	10.7	326	23 Tu	0519	0.0	0
1555	-0.1	-3	1643	-1.0	-30	1650	-1.2	-37	1131	10.0	305	
2207	8.7	265	○ 2257	9.5	290	● 2303	9.8	299	1745	-0.4	-12	
									2356	9.4	287	
9 Sa	0357	0.6	18	24 Su	0452	-0.1	-3	9 Tu	0502	-0.7	-21	
1011	10.2	311	1106	10.5	320	1116	11.0	335	24 W	0558	0.0	0
1635	-0.5	-15	1727	-0.9	-27	1734	-1.5	-46	1209	9.8	299	
● 2248	9.0	274	2341	9.5	290	2348	10.2	311	1820	-0.2	-6	
										2323	10.9	332
10 Su	0439	0.3	9	25 M	0537	0.0	0	10 W	0549	-1.0	-30	
1053	10.5	320	1149	10.3	314	1203	11.1	338	25 Th	0031	9.4	287
1716	-0.8	-24	1809	-0.7	-21	1820	-1.6	-49	0635	0.1	3	
2329	9.3	283							1245	9.5	290	
									1855	0.1	3	
11 M	0522	0.0	0	26 Tu	0022	9.4	287	11 F	0034	10.5	320	
1135	10.7	326	0619	0.1	3	0639	-1.1	-34	26 Th	0105	9.3	283
1757	-1.1	-34	1231	10.0	305	1252	11.0	335	0712	0.3	9	
						1907	-1.5	-46	1322	9.2	280	
12 Tu	0011	9.6	293	27 W	0102	9.3	283	12 Sa	0105	9.3	283	
0607	-0.2	-6	0701	0.3	9	0730	-1.1	-34	0622	-1.7	-52	
1220	10.7	326	1311	9.7	296	1344	10.6	323	1236	11.1	338	
1841	-1.2	-37	1928	-0.1	-3	1957	-1.2	-37	1929	0.4	12	
										1845	-1.5	-46
13 W	0056	9.8	299	28 Th	0141	9.1	277	13 Su	0213	10.5	320	
0655	-0.3	-9	0743	0.6	18	0826	-0.9	-27	28 M	0218	9.0	274
1308	10.7	326	1352	9.3	283	1439	10.1	308	0832	0.8	24	
1928	-1.1	-34	2007	0.3	9	2050	-0.8	-24	1443	8.4	256	
									2045	1.0	30	
14 Th	0144	9.9	302	29 F	0221	8.9	271	14 Su	0308	10.4	317	
0746	-0.3	-9	0826	0.8	24	0925	-0.6	-18	29 M	0916	1.0	30
1359	10.4	317	1435	8.8	268	1539	9.6	293	1529	8.1	247	
2017	-1.0	-30	2047	0.6	18	2147	-0.3	-9	2129	1.3	40	
										2129	0.0	0
15 F	0234	9.9	302	30 Sa	0303	8.7	265	15 M	0407	10.1	308	
0841	-0.3	-9	0912	1.1	34	1030	-0.3	-9	1645	9.1	277	
1454	10.0	305	1521	8.4	256				2250	0.2	6	
2110	-0.7	-21	2130	1.0	30							
31 Su	0347	8.6	262	31 Su	1002	1.3	40					
				1611	8.0	244						
				● 2217	1.3	40						

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Portland, Maine, 2016

Times and Heights of High and Low Waters

April				May				June			
Time	Height	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 F 0452	8.9	271	16 Sa 0029	1.2	37	1 Su 0520	9.3	283	1 W 0100	1.3	40
1118	0.9	27	0645	9.2	280	1144	0.4	12	0711	8.8	268
1737	8.2	250	1306	0.5	15	1804	9.1	277	1323	1.0	30
2337	1.5	46	1926	8.9	271	1942	9.1	277	1942	10.7	326
2 Sa 0552	9.0	274	17 Su 0131	1.0	30	2 M 0011	0.9	27	2 Th 0155	-0.4	-12
1219	0.7	21	0745	9.2	280	0623	9.6	293	0805	8.8	268
1837	8.5	259	1402	0.6	18	1243	0.1	3	1412	1.0	30
			2019	9.1	277	1902	9.7	296	2028	9.3	283
3 Su 0039	1.1	34	18 M 0226	0.8	24	3 Tu 0113	0.3	9	18 W 0244	0.8	24
0654	9.4	287	0839	9.2	280	0726	9.9	302	0853	8.8	268
1318	0.2	6	1450	0.5	15	1340	-0.3	-9	1456	1.0	30
1935	9.1	277	2105	9.3	283	1958	10.3	314	2110	9.5	290
4 M 0139	0.5	15	19 Tu 0314	0.6	18	4 W 0213	-0.4	-12	19 Th 0328	0.6	18
0754	9.9	302	0926	9.3	283	0825	10.3	314	0937	8.9	271
1413	-0.3	-9	1533	0.5	15	1436	-0.6	-18	1535	1.0	30
2029	9.8	299	2146	9.5	290	2052	11.0	335	2148	9.7	296
5 Tu 0236	-0.2	-6	20 W 0357	0.4	12	5 Th 0309	-1.1	-34	20 F 0408	0.4	12
0850	10.4	317	1008	9.3	283	0922	10.6	323	1018	8.9	271
1505	-0.8	-24	1611	0.6	18	1529	-0.9	-27	1612	1.0	30
2120	10.5	320	2223	9.6	293	2144	11.5	351	2224	9.8	299
6 W 0330	-0.9	-27	21 Th 0435	0.2	6	6 F 0404	-1.6	-49	21 Sa 0445	0.3	9
0944	10.9	332	1046	9.3	283	1017	10.8	329	1056	8.9	271
1555	-1.2	-37	1646	0.6	18	1620	-1.1	-34	1647	1.1	34
2209	11.1	338	2256	9.7	296	● 2235	11.8	360	● 2258	9.9	302
7 Th 0422	-1.5	-46	22 F 0511	0.1	3	7 Sa 0457	-1.9	-58	22 Su 0520	0.2	6
1036	11.1	338	1122	9.2	280	1111	10.9	332	1132	8.9	271
1644	-1.5	-46	1719	0.7	21	1712	-1.0	-30	1722	1.1	34
● 2258	11.5	351	○ 2329	9.8	299	2326	11.9	363	2332	9.9	302
8 F 0513	-1.9	-58	23 Sa 0545	0.1	3	8 Su 0549	-2.0	-61	23 M 0555	0.1	3
1128	11.2	341	1157	9.1	277	1205	10.7	326	1209	8.9	271
1734	-1.5	-46	1751	0.8	24	1804	-0.8	-24	1757	1.1	34
2347	11.7	357									
9 Sa 0605	-2.0	-61	24 Su 0001	9.7	296	9 M 0018	11.8	360	24 Tu 0008	9.9	302
1220	11.0	335	0619	0.2	6	0643	-1.8	-55	0631	0.1	3
1824	-1.2	-37	1232	9.0	274	1300	10.5	320	1246	8.8	268
			1825	1.0	30	1857	-0.4	-12	1835	1.2	37
10 Su 0038	11.7	357	25 M 0035	9.7	296	10 Tu 0112	11.4	347	25 W 0045	9.9	302
0658	-1.9	-58	0654	0.2	6	0737	-1.4	-43	0709	0.1	3
1315	10.7	326	1308	8.8	268	1356	10.1	308	1325	8.8	268
1916	-0.8	-24	1901	1.1	34	1953	0.0	0	1916	1.2	37
11 M 0131	11.3	344	26 Tu 0111	9.6	293	11 W 0207	10.9	332	26 Th 0126	9.8	299
0754	-1.5	-46	0732	0.4	12	0833	-0.9	-27	0750	0.1	3
1411	10.2	311	1347	8.6	262	1454	9.7	296	1407	8.8	268
2011	-0.3	-9	1940	1.3	40	2051	0.5	15	2001	1.2	37
12 Tu 0227	10.9	332	27 W 0150	9.5	290	12 Th 0305	10.3	314	27 F 0211	9.8	299
0852	-0.9	-27	0813	0.5	15	0932	-0.3	-9	0835	0.1	3
1511	9.7	296	1429	8.5	259	1553	9.3	283	1454	8.9	271
2111	0.3	9	2024	1.4	43	2153	1.0	30	2051	1.2	37
13 W 0327	10.3	314	28 Th 0235	9.4	287	13 F 0406	9.7	296	28 Sa 0301	9.7	296
0954	-0.4	-12	0859	0.6	18	1032	0.2	6	0925	0.1	3
1615	9.2	280	1516	8.5	259	1654	9.1	277	1544	9.1	277
● 2215	0.8	24	2113	1.5	46	● 2257	1.2	37	2145	1.1	34
14 Th 0432	9.7	296	29 F 0324	9.3	283	14 Sa 0509	9.2	280	29 Su 0356	9.6	293
1059	0.1	3	0949	0.6	18	1132	0.6	18	1018	0.1	3
1721	8.9	271	1609	8.5	259	1754	9.0	274	1639	9.3	283
2322	1.1	34	● 2208	1.4	43	● 2245	0.9	27	● 2245	0.9	27
15 F 0539	9.4	287	30 Sa 0420	9.3	283	15 Su 0000	1.3	40	30 M 0455	9.6	293
1205	0.4	12	1045	0.5	15	0611	8.9	271	1115	0.1	3
1826	8.9	271	1705	8.7	265	1230	0.8	24	1736	9.7	296
			2308	1.3	40	1850	9.0	274	2348	0.6	18
31 Tu 0558						31 Tu 1213	0.0	0	31 W 1834	10.2	311

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Portland, Maine, 2016

Times and Heights of High and Low Waters

July				August				September						
Time	Height	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	-0.4	-12		16 Sa 0214	1.1	34		1 M 0324	-0.7	-21				
0749	9.5	290		0823	8.1	247		0306	0.4	12				
1350	0.0	0	Sa	1415	1.5	46	M	0938	9.5	290	Tu			
2011	11.0	335		2032	9.4	287		1534	0.1	3				
								1511	0.9	27				
								2126	10.0	305				
								● 2312	10.3	314				
2 Sa 0238	-0.8	-24		17 Su 0300	0.8	24	2 Tu 0416	-0.8	-24	2 W 0526	-0.3	-9		
0851	9.7	296		0910	8.3	253		1030	9.7	296		1137	9.7	296
1449	-0.1	-3	Su	1500	1.4	43		1626	0.0	0	F	1740	0.1	3
2108	11.3	344		2116	9.7	296		● 2242	10.9	332		2353	10.1	308
3 Su 0335	-1.1	-34		18 M 0343	0.4	12	3 W 0504	-0.8	-24	3 Sa 0604	-0.1	-3		
0949	9.8	299		0954	8.5	250		1118	9.7	296		1215	9.6	293
1545	-0.2	-6	M	1542	1.1	34		1715	0.0	0		1821	0.2	6
2202	11.4	347		2158	9.9	302		2329	10.7	326				
								O 2255	10.7	326				
4 M 0429	-1.3	-40		19 Tu 0423	0.1	3	4 Th 0550	-0.7	-21	4 Su 0032	9.8	299		
1043	9.9	302		1035	8.8	268		1203	9.7	296		0641	0.2	6
1638	-0.2	-6	Tu	1624	0.9	27		1801	0.1	3		1252	9.5	290
● 2254	11.4	347		O 2239	10.2	311						1900	0.4	12
5 Tu 0520	-1.3	-40		20 W 0502	-0.2	-6	5 F 0014	10.5	320	5 M 0111	9.4	287		
1135	10.0	305		1115	9.1	277		0633	-0.5	-15		0718	0.5	15
1730	-0.1	-3	W	1706	0.6	18		1247	9.6	293		1329	9.4	287
2345	11.2	341		2320	10.4	317		1846	0.3	9		1941	0.6	18
6 W 0610	-1.1	-34		21 Th 0542	-0.4	-12	6 Sa 0058	10.1	308	6 Tu 0152	9.1	277		
1225	9.9	302		1156	9.4	287		0715	-0.2	-6		0756	0.9	27
1821	0.1	3		1749	0.4	12		1328	9.5	290		1408	9.2	280
								1931	0.5	15		2023	0.9	27
7 Th 0035	10.9	332		22 F 0002	10.5	320	7 Su 0142	9.7	296	7 W 0234	8.7	265		
0658	-0.8	-24		0623	-0.6	-18		0756	0.2	6		0836	1.2	37
1314	9.7	296	F	1238	9.6	293		1410	9.3	283		1450	9.0	274
1911	0.3	9		1835	0.2	6		2016	0.8	24		2108	1.1	34
8 F 0123	10.4	317		23 Sa 0047	10.6	323	8 M 0226	9.2	280	8 Th 0320	8.3	253		
0745	-0.5	-15		0706	-0.7	-21		0837	0.6	18		0920	1.5	46
1402	9.6	293	Sa	1322	9.9	302		1453	9.1	277		1536	8.8	268
2001	0.6	18		1923	0.1	3		2103	1.0	30		2157	1.3	40
9 Sa 0212	9.9	302		24 Su 0135	10.5	320	9 Tu 0312	8.8	268	9 W 0410	8.0	244		
0832	0.0	0		0752	-0.7	-21		0920	1.0	30		1009	1.7	52
1450	9.3	283	Su	1409	10.0	305		1537	9.0	274		1626	8.7	265
2052	0.9	27		2014	0.0	0		2152	1.3	40		● 2250	1.4	43
10 Su 0301	9.4	287		25 M 0226	10.2	311	10 Th 0401	8.4	256	10 Sa 0505	7.9	241		
0919	0.4	12		0841	-0.6	-18		1006	1.3	40		1102	1.8	55
1538	9.1	277	M	1500	10.2	311		1624	8.8	268		1720	8.7	265
2144	1.2	37		2110	0.0	0		● 2244	1.4	43		2347	1.4	43
11 M 0352	8.9	271		26 Tu 0321	9.9	302	11 Th 0453	8.1	247	11 Su 0602	7.9	241		
1007	0.8	24		0934	-0.3	-9		1055	1.6	49		1158	1.8	55
1626	9.0	274	Tu	1554	10.3	314		1715	8.8	268		1816	8.9	271
● 2238	1.4	43		● 2210	0.0	0		2340	1.5	46				
12 Tu 0445	8.5	259		27 W 0421	9.6	293	12 F 0549	7.9	241	12 M 0044	1.2	37		
1056	1.2	37		1031	-0.1	-3		1147	1.7	52		0658	8.1	247
1716	8.9	271		1652	10.3	314		1808	8.8	268		1255	1.5	46
2334	1.5	46		2314	0.0	0						1912	9.2	280
13 W 0540	8.2	250		28 Th 0525	9.3	283	13 Sa 0036	1.4	43	13 F 0008	0.0	0		
1146	1.5	46		1131	0.1	3		0646	7.8	238		0624	9.0	274
1807	8.9	271		1754	10.4	317		1241	1.7	52		1224	0.6	18
								1901	9.0	274		1846	10.2	311
14 Th 0030	1.5	46		29 F 0020	-0.1	-3	14 Su 0130	1.2	37	14 M 0215	-0.2	-6		
0636	8.0	244		0632	9.2	280		0741	8.0	244		0831	9.2	280
1237	1.6	49		1234	0.3	9		1334	1.6	49		1429	0.4	12
1857	9.0	274		1857	10.5	320		1952	9.2	280		2048	10.3	314
15 F 0124	1.3	40		30 Sa 0125	-0.2	-6	15 M 0220	0.9	27	15 Tu 0311	-0.3	-9		
0731	8.0	244		0739	9.2	280		0831	8.3	253		0925	9.4	287
1327	1.6	49		1337	0.3	9		1424	1.3	40		1524	0.2	6
1946	9.2	280		1959	10.6	323		2041	9.6	293		2141	10.4	317
31 Su 0227	-0.5	-15		31 W 0400	-0.4	-12	31 W 1014	9.6	293	31 W 1613	0.1	3		
1437	0.2	6		1437	0.2	6						2228	10.4	317
2057	10.8	329		2057	10.8	329								

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Portland, Maine, 2016

Times and Heights of High and Low Waters

October				November				December							
	Time	Height			Time	Height			Time	Height					
1 Sa	0459	0.2	6	16 Su	0416	-1.1	-34	1 Tu	0537	0.9	27	16 W	0534	-1.0	-30
	1109	9.8	299		1029	11.4	347		1146	9.7	296		1148	11.9	363
	1718	0.1	3		1645	-1.6	-49		1805	0.2	6		1813	-2.0	-61
	2330	9.7	296		2259	11.1	338								
2 Su	0534	0.4	12	17 M	0504	-1.2	-37	2 W	0018	9.0	274	17 Th	0029	10.6	323
	1144	9.7	296		1118	11.7	357		0611	1.0	30		0627	-0.7	-21
	1755	0.1	3		1736	-1.8	-55		1220	9.6	293		1241	11.6	354
					2351	11.0	335		1841	0.3	9		1907	-1.7	-52
3 M	0006	9.5	290	18 Tu	0554	-1.1	-34	3 Th	0054	8.8	268	18 F	0125	10.2	311
	0608	0.6	18		1208	11.7	357		0647	1.2	37		0722	-0.3	-9
	1217	9.6	293		1829	-1.8	-55		1256	9.5	290		1337	11.1	338
	1831	0.3	9						1918	0.5	15		2003	-1.2	-37
4 Tu	0043	9.2	280	19 W	0044	10.7	326	4 F	0133	8.6	262	19 Sa	0223	9.9	302
	0643	0.9	27		0646	-0.8	-24		0725	1.4	43		0821	0.1	3
	1252	9.5	290		1300	11.5	351		1335	9.3	283		1436	10.6	323
	1908	0.5	15		1923	-1.5	-46		1958	0.6	18		2102	-0.7	-21
5 W	0121	8.9	271	20 Th	0140	10.3	314	5 Sa	0214	8.4	256	20 Su	0323	9.5	290
	0719	1.1	34		0741	-0.4	-12		0808	1.6	49		0923	0.6	18
	1329	9.3	283		1356	11.1	338		1419	9.2	280		1538	10.0	305
	1947	0.7	21						2042	0.8	24		2203	-0.2	-6
6 Th	0201	8.6	262	21 F	0240	9.9	302	6 Su	0300	8.3	253	21 M	0426	9.3	283
	0758	1.4	43		0840	0.1	3		0855	1.7	52		1028	0.9	27
	1409	9.1	277		1456	10.6	323		1507	9.0	274		1643	9.5	290
	2029	0.9	27		2123	-0.6	-18		2130	0.8	24		2305	0.3	9
7 F	0245	8.3	253	22 Sa	0344	9.5	290	7 M	0350	8.3	253	22 Tu	0528	9.1	277
	0840	1.6	49		0943	0.5	15		0947	1.6	49		1135	1.0	30
	1453	8.9	271		1601	10.1	308		1600	9.0	274		1748	9.1	277
	2116	1.1	34		2228	-0.2	-6		2223	0.8	24				
8 Sa	0332	8.1	247	23 Su	0450	9.2	280	8 Tu	0444	8.5	259	23 W	0006	0.5	15
	0928	1.8	55		1051	0.8	24		1045	1.5	46		0627	9.1	277
	1543	8.8	268		1709	9.7	296		1658	9.0	274		1238	1.0	30
	2207	1.2	37		2334	0.2	6		2319	0.7	21		1850	8.9	271
9 Su	0425	8.0	244	24 M	0556	9.1	277	9 W	0540	8.8	268	24 Th	0102	0.7	21
	1022	1.8	55		1159	0.9	27		1146	1.1	34		0722	9.2	280
	1637	8.8	268		1816	9.5	290		1758	9.2	280		1335	0.8	24
	2302	1.2	37									1947	8.9	271	
10 M	0521	8.1	247	25 Tu	0037	0.3	9	10 Th	0017	0.4	12	25 F	0154	0.8	24
	1119	1.7	52		0658	9.2	280		0636	9.4	287		0811	9.4	287
	1735	8.9	271		1303	0.8	24		1247	0.6	18		1427	0.6	18
	2359	1.0	30		1919	9.4	287		1859	9.5	290		2037	8.9	271
11 Tu	0617	8.4	256	26 W	0135	0.4	12	11 F	0113	0.0	0	11 Sa	0240	0.8	24
	1219	1.4	43		0753	9.4	287		0731	10.0	305		0855	9.5	290
	1833	9.2	280		1401	0.6	18		1345	-0.1	-3		1513	0.4	12
					2015	9.4	287		1957	9.9	302		2123	8.9	271
12 W	0055	0.6	18	27 Th	0227	0.4	12	12 Sa	0207	-0.4	-12	27 M	0322	0.9	27
	0712	8.9	271		0843	9.5	290		0824	10.7	326		0935	9.7	296
	1316	0.9	27		1452	0.4	12		1441	-0.8	-24		1554	0.2	6
	1930	9.6	293		2105	9.5	290		2054	10.3	314		2204	8.9	271
13 Th	0148	0.2	6	28 F	0312	0.4	12	13 Su	0300	-0.8	-24	28 M	0400	0.9	27
	0804	9.5	290		0926	9.7	296		0915	11.3	344		1011	9.8	299
	1411	0.2	6		1537	0.2	6		1535	-1.4	-43		1632	0.1	3
	2025	10.1	308		2149	9.5	290		2148	10.6	323		2243	8.9	271
14 F	0239	-0.3	-9	29 Sa	0353	0.5	15	14 M	0351	-1.0	-30	29 W	0435	0.9	27
	0853	10.2	311		1005	9.8	299		1006	11.7	357		1046	9.8	299
	1503	-0.5	-15		1618	0.1	3		1627	-1.9	-58		1708	0.0	0
	2117	10.6	323		2229	9.4	287		2241	10.8	329		2319	8.8	268
15 Sa	0328	-0.8	-24	30 Su	0430	0.6	18	15 Tu	0442	-1.1	-34	30 W	0510	1.0	30
	0941	10.9	332		1040	9.8	299		1056	12.0	366		1120	9.8	299
	1554	-1.1	-34		1655	0.1	3		1720	-2.1	-64		1742	0.1	3
	2208	10.9	332		2306	9.3	283		2334	10.8	329		2355	8.8	268
31 Sa	0504	0.7	21	31 M	1113	9.8	299								
					1731	0.1	3								
					2342	9.1	277								

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Boston, Massachusetts, 2016

Times and Heights of High and Low Waters

January				February				March			
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height
h m	ft	cm		h m	ft	cm		h m	ft	cm	
1 F 0357	9.0	274		16 Sa 0343	10.4	317		1 F 0449	8.9	271	
1003	1.4	43		0957	-0.3	-9		10 M 1106	1.4	43	
1614	8.8	268		1607	10.1	308		1717	8.2	250	
2227	1.0	30	●	2222	-0.4	-12		2323	1.5	46	
2 Sa 0447	8.9	271		17 Su 0440	10.4	317		2 0541	8.9	271	
1057	1.5	46		1058	-0.1	-3		1202	1.4	43	
1708	8.5	259		1709	9.7	296		1814	8.0	244	
2317	1.3	40		2320	-0.1	-3					
3 Su 0538	8.9	271		18 M 0540	10.4	317		0017	1.6	49	
1152	1.5	46		1201	-0.1	-3		0634	9.0	274	
1803	8.3	253		1814	9.4	287		1258	1.2	37	
								1911	8.1	247	
4 M 0009	1.5	46		● 19 Tu 0021	0.1	3		0104	0.6	18	
0630	9.0	274		0641	10.5	320		0728	9.3	283	
1247	1.4	43		1305	-0.2	-6		1352	0.8	24	
1859	8.2	250		1919	9.3	283		2005	8.4	256	
5 Tu 0101	1.5	46		● 20 W 0121	0.2	6		0203	1.2	37	
0720	9.2	280		0742	10.6	323		0819	9.8	299	
1341	1.1	34		1407	-0.4	-12		1443	0.3	9	
1953	8.3	253		2022	9.3	283		2057	8.8	268	
6 W 0151	1.3	40		● 21 Th 0220	0.1	3		0254	0.7	21	
0809	9.5	290		0840	10.8	329		0909	10.2	311	
1431	0.7	21		1504	-0.7	-21		1532	-0.3	-9	
2044	8.5	259		2121	9.5	290		2145	9.2	280	
7 Th 0239	1.1	34		● 22 F 0315	0.0	0		0343	0.2	6	
0856	9.9	302		0935	10.9	332		0957	10.8	329	
1518	0.3	9		1557	-0.8	-24		1619	-0.8	-24	
2131	8.8	268		2214	9.6	293		2231	9.8	299	
8 F 0326	0.8	24		● 23 Sa 0407	-0.1	-3		0431	-0.3	-9	
0940	10.3	314		1025	11.0	335		1044	11.2	341	
1603	-0.2	-6		1646	-0.9	-27		1704	-1.3	-40	
2216	9.1	277		● 2302	9.7	296		● 2317	10.3	314	
9 Sa 0411	0.5	15		● 24 Su 0455	-0.1	-3		0519	-0.8	-24	
1024	10.6	323		1112	10.9	332		1131	11.5	351	
1646	-0.6	-18		1731	-0.9	-27		1750	-1.6	-49	
● 2300	9.4	287		2346	9.8	299					
10 Su 0456	0.1	3		● 25 M 0541	-0.1	-3		0002	10.7	326	
1107	10.9	332		1156	10.8	329		0607	-1.1	-34	
1730	-1.0	-30		1813	-0.8	-24		1218	11.6	354	
2343	9.7	296						1836	-1.8	-55	
11 M 0541	-0.1	-3		● 26 Tu 0028	9.8	299		0048	11.0	335	
1151	11.1	338		0625	0.0	0		0656	-1.3	-40	
1814	-1.2	-37		1238	10.5	320		1307	11.5	351	
				1854	-0.5	-15		1924	-1.7	-52	
12 Tu 0027	10.0	305		● 27 W 0109	9.7	296		0136	11.1	338	
0627	-0.3	-9		0708	0.2	6		0747	-1.3	-40	
1237	11.2	341		1320	10.2	311		1358	11.1	338	
1859	-1.4	-43		1935	-0.2	-6		2013	-1.4	-43	
13 W 0112	10.2	311		● 28 Th 0149	9.5	290		0227	11.0	335	
0715	-0.5	-15		0752	0.5	15		0841	-1.0	-30	
1325	11.1	338		1402	9.7	296		1453	10.6	323	
1946	-1.3	-40		2016	0.2	6		2105	-0.9	-27	
14 Th 0159	10.3	314		● 29 F 0230	9.3	283		0320	10.9	332	
0806	-0.5	-15		0836	0.8	24		0938	-0.7	-21	
1415	10.9	332		1446	9.3	283		1551	10.1	308	
2035	-1.1	-34		2059	0.6	18		2200	-0.4	-12	
15 F 0250	10.4	317		● 30 Sa 0314	9.2	280		0418	10.6	323	
0900	-0.4	-12		0923	1.0	30		1038	-0.4	-12	
1509	10.5	320		1533	8.9	271		1653	9.5	290	
2127	-1.3	-40		2144	1.0	30		● 2259	0.1	3	
31 Su 0400	9.0	274									
1013	1.3	40									
1624	8.5	259									
● 2232	1.3	40									

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Boston, Massachusetts, 2016

Times and Heights of High and Low Waters

April				May				June			
Time	Height	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 F 0512	9.3	283	16 Sa 0025	1.3	40	1 Su 0540	9.8	299	1 W 0056	1.4	43
1139	0.9	27	0646	9.5	290	1204	0.4	12	0711	9.1	277
1753	8.6	262	1305	0.8	24	1819	9.6	293	1321	1.2	37
2359	1.4	43	1927	9.2	280	1942	9.4	287	1943	11.1	338
2 Sa 0611	9.5	290	17 Su 0127	1.2	37	2 M 0030	0.8	24	17 Th 0205	-0.6	-18
1237	0.7	21	0747	9.5	290	0639	10.0	305	0815	10.4	317
1851	9.0	274	1401	0.8	24	1301	0.1	3	1410	1.2	37
			2021	9.3	283	1915	10.1	308	2029	9.6	293
3 Su 0058	1.0	30	18 M 0223	1.0	30	3 Tu 0129	0.2	6	18 W 0241	1.0	30
0709	9.9	302	0841	9.5	290	0739	10.4	317	0855	9.2	280
1333	0.2	6	1450	0.8	24	1356	-0.3	-9	1454	1.2	37
1947	9.5	290	2108	9.6	293	2010	10.8	329	2112	9.8	299
4 M 0155	0.4	12	19 Tu 0312	0.7	21	4 W 0226	-0.5	-15	19 Th 0325	0.7	21
0807	10.4	317	0928	9.6	293	0837	10.8	329	0939	9.2	280
1427	-0.3	-9	1533	0.7	21	1450	-0.7	-21	1536	1.1	34
2040	10.2	311	2149	9.8	299	2103	11.4	347	2151	10.0	305
5 Tu 0250	-0.3	-9	20 W 0355	0.5	15	5 Th 0322	-1.2	-37	20 F 0407	0.5	15
0902	10.9	332	1011	9.7	296	0933	11.1	338	1021	9.3	283
1519	-0.9	-27	1612	0.7	21	1543	-1.0	-30	1616	1.1	34
2131	10.9	332	2226	10.0	305	2155	11.9	363	2230	10.2	311
6 W 0344	-1.1	-34	21 Th 0435	0.3	9	6 F 0415	-1.8	-55	21 Sa 0446	0.3	9
0956	11.4	347	1050	9.7	296	1028	11.3	344	1101	9.4	287
1610	-1.3	-40	1649	0.7	21	1634	-1.2	-37	1655	1.0	30
2221	11.5	351	2302	10.1	308	● 2246	12.3	375	○ 2307	10.3	314
7 Th 0436	-1.7	-52	22 F 0513	0.1	3	7 Sa 0508	-2.1	-64	22 Su 0526	0.1	3
1048	11.6	354	1128	9.7	296	1121	11.3	344	1140	9.4	287
1659	-1.6	-49	1726	0.7	21	1725	-1.2	-37	1734	1.0	30
● 2310	12.0	366	○ 2337	10.2	311	2337	12.4	378	2345	10.3	314
8 F 0527	-2.1	-64	23 Sa 0551	0.1	3	8 Su 0600	-2.1	-64	23 M 0605	0.1	3
1140	11.7	357	1205	9.6	293	1215	11.2	341	1220	9.3	283
1748	-1.6	-49	1803	0.8	24	1817	-1.0	-30	1814	1.0	30
9 Sa 0000	12.2	372	24 Su 0013	10.2	311	9 M 0029	12.2	372	24 Tu 0023	10.3	314
0618	-2.2	-67	0630	0.1	3	0652	-1.9	-58	0645	0.0	0
1232	11.5	351	1243	9.5	290	1308	10.9	332	1259	9.3	283
1838	-1.4	-43	1841	0.9	27	1908	-0.6	-18	1856	1.1	34
10 Su 0050	12.2	372	25 M 0050	10.1	308	10 Tu 0122	11.8	360	25 W 0103	10.3	314
0710	-2.0	-61	0709	0.2	6	0745	-1.5	-46	0727	0.1	3
1325	11.2	341	1322	9.3	283	1403	10.5	320	1341	9.3	283
1929	-1.0	-30	1921	1.1	34	2002	-0.1	-3	1939	1.1	34
11 M 0142	11.8	360	26 Tu 0129	10.0	305	11 W 0216	11.3	344	26 Th 0146	10.2	311
0804	-1.6	-49	0750	0.3	9	0839	-0.9	-27	0810	0.1	3
1420	10.7	326	1403	9.1	277	1459	10.1	308	1425	9.3	283
2023	-0.4	-12	2003	1.2	37	2057	0.4	12	2025	1.2	37
12 Tu 0237	11.3	344	27 W 0210	9.9	302	12 Th 0312	10.7	326	27 F 0232	10.1	308
0859	-1.0	-30	0834	0.5	15	0934	-0.3	-9	0857	0.1	3
1518	10.1	308	1448	9.0	274	1557	9.7	296	1512	9.3	283
2119	0.2	6	2048	1.4	43	2155	0.9	27	2115	1.1	34
13 W 0335	10.7	326	28 Th 0256	9.7	296	13 F 0411	10.1	308	13 M 0322	10.1	308
0958	-0.3	-9	0921	0.6	18	1032	0.3	9	0947	0.2	6
1619	9.6	293	1536	8.9	271	1656	9.4	287	1602	9.5	290
● 2218	0.7	21	2138	1.5	46	● 2255	1.3	40	2209	1.0	30
14 Th 0437	10.2	311	29 F 0346	9.7	296	14 Sa 0512	9.6	293	29 W 0416	10.0	305
1059	0.2	6	1013	0.6	18	1130	0.7	21	1040	0.2	6
1723	9.3	283	1627	8.9	271	1754	9.3	283	1655	9.8	299
2321	1.1	34	○ 2233	1.4	43	2356	1.4	43	● 2306	0.8	24
15 F 0541	9.8	299	30 Sa 0441	9.7	296	15 W 0613	9.3	283	30 M 0514	10.0	305
1203	0.6	18	1107	0.6	18	1227	1.0	30	1135	0.1	3
1827	9.1	277	1722	9.2	280	1851	9.3	283	1751	10.1	308
			2331	1.2	37				31 Tu 0006	0.4	12
									0614	10.1	308
									1232	0.0	0
									1847	10.6	323

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Boston, Massachusetts, 2016

Times and Heights of High and Low Waters

July				August				September			
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height
h m	ft	cm		h m	ft	cm		h m	ft	cm	
1 F 0146	-0.5	-15		16 Sa 0213	1.1	34		1 M 0326	-0.7	-21	
0757	10.0	305		0826	8.6	262		16 Tu 0312	0.3	9	
1402	-0.1	-3	Sa	1421	1.5	46	M	0942	9.9	302	Tu 1101
2018	11.5	351		2038	9.8	299		0926	9.2	280	10.1 308
								1524	0.8	24	1.0 3
								2137	10.5	320	2316 10.6 323
2 Sa 0244	-0.9	-27		17 Su 0301	0.7	21	2 Tu 0418	-0.8	-24	2 F 0528	
0857	10.1	308		0914	8.8	268	W 1034	10.0	305	1142 10.1 308	
1459	-0.2	-6	Su	1508	1.3	40	1630	0.0	0	1744 0.1 3	
2114	11.7	357		2124	10.1	308	● 2247	11.2	341	2358 10.4 317	
								2223	10.9	332	
3 Su 0340	-1.2	-37		18 M 0346	0.4	12	3 W 0507	-0.8	-24	3 Sa 0608	
0954	10.2	311		1000	9.0	274	1123	10.1	308	1221 10.1 308	
1553	-0.3	-9	M	1554	1.1	34	1719	0.0	0	1826 0.2 6	
2209	11.8	360		2208	10.4	317	2335	11.1	338	● 2309 11.1 338	
4 M 0434	-1.3	-40		19 Tu 0430	0.0	0	4 Th 0552	-0.7	-21	4 Su 0039	
1049	10.3	314		1044	9.3	283	1208	10.1	308	0647 0.2 6	
1646	-0.3	-9	Tu	1639	0.8	24	1806	0.0	0	1300 10.0 305	
● 2301	11.8	360	O	2251	10.6	323				1908 0.3 9	
5 Tu 0525	-1.3	-40		20 W 0513	-0.3	-9	5 F 0021	10.8	329	5 M 0120	
1141	10.4	317		1127	9.6	293	0636	-0.5	-15	0727 0.5 15	
1737	-0.2	-6	Su	1723	0.5	15	1252	10.1	308	1339 9.9 302	
2352	11.6	354		2334	10.8	329	1852	0.2	6	1950 0.6 18	
6 W 0614	-1.2	-37		21 Th 0555	-0.6	-18	6 Sa 0105	10.5	320	6 Tu 0202	
1231	10.3	314		1209	9.8	299	0719	-0.2	-6	0808 0.9 27	
1828	-0.1	-3	Th	1808	0.2	6	1334	10.0	305	1420 9.7 296	
								1937	0.4	12	2034 0.8 24
7 Th 0042	11.3	344		22 F 0018	11.0	335	7 Su 0149	10.1	308	7 W 0246	
0702	-0.9	-27		0639	-0.7	-21	0801	0.2	6	0851 1.2 37	
1320	10.2	311	M	1252	10.1	308	1417	9.8	299	1503 9.5 290	
1917	0.2	6		1855	0.0	0	2023	0.7	21	2121 1.1 34	
8 F 0131	10.8	329		23 Sa 0104	11.0	335	8 M 0234	9.7	296	8 Th 0334	
0749	-0.5	-15		0724	-0.8	-24	0845	0.6	18	0937 1.6 49	
1407	10.0	305	Sa	1337	10.3	314	1500	9.6	293	1451 11.1 338	
2006	0.5	15		1943	-0.1	-3	2110	1.0	30	2109 0.7 21	
9 Sa 0219	10.3	314		24 Su 0152	10.9	332	9 Tu 0321	9.2	280	9 W 0221	
0835	0.0	0		0811	-0.8	-24	0930	1.1	34	1009 1.6 49	
1454	9.8	299	Su	1424	10.5	320	1546	9.4	287	1627 1.8 55	
2056	0.9	27		2034	-0.1	-3	2159	1.3	40	● 2251 1.3 40	
10 Su 0308	9.8	299		25 M 0243	10.6	323	10 W 0411	8.8	268	10 Sa 0518	
0922	0.5	15		0900	-0.6	-18	1017	1.4	43	1120 1.9 58	
1542	9.6	293	M	1515	10.6	323	1634	9.3	283	1735 9.2 280	
2147	1.2	37		2128	-0.1	-3	● 2251	1.4	43	2359 1.4 43	
11 M 0359	9.3	283		26 Tu 0338	10.3	314	11 Th 0503	8.5	259	11 Sa 0617	
1010	0.9	27		0952	-0.3	-9	1107	1.7	52	1215 1.8 55	
1630	9.4	287	Tu	1608	10.7	326	1724	9.2	280	1837 1.0 311	
● 2240	1.4	43		● 2226	-0.1	-3	2345	1.5	46		
12 Tu 0451	8.9	271		27 W 0436	10.0	305	12 F 0558	8.3	253	12 M 0059	
1100	1.3	40		1048	-0.1	-3	1159	1.8	55	0721 9.4 287	
1720	9.3	283	W	1704	10.8	329	1817	9.3	283	1318 0.8 24	
2334	1.5	46		2326	-0.1	-3				1940 10.2 311	
13 W 0545	8.6	262		28 Th 0537	9.7	296	13 Sa 0040	1.4	43	12 M 0054	
1150	1.5	46		1146	0.1	3	0653	8.3	253	0709 8.6 262	
1810	9.3	283	Th	1803	10.8	329	1252	1.8	55	1310 1.5 46	
								1850	10.6	323	1924 9.7 296
14 Th 0028	1.5	46		29 F 0028	-0.2	-6	14 Su 0133	1.2	37	12 W 0054	
0640	8.5	259		0641	9.6	293	0747	8.5	259	0819 9.6 293	
1241	1.7	52	F	1245	0.3	9	1345	1.6	49	1417 0.7 21	
1901	9.4	287		1904	10.9	332	2001	9.7	296	2037 10.2 311	
15 F 0122	1.3	40		30 Sa 0130	-0.3	-9	15 M 0224	0.8	24	13 W 0147	
0734	8.5	259		0744	9.6	293	0838	8.8	268	0801 9.0 274	
1332	1.7	52	Sa	1345	0.3	9	1435	1.2	37	1403 1.1 34	
1950	9.6	293		2004	11.1	338	2050	10.1	308	2016 10.1 308	
31 Su 0230	-0.5	-15		31 W 0401	-0.3	-9	15 Th 0326	-0.3	-9	13 W 0252	
0845	9.7	296		1443	0.2	6	0929	9.8	299	0911 9.8 299	
2101	11.2	341	Su	1443	0.2	6	1525	0.3	9	1510 0.4 12	
								2144	10.7	326	2128 10.3 314

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Boston, Massachusetts, 2016

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		h m	ft cm				
1 Sa	0500	0.2 6		16 Su	0431 1042	-1.2 11.9	-37 363		1 Tu	0546 1156	0.8 10.2	24 311		16 W	0548 1200	-1.2 12.4	-37 378	
	1114	10.2 311			1804	-1.8 11.5	-55 351			1814	0.1 0.1	3 3			1208 1824	10.2 -2.2	311 -67	
	1721	0.1 3			2312	11.5	351								1829 1829	0.0 0.0	0 0	
2 Su	0538	0.4 12		17 M	0520 1751	-1.3 -2.0	-40 -61		2 W	0027 0625	9.4 1.0	287 30		17 Th	0039 0640	11.0 -0.9	335 -27	
	1150	10.2 311				1131	12.2	372			1234	10.1 0.2	308 6			1253 1917	12.1 -1.9	369 -58
	1800	0.1 3				1853	0.2	6							1909 1909	0.0 0.0	0 0	
3 M	0013	9.9 18		18 Tu	0003 0610	11.4 -1.3	347 -40		3 Th	0107 0704	9.2 1.2	280 37		18 F	0134 0734	10.7 -0.5	326 -15	
	0616	0.6 18				1221	12.3	375			1313	9.9 0.4	302 12			1347 2011	11.6 -1.3	354 -40
	1226	10.1 308				1843	-2.0	61							1951 1951	0.1 0.1	3 3	
4 Tu	0052	9.6 24		19 W	0056 0701	11.2 -1.0	341 -30		4 F	0148 0746	9.0 1.4	274 43		19 Sa	0230 0829	10.3 0.0	314 0	
	0654	0.8 24				1313	12.1	369			1354	9.8 0.6	299 18			1444 2017	11.0 -0.7	335 -21
	1304	10.0 305				1936	-1.7	52							2107 2107	-0.7 -0.7	-21 -21	
5 W	0132	9.3 34		20 Th	0151 0754	10.8 -0.5	329 -15		5 Sa	0231 0831	8.8 1.6	268 49		20 Su	0329 0927	9.9 0.5	302 15	
	0734	1.1 34				1408	11.7	357			1439	9.6 0.7	293 21			1544 2205	10.4 -0.2	317 -6
	1343	9.8 299				2031	-1.2	37							2122 2122	0.3 0.3	9 9	
6 Th	0215	9.0 43		21 F	0249 0850	10.3 0.0	314 0		6 Su	0318 0919	8.7 1.7	265 52		21 M	0429 1028	9.6 0.9	293 277	
	0816	1.4 43				1506	11.1	338			1527	9.4 0.8	287 24			1646 2304	9.8 0.3	299 9
	1426	9.6 27				2130	-0.7	21							2213 2213	0.3 0.3	9 9	
7 F	0301	8.8 52		22 Sa	0350 0949	9.9 0.5	302 15		7 M	0409 1012	8.7 1.7	265 52		22 Tu	0530 1131	9.4 1.1	287 34	
	0901	1.7 52				1607	10.6	323			1620	9.4 0.8	287 24			1749 2245	9.4 0.8	287 24
	1512	9.4 287				2231	-0.2	6							2307 2307	0.2 0.2	6 6	
8 Sa	0350	8.5 55		23 Su	0454 1052	9.6 0.9	293 27		8 Tu	0502 1108	8.9 1.5	271 46		23 W	0003 0629	0.7 9.4	21 287	
	0951	1.8 55				1712	10.1	308			1717	9.5 0.6	290 18			1234 1850	1.1 9.2	34 280
	1602	9.3 283				2334	0.2	6							1745 1850	9.2 9.2	280 280	
9 Su	0442	8.5 58		24 M	0558 1157	9.4 1.0	287 30		9 W	0556 1206	9.3 1.1	283 34		24 Th	0100 0723	0.9 9.5	27 290	
	1044	1.9 58				1818	9.9	302			1815	9.7 0.7	296 29			1333 1947	1.0 9.1	30 277
	1656	9.2 280													1947 1947	277 277	299 299	
10 M	0537	8.6 55		25 Tu	0036 0700	0.5 9.5	15 290		10 Th	0035 0650	0.3 9.8	9 299		25 F	0152 0812	1.0 9.7	30 296	
	1140	1.8 43				1301	1.0	30			1304	0.5 0.5	15 15			1425 2039	0.8 9.1	290 277
	1752	9.4 287				1920	9.7	296			1913	10.0 9.7	305 296			2039 2193	10.0 10.0	305 305
11 Tu	0016	1.0 271		26 W	0134 0756	0.5 9.6	15 293		11 F	0130 0744	-0.1 10.5	-3 320		26 Sa	0238 0857	1.0 9.8	30 299	
	0632	8.9 271				1359	0.8	24			1400	-0.2 -0.2	-6 -6			2125 2125	0.5 9.2	30 280
	1237	1.4 43				2017	9.7	296			2010	10.4 10.4	317 317			2044 2044	-1.1 -1.1	34 34
12 W	0110	0.6 287		27 Th	0226 0846	0.6 9.8	18 299		12 Sa	0223 0836	-0.5 11.2	-15 341		27 M	0321 0937	1.0 10.0	30 305	
	0725	9.4 287				1451	0.6	18			1455	-1.0 -1.0	-30 -30			1553 2207	0.3 9.2	280 280
	1333	0.8 24				2107	9.7	296			2105	10.8 10.8	329 329			2141 2141	9.2 10.6	323 323
13 Th	0203	0.1 305		28 F	0311 0929	0.6 10.0	18 305		13 Su	0315 0927	-0.9 11.8	-27 360		28 W	0401 1016	0.9 10.1	27 308	
	0816	10.0 305				1537	0.4	12			1548	-1.6 -1.6	-49 -49			1633 2247	0.1 9.2	30 280
	1426	0.1 3				2152	9.7	296			2159	11.1 11.1	338 338			2247 2247	9.2 9.2	280 280
14 F	0253	-0.4 326		29 Sa	0352 1008	0.6 10.1	18 308		14 M	0406 1018	-1.1 12.2	-34 372		29 Tu	0440 1053	0.9 10.2	27 311	
	0906	10.7 326				1618	0.2	6			1640	-2.1 -2.1	-64 -64			1711 2252	0.0 11.2	30 30
	1519	-0.6 -18				2232	9.7	296			2252	11.2 11.2	341 341			2326 2326	9.2 9.2	280 280
15 Sa	0343	-0.9 347		30 Su	0431 1044	0.6 10.2	18 311		15 Tu	0457 1109	-1.3 12.4	-40 378		30 W	0519 1130	0.9 10.2	27 311	
	0954	11.4 347				1657	0.1	3			1732	-2.3 -2.3	-70 -70			1750 1750	0.0 0.0	30 30
	1610	-1.3 -40				2311	9.6	293			2346	11.2 11.2	341 341			1807 1807	-2.1 -2.1	34 34
16 O	0221	11.3 344		31 M	0508 1120	0.7 10.2	21 311								31 Sa	0019 0614	9.2 0.6	280 18
						1736	0.1	3			1736	0.1	3			1224 1224	10.3	314
						2349	9.5	290							1845 1845	-0.4	-12	

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Nantucket, Massachusetts, 2016

Times and Heights of High and Low Waters

January				February				March															
Time	Height	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 F	0511 1100 1722 2321	3.0 0.6 2.9 0.4	91 18 88 12	16 Sa ○	0455 1044 1718 2305	3.5 -0.1 3.2 -0.2	107 -3 98 -6	1 M	0557 1208 1825	3.1 0.5 2.5	94 15 76	16 Tu	0631 1236 1913	3.7 -0.1 2.8	113 -3 85	1 Tu	0513 1125 1748 ○	3.1 0.3 2.5 0.6	94 9 76 18	16 W	0612 1217 1859	3.6 -0.2 2.8	110 -6 85
2 Sa ○	0557 1157 1814	3.0 0.6 2.7	91 18 82	17 Su	0552 1147 1820	3.6 -0.1 3.1	110 -3 94	2 Tu	0011 0645 1302 1918	0.6 3.1 0.4 2.5	18 94 12 76	17 W	0042 0733 1340 2019	0.1 3.7 -0.1 2.8	3 113 -3 85	2 W	0603 1217 1840	3.1 0.3 2.5	94 9 76	17 Th	0025 0715 1320 2004	0.2 3.5 -0.1 2.8	6 107 -3 85
3 Su	0010 0644 1253 1907	0.5 3.1 0.5 2.6	15 94 15 79	18 M	0002 0650 1252 1924	-0.1 3.7 -0.1 2.9	-3 113 -3 88	3 W	0059 0735 1354 2011	0.6 3.2 0.4 2.4	18 98 12 73	18 Th	0142 0835 1440 2122	0.2 3.6 -0.1 2.8	6 110 -3 85	18 F	0127 0818 1420 2105	0.3 3.4 0.0 2.8	9 104 0 85				
4 M	0057 0731 1347 2000	0.5 3.2 0.5 2.5	15 98 15 76	19 Tu	0059 0749 1355 2029	0.0 3.8 -0.2 2.8	0 116 -6 85	4 Th	0148 0825 1443 2103	0.5 3.3 0.3 2.5	15 101 9 76	19 F	0240 0934 1535 2219	0.2 3.6 -0.1 2.8	6 110 -3 85	19 Sa	0227 0919 1514 2159	0.3 3.3 0.1 2.9	9 101 3 88				
5 Tu	0144 0818 1437 2053	0.6 3.2 0.4 2.5	18 98 12 76	20 W	0157 0848 1455 2133	0.0 3.8 -0.2 2.8	0 116 -6 85	5 F	0236 0914 1530 2154	0.5 3.4 0.1 2.6	15 104 3 79	20 Sa	0335 1028 1626 2310	0.2 3.6 -0.1 2.8	6 110 -3 85	20 Su	0323 1013 1601 2246	0.3 3.3 0.1 2.9	9 101 3 88				
6 W	0229 0904 1524 2142	0.6 3.3 0.3 2.5	18 101 9 76	21 Th	0254 0945 1551 2232	0.1 3.8 -0.3 2.8	3 116 -9 85	6 Sa	0323 1003 1615 2242	0.3 3.5 0.0 2.7	9 107 0 82	21 Su	0427 1118 1711 2354	0.2 3.5 -0.1 2.9	6 107 -3 88	21 M	0254 0933 1540 2208	0.2 3.5 -0.1 2.9	6 110 -3 88				
7 Th	0313 0949 1607 2230	0.5 3.4 0.1 2.6	15 104 3 79	22 F	0348 1039 1643 2326	0.1 3.8 -0.3 2.9	3 116 -9 88	7 Su	0411 1052 1700 2329	0.2 3.7 -0.2 2.8	6 113 -9 85	22 M	0515 1202 1753 ○	0.2 3.4 0.0 -6	6 104 0 94	22 Tu	0346 1025 1628 2257	0.0 3.6 -0.2 3.1	0 110 -6 94	22 W	0459 1143 1724 1802	0.2 3.1 0.2 0.2	6 94 6 6
8 F	0356 1034 1649 2316	0.5 3.5 0.0 2.6	15 107 0 79	23 Sa	0440 1130 1731	0.1 3.8 -0.3	3 116 -9	8 M	0500 1141 1745	0.0 3.7 -0.3	0 113 -9	23 Tu	0033 0601 1243 1833	2.9 0.1 3.3 0.0	88 3 101 0	23 W	0001 0542 1222 1802	3.0 0.1 3.0 -0.5	91 3 91 6				
9 Sa	0439 1119 1731	0.4 3.6 -0.1	12 110 -3	24 ○	0014 0530 1217 1817	2.9 0.1 3.7 -0.2	88 3 113 -6	9 Tu	0017 0550 1230 1830	3.0 -0.1 3.8 -0.4	91 -3 116 -12	24 ●	0109 0645 1322 1912	2.9 0.1 3.2 0.1	88 3 98 3	24 Th	0035 0624 1259 1839	3.1 0.1 3.0 0.3	94 3 91 9				
10 Su	0001 0524 1204 1813	2.7 0.3 3.7 -0.2	82 9 113 -6	25 M	0059 0618 1302 1901	2.9 0.2 3.6 -0.2	88 6 110 -6	10 W	0104 0641 1302 1917	3.2 -0.3 3.8 -0.5	98 -9 116 -15	10 Th	0144 0729 1401 1951	3.0 0.2 3.1 0.2	91 6 94 6	25 F	0036 0624 1304 1850	3.5 -0.6 3.7 -0.5	107 -18 113 -15	25 Th	0109 0705 1337 1917	3.1 0.1 2.9 0.3	94 3 88 9
11 M	0046 0610 1250 1857	2.8 0.2 3.8 -0.3	85 6 116 -9	26 Tu	0140 0706 1345 1943	2.9 0.2 3.4 -0.1	88 6 104 -3	11 Th	0153 0734 1413 2005	3.4 -0.4 3.7 -0.5	104 -12 113 -15	26 F	0221 0813 1442 2031	3.0 0.2 3.0 0.3	91 6 91 9	11 F	0127 0719 1358 1940	3.7 -0.7 3.6 -0.5	113 -21 110 -15	26 Sa	0145 0746 1416 1955	3.1 0.1 2.8 0.4	94 3 85 12
12 Tu	0132 0658 1339	2.9 0.1 3.8	88 3 116	27 W	0220 0753 1427 2026	2.9 0.2 3.3 0.0	88 6 101 0	12 F	0244 0829 1508 2055	3.5 -0.4 3.5 -0.4	107 -12 85 -12	12 Sa	0300 0858 1524 2112	3.1 0.2 2.8 0.3	94 6 85 9	27 Su	0223 0828 1458 2032	3.2 0.1 2.8 -0.4	98 3 85 15				
13 W	0220 0750 1429 2029	3.1 0.0 3.7 -0.4	94 0 113 -12	28 Th	0300 0841 1510 2108	3.0 0.3 3.1 0.1	91 9 94 3	13 Sa	0337 0927 1605 2148	3.6 -0.3 3.3 -0.3	110 -9 101 -9	13 Su	0342 0945 1610 2154	3.1 0.3 2.7 0.4	94 9 82 12	28 M	0305 0912 1542 2116	3.2 0.1 2.7 0.5	98 3 82 15				
14 Th	0309 0844 1523 2119	3.2 0.0 3.6 -0.3	98 0 110 -9	29 F	0341 0930 1555 2152	3.0 0.4 2.9 0.3	91 12 88 9	14 Su	0433 1028 1705 2243	3.7 -0.3 3.1 -0.1	113 -9 94 -3	29 M	0426 1034 1658 2239	3.1 0.3 2.6 0.5	94 9 94 15	14 M	0411 1012 1652 2223	3.8 -0.4 3.1 -0.1	116 -12 94 -3	29 Tu	0348 0958 1628 2200	3.2 0.2 2.6 0.6	98 6 79 18
15 F	0401 0942 1619 2211	3.4 -0.1 3.4 -0.3	104 -3 104 -9	30 Sa	0424 1021 1643 2237	3.0 0.4 2.8 0.4	91 12 85 12	15 M	0531 1131 1808 2342	3.7 -0.2 3.0 0.0	113 -6 91 0	15 M	0510 1114 1754 2323	3.7 -0.3 2.9 0.1	113 -9 88 3	30 W	0435 1046 1717 2248	3.2 0.2 2.6 0.6	98 6 79 18				
				31 ○	0509 1114 1733 2323	3.0 0.5 2.6 0.5	91 15 79 15					31 ○	0525 1137 1807 2340	3.2 0.2 2.6 0.5	98 6 79 15								

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Nantucket, Massachusetts, 2016

Times and Heights of High and Low Waters

April				May				June									
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height						
h m 0617 F 1230 1859	ft 3.2 0.2 2.6	cm 98 6 79	16 Sa 0110 0754 1351 2038	ft 0.4 3.2 0.1 3.0	cm 12 98 3 91	1 Su 0008 0642 1247 1922	ft 0.4 3.3 0.0 3.0	cm 12 101 0 91	16 M 0146 0819 1405 2049	ft 0.5 2.9 0.4 3.1	cm 15 88 12 94	1 W 0149 0817 1404 2044	ft -0.1 3.2 -0.1 3.8	cm -3 98 -3 116	16 Th 0259 0920 1454 2129	ft 0.4 2.6 0.6 3.4	cm 12 79 18 104
2 Sa 0035 0712 1322 1952	0.5 3.3 0.1 2.7	15 Su 0210 0854 1443 2129	0.4 3.1 0.2 3.0	2 M 0108 0739 1340 2015	0.2 3.3 -0.1 3.3	6 Tu 101 101 -3 101	17 Tu 0241 0913 1451 2131	0.4 2.8 0.4 3.2	12 85 12 98	2 Th 0249 0918 1458 2138	-0.3 3.2 -0.1 4.0	-9 98 -3 122	17 F 0346 1008 1536 2211	0.4 2.6 0.7 3.4	12 79 21 104		
3 Su 0132 0808 1414 2044	0.3 3.3 0.0 2.9	9 M 0306 0949 1529 2213	0.3 3.0 0.3 3.0	3 Tu 0207 0838 1433 2107	0.0 3.3 -0.1 3.5	0 101 -3 107	18 W 0331 1002 1534 2211	0.3 2.7 0.5 3.2	9 82 15 98	3 F 0346 1019 1552 2233	-0.4 3.2 -0.1 4.2	-12 98 -3 128	18 Sa 0428 1053 1617 2252	0.3 2.6 0.7 3.5	9 79 21 107		
4 M 0229 0904 1505 2136	0.1 3.4 -0.1 3.2	3 W 0355 1036 1611 2251	0.3 2.9 0.3 3.1	4 W 0306 0938 1525 2200	-0.3 3.3 -0.2 3.8	-9 101 -6 116	19 Th 0416 1047 1614 2248	0.3 2.7 0.6 3.3	9 82 18 101	4 Sa 0442 1118 1645 2328	-0.6 3.2 -0.1 4.3	-18 98 -3 131	19 Su 0509 1136 1658 2333	0.2 2.6 0.7 3.5	6 79 21 107		
5 Tu 1000 1555 2227	-0.2 -0.3 -0.4	20 W 0440 1119 1651 2326	0.2 2.9 0.4 3.1	5 Th 0402 1036 1616 2254	-0.5 3.4 -0.3 4.0	-15 104 -9 122	20 F 0458 1128 1653 2325	0.2 2.7 0.6 3.4	6 82 18 104	5 Su 0537 1216 1738	-0.6 3.2 -0.1	-18 98 -3	20 M 0548 1218 1738 O	0.1 2.7 0.6	3 82 18 O		
6 W 1056 1645 2318	-0.4 -0.4 -1.2	21 Th 0522 1157 1728	0.1 2.8 0.4	6 F 0458 1134 1708 2347	-0.7 3.4 -0.3 4.1	-21 104 -9 125	21 Sa 0537 1208 1731 O	0.1 2.7 0.6	3 82 18 0	6 M 0022 0630 1312 1832	4.3 -0.6 3.2 0.0	131 98 0 0	21 Tu 0015 0628 1301 1819	3.6 0.1 2.7 0.6	110 3 82 18		
7 Th 1152 1734	-0.6 -0.4	22 F 0000 0602 1235 O	3.2 0.1 2.8 0.5	7 Sa 0553 1231 1800 1806	-0.8 3.3 -0.3 15	-24 101 -9 15	22 Su 0003 1231 1800 1806	3.4 3.3 -0.3	104 101 -9 15	7 Tu 0116 0723 1406 1810	4.2 -0.6 3.2 0.6	128 -18 98 18	22 W 0057 0708 1343 1902	3.6 0.0 2.8 0.5	110 0 85 15		
8 F 0010 0608 1247 1824	3.9 -0.8 3.5 -0.4	23 Sa 0035 0641 1313 1843	3.2 0.1 2.8 0.5	8 Su 0041 0647 1328 1853	4.2 -0.8 3.3 -0.2	128 104 -24 -6	23 M 0043 0655 1328 1849	3.4 0.0 2.7 0.6	104 0 82 18	8 W 0210 0815 1500 2021	4.0 -0.4 3.2 0.2	122 -12 98 6	23 Th 0141 0749 1427 1948	3.6 0.0 2.9 0.5	110 0 88 15		
9 Sa 0103 0703 1343 1916	4.0 -0.8 3.4 -0.4	24 Su 0112 0721 1353 1921	3.3 0.0 2.7 0.5	9 M 0135 0741 1424 1947	4.2 -0.7 3.2 -0.1	128 101 -24 -3	24 Tu 0123 0735 1410 1929	3.5 0.0 2.7 0.6	107 0 82 18	9 Th 0304 0908 1553 2117	3.8 -0.3 3.2 0.3	116 98 98 9	24 F 0227 0833 1512 2038	3.6 -0.1 3.0 0.4	110 -3 91 12		
10 Su 0156 0758 1439 2009	4.1 -0.8 3.3 -0.2	25 M 0151 0801 1434 2000	3.3 0.0 2.7 0.6	10 Tu 0230 0836 1521 2043	4.1 -0.6 3.2 0.1	125 125 -18 3	25 W 0205 0816 1453 2013	3.5 0.0 2.7 0.6	107 0 82 18	10 F 0357 1000 1646 2216	3.6 -0.1 3.1 0.4	110 -3 94 12	25 Sa 0316 0918 1600 2131	3.6 -0.1 3.1 0.4	110 -3 94 12		
11 M 0252 0855 1537 2104	4.0 -0.7 3.2 -0.1	26 Tu 0233 0843 1517 2042	3.3 0.0 2.7 0.6	11 W 0327 0932 1618 2141	3.9 -0.4 3.1 0.2	119 112 -12 6	26 Th 0250 0859 1538 2100	3.5 0.0 2.8 0.6	107 0 85 18	11 Sa 0451 1052 1737 2315	3.4 0.1 3.1 0.5	104 3 94 15	26 Su 0407 1007 1649 2229	3.5 -0.1 3.3 0.3	107 -3 101 9		
12 Tu 0349 0953 1637 2202	3.9 -0.5 3.1 0.1	27 W 0316 0927 1603 2127	3.3 0.1 2.7 0.6	12 Th 0424 1029 1715 2241	3.7 -0.2 3.1 0.3	113 -6 94 9	27 F 0337 0945 1625 2151	3.4 0.0 2.9 0.5	104 0 88 15	12 Su 0546 1144 1827 O	3.1 0.2 3.2 0	94 6 98 6	27 M 0502 1057 1740 2329	3.4 -0.1 3.5 0.2	104 -3 107 6		
13 W 0448 1053 1738 O	3.7 -0.3 3.0 0.2	28 Th 0403 1013 1650 2216	3.3 0.1 2.7 0.6	13 F 0522 1126 1813 O	3.5 0.0 3.0 0.4	107 0 91 12	28 Sa 0427 1033 1713 2247	3.4 0.0 3.0 0.4	104 0 91 12	13 M 0015 0641 1234 1916	0.6 3.0 0.4 3.2	18 91 98 98	28 Tu 0559 1151 1834	3.3 0.0 3.7	101 0 113		
14 Th 0549 1154 1840	3.6 -0.1 2.9	29 F 0453 1103 1739 O	3.3 0.1 2.7 0.5	14 Sa 0622 1222 1908 2311	3.2 0.1 3.1 0.5	98 3 94 15	29 Su 0521 1124 1804 O	3.4 0.0 3.2 0.3	104 0 98 9	14 Tu 0114 0736 1323 2002	0.6 2.8 0.5 3.2	18 85 15 98	29 W 0031 0659 1245 1929	0.1 3.2 0.0 3.8	3 98 0 116		
15 F 0007 0652 1254 1941	0.3 3.4 0.0 2.9	30 Sa 0546 1154 1830	3.3 0.1 2.9	15 Su 0046 0721 1315 2001	0.5 3.1 0.3 3.1	15 19 9 94	30 M 0617 1217 1856 2001	3.3 0.0 3.4 0.3	101 0 104 104	15 W 0209 0829 1410 2046	0.5 2.7 0.6 3.3	15 82 18 101	30 Th 0133 0801 1341 2025	0.0 3.1 0.0 4.0	0 94 0 122		
31 Tu 0048 0717 1310 1950	0.1 3.2 -0.1 3.6						31 Tu 0048 0717 1310 1950	0.1 3.2 -0.1 3.6	3 98 -3 110								

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Nantucket, Massachusetts, 2016

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 3.1 94 0904 0.0 0 1437 4.1 125	0.2	-6	16 Sa 0309 107	0.5	15	1 M 0412 21	-0.1	-3	16 Tu 0359 21	0.3	9
	3.1	94	0927 107	2.6	79	1052 21	3.1	94	1023 21	2.8	85
	0.0	0	1459 21	0.7	21	1612 21	0.2	6	1555 21	0.5	15
	4.1	125	2134 21	3.5	107	2302 21	4.0	122	2233 21	3.7	113
2 Sa 0332 3.1 94 1005 0.0 0 1532 4.2 128	-0.3	-9	17 Su 0354 21	0.4	12	2 Tu 0504 21	-0.1	-3	17 W 0441 21	0.2	6
	3.1	94	1015 21	2.6	79	1145 21	3.1	94	1109 21	3.0	91
	0.0	0	1542 21	0.7	21	1705 21	0.2	6	1641 21	0.4	12
	4.2	128	2219 21	3.6	110	2353 21	4.0	122	2321 21	3.8	116
3 Su 0427 3.1 94 1105 0.0 0 1627 4.2 128	-0.4	-12	18 M 0436 21	0.3	9	3 W 0552 21	-0.1	-3	18 Th 0524 21	0.1	3
	3.1	94	1100 21	2.7	82	1234 21	3.2	98	1154 21	3.1	94
	0.0	0	1625 21	0.6	18	1756 21	0.2	6	1729 21	0.2	6
	4.2	128	2303 21	3.6	110	● 2348 21	3.7	113	○ 1912 21	0.3	9
4 M 0521 3.1 94 1201 0.1 3	-0.4	-12	19 Tu 0516 21	0.2	6	4 Th 0042 21	3.9	119	19 F 0008 21	3.8	116
	3.1	94	1145 21	2.8	85	0638 21	0.0	0	0607 21	0.0	0
	0.1	3	1708 21	0.6	18	1320 21	3.2	98	1240 21	3.3	101
	●	3	○ 2348 21	3.7	113	1846 21	0.3	9	1818 21	0.1	3
5 Tu 0007 3.1 94 0612 0.4 -12 1254 3.1 94 1813 0.1 3	4.2	128	20 W 0557 21	0.1	3	5 F 0129 21	3.7	113	20 Sa 0057 21	3.8	116
	-0.4	-12	1229 21	2.9	88	0723 21	0.1	3	0652 21	-0.1	-3
	3.1	94	1752 21	0.5	15	1403 21	3.2	98	1327 21	3.5	107
	0.1	3	1935 21	0.3	9	1935 21	0.3	9	1909 21	0.0	0
6 W 0059 3.1 94 0702 0.3 -9 1345 3.2 98 1906 0.2 6	4.1	125	21 Th 0033 21	3.8	116	6 Sa 0214 21	3.5	107	21 Su 0148 21	3.8	116
	-0.3	-9	0638 21	0.0	0	0807 21	0.2	6	0738 21	-0.1	-3
	3.2	98	1313 21	3.0	91	1445 21	3.3	101	1416 21	3.7	113
	0.2	6	1839 21	0.4	12	2025 21	0.4	12	2002 21	-0.1	-3
7 Th 0150 3.9 119 0751 0.2 -6 1435 3.2 98 1958 0.3 9	3.9	119	22 F 0119 21	3.8	116	7 Su 0259 21	3.4	104	22 M 0241 21	3.7	113
	-0.2	-6	0721 21	-0.1	-3	0851 21	0.3	9	0826 21	-0.1	-3
	3.2	98	1358 21	3.2	98	1527 21	3.3	101	1507 21	3.8	116
	0.3	9	1927 21	0.3	9	2115 21	0.5	15	2058 21	-0.1	-3
8 F 0239 3.7 113 0839 0.1 -3 1522 3.2 98 2052 0.4 12	3.7	113	23 Sa 0207 21	3.7	113	8 M 0344 21	3.2	98	23 Th 0336 21	3.5	107
	-0.1	-3	0806 21	-0.1	-3	0936 21	0.4	12	0917 21	0.0	0
	3.2	98	1445 21	3.3	101	1610 21	3.3	101	1601 21	3.9	119
	0.4	12	2019 21	0.2	6	2206 21	0.5	15	2157 21	-0.1	-3
9 Sa 0329 3.5 107 0927 0.1 3 1609 3.2 98 2146 0.5 15	3.5	107	24 Su 0257 21	3.7	113	9 Tu 0431 21	3.0	91	9 W 0434 21	3.4	104
	0.1	3	0852 21	-0.1	-3	1022 21	0.6	18	1012 21	0.1	3
	3.2	98	1533 21	3.5	107	1655 21	3.3	101	1657 21	4.0	122
	0.5	15	2114 21	0.1	3	2259 21	0.6	18	● 2258 21	0.0	0
10 Su 0418 3.3 101 1015 0.2 6 1655 3.2 98 2242 0.6 18	3.3	101	25 M 0351 21	3.6	110	10 W 0520 21	2.9	88	10 Th 0534 21	3.2	98
	0.2	6	0941 21	-0.1	-3	1109 21	0.7	21	1109 21	0.2	6
	3.2	98	1625 21	3.6	110	1741 21	3.3	101	1756 21	4.0	122
	0.6	18	2212 21	0.1	3	○ 2353 21	0.6	18	● 2353 21	0.6	18
11 M 0508 3.1 94 1103 0.4 12 1741 3.2 98 ● 2338 0.6 18	3.1	94	26 Tu 0447 21	3.4	104	11 Th 0611 21	2.8	85	11 Sa 0001 21	0.0	0
	0.4	12	1033 21	0.0	0	1157 21	0.8	24	0637 21	3.1	94
	3.2	98	1718 21	3.8	116	1829 21	3.3	101	1208 21	0.3	9
	0.6	18	○ 2313 21	0.1	3	● 2353 21	0.6	18	1857 21	4.0	122
12 Tu 0559 2.9 88 1152 0.5 15 1828 3.3 101	2.9	88	27 W 0546 21	3.3	101	12 F 0047 21	0.6	18	12 M 0146 21	0.5	15
	0.5	15	1128 21	0.1	3	0703 21	2.7	82	0809 21	2.8	85
	3.3	101	1814 21	3.9	119	1246 21	0.8	24	1347 21	0.7	21
	1.1	101	1912 21	4.0	122	1919 21	3.4	104	2022 21	3.5	107
13 W 0035 0.6 18 0651 2.8 85 1240 0.6 18 1914 3.3 101	0.6	18	28 Th 0016 21	0.0	0	13 Sa 0139 21	0.6	18	13 Tu 0234 21	0.4	12
	2.8	85	0647 21	3.1	94	0755 21	2.7	82	0844 21	3.1	94
	0.6	18	1225 21	0.1	3	1334 21	0.8	24	1409 21	0.3	9
	3.3	101	1912 21	4.0	122	2009 21	3.4	104	2100 21	3.9	119
14 Th 0130 0.6 18 0744 2.7 82 1328 0.7 21 2001 3.4 104	0.6	18	29 F 0119 21	0.0	0	14 Su 0229 21	0.5	15	14 W 0104 21	0.3	9
	2.7	82	0750 21	3.1	94	0846 21	2.7	82	0741 21	3.1	94
	0.7	21	1323 21	0.2	6	1422 21	0.8	24	1309 21	0.3	9
	3.4	104	2011 21	4.0	122	2058 21	3.5	107	2157 21	3.9	119
15 F 0221 0.5 15 0836 2.6 79 1414 0.7 21 2048 3.4 104	0.5	15	30 Sa 0220 21	-0.1	-3	15 M 0315 21	0.4	12	15 Tu 0355 21	0.1	3
	2.6	79	0853 21	3.0	91	0936 21	2.7	82	1038 21	3.2	98
	0.7	21	1421 21	0.2	6	1509 21	0.7	21	1600 21	0.3	9
	3.4	104	2110 21	4.1	125	2146 21	3.6	110	2251 21	3.8	116
31 Su 0318 0.1 -3 0955 3.0 91 1517 0.2 6 2207 4.1 125	0.1	-3	31 W 0318 21	-0.1	-3	31 W 0444 21	0.1	3	31 W 1126 21	3.2	98
	3.0	91	1517 21	0.2	6	1517 21	0.3	9	1651 21	0.3	9
	4.1	125	2207 21	4.1	125	2340 21	3.7	113	2340 21	3.7	113

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Nantucket, Massachusetts, 2016

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	0006	3.3 101		16 Su	0505 -0.1 -3		1 Tu	0059 2.9 88	16 W	0056 3.4 104	
	0541	0.4 12		1140 4.0 122	0626 0.7 21		0623 -0.2 -6	0634 0.7 21	0112 2.7 82	0135 3.2 98	
	1217	3.4 104		1741 -0.5 -15	1255 3.4 104		1304 4.4 134	1306 3.5 107	0658 -0.1 -3	0658 -0.1 -3	
	1807	0.2 6			1906 0.2 6		1912 -0.7 -21	1920 0.1 3	1342 4.2 128	1342 4.2 128	
2 Su	0045	3.2 98		17 M	0017 3.6 110		2 W	0138 2.8 85	17 Th	0153 3.3 101	
	0620	0.5 15		0555 -0.2 -6	0704 0.7 21		0717 -0.1 -3	0713 0.7 21	0153 2.7 82	0230 3.2 98	
	1252	3.4 104		1231 4.2 128	1333 3.4 104		1400 4.3 131	1347 3.5 107	0753 0.0 0	0753 0.0 0	
	1849	0.2 6		1835 -0.6 -18	1946 0.2 6		2007 -0.6 -18	2000 0.1 3	1437 4.0 122	1437 4.0 122	
3 M	0123	3.1 94		18 Tu	0112 3.5 107		3 Th	0218 2.8 85	18 F	0250 3.3 101	
	0659	0.6 18		0645 -0.1 -3	0744 0.8 24		0813 0.0 0	1457 4.1 125	0235 2.7 82	0325 3.2 98	
	1328	3.4 104		1325 4.3 131	1415 3.4 104		1457 -0.5 -15	2103 0.1 3	0850 0.1 3	0850 0.1 3	
	1931	0.3 9		1929 -0.6 -18	2028 0.2 6				1430 3.4 104	1532 3.7 113	
4 Tu	0203	3.0 91		19 W	0209 3.5 107		4 F	0301 2.8 85	19 Sa	0348 3.2 98	
	0738	0.6 18		0738 -0.1 -3	0826 0.8 24		0911 0.2 6	1556 3.9 119	0319 2.8 85	0420 3.2 98	
	1406	3.4 104		1420 4.3 131	1459 3.4 104		2200 -0.3 -9	2124 0.1 3	0840 0.7 21	0949 0.3 9	
	2014	0.3 9		2025 -0.5 -15	2111 0.2 6				1516 3.4 104	1628 3.5 107	
5 W	0244	2.9 88		20 Th	0307 3.4 104		5 Sa	0346 2.8 85	20 Su	0447 3.2 98	
	0819	0.7 21		0833 0.1 3	0911 0.8 24		1013 0.3 9	1656 3.7 113	0404 2.8 85	0514 3.2 98	
	1448	3.4 104		1517 4.2 128	1545 3.3 101		2258 -0.1 -3	2210 0.1 3	0929 0.6 18	1050 0.4 12	
	2058	0.3 9		2123 -0.4 -12	2157 0.3 9				1604 3.3 101	1725 3.2 98	
6 Th	0328	2.9 88		21 F	0406 3.3 101		6 Su	0433 2.8 85	21 M	0546 3.2 98	
	0901	0.8 24		0931 0.2 6	0959 0.8 24		1117 0.4 12	1757 3.4 104	0451 2.9 88	0607 3.2 98	
	1532	3.4 104		1617 4.0 122	1634 3.3 101		2355 0.1 3		1023 0.6 18	1152 0.4 12	
	2144	0.4 12		2223 -0.2 -6	2244 0.3 9				1656 3.3 101	1823 3.0 91	
7 F	0415	2.8 85		22 Sa	0508 3.2 98		7 M	0522 2.8 85	22 Tu	0645 3.2 98	
	0947	0.9 27		1033 0.3 9	1052 0.8 24		1221 0.5 15	1859 3.2 98	0540 3.1 94	0013 0.3 9	
	1619	3.3 101		1719 3.8 116	1726 3.3 101				1121 0.4 12	0659 3.2 98	
	2232	0.4 12		23 O	2324 -0.1 -3		7 W	2334 0.3 9	23 Th	1751 3.2 98	
8 Sa	0503	2.8 85		23 Su	0610 3.2 98		22 O	0611 2.9 88	22 F	0540 3.1 94	
	1035	0.9 27		1137 0.4 12	1148 0.7 21		1221 0.5 15	1848 3.1 94	0749 3.2 98	0104 0.4 12	
	1709	3.3 101		1823 3.7 113	1820 3.3 101		1859 3.2 98	2000 3.1 94	1353 0.4 12	0749 3.2 98	
	2322	0.5 15							1848 3.1 94	2018 2.7 82	
9 Su	0553	2.8 85		24 M	0025 0.1 3		9 W	0024 0.2 6	24 Th	0143 0.3 9	
	1126	0.9 27		0712 3.2 98	0701 3.1 94		0832 3.3 101	1423 0.4 12	0042 0.0 0	0153 0.5 15	
	1800	3.3 101		1242 0.5 15	1246 0.5 15		1423 0.4 12	2057 2.9 88	0722 3.5 107	0835 3.3 101	
	2322	0.5 15		1926 3.5 107	1915 3.3 101		2057 2.9 88	1947 3.1 94	1321 0.1 3	1446 0.4 12	
10 M	0013	0.5 15		25 Tu	0123 0.2 6		10 F	0115 0.2 6	25 F	0232 0.4 12	
	0643	2.8 85		0811 3.3 101	0751 3.3 101		0917 3.3 101	1515 0.3 9	0135 0.0 0	0240 0.6 18	
	1220	0.8 24		1345 0.5 15	1343 0.3 9		1515 0.3 9	2149 2.8 85	0815 3.7 113	0919 3.3 101	
	1853	3.3 101		2028 3.4 104	2012 3.3 101				1420 -0.1 -3	1534 0.3 9	
11 Tu	0104	0.4 12		26 W	0217 0.3 9		11 Sa	0206 0.1 3	26 M	0229 -0.1 -3	
	0734	2.9 88		0905 3.3 101	0841 3.6 110		0958 3.4 104	1602 0.3 9	0908 4.0 122	0324 0.6 18	
	1315	0.6 18		1443 0.4 12	1440 0.0 0		1602 0.3 9	2235 2.8 85	1518 -0.4 -12	1000 3.4 104	
	1947	3.4 104		2126 3.3 101	2109 3.3 101				2147 3.1 94	1618 0.2 6	
12 W	0153	0.3 9		27 Th	0305 0.4 12		12 Sa	0257 0.0 0	27 Tu	0358 0.6 18	
	0823	3.1 94		0952 3.3 101	0932 3.8 116		1035 3.4 104	1644 0.2 6	0322 -0.1 -3	0406 0.6 18	
	1409	0.4 12		1535 0.3 9	1536 -0.3 -9		1644 0.2 6	2316 2.7 82	1041 3.4 104	1041 3.4 104	
	2041	3.5 107		2217 3.2 98	2206 3.4 104				1644 0.2 6	1658 0.2 6	
13 Th	0242	0.2 6		28 F	0350 0.4 12		13 Su	0348 -0.1 -3	28 W	0438 0.6 18	
	0912	3.3 101		1033 3.4 104	1024 4.1 125		1112 3.4 104	1724 0.2 6	0416 -0.2 -6	0446 0.6 18	
	1502	0.2 6		1622 0.3 9	1630 -0.5 -15		1724 0.2 6	2355 2.7 82	1057 4.3 131	1121 3.4 104	
	2135	3.5 107		2303 3.1 94	2303 3.4 104				1708 -0.7 -21	1737 0.1 3	
14 F	0329	0.1 3		29 Sa	0430 0.5 15		14 M	0438 -0.2 -6	29 Tu	0516 0.6 18	
	1001	3.6 110		1109 3.4 104	1116 4.3 131		1148 3.5 107	1803 0.1 3	0509 -0.2 -6	0526 0.6 18	
	1555	-0.1 -3		1705 0.2 6	1724 -0.7 -21				1152 4.3 131	1201 3.5 107	
	2229	3.6 110		2343 3.0 91	2359 3.4 104		29	1803 0.1 3	1802 -0.7 -21	1815 0.1 3	
15 Sa	0417	0.0 0		30 Su	0509 0.6 18		15 Tu	0530 -0.2 -6	30 W	0033 2.7 82	
	1050	3.8 116		1143 3.4 104	1209 4.4 134		1818 0.7 21	1226 3.5 107	0603 -0.2 -6	0045 2.6 79	
	1648	-0.3 -9		1746 0.2 6	1818 -0.7 -21				1247 4.3 131	1242 3.5 107	
	2323	3.6 110					15	1841 0.1 3	1855 -0.7 -21	1853 0.0 0	
31 M	0021	2.9 88		31 M	0548 0.6 18		15	0040 3.2 98	30 Th	0045 2.6 79	
	0548	0.6 18		1218 3.4 104	1226 3.5 107		0555 0.7 21	1247 4.3 131	0605 0.5 15	0646 0.5 15	
	1218	3.4 104		1826 0.2 6	1841 0.1 3				1247 4.3 131	1323 3.5 107	
	1826	0.2 6					15	1855 -0.7 -21	1853 0.0 0	1931 0.0 0	

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Woods Hole, Massachusetts, 2016

Times and Heights of High and Low Waters

January				February				March									
Time	Height	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 F	0054	1.5	46	16	0047	2.0	61	1	0201	1.4	43	16	0203	1.9	58		
0912	0.6	18	Sa	0826	-0.1	-3	M	0906	0.5	15	Tu	1032	-0.2	-6			
1314	1.4	43	Sa	1309	1.8	55		1413	1.1	34		1443	1.4	43			
2104	0.4	12	●	2037	-0.2	-6		1659	0.6	18		2232	-0.1	-3			
												1817*	0.7	21			
2	0148	1.5	46	17	0146	2.0	61	2	0258	1.4	43	17	0330	2.0	61		
Sa	1012	0.6	18	Su	0937	-0.1	-3	Tu	1003	0.5	15	W	1133	-0.3	-9		
1404	1.2	37	Su	1406	1.7	52		1508	1.1	34		1543	1.4	43			
●	2052	0.4	12		2135	-0.2	-6		2129	0.3	9		2337	-0.1	-3		
												1718	0.6	18			
3	0244	1.5	46	18	0248	2.1	64	3	0355	1.5	46	18	0430	2.0	61		
Su	1103	0.5	15	M	1043	-0.2	-6	W	1054	0.3	9	Th	1231	-0.3	-9		
1458	1.2	37	M	1506	1.6	49		1603	1.1	34		1640	1.5	46			
2122	0.4	12		2232	-0.2	-6		2218	0.2	6							
												2156	0.3	9			
4	0340	1.6	49	19	0350	2.2	67	4	0447	1.7	52	19	0037	-0.1	-3		
M	1140	0.5	15	Tu	1146	-0.3	-9	Th	1145	0.2	6	F	0524	2.1	64		
1551	1.1	34	Tu	1605	1.6	49		1655	1.3	40		1323	-0.3	-9			
2200	0.3	9		2332	-0.2	-6		2309	0.1	3		1732	1.6	49			
												2251	0.1	3			
5	0433	1.7	52	20	0449	2.3	70	5	0534	1.9	58	20	0130	-0.1	-3		
Tu	1150	0.4	12	W	1245	-0.3	-9	W	1235	0.0	0	Sa	0612	2.1	64		
1642	1.2	37	W	1701	1.6	49		1743	1.5	46		1410	-0.3	-9			
2244	0.2	6										1821	1.7	52			
												2348	-0.1	-3			
6	0520	1.9	58	21	0032	-0.2	-6	6	0004	-0.1	-3	21	0216	-0.1	-3		
W	1222	0.3	9	Th	0542	2.4	73	W	0618	2.2	67	Su	0656	2.1	64		
1728	1.3	40	Th	1339	-0.4	-12		1323	-0.1	-3		1451	-0.2	-6			
2331	0.1	3		1753	1.7	52		1829	1.7	52		1907	1.9	58			
												2156	2.1	64			
7	0603	2.0	61	22	0128	-0.2	-6	7	0100	-0.2	-6	22	0253	-0.1	-3		
Th	1306	0.1	3	F	0631	2.4	73	Th	0701	2.4	73	M	0739	2.1	64		
1812	1.4	43	F	1428	-0.4	-12		1410	-0.3	-9		1527	-0.1	-3			
				1842	1.8	55		1915	1.9	58	○	1952	1.9	58			
												1852	2.1	64			
8	0022	0.0	0	23	0216	-0.2	-6	8	0156	-0.4	-12	23	0314	0.0	0		
F	0645	2.2	67	Sa	0718	2.4	73	M	0746	2.5	76	Tu	0822	2.1	64		
1351	-0.1	-3	Sa	1514	-0.4	-12		1455	-0.4	-12		1553	0.0	0			
1855	1.6	49	○	1929	1.8	55	●	2002	2.0	61		2037	2.0	61			
												●	1940	2.4	73		
9	0115	-0.1	-3	24	0257	-0.1	-3	9	0252	-0.5	-15	24	0322	0.0	0		
Sa	0726	2.4	73	Su	0803	2.4	73	Tu	0832	2.5	76	W	0904	2.0	61		
1437	-0.2	-6	Su	1556	-0.3	-9		1541	-0.5	-15		1602	0.1	3			
●	1939	1.7	52		2016	1.8	55		2051	2.2	67		2122	1.9	58		
												●	2011	2.1	64		
10	0209	-0.2	-6	25	0326	0.0	0	10	0348	-0.5	-15	25	0352	0.0	0		
Su	0809	2.5	76	M	0848	2.3	70	W	0920	2.5	76	Th	0948	1.8	55		
1522	-0.3	-9	M	1635	-0.2	-6		1628	-0.5	-15		1619	0.1	3			
2204	1.8	55		2103	1.8	55		2142	2.2	67		2208	1.8	55			
												●	2121	2.6	79		
11	0302	-0.2	-6	26	0346	0.0	0	11	0447	-0.5	-15	26	0433	-0.7	-21		
M	0853	2.5	76	Tu	0933	2.1	64	Th	1009	2.4	73	F	1031	1.7	52		
1608	-0.4	-12	Tu	1710	0.0	0		1718	-0.4	-12		1650	0.2	6			
2112	1.9	58		2151	1.8	55		2235	2.3	70		2254	1.7	52			
												●	2214	2.6	79		
12	0357	-0.2	-6	27	0417	0.1	3	12	0551	-0.4	-12	27	0521	0.2	6		
Tu	0941	2.5	76	W	1018	1.9	58	F	1101	2.2	67	Sa	1115	1.5	46		
1657	-0.4	-12	W	1735	0.1	3		1812	-0.3	-9		1729	0.3	9			
2203	1.9	58		2239	1.7	52		2329	2.2	67		2340	1.6	49			
												●	2308	2.5	76		
13	0455	-0.2	-6	28	0458	0.3	9	13	0702	-0.3	-9	28	0617	0.3	9		
W	1030	2.4	73	Th	1104	1.7	52	Sa	1153	2.0	61	Su	1159	1.3	40		
1748	-0.3	-9	Th	1753	0.2	6		1913	-0.2	-6		1816	0.4	12			
2256	2.0	61		2328	1.6	49							●	13	0651	-0.4	-12
													●	1133	1.9	58	
14	0600	-0.1	-3	29	0549	0.4	12	14	0026	2.2	67	29	0027	1.5	46		
Th	1121	2.2	67	F	1149	1.5	46	Su	0816	-0.2	-6	M	0720	0.4	12		
1842	-0.3	-9	F	1824	0.3	9		1248	1.7	52		1244	1.2	37			
2350	2.0	61						2018	-0.1	-3		1546	0.5	15			
												●	1713*	0.6	18		
15	0712	-0.1	-3	30	0017	1.5	46	15	0125	2.1	64	15	0103	2.1	64		
F	1214	2.0	61	Sa	0650	0.5	15	M	0926	-0.2	-6	Tu	0911	-0.3	-9		
1940	-0.2	-6	Sa	1235	1.3	40		1344	1.6	49		1323	1.5	46			
				1905	0.4	12	●	2126	-0.1	-3	●	2120	0.1	3			
												●	1741*	0.7	21		
31	0108	1.5	46	31	0759	0.5	15	Su	1322	1.2	37	31	0128	1.6	49		
												Th	1353	1.2	37		
●	1615	0.6	18	●	1728*	0.7	21	●				●	1650	0.6	18		
												●	1821*	0.7	21		

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.

Heights are referred to mean lower low water which is the chart datum of soundings.

* See Page 304 for the remaining tides on this day.

Woods Hole, Massachusetts, 2016

Times and Heights of High and Low Waters

April						May						June									
	Time	Height		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		h m	ft cm				
1 F	0226	1.6	49	16	0337	1.6	49	1	0251	1.8	55	16	0355	1.5	46	1	0421	2.0	61		
	0947	0.2	6	Sa	1142	0.0	0	Su	1004	0.0	0	M	1153	0.3	9	W	1110	-0.1	-3		
	1452	1.3	40		1554	1.6	49		1523	1.8	55		1621	1.8	55		1655	2.6	79		
	2137	0.3	9						2223	0.1	3										
2 Sa	0328	1.7	52	17	0019	0.2	6	2	0352	1.9	58	17	0050	0.4	12	2	0024	-0.2	-6		
	1036	0.1	3	Su	0431	1.6	49	M	1051	-0.1	-3	Tu	0445	1.5	46	Th	0517	2.1	64		
	1551	1.5	46		1231	0.1	3		1621	2.1	64		1226	0.4	12		1202	-0.1	-3		
	2235	0.1	3		1647	1.7	52		2325	-0.1	-3		1710	2.0	61		1749	2.9	88		
3 Su	0425	1.9	58	18	0110	0.2	6	3	0449	2.1	64	18	0133	0.3	9	3	0126	-0.4	-12		
	1125	-0.1	-3	M	0519	1.6	49	Tu	1140	-0.2	-6	W	0531	1.5	46	F	0543	1.5	46		
	1647	1.8	55		1313	0.2	6		1716	2.4	73		1141	0.4	12		1131	0.4	12		
	2335	-0.1	-3		1736	1.9	58					1756	2.1	64		1814	2.2	67			
4 M	0519	2.1	64	19	0153	0.1	3	4	0029	-0.3	-9	19	0205	0.3	9	4	0223	-0.5	-15		
	1214	-0.2	-6	Tu	0603	1.6	49	W	0542	2.2	67	Th	0615	1.6	49	Sa	0701	2.2	67		
	1739	2.1	64		1343	0.3	9		1230	-0.3	-9		1211	0.4	12		1354	-0.2	-6		
					1820	2.1	64		1808	2.7	82		1839	2.2	67	●	1931	3.1	94		
5 Tu	0037	-0.3	-9	20	0226	0.1	3	5	0131	-0.5	-15	20	0224	0.3	9	5	0318	-0.6	-18		
	0609	2.3	70	W	0645	1.7	52	Th	0633	2.2	67	F	0656	1.6	49	Su	0751	2.2	67		
	1304	-0.3	-9		1322	0.3	9		1322	-0.3	-9		1252	0.3	9		1450	-0.1	-3		
	1830	2.5	76		1903	2.2	67		1859	3.0	91		1920	2.3	70		2022	3.1	94		
6 W	0138	-0.5	-15	21	0246	0.1	3	6	0230	-0.6	-18	21	0233	0.2	6	6	0411	-0.5	-15		
	0658	2.4	73	Th	0726	1.7	52	F	0723	2.3	70	Sa	0738	1.6	49	M	0842	2.1	64		
	1353	-0.4	-12		1338	0.2	6		1415	-0.3	-9		1339	0.3	9		1545	0.0	0		
	1919	2.7	82		1945	2.2	67	●	1950	3.1	94	O	2001	2.3	70		2113	2.9	88		
7 Th	0236	-0.7	-21	22	0249	0.1	3	7	0327	-0.7	-21	22	0304	0.1	3	7	0504	-0.4	-12		
	0746	2.4	73	F	0807	1.7	52	Sa	0814	2.2	67	Su	0819	1.6	49	Tu	0934	2.0	61		
	1442	-0.5	-15		1414	0.2	6		1508	-0.3	-9		1426	0.3	9		1643	0.1	3		
●	2009	2.8	85	O	2027	2.2	67		2041	3.0	91		2042	2.3	70		2204	2.7	82		
8 F	0334	-0.8	-24	23	0318	0.0	0	8	0423	-0.7	-21	23	0345	0.1	3	8	0559	-0.3	-9		
	0836	2.3	70	Sa	0848	1.7	52	Su	0905	2.1	64	M	0902	1.6	49	W	1026	2.0	61		
	1532	-0.4	-12		1455	0.2	6		1602	-0.2	-6		1514	0.3	9		1749	0.3	9		
	2101	2.9	88		2109	2.2	67		2133	2.9	88		2124	2.3	70		2256	2.5	76		
9 Sa	0432	-0.7	-21	24	0400	0.1	3	9	0520	-0.6	-18	24	0431	0.1	3	9	0657	-0.1	-3		
	0927	2.2	67	Su	0931	1.6	49	M	0957	2.0	61	Tu	0946	1.6	49	F	1055	1.9	58		
	1623	-0.3	-9		1538	0.3	9		1700	0.0	0		1603	0.4	12		1742	0.4	12		
	2153	2.8	85		2151	2.1	64		2227	2.7	82		2206	2.2	67		2347	2.2	67		
10 Su	0533	-0.6	-18	25	0446	0.1	3	10	0621	-0.4	-12	25	0520	0.1	3	10	0754	0.0	0		
	1019	2.0	61	M	1014	1.5	46	Tu	1050	1.9	58	W	1031	1.6	49	Sa	1146	2.0	61		
	1721	-0.2	-6		1624	0.4	12		1811	0.2	6		1656	0.4	12		1847	0.4	12		
	2248	2.6	79		2233	2.0	61		2321	2.5	76		2251	2.2	67						
11 M	0638	-0.5	-15	26	0538	0.2	6	11	0724	-0.3	-9	26	0612	0.1	3	11	0038	1.9	58		
	1112	1.9	58	Tu	1058	1.4	43	W	1144	1.8	55	Th	1119	1.6	49	Sa	0850	0.2	6		
	1830	0.0	0		1714	0.5	15		1933	0.3	9		1755	0.5	15		1306	1.8	55		
	2343	2.4	73		2317	1.9	58					2338	2.1	64		2130	0.6	18			
12 Tu	0745	-0.4	-12	27	0634	0.2	6	12	0015	2.2	67	27	0705	0.1	3	12	0129	1.7	52		
	1207	1.7	52	W	1144	1.4	43	Th	0825	-0.2	-6	F	1209	1.6	49	Su	0941	0.3	9		
	1951	0.1	3		1453	0.6	18		1239	1.7	52		1900	0.5	15		1400	1.8	55		
					1624	0.7	21		2050	0.4	12					2233	0.6	18			
					1813	0.5	15								●	2105	0.3	9			
13 W	0040	2.1	64	28	0003	1.8	55	13	0109	1.9	58	28	0028	2.0	61	13	0222	1.5	46		
	0850	-0.3	-9	Th	0732	0.2	6	F	0924	0.0	0	Sa	0758	0.1	3	M	1026	0.5	15		
	1302	1.6	49		1232	1.4	43		1334	1.6	49		1302	1.7	52		1456	1.8	55		
●	2109	0.2	6		1537	0.6	18		O	2158	0.4	12		2007	0.4	12		2330	0.6	18	
					1712*	0.7	21									2211	0.2	6			
14 Th	0138	1.9	58	29	0054	1.8	55	14	0204	1.7	52	29	0123	2.0	61	14	0315	1.4	43		
	0952	-0.2	-6	F	0826	0.2	6	Sa	1018	0.1	3	Su	0847	0.1	3	W	0959	0.1	3		
	1359	1.5	46		1326	1.4	43		1430	1.6	49		1359	1.9	58		1536	2.5	76		
	2218	0.2	6		O	1628	0.7	21		2301	0.4	12		O	2112	0.3	9		2315	0.0	0
					1752*	0.8	24														
15 F	0238	1.7	52	30	0151	1.8	55	15	0300	1.5	46	30	0221	2.0	61	15	0022	0.6	18		
	1049	-0.1	-3	Sa	0917	0.1	3	Su	1108	0.2	6	M	0935	0.0	0	W	0408	1.4	43		
	1457	1.5	46		1423	1.6	49		1527	1.7	52		1458	2.1	64		1517	0.6	18		
	2322	0.2	6		2123	0.3	9		2359	0.4	12		2215	0.2	6		1643	2.0	61		
															31	0321	2.0	61			
															Tu	1022	0.0	0			
																1558	2.4	73			
																2319	0.0	0			

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.

Heights are referred to mean lower low water which is the chart datum of soundings.

* See Page 304 for the remaining tides on this day.

Woods Hole, Massachusetts, 2016

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 <small>F</small>	0018	-0.1	-3	16	0045	0.6	18	1	0159	-0.2	-6	16	0305	0.1	3
	0453	2.0	61	<small>Sa</small>	0511	1.5	46	<small>M</small>	0618	2.1	64	<small>Th</small>	0732	2.3	70
	1144	0.0	0		1104	0.5	15		1347	0.1	3		1513	0.2	6
	1731	2.9	88		1747	2.2	67		1853	2.8	85		● 1959	2.4	73
2 <small>Sa</small>	0118	-0.2	-6	17	0101	0.5	15	2	0248	-0.2	-6	2	0339	0.2	6
	0548	2.0	61	<small>Su</small>	0556	1.6	49	<small>Tu</small>	0707	2.2	67	<small>F</small>	0817	2.4	73
	1243	0.0	0		1155	0.4	12		1438	0.1	3		1543	0.3	9
	1823	3.0	91		1829	2.4	73		● 1940	2.8	85		2043	2.3	70
3 <small>Su</small>	0213	-0.3	-9	18	0136	0.3	9	3	0333	-0.1	-3	18	0228	0.0	0
	0639	2.1	64	<small>M</small>	0639	1.7	52	<small>W</small>	0756	2.2	67	<small>Sa</small>	0401	0.3	9
	1344	0.0	0		1250	0.3	9		1524	0.2	6		0903	2.3	70
	1913	3.0	91		1909	2.5	76		2026	2.7	82		1603	0.4	12
4 <small>M</small>	0305	-0.4	-12	19	0218	0.2	6	4	0415	0.0	0	4	0409	0.4	12
	0729	2.2	67	<small>Tu</small>	0722	1.9	58	<small>Th</small>	0844	2.3	70	<small>Su</small>	0950	2.3	70
	1441	0.0	0		1345	0.2	6		1605	0.3	9		1633	0.5	15
	● 2002	3.0	91		○ 1950	2.6	79		2112	2.5	76		2212	2.0	61
5 <small>Tu</small>	0354	-0.3	-9	20	0300	0.1	3	5	0455	0.1	3	5	0433	0.5	15
	0819	2.2	67	<small>W</small>	0806	2.0	61	<small>F</small>	0932	2.2	67	<small>M</small>	1038	2.2	67
	1533	0.1	3		1439	0.2	6		1642	0.4	12		1717	0.6	18
	2050	2.8	85		2033	2.6	79		2158	2.3	70		2258	1.8	55
6 <small>W</small>	0443	-0.2	-6	21	0344	0.0	0	6	0532	0.3	9	6	0508	0.6	18
	0909	2.1	64	<small>Th</small>	0852	2.1	64	<small>Sa</small>	1021	2.2	67	<small>Tu</small>	1126	2.0	61
	1625	0.2	6		1533	0.2	6		1720	0.5	15		1813	0.7	21
	2139	2.7	82		2118	2.6	79		2245	2.1	64		2344	1.6	49
7 <small>Th</small>	0532	-0.1	-3	22	0429	0.0	0	7	0559	0.5	15	7	0553	0.7	21
	1000	2.1	64	<small>F</small>	0940	2.2	67	<small>Su</small>	1111	2.1	64	<small>W</small>	1215	1.9	58
	1720	0.4	12		1629	0.2	6		1812	0.7	21		1920	0.7	21
	2228	2.4	73		2205	2.6	79		2331	1.9	58		2038	-0.1	-3
8 <small>F</small>	0622	0.1	3	23	0516	0.0	0	8	0616	0.6	18	8	0032	1.5	46
	1052	2.0	61	<small>Sa</small>	1031	2.2	67	<small>M</small>	1201	2.0	61	<small>Th</small>	0646	0.8	24
	1828	0.5	15		1730	0.2	6		1951	0.8	24		1305	1.8	55
	2317	2.2	67		2254	2.4	73					2031	0.7	21	
9 <small>Sa</small>	0714	0.3	9	24	0607	0.1	3	9	0018	1.7	52	9	0121	1.4	43
	1143	2.0	61	<small>Su</small>	1124	2.3	70	<small>Tu</small>	0648	0.7	21	<small>F</small>	0407	0.9	27
	1944	0.6	18		1837	0.2	6		1252	1.9	58		0541	1.0	30
					2345	2.3	70		2103	0.8	24		0743	0.8	24
10 <small>Su</small>	0005	1.9	58	25	0700	0.1	3	10	0107	1.5	46	10	0214	1.4	43
	0805	0.4	12	<small>M</small>	1218	2.4	73	<small>W</small>	0730	0.8	24	<small>Sa</small>	0454	0.9	27
	1235	1.9	58		1949	0.2	6		1344	1.8	55		0623	1.0	30
	2053	0.7	21						○ 2158	0.8	24		0840	0.8	24
11 <small>M</small>	0053	1.7	52	26	0039	2.1	64	11	0157	1.4	43	11	0310	1.4	43
	0850	0.6	18	<small>Tu</small>	0755	0.1	3	<small>Th</small>	0440	0.9	27	<small>F</small>	0947	0.3	9
	1327	1.9	58		1315	2.4	73		0558	1.0	30		1457	2.4	73
	● 2156	0.7	21		○ 2059	0.2	6		0817	0.8	24		2257	0.0	0
12 <small>Tu</small>	0143	1.5	46	27	0135	2.0	61	12	0251	1.4	43	12	0405	1.6	49
	0848	0.7	21	<small>W</small>	0851	0.2	6	<small>F</small>	0905	0.7	21	<small>Sa</small>	1052	0.2	6
	1422	1.8	55		1415	2.5	76		1537	1.9	58		1559	2.4	73
	2252	0.7	21		2205	0.1	3		2300	0.7	21		2356	0.0	0
13 <small>W</small>	0235	1.4	43	28	0234	1.9	58	13	0346	1.4	43	13	0413	1.9	58
	0900	0.7	21	<small>Th</small>	0947	0.2	6	<small>Sa</small>	0953	0.6	18	<small>Tu</small>	1120	0.3	9
	1518	1.9	58		1517	2.5	76		1630	2.0	61		1728	2.3	70
	2342	0.7	21		2309	0.0	0		2331	0.6	18		1808	2.2	67
14 <small>Th</small>	0329	1.4	43	29	0334	1.9	58	14	0438	1.5	46	14	0019	0.2	6
	0935	0.6	18	<small>F</small>	1044	0.2	6	<small>Su</small>	1043	0.5	15	<small>M</small>	0508	2.0	61
	1612	2.0	61		1617	2.6	79		1717	2.2	67		1255	0.2	6
												1746	2.5	76	
15 <small>F</small>	0022	0.7	21	30	0010	0.0	0	15	0013	0.5	15	15	0106	0.1	3
	0422	1.4	43	<small>Sa</small>	0432	1.9	58	<small>M</small>	0526	1.7	52	<small>Th</small>	0558	2.1	64
	1017	0.6	18		1145	0.2	6		1136	0.4	12		1348	0.2	6
	1702	2.1	64		1714	2.7	82		1800	2.3	70		1832	2.5	76
31 <small>Su</small>	0107	-0.1	-3	31	0107	-0.1	-3	31	0225	0.0	0	29	0158	0.2	6
	0527	2.0	61	<small>Tu</small>	1248	0.1	3	<small>W</small>	0646	2.2	67	<small>Th</small>	0624	2.3	70
					1805	2.8	85					1424	0.2	6	
												1850	2.2	67	

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.

Heights are referred to mean lower low water which is the chart datum of soundings.

* See Page 304 for the remaining tides on this day.

Woods Hole, Massachusetts, 2016

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	0245	0.3	9	16 Su	0206	-0.2	-6	1 Tu	0228	0.3	9	16 W	0326	-0.3	-9		
	0752	2.4	73	0743	3.0	91	0852	2.3	70	0907	3.1	94	0909	2.2	67		
	1522	0.3	9	1502	-0.5	-15	1545	0.2	6	1649	-0.6	-18	1610	0.1	3		
	2014	2.1	64	2007	2.5	76	2111	1.7	52	2129	2.1	64	2126	1.5	46		
2 Su	0242	0.4	12	17 M	0256	-0.2	-6	2 W	0310	0.4	12	17 Th	0423	-0.1	-3		
	0836	2.4	73	0833	3.1	94	0936	2.2	67	1000	2.9	88	0951	2.1	64		
	1533	0.3	9	1601	-0.5	-15	1629	0.3	9	1750	-0.5	-15	1656	0.1	3		
	2057	2.0	61	2058	2.4	73	2155	1.6	49	2223	2.0	61	2210	1.5	46		
3 M	0308	0.4	12	18 Tu	0347	-0.2	-6	3 Th	0356	0.5	15	18 F	0529	0.0	0		
	0920	2.3	70	0926	3.0	91	1019	2.1	64	1055	2.6	79	1033	2.0	61		
	1605	0.4	12	1702	-0.4	-12	1719	0.3	9	1853	-0.4	-12	1746	0.1	3		
	2141	1.8	55	2150	2.2	67	2240	1.5	46	2318	1.8	55	2257	1.4	43		
4 Tu	0344	0.5	15	19 W	0443	-0.1	-3	4 F	0446	0.6	18	19 Sa	0650	0.2	6		
	1005	2.2	67	1020	2.9	88	1104	2.0	61	1150	2.4	73	1118	2.0	61		
	1649	0.4	12	1806	-0.3	-9	1815	0.4	12	1956	-0.3	-9	1839	0.2	6		
	2226	1.7	52	2244	2.1	64	2327	1.4	43	2345	1.4	43	2345	1.4	43		
5 W	0425	0.6	18	20 Th	0548	0.1	3	5 Sa	0231	0.6	18	20 Su	0013	1.7	52		
	1051	2.1	64	1116	2.7	82	0403	0.8	24	0813	0.3	9	0418	0.7	21		
	1742	0.5	15	1914	-0.3	-9	0543	0.6	18	1245	2.1	64	0627	0.5	15		
	2312	1.5	46	2340	1.9	58	1149	1.9	58	2057	-0.2	-6	1205	1.9	58		
6 Th	0514	0.7	21	21 F	0707	0.2	6	6 Su	0015	1.4	43	21 M	0110	1.7	52		
	1138	1.9	58	1213	2.5	76	0312	0.7	21	0925	0.3	9	0342	0.7	21		
	1843	0.6	18	2020	-0.2	-6	0454	0.8	24	1340	1.8	55	0503	0.8	24		
	2358	1.4	43				0648	0.7	21	2153	-0.1	-3	0734	0.5	15		
7 F	0257	0.8	24	22 Sa	0036	1.8	55	7 M	0106	1.4	43	22 Tu	0208	1.6	49		
	0431	0.9	27	0829	0.3	9	0359	0.8	24	1030	0.3	9	0841	0.3	9		
	0611	0.8	24	1312	2.3	70	0536	0.9	27	1436	1.7	52	1352	1.8	55		
	1226	1.8	55	2122	-0.1	-3	0754	0.6	18	2246	0.0	0	2109	0.0	0		
8 Sa	0447	1.4	43	23 Su	0134	1.7	52	8 Tu	0202	1.5	46	23 W	0305	1.7	52		
	0337	0.8	24	0942	0.3	9	0455	0.9	27	1130	0.3	9	0944	0.2	6		
	0521	0.9	27	1411	2.1	64	0610	1.0	30	1531	1.5	46	1451	1.8	55		
	0714	0.8	24	2219	-0.1	-3	0857	0.5	15	2334	0.2	6	2155	-0.1	-3		
9 Su	0139	1.4	43	24 M	0233	1.7	52	9 W	0300	1.7	52	24 Th	0401	1.8	55		
	0423	0.8	24	1047	0.3	9	0956	0.3	9	1225	0.3	9	1046	0.0	0		
	0602	1.0	30	1510	1.9	58	1524	1.9	58	1623	1.5	46	1551	1.8	55		
	0816	0.7	21	2313	0.0	0	2225	0.1	3	2241	-0.2	-6	2241	-0.2	-6		
10 M	0235	1.4	43	25 Tu	0332	1.8	55	10 Th	0357	2.0	61	25 F	0017	0.3	9		
	0520	0.9	27	1147	0.3	9	1055	0.1	3	0452	1.9	58	0452	1.9	58		
	0636	1.0	30	1605	1.8	55	1621	2.0	61	1313	0.3	9	1648	1.9	58		
	0915	0.6	18				2309	-0.1	-3	1710	1.5	46	2330	-0.3	-9		
11 Tu	1507*	1.9	58				2359	0.3	9	10 Sa	0428	2.4	73	25 Su	0515	1.9	58
	0332	1.6	49				1754	1.5	46	1149	-0.2	-6	1331	0.3	9		
	1010	0.4	12	26 W	0003	0.1	3	2357	-0.2	-6	1251	-0.4	-12	1400	0.2	6	
	1602	2.0	61	0426	1.9	58	1155	-0.1	-3	1742	2.0	61	1809	1.4	43		
12 W	0246	1.9	58	27 Th	0048	0.2	6	26 F	0452	2.3	70	12 Su	0023	-0.3	-9		
	1106	0.2	6	0516	2.1	64	1257	-0.3	-9	0539	2.1	64	0616	2.9	88		
	1654	2.2	67	1330	0.2	6	1805	2.2	67	1354	0.3	9	1350	-0.5	-15		
	2343	0.1	3	1740	1.8	55	2357	-0.2	-6	1918	1.6	49	1834	2.1	64		
13 Th	0517	2.2	67	28 F	0125	0.3	9	28 Su	0032	0.3	9	12 M	0623	-0.3	-9		
	1205	0.0	0	0602	2.2	67	0634	2.9	88	0705	2.3	70	0643	2.1	64		
	1743	2.3	70	1411	0.2	6	1357	-0.5	-15	1442	0.2	6	1416	0.2	6		
				1823	1.8	55	1855	2.3	70	1918	1.6	49	1852	1.5	46		
14 F	0029	-0.1	-3	29 Sa	0139	0.3	9	29 M	0138	-0.3	-9	12 W	0746	2.3	70		
	0606	2.5	76	0645	2.3	70	0724	3.1	94	1455	0.2	6	0757	3.0	91		
	1304	-0.2	-6	1444	0.2	6	1455	-0.6	-18	2000	1.6	49	1540	-0.7	-21		
	1831	2.4	73	1904	1.8	55	1945	2.3	70	2015	2.1	64	2015	1.6	49		
15 Sa	0117	-0.2	-6	30 Su	0119	0.3	9	30 Tu	0231	-0.3	-9	15 W	0200	0.2	6		
	0654	2.8	85	0727	2.4	73	0815	3.1	94	1551	0.6	-18	0848	2.9	88		
	1404	-0.3	-9	1502	0.3	9	1528	0.1	3	2042	1.6	49	1634	-0.6	-18		
	1918	2.5	76	● 1945	1.8	55	2036	2.2	67	2107	2.0	61	2058	1.6	49		
31 Sa	0149	0.3	9	31 M	0149	0.3	9										
	0810	2.4	73	0810	2.4	73											
	1512	0.2	6	1512	0.2	6											
	2028	1.8	55	2028	1.8	55											

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.

Heights are referred to mean lower low water which is the chart datum of soundings.

* See Page 304 for the remaining tides on this day.

Newport, Rhode Island, 2016

Times and Heights of High and Low Waters

January				February				March							
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height				
h m	ft	cm		h m	ft	cm		h m	ft	cm					
1 F	0032	3.2	98	16 Sa	0018	3.9	119	1 M	0112	2.9	88	16 Tu	0158	3.7	113
0538	0.8	24		0544	0.3	9	0659	0.7	21	0910	0.3	9			
1245	3.0	91		1242	3.7	113	1326	2.5	76	1426	3.2	98			
1806	0.7	21		1802	0.1	3	1900	0.5	15	1959	0.2	6			
2 Sa	0120	3.1	94	17 Su	0116	3.9	119	2 Tu	0200	2.8	85	17 W	0305	3.6	110
0645	0.9	27		0720	0.4	12	0817	0.7	21	1015	0.3	9			
1330	2.8	85		1342	3.5	107	1418	2.5	76	1533	3.2	98			
1904	0.7	21		1908	0.2	6	2004	0.5	15	2125	0.2	6			
3 Su	0207	3.1	94	18 M	0217	3.9	119	3 W	0256	2.9	88	18 Th	0412	3.6	110
0803	0.9	27		0913	0.4	12	0926	0.6	18	1107	0.2	6			
1418	2.7	82		1444	3.4	104	1519	2.5	76	1637	3.3	101			
2003	0.6	18		2019	0.2	6	2106	0.3	9	2226	0.1	3			
4 M	0259	3.1	94	19 Tu	0322	3.9	119	4 Th	0357	3.0	91	19 F	0513	3.7	113
0911	0.8	24		1020	0.3	9	1020	0.3	9	1151	0.1	3			
1512	2.7	82		1550	3.4	104	1621	2.7	82	1733	3.5	107			
2058	0.5	15		2127	0.1	3	2202	0.1	3	2311	0.0	0			
5 Tu	0353	3.2	98	20 W	0428	4.0	122	5 F	0453	3.3	101	20 Sa	0604	3.8	116
1005	0.6	18		1114	0.2	6	1105	0.1	3	1228	0.0	0			
1609	2.7	82		1653	3.5	107	1716	3.0	91	1822	3.6	110			
2148	0.4	12		2224	0.0	0	2252	-0.1	-3	2351	-0.1	-3			
6 W	0444	3.4	104	21 Th	0527	4.2	128	6 Sa	0543	3.6	110	21 M	0649	3.8	116
1051	0.4	12		1202	0.1	3	1148	-0.1	-3	1255	-0.1	-6			
1701	2.9	88		1749	3.7	113	1805	3.4	104	1907	3.7	113			
2234	0.2	6		2313	0.0	0	2339	-0.4	-12	2115	-0.2	-6			
7 Th	0529	3.6	110	22 F	0619	4.3	131	7 Su	0630	4.0	122	22 M	0030	-0.2	-6
1133	0.2	6		1244	0.0	0	1229	-0.4	-12	0731	3.8	116			
1747	3.2	98		1839	3.8	116	1852	3.7	113	1319	-0.1	-3			
2317	0.0	0		2358	-0.1	-3	1949	3.8	116	1949	3.8	116			
8 F	0612	3.8	116	23 Sa	0706	4.3	131	8 M	0027	-0.6	-18	23 Tu	0110	-0.3	-9
1215	0.0	0		1321	0.0	0	0716	4.2	128	0810	3.7	113			
1831	3.4	104		1926	3.9	119	1311	-0.6	-18	1346	-0.2	-6			
							● 1939	4.0	122	2029	3.7	113			
9 Sa	0000	-0.1	-3	24 Su	0043	-0.2	-6	9 Tu	0115	-0.7	-21	24 W	0150	-0.3	-9
0654	4.1	125		0751	4.2	128	0802	4.3	131	0847	3.6	110			
1256	-0.1	-3		1352	-0.1	-3	1352	-0.7	-21	1416	-0.2	-6			
1915	3.6	110		2011	3.9	119	2026	4.1	125	2107	3.6	110			
10 Su	0044	-0.3	-9	25 M	0127	-0.2	-6	10 W	0204	-0.7	-21	25 Th	0229	-0.3	-9
0737	4.2	128		0834	4.1	125	0850	4.4	134	0924	3.4	104			
1336	-0.3	-9		1420	-0.1	-3	1433	-0.7	-21	1447	-0.2	-6			
2000	3.8	116		2055	3.8	116	2115	4.2	128	2144	3.4	104			
11 M	0129	-0.3	-9	26 Tu	0209	-0.1	-3	11 Th	0251	-0.7	-21	26 F	0308	-0.2	-6
0821	4.3	131		0915	3.8	116	0940	4.2	128	0959	3.1	94			
1416	-0.3	-9		1449	0.0	0	1514	-0.7	-21	1520	-0.1	-3			
2047	3.9	119		2138	3.7	113	2207	4.2	128	2221	3.2	98			
12 Tu	0214	-0.3	-9	27 W	0250	-0.1	-3	12 F	0339	-0.5	-15	27 Sa	0346	0.0	0
0908	4.3	131		0955	3.6	110	1032	4.0	122	1037	2.9	88			
1455	-0.4	-12		1521	0.0	0	1556	-0.5	-15	1555	0.0	0			
2135	3.9	119		2220	3.5	107	2301	4.1	125	2300	3.1	94			
13 W	0300	-0.3	-9	28 Th	0331	0.1	3	13 Sa	0431	-0.2	-6	28 M	0426	-0.3	-9
0958	4.2	128		1035	3.3	101	1127	3.8	116	1116	2.7	82			
1534	-0.3	-9		1555	0.1	3	1642	-0.3	-9	1631	0.2	6			
2227	3.9	119		2303	3.3	101	2358	4.0	122	2340	2.9	88			
14 Th	0348	-0.1	-3	29 F	0413	0.2	6	14 Su	0533	0.1	3	29 Tu	0510	0.4	12
1050	4.0	122		1116	3.0	91	1225	3.5	107	1159	2.5	76			
1617	-0.2	-6		1632	0.2	6	1735	-0.1	-3	1714	0.3	9			
2321	3.9	119		2346	3.1	94									
15 F	0440	0.1	3	30 Sa	0459	0.4	12	15 M	0056	3.8	116	30 W	0037	3.8	116
1145	3.9	119		1157	2.8	85	0726	0.3	9	1307	3.3	101	1217	2.7	82
1705	-0.1	-3		1713	0.3	9	1324	3.3	101	1839	0.1	3	1726	0.4	12
				31 Su	0028	2.9	88					31 Th	0622	0.6	18
				0552	0.6	18						1310	2.7	82	
				1240	2.6	79						1829	0.5	15	
				1802	0.4	12									

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Newport, Rhode Island, 2016

Times and Heights of High and Low Waters

April					May					June				
	Time	Height		Time	Height		Time	Height		Time	Height		Time	Height
1 F 0134 3.0 91 0738 0.5 15 1408 2.8 85 1945 0.4 12	16	0324 3.3 101	Sa	1012 0.5 15	1	0208 3.5 107	Su	0804 0.4 12	16	0345 3.2 98	W	0945 0.7 21	1	0350 3.8 116
		1551 3.4 104		1443 3.5 107	M	1443 3.5 107		1614 3.7 113	16	1623 4.5 137	Th	1710 3.7 113	16	0442 3.0 91
		2214 0.6 18		2035 0.5 15		2215 0.8 24		2235 0.2 6	W	2235 0.2 6		1002 0.6 18	17	1710 3.7 113
									1	0926 0.1 3		1710 3.7 113	16	2301 0.6 18
2 Sa 0236 3.1 94 0852 0.4 12 1511 3.1 94 2101 0.2 6	17	0425 3.3 101	Su	1044 0.5 15	2	0311 3.6 110	M	0906 0.2 6	17	0439 3.2 98	Tu	1012 0.6 18	2	0452 4.0 122
		1647 3.6 110		1546 3.9 119		1703 3.8 116		2251 0.6 18	17	1722 4.8 146		1019 -0.1 -3	17	0528 3.1 94
		2248 0.5 15		2146 0.2 6		2331 0.0 0			2	2331 0.0 0		1722 4.8 146	F	1751 3.8 116
									1	1623 4.5 137		1751 3.8 116	17	2342 0.4 12
3 Su 0342 3.4 104 0949 0.1 3 1614 3.4 104 2206 0.0 0	18	0516 3.3 101	M	1106 0.4 12	3	0416 3.8 116	Tu	1000 0.0 0	18	0525 3.3 101	W	1044 0.5 15	3	0550 4.2 128
		1735 3.7 113		1646 4.3 131		1746 3.9 119		2328 0.5 15	18	1746 3.9 119		1110 -0.2 -6	18	0609 3.2 98
		2319 0.4 12		2246 -0.1 -3		2328 0.5 15			3	1817 5.1 155		1125 0.4 12	Sa	1829 3.9 119
									W	1817 5.1 155				
4 M 0444 3.7 113 1038 -0.2 -6 1712 3.9 119 2302 -0.3 -9	19	0600 3.4 104	Tu	1129 0.3 9	4	0515 4.1 125	W	1049 -0.3 -9	19	0605 3.3 101	Th	1119 0.4 12	4	0025 -0.1 -3
		1817 3.8 116		1742 4.7 143		1824 4.0 122			19	1824 4.0 122		1201 0.2 -6	19	0024 0.3 9
		2353 0.2 6		2341 -0.3 -9					4	1909 5.2 158		1206 0.3 9	Su	1906 4.0 122
									W	1909 5.2 158				
5 Tu 0540 4.0 122 1123 -0.4 -12 1805 4.3 131 2355 -0.6 -18	20	0638 3.5 107	W	1158 0.2 6	5	0610 4.3 131	Th	1137 -0.4 -12	20	0007 0.3 9	F	0643 3.4 104	5	0121 -0.2 -6
		1855 3.9 119		1835 5.0 152		1156 0.3 9		1900 4.0 122	20	0643 3.4 104		1252 -0.2 -6	20	0106 0.2 6
						1900 4.0 122			5	1252 -0.2 -6		1248 0.2 6	M	0728 3.5 107
									W	1252 -0.2 -6		1944 4.1 125	O	2001 5.1 155
6 W 0632 4.3 131 1208 -0.6 -18 1855 4.7 143	21	0030 0.1 3	Th	0715 3.5 107	6	0035 -0.4 -12	F	0702 4.5 137	21	0047 0.3 9	Sa	0719 3.5 107	6	0213 -0.1 -3
		1231 0.1 3		1225 -0.5 -15		1235 0.3 9		1935 4.0 122	21	0828 4.4 134		1344 -0.1 -3	21	0146 0.2 6
		1931 3.9 119		1926 5.2 158		1935 4.0 122			6	1344 -0.1 -3		2052 5.0 152	Tu	0808 3.5 107
									W	1344 -0.1 -3		2023 4.1 125	1330 0.2 6	2052 5.0 152
7 Th 0048 -0.7 -21 0722 4.4 134 1254 -0.8 -24 ● 1945 4.9 149	22	0109 0.0 0	F	0749 3.5 107	7	0130 -0.4 -12	Sa	0754 4.5 137	22	0128 0.2 6	Su	0755 3.5 107	7	0301 0.0 0
		1307 0.1 3		1314 -0.5 -15		1314 0.3 9		2017 5.2 158	22	0920 4.4 134		2143 4.7 143	22	0224 0.1 3
		2004 3.9 119		2017 5.2 158		2010 4.0 122			7	1412 0.2 6		2143 4.7 143	W	0850 3.6 110
									7	2106 4.1 125				
8 F 0141 -0.8 -24 0812 4.5 137 1340 -0.8 -24 2036 5.0 152	23	0148 0.0 0	Sa	0824 3.4 104	8	0223 -0.4 -12	Su	0846 4.5 137	23	0207 0.2 6	M	0833 3.5 107	8	0344 0.2 6
		1343 0.1 3		1404 -0.3 -9		1353 0.3 9		2109 5.0 152	23	1522 0.3 9		2236 4.3 131	23	0259 0.1 3
		2038 3.8 116		2109 5.0 152		2046 4.0 122			8	1454 0.3 9		2152 4.0 122	Th	0935 3.6 110
									W	1454 0.3 9		2152 4.0 122	1454 0.3 9	2152 4.0 122
9 Sa 0232 -0.7 -21 0903 4.4 134 1426 -0.6 -18 2127 4.8 146	24	0226 0.0 0	Su	0859 3.3 101	9	0313 -0.2 -6	M	0913 3.4 104	24	0243 0.2 6	Tu	10913 3.4 104	9	0425 0.4 12
		1419 0.2 6		1453 -0.1 -3		1431 0.4 12		2126 3.9 119	24	1611 0.5 15		2329 4.0 122	24	0335 0.1 3
		2112 3.7 113		2203 4.7 143		2126 3.9 119			9	1611 0.5 15		2241 3.9 119	Th	1024 3.7 113
									W	1611 0.5 15				1538 0.3 9
10 Su 0322 -0.5 -15 0956 4.2 128 1512 -0.4 -12 2221 4.6 140	25	0301 0.1 3	M	0937 3.2 98	10	0401 0.0 0	Tu	1033 4.2 128	25	0317 0.3 9	W	0957 3.4 104	10	0509 0.6 18
		1454 0.3 9		1541 0.2 6		1510 0.4 12		2258 4.4 134	25	1510 0.4 12		2211 3.8 116	10	0415 0.1 3
		2150 3.6 110		2355 4.4 134		2355 4.0 122			10	1704 0.8 24		2115 3.7 113	Sa	1115 3.7 113
									W	1704 0.8 24		2334 3.9 119		
11 M 0412 -0.2 -6 1052 4.0 122 1600 -0.1 -3 2318 4.2 128	26	0336 0.2 6	Tu	1018 3.1 94	11	0454 0.3 9	W	1130 4.0 122	26	0353 0.4 12	Th	1044 3.4 104	11	0021 3.7 113
		1531 0.4 12		1632 0.5 15		1632 0.5 15		2355 4.0 122	26	1552 0.5 15		1254 3.7 113	26	0500 0.2 6
		2232 3.4 104		2355 4.0 122		2300 3.7 113			11	1808 1.0 30		1724 0.5 15	Su	1208 3.8 116
									W	1808 1.0 30				
12 Tu 0512 0.2 6 1150 3.7 113 1652 0.2 6	27	0412 0.4 12	W	1105 3.0 91	12	0609 0.6 18	Th	1227 3.8 116	27	0434 0.4 12	F	1135 3.4 104	12	0112 3.4 104
		1611 0.5 15		1732 0.8 24		1640 0.6 18		2352 3.7 113	27	1532 3.5 107		1929 1.1 34	27	0028 3.8 116
		2320 3.4 104		2352 3.7 113		2352 3.7 113			12	1929 1.1 34		1836 0.6 18	M	0553 0.2 6
									W	1929 1.1 34				1359 4.1 125
13 W 0018 3.9 119 0700 0.4 12 1248 3.6 110 ● 1755 0.5 15	28	0455 0.5 15	Th	1155 3.0 91	13	0052 3.7 113	F	1228 3.6 110	28	0523 0.5 15	Sa	1739 0.7 21	13	0203 3.2 98
		1658 0.6 18		1856 1.0 30		1324 3.7 113		2041 1.0 30	28	1438 3.5 107		2041 1.0 30	28	0125 3.7 113
						1856 1.0 30			13	2041 1.0 30		2004 0.6 18	Tu	0653 0.2 6
									W	2041 1.0 30				1359 4.1 125
14 Th 0118 3.6 110 0826 0.5 15 1348 3.4 104 1940 0.7 21	29	0013 3.3 101	F	0548 0.6 18	14	0148 3.5 107	Sa	0835 0.8 24	29	0047 3.7 113	Tu	0836 0.8 24	14	0255 3.0 91
		1248 3.1 94		1420 3.6 110		1420 3.6 110		2041 1.0 30	29	1532 3.5 107		2134 0.9 27	29	0225 3.7 113
		1759 0.7 21		2041 1.0 30		2041 1.0 30			14	2134 0.9 27		2128 0.4 12	W	0756 0.2 6
									W	2134 0.9 27		2128 0.4 12	1500 4.2 128	2128 0.4 12
15 F 0220 3.4 104 0927 0.6 18 1450 3.4 104 2125 0.7 21	30	0108 3.4 104	Sa	0654 0.6 18	15	0246 3.3 101	Su	0916 0.8 24	30	0144 3.7 113	M	0726 0.4 12	15	0351 3.0 91
		1344 3.3 101		1518 3.6 110		1518 3.6 110		2136 0.9 27	30	1624 3.6 110		2219 0.8 24	30	0329 3.7 113
		1915 0.6 18		2136 0.9 27		2136 0.9 27			15	1915 0.6 18		2219 0.8 24	Th	0858 0.1 3
									W	1915 0.6 18		2219 0.8 24	1604 4.4 134	2233 0.3 9

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Newport, Rhode Island, 2016

Times and Heights of High and Low Waters

July				August				September			
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height
1 F 0433 3.8 116 0956 0.0 0 1705 4.6 140 2328 0.1 3	16 Sa 0446 2.8 85 1012 0.4 12 1714 3.5 107 2316 0.4 12	1 M 0016 0.0 0 0612 3.8 116 1131 -0.1 -3 1840 4.3 131	16 Tu 0545 3.1 94 1119 -0.2 -6 1808 3.7 113	1 Th 0100 -0.2 -6 0728 3.9 119 1251 -0.2 -6 1950 3.8 116	16 O 0013 -0.6 -18 0651 4.0 122 1234 -0.7 -21 1915 4.2 128						
2 Sa 0532 3.9 119 1050 -0.1 -3 1802 4.8 146	17 Su 0533 3.0 91 1057 0.2 6 1756 3.7 113 2358 0.2 6	2 Tu 0059 -0.1 -3 0702 4.0 122 1221 -0.2 -6 1928 4.3 131	17 W 0008 -0.2 -6 0631 3.4 104 1205 -0.3 -9 1853 3.9 119	2 F 0127 -0.2 -6 0811 3.8 116 1332 -0.2 -6 2030 3.7 113	17 Sa 0055 -0.8 -24 0739 4.3 131 1324 -0.7 -21 2003 4.2 128						
3 Su 0021 0.0 0 0627 4.1 125 1142 -0.1 -3 1854 4.8 146	18 M 0617 3.2 98 1141 0.1 3 1837 3.8 116	3 W 0136 -0.1 -3 0750 4.0 122 1308 -0.2 -6 2013 4.2 128	18 Th 0048 -0.4 -12 0717 3.7 113 1252 -0.5 -15 1938 4.1 125	3 Sa 0157 -0.2 -6 0852 3.7 113 1413 -0.2 -6 2109 3.5 107	18 Su 0138 -0.9 -27 0828 4.5 137 1414 -0.7 -21 2053 4.2 128						
4 M 0112 0.0 0 0719 4.2 128 1234 -0.1 -3 ● 1945 4.8 146	19 Tu 0040 0.0 0 0659 3.4 104 1225 0.0 0 ○ 1918 4.0 122	4 Th 0208 -0.1 -3 0836 4.0 122 1354 -0.1 -3 2057 4.0 122	19 F 0128 -0.6 -18 0803 3.9 119 1340 -0.5 -15 2024 4.1 125	4 Su 0230 -0.2 -6 0932 3.6 110 1453 -0.1 -3 2148 3.2 98	19 M 0222 -0.8 -24 0918 4.5 137 1503 -0.6 -18 2145 4.0 122						
5 Tu 0200 -0.1 -3 0810 4.3 131 1325 -0.1 -3 2034 4.6 140	20 W 0120 -0.1 -3 0743 3.6 110 1310 -0.1 -3 2001 4.1 125	5 F 0238 -0.1 -3 0922 3.9 119 1438 0.0 0 2140 3.7 113	20 Sa 0208 -0.7 -21 0850 4.1 125 1427 -0.5 -15 2112 4.1 125	5 M 0304 -0.1 -3 1012 3.4 104 1533 0.0 0 2228 2.9 88	20 Tu 0306 -0.7 -21 1011 4.4 134 1554 -0.4 -12 2240 3.8 116						
6 W 0240 0.0 0 0859 4.2 128 1415 0.0 0 2122 4.4 134	21 Th 0159 -0.2 -6 0827 3.7 113 1355 -0.1 -3 2045 4.1 125	6 Sa 0309 -0.1 -3 1007 3.7 113 1520 0.1 3 2223 3.4 104	21 Su 0248 -0.7 -21 0940 4.1 125 1515 -0.4 -12 2203 3.9 119	6 Tu 0340 0.0 0 1053 3.1 94 1614 0.2 6 2309 2.7 82	21 W 0352 -0.5 -15 1108 4.2 128 1652 -0.1 -3 2338 3.6 110						
7 Th 0315 0.1 3 0949 4.1 125 1501 0.2 6 2209 4.1 125	22 F 0236 -0.3 -9 0913 3.8 116 1440 -0.1 -3 2132 4.1 125	7 Su 0342 0.0 0 1052 3.5 107 1602 0.2 6 2306 3.1 94	22 M 0329 -0.6 -18 1032 4.1 125 1604 -0.3 -12 2257 3.8 116	7 W 0418 0.1 3 1135 3.0 91 1700 0.4 12 2352 2.5 76	22 Th 0443 -0.2 -6 1208 4.0 122 1830 0.2 6						
8 F 0348 0.2 6 1039 3.9 119 1546 0.4 12 2258 3.8 116	23 Sa 0313 -0.3 -9 1002 3.9 119 1526 -0.1 -3 2222 4.0 122	8 M 0418 0.2 6 1137 3.3 101 1648 0.4 12 2350 2.9 88	23 Tu 0414 -0.5 -15 1128 4.0 122 1701 0.0 0 2354 3.6 110	8 Th 0501 0.3 9 1218 2.8 85 1755 0.6 18	23 F 0037 3.4 104 0543 0.1 3 1309 3.8 116 ● 2021 0.3 9						
9 Sa 0423 0.3 9 1129 3.7 113 1633 0.6 18 2345 3.4 104	24 Su 0353 -0.3 -9 1054 3.9 119 1615 0.1 3 2315 3.8 116	9 Tu 0459 0.3 9 1221 3.1 94 1741 0.6 18	24 W 0504 -0.3 -9 1225 3.9 119 1821 0.2 6	9 O 0038 2.4 73 0552 0.4 12 1304 2.8 85 ● 1907 0.6 18	24 Sa 0138 3.3 101 0705 0.3 9 1412 3.6 110 2128 0.2 6						
10 Su 0502 0.5 15 1218 3.5 107 1726 0.7 21	25 M 0437 -0.2 -6 1148 3.9 119 1712 0.2 6	10 W 0033 2.7 82 0546 0.4 12 1305 3.0 91 ● 1846 0.7 21	25 Th 0052 3.4 104 0603 0.0 0 1325 3.8 116 2027 0.3 9	10 Sa 0127 2.4 73 0656 0.5 15 1354 2.8 85 2026 0.5 15	25 Su 0241 3.3 101 0859 0.3 9 1517 3.5 107 2221 0.2 6						
11 M 0032 3.2 98 0547 0.6 18 1306 3.4 104 ● 1829 0.9 27	26 Tu 0011 3.7 113 0527 -0.1 -3 1243 4.0 122 ○ 1825 0.4 12	11 Th 0117 2.5 76 0641 0.5 15 1351 2.9 88 2002 0.7 21	26 F 0153 3.3 101 0714 0.1 3 1428 3.7 113 2139 0.2 6	11 Su 0221 2.5 76 0806 0.4 12 1452 2.9 88 2126 0.4 12	26 M 0346 3.4 104 1005 0.3 9 1621 3.5 107 2303 0.1 3						
12 Tu 0117 2.9 88 0639 0.6 18 1353 3.3 101 1942 0.9 27	27 W 0108 3.5 107 0626 0.0 0 1341 4.0 122 2012 0.4 12	12 F 0206 2.4 73 0743 0.5 15 1441 2.9 88 2109 0.6 18	27 Sa 0257 3.2 98 0836 0.1 3 1534 3.7 113 2235 0.1 3	12 M 0321 2.6 79 0912 0.2 6 1552 3.1 94 2213 0.1 3	27 Tu 0445 3.5 107 1048 0.2 6 1715 3.6 110 2335 0.1 3						
13 W 0204 2.8 85 0735 0.6 18 1442 3.2 98 2050 0.8 24	28 Th 0207 3.4 104 0732 0.1 3 1443 4.0 122 2137 0.3 9	13 Sa 0302 2.5 76 0845 0.4 12 1538 3.0 91 2203 0.4 12	28 Su 0402 3.3 101 0948 0.1 3 1638 3.8 116 2322 0.0 0	13 Tu 0421 2.9 88 1008 0.0 0 1649 3.4 104 2253 -0.1 -3	28 W 0537 3.7 113 1123 0.1 3 1802 3.6 110 2357 0.0 0						
14 Th 0255 2.7 82 0831 0.6 18 1535 3.2 98 2145 0.7 21	29 F 0311 3.4 104 0840 0.1 3 1548 4.1 125 2237 0.2 6	14 Su 0402 2.6 79 0942 0.2 6 1634 3.2 98 2247 0.2 6	29 M 0502 3.5 107 1042 0.0 0 1734 3.9 119 2333 0.2 6	14 W 0515 3.3 101 1058 -0.3 -9 1739 3.7 113 2333 -0.4 -12	29 Th 0623 3.8 116 1156 0.0 0 1845 3.7 113 ● 1924 3.6 110						
15 F 0352 2.7 82 0923 0.5 15 1627 3.3 101 2233 0.5 15	30 Sa 0417 3.5										

Newport, Rhode Island, 2016

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	0046	-0.1	-3	16 Su	0024	-0.8	-24	1 Tu	0123	0.0	0
	0744	3.9	119		0717	4.8	146		0826	3.8	116
	1310	-0.1	-3		1309	-0.7	-21		1407	0.1	3
	2002	3.5	107		1943	4.4	134		2045	3.3	101
2 Su	0119	-0.1	-3	17 M	0110	-0.8	-24	2 W	0201	0.1	3
	0821	3.8	116		0807	4.9	149		0901	3.7	113
	1349	-0.1	-3		1401	-0.7	-21		1445	0.2	6
	2038	3.4	104		2034	4.3	131		2122	3.1	94
3 M	0154	-0.1	-3	18 Tu	0157	-0.7	-21	3 Th	0238	0.2	6
	0858	3.6	110		0858	4.8	146		0937	3.5	107
	1429	-0.1	-3		1453	-0.5	-15		1521	0.3	9
	2115	3.2	98		2126	4.2	128		2202	3.0	91
4 Tu	0230	-0.1	-3	19 W	0244	-0.6	-18	4 F	0315	0.3	9
	0934	3.5	107		0952	4.7	143		1017	3.4	104
	1507	0.0	0		1544	-0.3	-9		1558	0.4	12
	2152	3.0	91		2222	4.0	122		2246	2.9	88
5 W	0307	0.1	3	20 Th	0333	-0.3	-9	5 Sa	0355	0.5	15
	1011	3.3	101		1049	4.4	134		1102	3.3	101
	1545	0.2	6		1642	0.1	3		1639	0.5	15
	2232	2.8	85		2320	3.8	116		2335	2.9	88
6 Th	0344	0.2	6	21 F	0425	0.0	0	6 Su	0439	0.6	18
	1051	3.1	94		1149	4.1	125		1153	3.2	98
	1626	0.4	12		1821	0.3	9		1729	0.6	18
	2316	2.6	79								
7 F	0424	0.4	12	22 Sa	0020	3.6	110	7 M	0026	2.9	88
	1136	3.0	91		0526	0.4	12		0535	0.7	21
	1712	0.5	15		1250	3.8	116		1246	3.2	98
					1959	0.4	12		1831	0.6	18
8 Sa	0004	2.6	79	23 Su	0121	3.5	107	8 Tu	0120	3.1	94
	0511	0.5	15		0659	0.6	18		0646	0.7	21
	1225	2.9	88		1351	3.6	110		1341	3.3	101
	1812	0.6	18		2104	0.4	12		1940	0.5	15
9 Su	0055	2.6	79	24 M	0222	3.5	107	9 W	0216	3.3	101
	0611	0.6	18		0903	0.6	18		0807	0.6	18
	1317	2.9	88		1454	3.5	107		1441	3.4	104
	1927	0.6	18		2154	0.4	12		2042	0.3	9
10 M	0148	2.7	82	25 Tu	0324	3.5	107	10 Th	0316	3.6	110
	0725	0.6	18		1000	0.5	15		0919	0.3	9
	1413	3.0	91		1555	3.4	104		1544	3.6	110
	2037	0.4	12		2232	0.4	12		2135	0.0	0
11 Tu	0247	2.9	88	26 W	0423	3.6	110	11 F	0417	4.0	122
	0840	0.4	12		1039	0.5	15		1019	0.0	0
	1514	3.2	98		1650	3.4	104		1644	3.9	119
	2130	0.2	6		2257	0.3	9		2223	-0.3	-9
12 W	0347	3.2	98	27 Th	0514	3.8	116	12 Sa	0513	4.5	137
	0943	0.1	3		1109	0.4	12		1112	-0.2	-6
	1615	3.5	107		1737	3.5	107		1740	4.1	125
	2215	-0.1	-3		2316	0.3	9		2310	-0.5	-15
13 Th	0445	3.7	113	28 F	0559	3.9	119	13 Su	0606	4.8	146
	1037	-0.2	-6		1139	0.2	6		1204	-0.4	-12
	1711	3.8	116		1819	3.5	107		1832	4.3	131
	2257	-0.4	-12		2340	0.2	6		2357	-0.6	-18
14 F	0537	4.1	125	29 Sa	0639	4.0	122	14 M	0658	5.1	155
	1128	-0.4	-12		1212	0.1	3		1257	-0.5	-15
	1802	4.1	125		1857	3.5	107		1924	4.5	137
	2340	-0.6	-18								
15 Sa	0627	4.5	137	30 Su	0011	0.1	3	15 Tu	0046	-0.6	-18
	1218	-0.6	-18		0716	4.0	122		0749	5.2	158
	1852	4.3	131		1249	0.1	3		1351	-0.5	-15
	O				● 1934	3.5	107		1349	0.2	6
				31 M	0046	0.0	0	15 W	0752	3.9	119
					1328	0.0	0		2009	3.4	104

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Montauk, Fort Pond Bay, New York, 2016

Times and Heights of High and Low Waters

January				February				March			
Time	Height	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 F 0149	1.8	55	16 Sa 0129	2.1	64	1 M 0259	1.7	52	16 Tu 0314	2.2	67
0833	0.3	9	0827	-0.2	-6	0937	0.3	9	0211	1.8	55
1406	1.5	46	1347	1.8	55	1517	1.3	40	0857	0.3	9
2048	0.2	6	● 2040	-0.3	-9	2136	0.3	9	1434	1.4	43
						2217	-0.1	-3	2058	0.5	15
2 Sa 0246	1.8	55	17 Su 0231	2.2	67	2 Tu 0358	1.8	55	2 W 0422	2.2	67
0929	0.3	9	0929	-0.2	-6	1030	0.2	6	0311	1.8	55
1503	1.4	43	1449	1.7	52	1616	1.3	40	0951	0.3	9
● 2134	0.2	6	2136	-0.3	-9	2226	0.2	6	1536	1.4	43
						2318	-0.1	-3	2153	0.4	12
3 Su 0344	1.8	55	18 M 0336	2.2	67	3 W 0453	1.9	58	18 Th 0524	2.2	67
1021	0.3	9	1031	-0.3	-9	1120	0.1	3	0410	1.9	58
1602	1.3	40	1554	1.6	49	1709	1.3	40	1044	0.2	6
2219	0.2	6	2232	-0.3	-9	2316	0.2	6	1634	1.5	46
						2247	0.3	9	2247	0.3	9
4 M 0439	1.9	58	19 Tu 0439	2.3	70	4 Th 0540	2.0	61	4 F 0016	-0.1	-3
1110	0.2	6	1130	-0.4	-12	1209	0.0	0	0617	2.2	67
1656	1.3	40	1656	1.6	49	1756	1.5	46	1302	-0.3	-9
2304	0.2	6	2329	-0.3	-9	1830	1.8	55	1830	0.1	3
						2340			1815	2.0	61
5 Tu 0528	2.0	61	20 W 0536	2.4	73	5 F 0006	0.0	0	5 Sa 0109	-0.1	-3
1157	0.1	3	1227	-0.4	-12	0624	2.1	64	0704	2.3	70
1743	1.4	43	1752	1.7	52	1255	-0.2	-6	1348	-0.3	-9
2349	0.1	3	1840	1.6	49	1917	1.9	58	1810	1.8	55
						1859			1859	2.2	67
6 W 0612	2.1	64	21 Th 0025	-0.3	-9	6 Sa 0055	-0.1	-3	21 M 0157	-0.2	-6
1242	0.0	0	0628	2.5	76	0705	2.3	70	0747	2.3	70
1827	1.5	46	1319	-0.5	-15	1341	-0.4	-12	1430	-0.3	-9
			1843	1.8	55	1922	1.8	55	2002	2.0	61
						1853	2.1	64	1853	2.1	64
7 Th 0035	0.0	0	22 F 0118	-0.4	-12	7 Su 0143	-0.3	-9	22 M 0240	-0.2	-6
0653	2.2	67	0717	2.5	76	0746	2.4	73	0829	2.2	67
1326	-0.2	-6	1408	-0.6	-18	1425	-0.5	-15	1509	-0.3	-9
1909	1.6	49	1932	1.9	58	2005	1.9	58	● 2046	2.1	64
						2046	2.1	64	1938	2.3	70
8 F 0120	-0.1	-3	23 Sa 0208	-0.4	-12	8 M 0231	-0.5	-15	23 Tu 0321	-0.2	-6
0732	2.3	70	0803	2.5	76	0828	2.5	76	0912	2.2	67
1409	-0.3	-9	1453	-0.6	-18	1508	-0.6	-18	1547	-0.2	-6
1950	1.7	52	● 2021	1.9	58	● 2050	2.1	64	2131	2.2	67
						2131	2.2	67	● 2023	2.6	79
9 Sa 0205	-0.2	-6	24 Su 0255	-0.4	-12	9 Tu 0320	-0.6	-18	24 W 0402	-0.2	-6
0812	2.4	73	0849	2.4	73	0913	2.6	79	0954	2.1	64
1452	-0.5	-15	1536	-0.5	-15	1553	-0.7	-21	1623	-0.2	-6
● 2032	1.8	55	2108	2.0	61	2137	2.3	70	2215	2.2	67
						2137	2.3	70	2215	2.2	67
10 Su 0250	-0.3	-9	25 M 0340	-0.3	-9	10 W 0410	-0.6	-18	25 Th 0443	-0.1	-3
0853	2.5	76	0934	2.3	70	1000	2.5	76	1037	2.0	61
1536	-0.6	-18	1618	-0.5	-15	1639	-0.7	-21	1701	0.0	0
2117	1.8	55	2156	2.0	61	2226	2.4	73	2259	2.2	67
						2259	2.2	67	2201	2.8	85
11 M 0337	-0.3	-9	26 Tu 0425	-0.2	-6	11 Th 0504	-0.6	-18	26 F 0527	0.0	0
0936	2.5	76	1020	2.2	67	1048	2.4	73	1120	1.9	58
1620	-0.6	-18	1659	-0.3	-9	1727	-0.6	-18	1740	0.1	3
2203	1.9	58	2244	2.0	61	2316	2.4	73	2344	2.1	64
						2316	2.4	73	2253	2.9	88
12 Tu 0427	-0.3	-9	27 W 0511	-0.1	-3	12 F 0602	-0.5	-15	27 Sa 0615	0.1	3
1021	2.5	76	1105	2.0	61	1138	2.2	67	1204	1.7	52
1707	-0.6	-18	1741	-0.2	-6	1819	-0.5	-15	1823	0.2	6
2251	2.0	61	2331	2.0	61				1752	-0.3	-9
									2346	2.8	85
13 W 0521	-0.3	-9	28 Th 0600	0.0	0	13 Sa 0009	2.4	73	28 Su 0029	2.0	61
1108	2.4	73	1150	1.9	58	0703	-0.4	-12	0707	0.2	6
1757	-0.5	-15	1825	0.0	0	1230	2.0	61	1249	1.6	49
2340	2.0	61				1916	-0.3	-9	1911	0.4	12
									2004	0.4	12
14 Th 0620	-0.3	-9	29 F 0019	1.9	58	14 Su 0105	2.4	73	29 M 0118	1.9	58
1157	2.2	67	0652	0.1	3	0807	-0.3	-9	0802	0.3	9
1849	-0.5	-15	1236	1.7	52	1326	1.8	55	1338	1.5	46
			1911	0.1	3	2015	-0.2	-6	2004	0.4	12
15 F 0033	2.1	64	30 Sa 0108	1.8	55	15 M 0207	2.3	70	15 Tu 0144	2.4	73
0723	-0.2	-6	0748	0.2	6	0910	-0.2	-6	0850	-0.1	-3
1250	2.0	61	1325	1.5	46	1428	1.7	52	1410	1.8	55
1944	-0.4	-12	1958	0.2	6	● 2116	-0.1	-3	● 2058	0.1	3
			31 Su 0201	1.8	55						
			0843	0.3	9						
			1418	1.3	40						
			● 2047	0.3	9						

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Montauk, Fort Pond Bay, New York, 2016

Times and Heights of High and Low Waters

April					May					June													
Time		Height			Time		Height			Time		Height			Time		Height						
1 F	0322	2.0	61	16	0441	2.1	64	1	0338	2.2	67	16	0459	1.9	58	1 W	0502	2.3	70	16	0022	0.5	15
	1009	0.3	9	Sa	1118	0.2	6	Su	1025	0.2	6	M	1127	0.4	12	Th	0557	1.8	55		0557	1.8	55
	1557	1.7	52		1704	2.1	64		1618	2.2	67		1725	2.3	70		1207	0.5	15		1207	0.5	15
	2220	0.5	15		2349	0.4	12		2253	0.3	9						1822	2.5	76		1822	2.5	76
2 Sa	0421	2.1	64	17	0535	2.0	61	2 M	0437	2.3	70	17	0013	0.5	15	2 Th	0027	-0.2	-6	17	0103	0.4	12
	1059	0.2	6	Su	1207	0.3	9		1114	0.1	3	Tu	0547	1.9	58	F	0556	2.3	70	17	0641	1.8	55
	1651	1.9	58		1753	2.2	67		1710	2.5	76		1209	0.5	15		1225	-0.1	-3		1249	0.5	15
	2316	0.3	9						2349	0.1	3		1808	2.5	76		1826	3.2	98		1903	2.6	79
3 Su	0514	2.3	70	18	0040	0.4	12	3 Tu	0531	2.4	73	18	0056	0.4	12	3 F	0121	-0.4	-12	18	0143	0.3	9
	1148	0.0	0	M	0620	2.0	61		1203	-0.1	-3	W	0630	1.9	58		0649	2.4	73	Sa	0724	1.9	58
	1739	2.2	67		1249	0.3	9		1759	2.8	85		1248	0.5	15		1317	-0.2	-6		1331	0.5	15
					1836	2.4	73					1849	2.6	79						1944	2.7	82	
4 M	0010	0.0	0	19	0123	0.3	9	4 W	0044	-0.2	-6	19	0135	0.3	9	4 Sa	0214	-0.5	-15	19	0223	0.2	6
	0602	2.4	73	Tu	0701	2.0	61		0622	2.5	76	Th	0711	1.9	58		0740	2.4	73	Su	0807	1.9	58
	1236	-0.1	-3		1328	0.3	9		1252	-0.2	-6		1325	0.4	12		1409	-0.2	-6		1413	0.4	12
	1825	2.5	76		1916	2.5	76		1847	3.1	94		1930	2.6	79		2007	3.4	104		2025	2.7	82
5 Tu	0103	-0.2	-6	20	0202	0.2	6	5 Th	0138	-0.4	-12	20	0212	0.2	6	5 Su	0305	-0.5	-15	20	0304	0.1	3
	0649	2.6	79	W	0740	2.1	64		0711	2.6	79	F	0753	2.0	61		0833	2.4	73	M	0851	2.0	61
	1323	-0.3	-9		1403	0.3	9		1341	-0.3	-9		1403	0.4	12		1501	-0.2	-6	O	1456	0.4	12
	1911	2.8	85		1956	2.6	79		1935	3.3	101		2010	2.7	82		2100	3.3	101		2106	2.7	82
6 W	0155	-0.5	-15	21	0238	0.1	3	6 F	0230	-0.6	-18	21	0250	0.1	3	6 M	0355	-0.5	-15	21	0345	0.0	0
	0737	2.7	82	Th	0821	2.1	64		0802	2.6	79	Sa	0835	2.0	61		0927	2.4	73	Tu	0935	2.0	61
	1409	-0.4	-12		1438	0.3	9		1430	-0.3	-9		1441	0.4	12		1553	-0.1	-3		1540	0.4	12
	1958	3.0	91		2037	2.6	79		2026	3.4	104	O	2051	2.7	82		2152	3.2	98		2147	2.7	82
7 Th	0246	-0.6	-18	22	0315	0.1	3	7 Sa	0321	-0.6	-18	22	0329	0.1	3	7 Tu	0447	-0.4	-12	22	0429	0.0	0
	0825	2.7	82	F	0902	2.1	64		0853	2.6	79	Su	0918	2.0	61		1021	2.4	73	W	1020	2.1	64
	1456	-0.5	-15		1513	0.3	9		1520	-0.3	-9		1521	0.4	12		1648	0.1	3		1627	0.4	12
	2047	3.2	98	O	2118	2.6	79		2118	3.4	104		2132	2.7	82		2245	3.0	91		2228	2.7	82
8 F	0338	-0.7	-21	23	0353	0.1	3	8 Su	0413	-0.6	-18	23	0410	0.1	3	8 W	0539	-0.3	-9	23	0514	0.0	0
	0915	2.6	79	Sa	0945	2.1	64		0946	2.5	76	M	1003	2.0	61		1116	2.4	73	Th	1105	2.1	64
	1543	-0.4	-12		1549	0.4	12		1612	-0.2	-6		1602	0.5	15		1746	0.2	6		1718	0.4	12
	2138	3.2	98		2159	2.6	79		2211	3.3	101		2214	2.6	79		2338	2.8	85		2310	2.6	79
9 Sa	0430	-0.7	-21	24	0434	0.1	3	9 M	0507	-0.5	-15	24	0454	0.1	3	9 Th	0633	-0.1	-3	24	0602	0.0	0
	1007	2.5	76	Su	1028	2.0	61		1041	2.4	73	Tu	1047	2.0	61		1210	2.3	70	F	1150	2.1	64
	1633	-0.3	-9		1628	0.5	15		1707	0.0	0		1648	0.5	15		1848	0.4	12		1814	0.5	15
	2231	3.2	98		2241	2.5	76		2306	3.1	94		2254	2.6	79						2354	2.5	76
10 Su	0526	-0.5	-15	25	0518	0.2	6	10 Tu	0603	-0.3	-9	25	0541	0.1	3	10 F	0031	2.5	76	25	0652	0.0	0
	1100	2.4	73	M	1112	1.9	58		1136	2.4	73	W	1131	2.0	61		0728	0.1	3	Sa	1237	2.2	67
	1728	-0.1	-3		1711	0.6	18		1808	0.2	6		1738	0.6	18		1306	2.3	70		1914	0.5	15
	2326	3.0	91		2322	2.4	73					2335	2.5	76		1951	0.5	15					
11 M	0624	-0.4	-12	26	0606	0.2	6	11 W	0001	2.8	85	26	0631	0.2	6	11 Sa	0124	2.2	67	26	0042	2.4	73
	1154	2.3	70	Tu	1155	1.9	58		0701	-0.1	-3	Th	1216	2.0	61		0821	0.2	6	Su	0743	0.1	3
	1828	0.1	3		1801	0.7	21		1232	2.3	70		1835	0.7	21		1403	2.2	67		1327	2.3	70
									1913	0.4	12						2053	0.6	18		2016	0.4	12
12 Tu	0725	2.8	85	27	0003	2.3	70	12 Th	0057	2.5	76	27	0018	2.4	73	12 Su	0220	2.0	61	27	0135	2.3	70
	1251	-0.2	-6	W	0658	0.3	9		0800	0.0	0	F	1303	2.0	61		0911	0.3	9	M	0834	0.1	3
	1933	0.2	6		1241	1.8	55		2019	0.5	15		1936	0.7	21		1501	2.2	67	O	1423	2.4	73
					1858	0.7	21										2152	0.6	18		2116	0.3	9
13 W	0122	2.5	76	28	0047	2.2	67	13 F	0157	2.3	70	28	0106	2.3	70	13 M	0319	1.8	55	28	0234	2.2	67
	0827	0.0	0	Th	0752	0.3	9		0857	0.2	6	Sa	0813	0.2	6		0958	0.4	12	Tu	0925	0.1	3
	1352	2.0	61		1329	1.8	55		1433	2.1	64		1355	2.1	64		1559	2.3	70		1521	2.6	79
	2041	0.4	12		1959	0.7	21		2124	0.6	18		2036	0.6	18		2247	0.6	18		2215	0.2	6
14 Th	0226	2.3	70	29	0137	2.2	67	14 Sa	0300	2.1	64	29	0201	2.3	70	14 Tu	0417	1.8	55	29	0337	2.1	64
	0927	0.1	3	F	0844	0.3	9		0951	0.3	9		0904	0.2	6		1043	0.5	15	W	1017	0.1	3
	1458	2.0	61		1424	1.8	55		1537	2.2	67		1451	2.2	67		1651	2.4	73		1620	2.8	85
	2147	0.4	12		2058	0.7	21		2226	0.6	18		2135	0.4	12		2337	0.6	18		2313	0.0	0
15 F	0335	2.1	64	30	0236	2.2	67	15 Su	0402	1.9	58	30	0302	2.2	67	15 W	0510	1.7	52	30	0438	2.1	64
	1025	0.2	6	Sa	0935	0.3	9		1041	0.4	12	M	0953	0.1	3		1125	0.5	15	Th	1110	0.0	0
	1605	2.0	61		1523	2.0	61		1635	2.2	67		1548	2.4	73		1738	2.4	73		1716	3.0	91
	2251	0.4	12		2156	0.5	15		2323	0.6	18						31	0404	2.2	67			
																Tu	1043	0.1	3				
																	1643	2.7	82				
																	2331	0.0	0				

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to mean lower low water which is the chart datum of soundings.

Montauk, Fort Pond Bay, New York, 2016

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 <small>F</small>	0011	-0.1	-3	16 <small>Sa</small>	0028	0.5	15	1 <small>M</small>	0141	-0.1	-3	16 <small>Tu</small>	0121	0.2	6	
	0535	2.2	67		0611	1.8	55		0706	2.3	70		0824	2.6	79	
	1205	0.0	0		1216	0.5	15		1341	0.1	3		1503	0.2	6	
	1809	3.1	94		1837	2.6	79		1937	3.0	91		2048	2.7	82	
2 <small>Sa</small>	0105	-0.2	-6	17 <small>Su</small>	0112	0.3	9	2 <small>Tu</small>	0229	-0.2	-6	17 <small>W</small>	0204	0.1	3	
	0630	2.2	67		0655	1.9	58		0757	2.4	73		0909	2.7	82	
	1259	-0.1	-3		1302	0.5	15		1432	0.1	3		1546	0.3	9	
	1901	3.2	98		1918	2.6	79		2024	2.9	88		2132	2.6	79	
3 <small>Su</small>	0158	-0.3	-9	18 <small>M</small>	0154	0.2	6	3 <small>W</small>	0314	-0.2	-6	18 <small>Th</small>	0247	-0.1	-3	
	0722	2.3	70		0738	2.0	61		0846	2.5	76		0832	2.5	76	
	1353	-0.1	-3		1348	0.4	12		1521	0.1	3		1458	0.1	3	
	1952	3.2	98		1958	2.7	82		2112	2.8	85		2051	2.9	88	
4 <small>M</small>	0248	-0.4	-12	19 <small>Tu</small>	0236	0.1	3	4 <small>Th</small>	0358	-0.1	-3	19 <small>F</small>	0330	-0.1	-3	
	0814	2.4	73		0821	2.1	64		0936	2.5	76		0917	2.6	79	
	1445	-0.1	-3		1433	0.3	9		1608	0.2	6		1547	0.0	0	
	2042	3.1	94		2038	2.8	85		2158	2.7	82		2135	2.9	88	
5 <small>Tu</small>	0336	-0.4	-12	20 <small>W</small>	0318	0.0	0	5 <small>F</small>	0441	0.0	0	20 <small>Sa</small>	0414	-0.1	-3	
	0907	2.4	73		0905	2.2	67		1025	2.5	76		1004	2.8	85	
	1537	0.0	0		1519	0.2	6		1656	0.3	9		1639	0.0	0	
	2133	3.0	91		2119	2.8	85		2245	2.6	79		2222	2.8	85	
6 <small>W</small>	0424	-0.3	-9	21 <small>Th</small>	0401	-0.1	-3	6 <small>Sa</small>	0524	0.2	6	21 <small>Su</small>	0500	-0.1	-3	
	1000	2.4	73		0949	2.3	70		1113	2.5	76		1052	2.8	85	
	1629	0.1	3		1607	0.2	6		1746	0.4	12		1214	2.5	73	
	2223	2.8	85		2202	2.8	85		2331	2.4	73		2310	2.7	82	
7 <small>Th</small>	0512	-0.2	-6	22 <small>F</small>	0445	-0.1	-3	7 <small>Su</small>	0608	0.3	9	22 <small>M</small>	0550	0.0	0	
	1052	2.4	73		1035	2.4	73		1201	2.5	76		1143	2.9	88	
	1722	0.3	9		1658	0.2	6		1839	0.5	15		1834	0.1	3	
	2312	2.6	79		2246	2.7	82						1950	0.7	21	
8 <small>F</small>	0601	0.0	0	23 <small>Sa</small>	0531	-0.1	-3	8 <small>M</small>	0018	2.2	67	23 <small>Tu</small>	0001	2.5	76	
	1144	2.4	73		1121	2.4	73		0654	0.5	15		0644	0.1	3	
	1819	0.4	12		1754	0.2	6		1251	2.4	73		1237	2.9	88	
					2332	2.6	79		1935	0.6	18		1937	0.1	3	
9 <small>Sa</small>	0001	2.4	73	24 <small>Su</small>	0621	0.0	0	9 <small>Tu</small>	0106	2.0	61	24 <small>W</small>	0056	2.3	70	
	0650	0.2	6		1209	2.5	76		0741	0.6	18		0742	0.2	6	
	1235	2.4	73		1854	0.3	9		1343	2.3	70		1335	2.8	85	
	1917	0.5	15						2030	0.7	21		2040	0.2	6	
10 <small>Su</small>	0051	2.2	67	25 <small>M</small>	0021	2.5	76	10 <small>W</small>	0159	1.8	55	25 <small>Th</small>	0155	2.2	67	
	0740	0.3	9		0712	0.0	0		0830	0.7	21		0842	0.3	9	
	1328	2.3	70		1301	2.6	79		1439	2.3	70		1439	2.8	85	
	2016	0.6	18		1956	0.2	6		2124	0.7	21		2141	0.2	6	
11 <small>M</small>	0142	2.0	61	26 <small>Tu</small>	0114	2.3	70	11 <small>Th</small>	0256	1.7	52	26 <small>F</small>	0300	2.1	64	
	0828	0.4	12		0806	0.1	3		0919	0.7	21		0943	0.3	9	
	1422	2.3	70		1357	2.7	82		1537	2.3	70		1546	2.8	85	
	2112	0.7	21		2058	0.2	6		2215	0.7	21		2241	0.2	6	
12 <small>Tu</small>	0237	1.8	55	27 <small>W</small>	0213	2.1	64	12 <small>F</small>	0356	1.7	52	27 <small>Sa</small>	0407	2.1	64	
	0914	0.5	15		0901	0.2	6		1008	0.7	21		1044	0.3	9	
	1519	2.3	70		1459	2.7	82		1634	2.3	70		1650	2.8	85	
	2205	0.7	21		2158	0.2	6		2305	0.6	18		2338	0.2	6	
13 <small>W</small>	0335	1.7	52	28 <small>Th</small>	0316	2.1	64	13 <small>Sa</small>	0452	1.8	55	28 <small>W</small>	0508	2.2	67	
	0959	0.6	18		0957	0.2	6		1057	0.7	21		1143	0.3	9	
	1615	2.3	70		1602	2.8	85		1724	2.4	73		1746	2.8	85	
	2256	0.6	18		2257	0.1	3		2352	0.5	15		1816	2.7	82	
14 <small>Th</small>	0432	1.7	52	29 <small>F</small>	0420	2.0	61	14 <small>Su</small>	0542	1.9	58	29 <small>W</small>	0032	0.1	3	
	1044	0.6	18		1054	0.2	6		1147	0.6	18		0603	2.3	70	
	1707	2.4	73		1702	2.9	88		1808	2.5	76		1239	0.3	9	
	2343	0.6	18		2355	0.0	0						1835	2.8	85	
15 <small>F</small>	0524	1.7	52	30 <small>Sa</small>	0520	2.1	64	15 <small>M</small>	0038	0.4	12	30 <small>Th</small>	0121	0.1	3	
	1130	0.6	18		1151	0.1	3		0626	2.0	61		0652	2.4	73	
	1754	2.5	76		1757	3.0	91		1236	0.5	15		1331	0.2	6	
									1849	2.7	82		1921	2.8	85	
													1939	2.9	88	
									31 <small>Su</small>	0050	-0.1	-3	31 <small>W</small>	0206	0.1	3
										0615	2.2	67		0739	2.5	76
										1248	0.1	3		1418	0.2	6
										1848	3.0	91		2005	2.7	82

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Montauk, Fort Pond Bay, New York, 2016

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 0254 0.3 9 0842 2.8 85 1523 0.3 9 2105 2.4 73	16 Su 0228 -0.2 -6 0820 3.3 101 1510 -0.4 -12 2045 2.8 85	1 Tu 0331 0.4 12 0940 2.7 82 1617 0.2 6 2206 2.0 61	16 W 0342 -0.4 -12 0943 3.3 101 1638 -0.6 -18 2209 2.4 73	1 Th 0344 0.3 9 0958 2.4 73 1634 0.0 0 2226 1.8 55	16 F 0420 -0.4 -12 1019 2.8 85 1711 -0.6 -18 2246 2.2 67						
	2 Su 0330 0.4 12 0925 2.8 85 1602 0.3 9 2148 2.3 70	17 M 0314 -0.2 -6 0910 3.4 104 1602 -0.4 -12 2135 2.7 82	2 W 0409 0.5 15 1024 2.6 79 1700 0.3 9 2251 2.0 61	2 Th 0437 -0.2 -6 1038 3.1 94 1734 -0.4 -12 2305 2.3 70	2 F 0427 0.3 9 1040 2.3 70 1720 0.0 0 2312 1.7 52						
	3 M 0405 0.5 15 1009 2.7 82 1644 0.4 12 2232 2.2 67	18 Tu 0403 -0.2 -6 1002 3.4 104 1657 -0.3 -9 2229 2.6 79	3 Th 0451 0.6 18 1108 2.5 76 1748 0.3 9 2338 1.9 58	18 F 0536 -0.1 -3 1134 2.9 88 1832 -0.3 -9	3 Sa 0515 0.4 12 1122 2.2 67 1808 0.0 0 2357 1.7 52	18 Su 0618 -0.1 -3 1206 2.3 70 1901 -0.3 -9					
	4 Tu 0443 0.6 18 1054 2.7 82 1729 0.5 15 2318 2.1 64	19 W 0457 0.0 0 1057 3.3 101 1755 -0.2 -6 2324 2.4 73	4 F 0540 0.7 21 1153 2.3 70 1840 0.4 12	19 Sa 0003 2.2 67 0641 0.1 3 1231 2.6 79 1932 -0.1 -3	4 Su 0610 0.5 15 1204 2.1 64 1859 0.1 3	19 M 0037 2.0 61 0723 0.1 3 1300 2.0 61 1957 -0.2 -6					
5 W 0524 0.7 21 1139 2.5 76 1819 0.6 18	20 Th 0556 0.1 3 1154 3.1 94 1856 -0.1 -3	5 Sa 0026 1.8 55 0637 0.8 24 1238 2.2 67 1934 0.4 12	20 Su 0103 2.1 64 0749 0.3 9 1331 2.3 70 2032 0.0 0	5 M 0044 1.7 52 0710 0.5 15 1248 2.0 61 1951 0.1 3	20 Tu 0135 2.0 61 0827 0.2 6 1356 1.8 55 2051 0.0 0						
6 Th 0005 2.0 61 0613 0.8 24 1227 2.4 73 1913 0.6 18	21 F 0022 2.3 70 0701 0.3 9 1254 2.8 85 1959 0.1 3	6 Su 0117 1.8 55 0739 0.8 24 1328 2.2 67 2026 0.4 12	21 M 0206 2.1 64 0857 0.3 9 1434 2.1 64 2128 0.1 3	6 Tu 0134 1.7 52 0811 0.4 12 1339 2.0 61 2041 0.0 0	21 W 0236 1.9 58 0930 0.2 6 1456 1.6 49 2143 0.1 3						
7 F 0054 1.9 58 0710 0.9 27 1317 2.3 70 2008 0.7 21	22 Sa 0123 2.2 67 0810 0.4 12 1358 2.6 79 2100 0.1 3	7 M 0212 1.8 55 0839 0.7 21 1422 2.1 64 2116 0.3 9	22 Tu 0311 2.1 64 1001 0.4 12 1537 1.9 58 2221 0.1 3	7 W 0228 1.9 58 0910 0.3 9 1436 1.9 58 2130 0.0 0	22 Th 0336 1.9 58 1028 0.2 6 1556 1.5 46 2231 0.1 3						
8 Sa 0149 1.8 55 0810 0.9 27 1413 2.2 67 2102 0.6 18	23 Su 0229 2.2 67 0917 0.5 15 1506 2.4 73 2158 0.2 6	8 Tu 0309 1.9 58 0935 0.6 18 1520 2.1 64 2204 0.2 6	23 W 0414 2.1 64 1100 0.3 9 1637 1.8 55 2310 0.2 6	8 Th 0324 2.0 61 1007 0.1 3 1537 1.9 58 2218 -0.1 -3	23 F 0433 2.0 61 1122 0.2 6 1652 1.4 43 2316 0.2 6						
9 Su 0248 1.8 55 0907 0.9 27 1511 2.2 67 2152 0.6 18	24 M 0338 2.2 67 1021 0.5 15 1612 2.3 70 2253 0.2 6	9 W 0403 2.1 64 1030 0.4 12 1616 2.2 67 2251 0.1 3	24 Th 0507 2.2 67 1154 0.3 9 1727 1.8 55 2354 0.2 6	9 F 0419 2.3 70 1103 -0.1 -3 1635 1.9 58 2308 -0.2 -6	24 Sa 0523 2.1 64 1210 0.2 6 1741 1.4 43 2359 0.2 6						
10 M 0347 1.9 58 1002 0.8 24 1607 2.3 70 2240 0.5 15	25 Tu 0441 2.3 70 1121 0.4 12 1709 2.2 67 2343 0.2 6	10 Th 0451 2.3 70 1124 0.2 6 1707 2.3 70 2338 0.0 0	25 F 0552 2.3 70 1240 0.2 6 1811 1.8 55	10 Sa 0511 2.6 79 1159 -0.3 -9 1729 2.0 61 2358 -0.3 -9	25 Su 0608 2.1 64 1252 0.1 3 1825 1.5 46						
11 Tu 0439 2.1 64 1055 0.6 18 1657 2.4 73 2326 0.3 9	26 W 0532 2.4 73 1215 0.4 12 1756 2.2 67	11 F 0538 2.6 79 1218 -0.1 -3 1756 2.4 73	26 Sa 0035 0.2 6 0633 2.4 73 1321 0.2 6 1851 1.8 55	11 Su 0601 2.8 85 1253 -0.5 -15 1821 2.1 64	26 M 0040 0.2 6 0650 2.2 67 1331 0.0 0 1908 1.5 46						
12 W 0524 2.3 70 1147 0.4 12 1742 2.5 76	27 Th 0028 0.3 9 0616 2.5 76 1302 0.3 9 1838 2.2 67	12 Sa 0025 -0.2 -6 0623 2.9 88 1310 -0.3 -9 1844 2.5 76	27 Su 0112 0.2 6 0713 2.5 76 1358 0.1 3 1932 1.8 55	12 M 0049 -0.4 -12 0651 3.0 91 1346 -0.7 -21 1912 2.2 67	27 Tu 0121 0.1 3 0732 2.3 70 1409 -0.1 -3 1950 1.6 49						
13 Th 0012 0.1 3 0607 2.6 79 1238 0.1 3 1826 2.7 82	28 F 0109 0.3 9 0657 2.6 79 1344 0.3 9 1917 2.2 67	13 Su 0113 -0.3 -9 0710 3.2 98 1402 -0.5 -15 1932 2.5 76	28 M 0149 0.2 6 0753 2.5 76 1435 0.0 0 2014 1.8 55	13 Tu 0141 -0.5 -15 0741 3.1 94 1437 -0.8 -24 2003 2.2 67	28 W 0201 0.0 0 0812 2.3 70 1448 -0.2 -6 2033 1.7 52						
14 F 0057 0.0 0 0649 2.9 88 1329 -0.1 -3 1910 2.8 85	29 Sa 0146 0.3 9 0736 2.7 82 1422 0.2 6 1957 2.2 67	14 M 0201 -0.4 -12 0759 3.3 101 1453 -0.6 -18 2023 2.5 76	29 Tu 0226 0.2 6 0834 2.5 76 1513 0.0 0 2056 1.8 55	14 W 0233 -0.6 -18 0833 3.1 94 1528 -0.8 -24 2056 2.2 67	29 Th 0242 0.0 0 0853 2.3 70 1527 -0.3 -9 2116 1.7 52						
15 Sa 0142 -0.1 -3 0733 3.1 94 1419 -0.3 -9 O 1956 2.8 85	30 Su 0221 0.3 9 0817 2.7 82 1459 0.2 6 2038 2.1 64	15 Tu 0251 -0.4 -12 0850 3.4 104 1545 -0.6 -18 2115 2.5 76	30 W 0304 0.2 6 0916 2.5 76 1552 0.0 0 2141 1.8 55	15 Th 0326 -0.5 -15 0926 3.0 91 1619 -0.7 -21 2150 2.2 67	30 F 0324 0.0 0 0934 2.3 70 1608 -0.3 -9 2200 1.7 52						
	31 M 0256 0.4 12 0858 2.7 82 1537 0.2 6 2121 2.1 64				31 Sa 0407 0.0 0 1014 2.2 67 1651 -0.3 -9 2244 1.7 52						

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

New London, Connecticut, 2016

Times and Heights of High and Low Waters

January				February				March						
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height			
h m	ft	cm		h m	ft	cm		h m	ft	cm				
1 F 0214	2.4	73		16 0158	2.7	82		1 0324	2.4	73				
0851	0.5	15	Sa	0844	-0.1	-3	M	0955	0.4	12	Tu	1030	-0.1	-3
1435	2.1	64		1418	2.4	73		1549	1.9	58		1613	2.1	64
2106	0.3	9	O	2100	-0.2	-6		2158	0.4	12		2239	0.0	0
2 Sa 0312	2.4	73	17 Su 0301	2.8	85	2 Tu 0422	2.4	73	17 W 0454	2.8	85	2 W 0335	2.4	73
0946	0.5	15		0947	-0.1	-3		1048	0.3	9		1130	-0.1	-3
1534	2.0	61	Su	1523	2.3	70	Tu	1648	1.9	58	W	1717	2.2	67
O 2154	0.4	12		2157	-0.1	-3		2250	0.4	12		2341	0.0	0
3 Su 0410	2.5	76	18 M 0407	2.8	85	3 W 0515	2.5	76	18 Th 0554	2.8	85	3 Th 0434	2.4	73
1040	0.4	12		1048	-0.2	-6		1140	0.2	6		1228	-0.2	-6
1633	1.9	58	M	1629	2.2	67		1741	1.9	58	Th	1814	2.3	70
2242	0.4	12		2256	-0.1	-3		2341	0.3	9				
4 M 0503	2.5	76	19 Tu 0509	2.9	88	4 Th 0603	2.6	79	19 F 0039	0.0	0	4 F 0527	2.6	79
1131	0.3	9		1148	-0.3	-9		1230	0.1	3	F	0645	2.8	85
1727	2.0	61	Tu	1731	2.2	67		1828	2.0	61		1321	-0.2	-6
2330	0.4	12		2354	-0.1	-3					1903	2.4	73	
5 Tu 0552	2.6	79	20 W 0605	3.0	91	5 F 0032	0.2	6	20 Sa 0133	-0.1	-3	5 Sa 0002	0.3	9
1219	0.2	6		1246	-0.3	-9		0647	2.7	82		0732	2.8	85
1815	2.0	61	W	1825	2.3	70		1317	-0.1	-3	Sa	1408	-0.3	-9
								1910	2.2	67		1948	2.5	76
6 W 0017	0.3	9	21 Th 0051	-0.2	-6	6 Sa 0121	0.1	3	21 Su 0221	-0.1	-3	6 Su 0055	0.0	0
0636	2.7	82		0656	3.0	91		0729	2.9	88		0814	2.8	85
1305	0.1	3	Th	1339	-0.4	-12		1402	-0.3	-9	Su	1451	-0.3	-9
1859	2.1	64		1916	2.4	73		1951	2.3	70		2030	2.6	79
7 Th 0103	0.2	6	22 F 0144	-0.2	-6	7 Su 0208	-0.1	-3	22 M 0305	-0.1	-3	7 M 0146	-0.2	-6
0717	2.8	85		0743	3.1	94		0810	3.0	91		0856	2.8	85
1349	-0.1	-3	F	1427	-0.5	-15		1447	-0.4	-12	M	1531	-0.2	-6
1940	2.2	67		2003	2.4	73		2033	2.5	76	O	2113	2.7	82
8 F 0148	0.1	3	23 Sa 0234	-0.2	-6	8 M 0255	-0.3	-9	23 Tu 0346	-0.1	-3	8 Tu 0236	-0.4	-12
0756	2.9	88		0829	3.0	91		0853	3.1	94		0937	2.7	82
1431	-0.2	-6	Sa	1513	-0.5	-15		1530	-0.6	-18	Tu	1608	-0.2	-6
2021	2.3	70		O 2049	2.5	76		2117	2.7	82		2156	2.7	82
9 Sa 0232	0.0	0	24 Su 0320	-0.2	-6	9 Tu 0343	-0.4	-12	24 W 0427	-0.1	-3	9 W 0325	-0.6	-18
0836	3.0	91		0914	3.0	91		0937	3.1	94		0919	2.6	79
1514	-0.4	-12	Su	1556	-0.4	-12		1615	-0.6	-18	Tu	1502	-0.5	-15
2102	2.3	70		2135	2.5	76		2203	2.8	85		O 2049	3.0	91
10 Su 0316	-0.1	-3	25 M 0405	-0.2	-6	10 W 0433	-0.5	-15	25 Th 0508	0.0	0	10 Th 0416	-0.7	-21
0916	3.1	94		0959	2.9	88		1024	3.1	94		1101	2.5	76
1556	-0.5	-15	M	1637	-0.3	-9		1701	-0.6	-18	Th	1723	0.0	0
2144	2.4	73		2221	2.6	79		2251	2.9	88		2322	2.7	82
11 M 0401	-0.2	-6	26 Tu 0450	-0.1	-3	11 Th 0525	-0.5	-15	26 F 0550	0.1	3	11 F 0508	-0.7	-21
0959	3.1	94		1043	2.7	82		1113	3.0	91		1144	2.4	73
1641	-0.5	-15	Tu	1719	-0.2	-6		1749	-0.5	-15	F	1803	0.2	6
2229	2.5	76		2308	2.6	79		2342	3.0	91		2319	3.3	101
12 Tu 0450	-0.2	-6	27 W 0535	0.0	0	12 F 0622	-0.4	-12	27 Sa 0006	2.7	82	12 Sa 0604	-0.6	-18
1045	3.0	91		1128	2.6	79		1204	2.8	85		0636	0.2	6
1727	-0.5	-15	W	1800	-0.1	-3		1842	-0.4	-12	Sa	1228	2.3	70
2316	2.6	79		2354	2.6	79					1845	0.3	9	
13 W 0542	-0.2	-6	28 Th 0623	0.1	3	13 Sa 0036	3.0	91	28 Su 0052	2.6	79	13 M 0013	3.2	98
1132	3.0	91		1213	2.4	73		0722	-0.3	-9		0726	0.3	9
1816	-0.4	-12	Th	1844	0.1	3		1258	2.6	79		1314	2.1	64
								1938	-0.3	-9		1932	0.4	12
14 Th 0006	2.6	79	29 F 0042	2.5	76	14 Su 0134	2.9	88	29 M 0141	2.5	76	14 M 0111	3.1	94
0640	-0.2	-6		0713	0.3	9		0824	-0.2	-6		0818	0.3	9
1223	2.8	85	F	1301	2.2	67		1358	2.4	73		1406	2.0	61
1909	-0.4	-12		1930	0.2	6		2037	-0.1	-3		2024	0.5	15
15 F 0059	2.7	82	30 Sa 0132	2.5	76	15 M 0238	2.8	85	15 Tu 0215	2.9	88	15 W 0148	2.5	76
0741	-0.1	-3		0807	0.3	9		0927	-0.2	-6		0906	-0.1	-3
1317	2.6	79	Sa	1351	2.1	64		1503	2.2	67		1445	2.3	70
2003	-0.3	-9		2018	0.3	9		O 2138	0.0	0		2120	0.2	6
31 Su 0226	2.4	73												
0901	0.4	12												
1448	1.9	58												
O 2107	0.4	12												

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

New London, Connecticut, 2016

Times and Heights of High and Low Waters

April					May					June					
	Time	Height		Time	Height		Time	Height		Time	Height		Time	Height	
1 F	0348	2.5	76	16	0511	2.6	79	1	0407	2.7	82	16	0530	2.4	73
	1024	0.3	9	Sa	1135	0.2	6	Su	1042	0.2	6	M	1147	0.5	15
	1626	2.2	67		1645	2.7	82		1751	2.9	88	W	1157	0.0	0
	2239	0.5	15		2312	0.3	9					Th	1801	3.5	107
2 Sa	0447	2.6	79	17	0006	0.4	12	2	0505	2.8	85	17	0030	0.5	15
	1117	0.2	6	Su	0605	2.5	76	M	1134	0.1	3	Tu	0617	2.4	73
	1719	2.4	73		1226	0.3	9		1736	3.0	91		1233	0.5	15
	2335	0.3	9		1822	2.7	82						1835	3.0	91
3 Su	0540	2.8	85	18	0058	0.3	9	3	0009	0.1	3	18	0116	0.4	12
	1208	0.0	0	M	0650	2.5	76	Tu	0558	2.9	88	W	0701	2.4	73
	1806	2.7	82		1311	0.3	9		1226	0.0	0		1316	0.5	15
					1903	2.9	88		1824	3.3	101		1915	3.1	94
4 M	0031	0.0	0	19	0144	0.2	6	4	0105	-0.2	-6	19	0158	0.3	9
	0629	2.9	88	Tu	0730	2.5	76	W	0649	3.0	91	Th	0742	2.4	73
	1258	-0.1	-3		1352	0.3	9		1317	-0.2	-6		1355	0.5	15
	1852	2.9	88		1943	3.0	91		1912	3.5	107		1955	3.1	94
5 Tu	0125	-0.2	-6	20	0225	0.1	3	5	0159	-0.4	-12	20	0237	0.2	6
	0716	3.0	91	W	0810	2.5	76	Th	0739	3.0	91	F	0823	2.5	76
	1347	-0.3	-9		1430	0.3	9		1407	-0.2	-6		1434	0.5	15
	1937	3.2	98		2022	3.0	91		2001	3.7	113		2035	3.2	98
6 W	0217	-0.5	-15	21	0303	0.1	3	6	0251	-0.6	-18	21	0314	0.1	3
	0803	3.1	94	Th	0849	2.5	76	F	0829	3.0	91	Sa	0905	2.5	76
	1434	-0.4	-12		1506	0.3	9		1457	-0.3	-9		1511	0.5	15
	2024	3.4	104		2102	3.1	94		● 2051	3.8	116	O	2115	3.2	98
7 Th	0308	-0.6	-18	22	0340	0.1	3	7	0342	-0.6	-18	22	0352	0.1	3
	0851	3.1	94	F	0930	2.5	76	Sa	0921	3.0	91	Su	0947	2.5	76
	1521	-0.5	-15		1541	0.4	12		1547	-0.2	-6		1550	0.5	15
	2113	3.6	110	O	2142	3.1	94		2143	3.8	116		2155	3.1	94
8 F	0359	-0.7	-21	23	0417	0.0	0	8	0434	-0.6	-18	23	0432	0.1	3
	0942	3.1	94	Sa	1012	2.5	76	Su	1015	3.0	91	M	1030	2.5	76
	1609	-0.4	-12		1618	0.4	12		1639	-0.1	-3		1630	0.6	18
	2204	3.6	110		2222	3.0	91		2237	3.7	113		2235	3.1	94
9 Sa	0451	-0.7	-21	24	0456	0.1	3	9	0526	-0.5	-15	24	0513	0.1	3
	1034	3.0	91	Su	1054	2.5	76	M	1109	2.9	88	Th	1113	2.5	76
	1700	-0.3	-9		1656	0.5	15		1734	0.0	0		1713	0.6	18
	2257	3.6	110		2303	3.0	91		2332	3.5	107		2315	3.0	91
10 Su	0545	-0.6	-18	25	0538	0.1	3	10	0621	-0.3	-9	25	0558	0.1	3
	1128	2.9	88	M	1137	2.4	73	Tu	1205	2.8	85	W	1157	2.5	76
	1754	-0.1	-3		1738	0.6	18		1832	0.2	6		1801	0.7	21
	2352	3.4	104		2343	2.9	88					2357	3.0	91	
11 M	0642	-0.4	-12	26	0623	0.2	6	11	0028	3.2	98	26	0646	0.1	3
	1223	2.7	82	Tu	1220	2.4	73	W	0718	-0.1	-3	Sa	0718	2.7	82
	1853	0.1	3		1825	0.7	21		1302	2.7	82		1241	2.5	76
									1934	0.4	12		1855	0.7	21
12 Tu	0050	3.2	98	27	0024	2.8	85	12	0126	3.0	91	27	0041	2.9	88
	0742	-0.2	-6	W	0712	0.2	6	Th	0815	0.1	3	F	0736	0.2	6
	1322	2.6	79		1305	2.3	70		1402	2.7	82		1328	2.5	76
	1956	0.2	6		1918	0.7	21		2038	0.5	15		1953	0.6	18
13 W	0151	3.0	91	28	0109	2.7	82	13	0228	2.8	85	28	0131	2.8	85
	0842	0.0	0	Th	0804	0.3	9	F	0912	0.2	6	Sa	0828	0.2	6
	1426	2.5	76		1355	2.3	70		1505	2.6	79		1420	2.6	79
	2101	0.4	12		2016	0.7	21		● 2141	0.6	18		2052	0.6	18
14 Th	0258	2.8	85	29	0202	2.7	82	14	0332	2.6	79	29	0229	2.8	85
	0942	0.1	3	F	0857	0.3	9	Sa	1006	0.3	9	Tu	0919	0.2	6
	1533	2.5	76		1451	2.4	73		1607	2.7	82		1517	2.8	85
	2205	0.4	12		● 2114	0.6	18		2241	0.6	18		● 2151	0.4	12
15 F	0408	2.6	79	30	0304	2.7	82	15	0434	2.5	76	30	0332	2.7	82
	1040	0.2	6	Sa	0950	0.2	6	W	1058	0.4	12	M	1011	0.1	3
	1639	2.5	76		1550	2.5	76		2238	0.5	15		1615	3.0	91
	2307	0.4	12		2213	0.5	15					2251	0.3	9	
31	0434	2.7	82					31	0434	2.7	82		0449	2.3	70
								Tu	1104	0.1	3		1105	0.6	18
									1710	3.2	98		1717	2.9	88
									2349	0.1	3		2355	0.6	18

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

New London, Connecticut, 2016

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 0030 2.7 82 0606 0.1 3 1231 3.6 110	0.5 15		16 Sa 0050 0.643 2.3 70 1246 0.7 21 1900 3.1 94	0.2 6		16 M 0201 0.737 2.8 85 1407 0.1 3 2003 3.4 104	0.0 0		16 Th 0309 0.851 3.0 91 1527 0.2 6 2114 3.1 94	0.238 0.0 0	
	-0.1 -3		17 Su 0134 0.727 2.4 73 1332 0.6 18 1941 3.1 94	-0.2 -6		17 Tu 0249 0.825 2.9 88 1457 0.1 3 2050 3.4 104	0.0 0		17 F 0349 0.935 3.1 94 1610 0.2 6 2157 3.0 91	0.827 3.2 98	
	2.7 82		18 M 0216 0.809 2.5 76 1416 0.5 15 2021 3.2 98	0.2 6		18 W 0334 0.914 2.9 88 1545 0.1 3 2137 3.3 101	-0.1 -3		18 Sa 0428 1.019 3.1 94 1653 0.3 9 2241 2.9 88	0.322 0.959 3.5	104
	0.1 3		19 Tu 0258 0.851 2.6 79 1500 0.4 12 2101 3.3 101	0.1 3		19 Th 0418 1.002 3.0 91 1632 0.2 6 2223 3.1 94	-0.1 -3		19 Su 0507 1.104 3.1 94 1737 0.4 12 2325 2.7 82	0.407 1.051 3.6	110
4 M 0308 2.8 85 0843 0.0 0 1512 3.6 110	0.1 3		20 W 0339 0.933 2.7 82	0.0 0		20 F 0501 1.050 3.0 91	0.0 0		20 M 0548 1.150 3.1 94	0.546 1.145 3.5	107
	-0.3 -9		21 Tu 0356 1.0935 2.9 88 1603 0.1 3 2158 3.5 107	0.2 82		21 Th 0543 1.1029 3.2 98	-0.2 -6		21 Tu 0548 1.1824 0.5 15	0.0 1.145 0.1	-3
	2.9 88		22 W 0356 1.0933 2.7 82	0.0 0		22 F 0544 1.1137 3.0 91	0.2 6		22 M 0548 1.1150 3.1 94	0.0 1.145 0.1	-3
	0.1 3		23 Tu 0443 1.1016 2.8 85 1654 0.2 6 2248 3.3 101	-0.1 -3		23 Th 0544 1.1137 3.0 91	-0.1 -3		23 W 0544 1.1237 3.0 91	0.1 1.242 3.4	104
6 W 0443 2.9 88 1027 0.2 6	0.2 6		24 F 0443 1.1016 2.8 85 1654 0.2 6 2248 3.3 101	0.2 6		24 Tu 0544 1.1117 3.3 101	-0.1 -3		24 W 0544 1.1237 3.0 91	0.0 1.242 3.4	104
	-0.2 -6		25 Tu 0531 1.1116 2.9 88 1746 0.3 9 2338 3.1 94	-0.1 -3		25 Th 0544 1.1117 3.3 101	-0.1 -3		25 F 0544 1.1237 3.0 91	0.0 1.242 3.4	104
	2.9 88		26 W 0531 1.1116 2.9 88	0.0 0		26 M 0544 1.1117 3.3 101	0.0 0		26 M 0544 1.1237 3.0 91	0.0 1.242 3.4	104
	0.1 3		27 M 0531 1.1116 2.9 88	0.0 0		27 W 0544 1.1117 3.3 101	0.0 0		27 F 0544 1.1237 3.0 91	0.0 1.242 3.4	104
7 Th 0531 2.9 88 1119 0.3 9 1746 0.3 9 2338 3.1 94	-0.1 -3		28 F 0531 1.1116 2.9 88	0.0 0		28 Tu 0544 1.1117 3.3 101	0.0 0		28 W 0544 1.1237 3.0 91	0.0 1.242 3.4	104
	2.9 88		29 Tu 0531 1.1116 2.9 88	-0.1 -3		29 M 0544 1.1117 3.3 101	-0.1 -3		29 M 0544 1.1237 3.0 91	0.0 1.242 3.4	104
	0.3 9		30 W 0531 1.1116 2.9 88	0.0 0		30 F 0544 1.1117 3.3 101	0.0 0		30 F 0544 1.1237 3.0 91	0.0 1.242 3.4	104
	3.1 94		31 M 0531 1.1116 2.9 88	0.0 0		31 W 0544 1.1117 3.3 101	0.0 0		31 W 0544 1.1237 3.0 91	0.0 1.242 3.4	104
8 F 0619 0.0 0 1210 2.9 88 1840 0.4 12	0.0 0		32 Tu 0551 1.1146 3.0 91	-0.1 -3		32 M 0551 1.1146 3.0 91	0.0 0		32 W 0551 1.1146 3.0 91	0.0 0	
	2.9 88		33 W 0551 1.1146 3.0 91	0.0 0		33 F 0551 1.1146 3.0 91	-0.1 -3		33 M 0551 1.1146 3.0 91	0.0 0	
	0.4 12		34 M 0551 1.1146 3.0 91	0.0 0		34 W 0551 1.1146 3.0 91	-0.1 -3		34 F 0551 1.1146 3.0 91	0.0 0	
	3.1 94		35 F 0551 1.1146 3.0 91	0.0 0		35 M 0551 1.1146 3.0 91	-0.1 -3		35 W 0551 1.1146 3.0 91	0.0 0	
9 Sa 0027 2.9 88 0708 0.2 6 1301 2.9 88 1936 0.6 18	2.9 88		36 W 0551 1.1146 3.0 91	-0.1 -3		36 F 0551 1.1146 3.0 91	0.0 0		36 M 0551 1.1146 3.0 91	0.0 0	
	0.2 6		37 M 0551 1.1146 3.0 91	0.0 0		37 W 0551 1.1146 3.0 91	-0.1 -3		37 F 0551 1.1146 3.0 91	0.0 0	
	2.9 88		38 F 0551 1.1146 3.0 91	0.0 0		38 M 0551 1.1146 3.0 91	-0.1 -3		38 W 0551 1.1146 3.0 91	0.0 0	
	0.6 18		39 M 0551 1.1146 3.0 91	0.0 0		39 W 0551 1.1146 3.0 91	-0.1 -3		39 F 0551 1.1146 3.0 91	0.0 0	
10 Su 0118 2.7 82 0757 0.4 12 1353 2.9 88 2033 0.6 18	2.7 82		40 M 0548 1.1252 3.0 91	-0.1 -3		40 W 0548 1.1252 3.0 91	0.0 0		40 M 0548 1.1252 3.0 91	0.0 0	
	0.4 12		41 W 0548 1.1252 3.0 91	0.0 0		41 F 0548 1.1252 3.0 91	-0.1 -3		41 W 0548 1.1252 3.0 91	0.0 0	
	2.9 88		42 M 0548 1.1252 3.0 91	0.0 0		42 W 0548 1.1252 3.0 91	-0.1 -3		42 F 0548 1.1252 3.0 91	0.0 0	
	0.6 18		43 W 0548 1.1252 3.0 91	0.0 0		43 M 0548 1.1252 3.0 91	-0.1 -3		43 W 0548 1.1252 3.0 91	0.0 0	
11 M 0211 2.5 76 0846 0.5 15 1448 2.8 85 2128 0.7 21	2.5 76		44 W 0548 1.1252 3.0 91	-0.1 -3		44 M 0548 1.1252 3.0 91	0.0 0		44 W 0548 1.1252 3.0 91	0.0 0	
	0.5 15		45 M 0548 1.1252 3.0 91	0.0 0		45 W 0548 1.1252 3.0 91	-0.1 -3		45 M 0548 1.1252 3.0 91	0.0 0	
	2.8 85		46 W 0548 1.1252 3.0 91	0.0 0		46 F 0548 1.1252 3.0 91	-0.1 -3		46 W 0548 1.1252 3.0 91	0.0 0	
	0.7 21		47 F 0548 1.1252 3.0 91	0.0 0		47 M 0548 1.1252 3.0 91	-0.1 -3		47 W 0548 1.1252 3.0 91	0.0 0	
12 Tu 0309 2.3 70 0934 0.6 18 1545 2.8 85 2222 0.7 21	2.3 70		48 W 0548 1.1252 3.0 91	-0.1 -3		48 M 0548 1.1252 3.0 91	0.0 0		48 W 0548 1.1252 3.0 91	0.0 0	
	0.6 18		49 M 0548 1.1252 3.0 91	0.0 0		49 W 0548 1.1252 3.0 91	-0.1 -3		49 M 0548 1.1252 3.0 91	0.0 0	
	2.8 85		50 W 0548 1.1252 3.0 91	0.0 0		50 F 0548 1.1252 3.0 91	-0.1 -3		50 W 0548 1.1252 3.0 91	0.0 0	
	0.7 21		51 F 0548 1.1252 3.0 91	0.0 0		51 M 0548 1.1252 3.0 91	-0.1 -3		51 W 0548 1.1252 3.0 91	0.0 0	
13 W 0408 2.2 67 1022 0.7 21 1640 2.9 88 2314 0.7 21	2.2 67		52 M 0548 1.1252 3.0 91	-0.1 -3		52 W 0548 1.1252 3.0 91	0.0 0		52 M 0548 1.1252 3.0 91	0.0 0	
	0.7 21		53 W 0548 1.1252 3.0 91	0.0 0		53 F 0548 1.1252 3.0 91	-0.1 -3		53 W 0548 1.1252 3.0 91	0.0 0	
	2.9 88		54 F 0548 1.1252 3.0 91	0.0 0		54 M 0548 1.1252 3.0 91	-0.1 -3		54 W 0548 1.1252 3.0 91	0.0 0	
	0.7 21		55 M 0548 1.1252 3.0 91	0.0 0		55 W 0548 1.1252 3.0 91	-0.1 -3		55 F 0548 1.1252 3.0 91	0.0 0	
14 Th 0505 2.2 67 1110 0.7 21 1731 2.9 88	2.2 67		56 F 0548 1.1252 3.0 91	-0.1 -3		56 M 0548 1.1252 3.0 91	0.0 0		56 W 0548 1.1252 3.0 91	0.0 0	
	0.7 21		57 M 0548 1.1252 3.0 91	0.0 0		57 W 0548 1.1252 3.0 91	-0.1 -3		57 F 0548 1.1252 3.0 91	0.0 0	
	2.9 88		58 W 0548 1.1252 3.0 91	0.0 0		58 M 0548 1.1252 3.0 91	-0.1 -3		58 W 0548 1.1252 3.0 91	0.0 0	
	0.7 21		59 M 0548 1.1252 3.0 91	0.0 0		59 W 0548 1.1252 3.0 91	-0.1 -3		59 F 0548 1.1252 3.0 91	0.0 0	
15 F 0004 0.6 18 0556 2.3 70 1159 0.7 21 1817 3.0 91	0.6 18		60 F 0548 1.1252 3.0 91	-0.1 -3		60 M 0548 1.1252 3.0 91	0.0 0		60 W 0548 1.1252 3.0 91	0.0 0	
	2.3 70		61 M 0548 1.1252 3.0 91	0.0 0		61 W 0548 1.1252 3.0 91	-0.1 -3		61 F 0548 1.1252 3.0 91	0.0 0	
	0.7 21		62 W 0548 1.1252 3.0 91	0.0 0		62 M 0548 1.1252 3.0 91	-0.1 -3		62 W 0548 1.1252 3.0 91	0.0 0	
	3.0 91		63 W 0548 1.1252 3.0 91	0.0 0		63 F 0548 1.1252 3.0 91	-0.1 -3		63 W 0548 1.1252 3.0 91	0.0 0	
16 Su 0646 2.7 82 1314 0.1 3 1915 3.5 107	2.7 82		64 M 0548 1.1252 3.0 91	-0.1 -3		64 W 0548 1.1252 3.0 91	0.0 0		64 W 0548 1.1252 3.0 91	0.0 0	
	0.1 3		65 M 0548 1.1252 3.0 91	0.0 0		65 W 0548 1.1252 3.0 91	-0.1 -3		65 M 0548 1.1252 3.0 91	0.0 0	
	3.5 107		66 W 0548 1.1252 3.0 91	0.0 0		66 F 0548 1.1252 3.0 91	-0.1 -3		66 W 0548 1.1252 3.0 91	0.0 0	
	3.5 107		67 F 0548 1.1252 3.0 91	0.0 0		67 M 0548 1.1252 3.0 91	-0.1 -3		67 W 0548 1.1252 3.0 91	0.0 0	

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.

Heights are referred to mean lower low water which is the chart datum of soundings.

New London, Connecticut, 2016

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	0319	0.3	9	16 Su	0253	-0.2	-6	1 Tu	0401	0.5	15	16 W	0409	-0.3	-9
	0907	3.2	98		0845	3.7	113		1003	3.1	94		1007	3.7	113
	1547	0.2	6		1532	-0.4	-12		1640	0.2	6		1658	-0.6	-18
	2131	2.8	85		2110	3.2	98		2232	2.5	76		2237	2.9	88
2 Su	0355	0.3	9	17 M	0340	-0.3	-9	2 W	0438	0.5	15	17 Th	0503	-0.2	-6
	0949	3.2	98		0934	3.8	116		1046	3.0	91		1103	3.5	107
	1626	0.2	6		1623	-0.5	-15		1721	0.2	6		1753	-0.4	-12
	2213	2.7	82		2202	3.1	94		2317	2.4	73		2334	2.8	85
3 M	0432	0.4	12	18 Tu	0430	-0.2	-6	3 Th	0519	0.6	18	18 F	0602	0.0	0
	1032	3.2	98		1027	3.7	113		1129	2.9	88		1200	3.3	101
	1707	0.3	9		1717	-0.4	-12		1806	0.3	9		1850	-0.3	-9
	2257	2.6	79		2256	3.0	91								
4 Tu	0510	0.6	18	19 W	0523	-0.1	-3	4 F	0003	2.4	73	19 Sa	0033	2.7	82
	1116	3.1	94		1123	3.6	110		0606	0.7	21		0704	0.2	6
	1750	0.4	12		1814	-0.3	-9		1213	2.8	85		1300	3.1	94
	2342	2.5	76		2353	2.9	88		1855	0.4	12		1949	-0.1	-3
5 W	0552	0.7	21	20 Th	0622	0.1	3	5 Sa	0051	2.3	70	20 Su	0134	2.6	79
	1201	3.0	91		1221	3.4	104		0659	0.8	24		0809	0.3	9
	1837	0.5	15		1914	-0.1	-3		1259	2.7	82		1402	2.8	85
									1946	0.4	12		2047	0.0	0
6 Th	0030	2.4	73	21 F	0053	2.7	82	6 Su	0143	2.3	70	21 M	0238	2.6	79
	0639	0.8	24		0725	0.3	9		0756	0.8	24		0914	0.4	12
	1248	2.9	88		1323	3.2	98		1351	2.6	79		1507	2.6	79
	1928	0.6	18		2015	0.0	0		2039	0.4	12		2144	0.1	3
7 F	0121	2.3	70	22 Sa	0157	2.6	79	7 M	0238	2.3	70	22 Tu	0343	2.6	79
	0732	0.9	27		0831	0.4	12		0854	0.7	21		1016	0.4	12
	1340	2.7	82		1430	3.0	91		1449	2.6	79		1612	2.5	76
	2021	0.6	18		2116	0.1	3		2130	0.3	9		2238	0.2	6
8 Sa	0217	2.3	70	23 Su	0305	2.6	79	8 Tu	0335	2.4	73	23 W	0443	2.7	82
	0829	0.9	27		0936	0.4	12		0952	0.6	18		1115	0.4	12
	1436	2.7	82		1540	2.9	88		1548	2.6	79		1710	2.4	73
	2115	0.6	18		2214	0.2	6		2221	0.2	6		2329	0.3	9
9 Su	0317	2.3	70	24 M	0413	2.6	79	9 W	0429	2.6	79	24 Th	0534	2.8	85
	0925	0.9	27		1039	0.4	12		1048	0.4	12		1210	0.3	9
	1536	2.7	82		1645	2.8	85		1644	2.7	82		1759	2.4	73
	2206	0.5	15		2310	0.2	6		2310	0.1	3				
10 M	0415	2.4	73	25 Tu	0512	2.8	85	10 Th	0518	2.9	88	25 F	0017	0.3	9
	1020	0.8	24		1139	0.4	12		1143	0.2	6		0618	2.9	88
	1632	2.8	85		1740	2.7	82		1735	2.8	85		1258	0.2	6
	2257	0.4	12						1842	2.3	70		1842	2.3	70
11 Tu	0506	2.5	76	26 W	0002	0.2	6	11 F	0000	0.0	0	26 Sa	0100	0.3	9
	1114	0.6	18		0601	2.9	88		0603	3.1	94		0659	3.0	91
	1722	2.9	88		1233	0.3	9		1238	-0.1	-3		1342	0.2	6
	2346	0.3	9		1827	2.7	82		1823	2.9	88		1923	2.3	70
12 W	0551	2.8	85	27 Th	0049	0.3	9	12 Sa	0049	-0.1	-3	27 M	0141	0.3	9
	1208	0.4	12		0644	3.0	91		0649	3.4	104		0739	3.0	91
	1808	3.0	91		1322	0.3	9		1331	-0.3	-9		1421	0.1	3
					1908	2.7	82		1911	3.0	91		2003	2.4	73
13 Th	0034	0.1	3	28 F	0132	0.3	9	13 Su	0139	-0.2	-6	28 M	0219	0.3	9
	0633	3.0	91		0724	3.1	94		0735	3.6	110		0818	3.0	91
	1300	0.1	3		1405	0.2	6		1423	-0.5	-15		1459	0.0	0
	1852	3.1	94		1947	2.6	79		1959	3.0	91		2044	2.4	73
14 F	0120	0.0	0	29 Sa	0212	0.3	9	14 M	0228	-0.3	-9	29 Tu	0257	0.3	9
	0715	3.3	101		0802	3.1	94		0823	3.8	116		0858	3.0	91
	1351	-0.1	-3		1445	0.2	6		1514	-0.6	-18		1536	0.0	0
	1936	3.2	98		2026	2.6	79		2049	3.0	91		2126	2.4	73
15 Sa	0207	-0.2	-6	30 Su	0248	0.4	12	15 Tu	0318	-0.3	-9	30 W	0334	0.4	12
	0758	3.5	107		0842	3.2	98		0914	3.8	116		0939	3.0	91
	1441	-0.3	-9		1523	0.1	3		1606	-0.6	-18		1614	0.0	0
	2022	3.2	98		2107	2.6	79		2142	2.9	88		2209	2.4	73
31 Sa	0324	0.4	12	31 M	0922	3.2	98	31 M	0922	3.2	98	31 Sa	0432	0.2	6
	1035	2.8	85		1601	0.1	3		1601	0.1	3		1710	-0.2	-6
	1710	2.3	70		2148	2.5	76		2148	2.5	76		2308	2.3	70

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Bridgeport, Connecticut, 2016

Times and Heights of High and Low Waters

January				February				March									
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height						
h m	ft	cm		h m	ft	cm		h m	ft	cm							
1 F 0359	6.4	195		16 0348	7.2	219		1 0453	6.2	189							
1017	0.8	24	Sa	1015	-0.2	-6	M	1118	0.8	24	Tu	0529	7.0	213			
1621	5.9	180		1617	6.7	204		1205	0.0	0		1604	6.3	192			
2236	0.7	21	O	2236	-0.2	-6		1808	6.3	192	O	1032	0.7	21			
				2331	0.9	27					Tu	1640	5.7	174			
2 Sa 0451	6.3	192	17 Su 0447	7.1	216	2 Tu 0547	6.2	189	2 W 0459	6.2	189	16 W 0509	6.9	210			
1112	0.8	24		1119	-0.1	-3		1215	0.7	21		1130	0.7	21			
1716	5.7	174	Su	1721	6.5	198	Tu	1822	5.6	171		1738	5.7	174			
2327	0.8	24		2336	-0.1	-3					2346	1.0	30	17 Th 1144	0.2	6	
												1853	6.4	195			
3 Su 0544	6.3	192	18 M 0549	7.2	219	3 W 0027	0.9	27	3 Th 0125	0.2	6	17 F 0004	0.5	15			
1208	0.8	24		1224	-0.2	-6		0642	6.3	192	Th 0737	7.0	213	18 F 0109	0.5	15	
1812	5.7	174	M	1825	6.4	195		1311	0.5	15	1409	-0.2	-6	18 F 0719	6.7	204	
								1918	5.7	174	2012	6.5	198	18 F 1348	0.2	6	
4 M 0019	0.8	24	19 Tu 0038	0.0	0	4 Th 0123	0.7	21	4 Th 0558	6.3	192	19 F 1952	6.6	201			
0636	6.4	195		0652	7.2	219		0736	6.5	198	0835	7.0	213				
1301	0.6	18	Tu	1326	-0.3	-9		1404	0.3	9	1503	-0.3	-9	4 F 0046	0.9	27	
1907	5.7	174		1928	6.4	195		2011	6.0	183	2106	6.7	204	19 F 0208	0.3	9	
												1934	6.1	186	19 F 0817	6.8	207
5 Tu 0111	0.7	21	20 W 0139	-0.1	-3	5 F 0216	0.5	15	5 Sa 0317	-0.1	-3	5 Sa 0143	0.5	15			
0727	6.5	198		0751	7.3	223		0827	6.8	207	0926	7.1	216	20 Su 0300	0.2	6	
1352	0.4	12	Su	1425	-0.5	-15		1454	-0.1	-3	1552	-0.4	-12	20 Su 0908	6.9	210	
1958	5.9	180		2027	6.6	201		2100	6.3	192	2154	6.9	210	20 Su 1527	0.0	0	
												2027	6.5	198	20 Su 2131	7.0	213
6 W 0201	0.6	18	21 Th 0236	-0.2	-6	6 Sa 0306	0.2	6	21 Tu 0405	-0.2	-6	6 Su 0238	0.1	3			
0815	6.7	204		0848	7.4	226		0916	7.1	216	1013	7.2	219	21 M 0347	0.0	0	
1440	0.1	3	Su	1519	-0.6	-18		1541	-0.4	-12	1635	-0.4	-12	21 M 0953	7.0	213	
2046	6.1	186		2121	6.7	204		2147	6.6	201	2238	7.0	213	21 M 1609	0.0	0	
												2117	7.0	213	21 M 2213	7.2	219
7 Th 0248	0.4	12	22 F 0330	-0.3	-9	7 Su 0354	-0.2	-6	22 M 0449	-0.3	-9	7 M 0329	-0.3	-9			
0901	6.9	210		0940	7.5	229		1003	7.4	226	1056	7.2	219	22 Tu 0429	-0.1	-3	
1526	-0.1	-3	F	1609	-0.7	-21		1627	-0.7	-21	1715	-0.4	-12	22 Tu 1035	7.0	213	
2132	6.3	192		2211	6.9	210		2232	7.0	213	O 2318	7.1	216	22 Tu 1647	0.0	0	
												2204	7.4	226	22 Tu 2252	7.3	223
8 F 0334	0.2	6	23 Sa 0419	-0.3	-9	8 M 0441	-0.5	-15	23 Tu 0530	-0.3	-9	8 W 0419	-0.7	-21			
0944	7.2	219		1028	7.5	229		1049	7.7	235	1136	7.1	216	23 W 1113	7.0	213	
1610	-0.4	-12	Sa	1655	-0.7	-21		1712	-1.0	-30	1752	-0.3	-9	23 W 1723	0.0	0	
2216	6.5	198		O 2257	7.0	213		2317	7.3	223	2357	7.1	216	O 2328	7.3	223	
9 Sa 0419	0.0	0	24 Su 0506	-0.3	-9	9 Tu 0528	-0.8	-24	24 W 0609	-0.2	-6	9 W 0509	-1.1	-34			
1027	7.4	226		1114	7.4	226		1136	7.8	238	1215	7.0	213	24 Th 1151	6.9	210	
1653	-0.6	-18	Su	1738	-0.7	-21		1757	-1.1	-34	1828	-0.2	-6	24 Th 1757	0.1	3	
2258	6.7	204		2341	7.0	213							2338	8.1	247		
10 Su 0503	-0.2	-6	25 M 0550	-0.3	-9	10 W 0002	7.6	232	25 Th 0034	7.1	216	10 Th 0558	-1.2	-37			
1110	7.5	229		1157	7.3	223		0617	-0.9	-27	0648	-0.1	-3	25 F 0004	7.3	223	
1736	-0.8	-24	M	1819	-0.5	-15		1223	7.8	238	1254	6.8	207	25 F 0621	-0.1	-3	
2341	6.9	210						1843	-1.1	-34	1904	0.0	0	25 F 1228	6.8	207	
11 M 0548	-0.3	-9	26 Tu 0023	6.9	210	11 Th 0049	7.7	235	26 F 0112	7.0	213	11 F 0026	8.3	253			
1154	7.6	232		0633	-0.2	-6		0707	-0.9	-27	0727	0.0	0	26 Sa 0658	0.0	0	
1820	-0.9	-27	Tu	1239	7.1	216		1312	7.7	235	1333	6.6	201	26 Sa 1305	6.7	204	
			Su	1858	-0.3	-9		1930	-1.0	-30	1940	0.2	6	26 Sa 1908	0.4	12	
12 Tu 0025	7.1	216	27 W 0104	6.9	210	12 F 0137	7.7	235	27 Sa 0150	6.8	207	12 Sa 0115	8.2	250			
0634	-0.4	-12		0715	0.0	0		0759	-0.8	-24	0807	0.2	6	27 Su 0736	0.1	3	
1240	7.6	232	F	1321	6.8	207		1404	7.4	226	1414	6.3	192	1344	6.5	198	
1905	-0.9	-27		1938	-0.1	-3		2021	-0.8	-24	2020	0.4	12	1946	0.6	18	
13 W 0111	7.2	219	28 Th 0146	6.8	207	13 Sa 0229	7.6	232	28 Su 0231	6.7	204	13 M 0208	8.0	244			
0723	-0.4	-12		0758	0.2	6		0855	-0.6	-18	0851	0.4	12	28 M 0817	0.3	9	
1329	7.5	229	Sa	1404	6.5	198		1459	7.0	213	1458	6.1	186	1426	6.3	192	
1953	-0.8	-24		2018	0.2	6		2115	-0.5	-15	2103	0.7	21	2054	-0.3	-9	
14 Th 0200	7.2	219	29 F 0228	6.6	201	14 Su 0325	7.4	226	29 M 0315	6.5	198	14 M 0304	7.6	232			
0816	-0.4	-12		0843	0.4	12		0956	-0.4	-12	0939	0.6	18	29 Tu 0903	0.5	15	
1421	7.3	223	F	1449	6.2	189		1559	6.7	204	1546	5.9	180	1512	6.1	186	
2043	-0.6	-18		2100	0.4	12		2214	-0.2	-6	2152	0.9	27	2116	1.0	30	
15 F 0252	7.2	219	30 Sa 0313	6.5	198	15 M 0425	7.2	219	30 O 0404	7.2	219	15 Tu 1039	-0.1	-3			
0913	-0.3	-9		0931	0.5	15		1100	-0.1	-3	1644	6.5	198	30 W 0954	0.6	18	
1517	7.0	213	Sa	1537	5.9	180		1702	6.4	195	O 2258	0.4	12	30 W 1603	6.0	183	
2138	-0.4	-12		2146	0.6	18		2316	0.1	3				31 Th 1050	0.7	21	
														31 Th 1700	6.0	183	
				31 Su 0401	6.3	192								31 O 2310	1.1	34	
				31 Su 1023	0.7	21											
				31 Su 1629	5.7	174											
				O 2237	0.8	24											

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.

Heights are referred to mean lower low water which is the chart datum of soundings.

Bridgeport, Connecticut, 2016

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	0518	6.5	198	16 Sa	0046	0.7	21	1 Su	0549	6.8	207	16 M	0112	0.8	24	1 W	0124	0.0	0
	1150	0.6	18		0653	6.6	201		1215	0.3	9		0716	6.4	195		0726	7.1	216
	1759	6.2	189		1317	0.5	15		1825	6.9	210		1329	0.8	24		1340	0.0	0
					1925	6.8	207						1941	7.0	213		1951	8.0	244
2 Sa	0012	0.9	27	17 Su	0144	0.6	18	2 M	0046	0.5	15	17 Tu	0204	0.6	18	2 Th	0223	-0.4	-12
	0620	6.6	201		0751	6.6	201		0651	7.0	213		0808	6.4	195		0825	7.3	223
	1249	0.4	12		1409	0.5	15		1312	0.1	3		1416	0.7	21		1435	-0.2	-6
	1858	6.5	198		2016	7.0	213		1922	7.4	226		2027	7.2	219		2046	8.3	253
3 Su	0113	0.6	18	18 M	0236	0.4	12	3 Tu	0146	0.0	0	18 W	0251	0.4	12	3 F	0319	-0.7	-21
	0721	6.9	210		0842	6.7	204		0751	7.2	219		0855	6.5	198		0922	7.4	226
	1346	0.1	3		1455	0.4	12		1407	-0.1	-3		1500	0.7	21		1529	-0.3	-9
	1953	6.9	210		2102	7.1	216		2017	7.8	238		2110	7.3	223		2140	8.5	259
4 M	0211	0.1	3	19 Tu	0322	0.2	6	4 W	0243	-0.4	-12	19 Th	0334	0.3	9	4 Sa	0413	-0.9	-27
	0818	7.3	223		0927	6.8	207		0848	7.5	229		0939	6.6	201		1016	7.5	229
	1439	-0.2	-6		1537	0.4	12		1501	-0.4	-12		1541	0.7	21		1623	-0.4	-12
	2046	7.4	226		2144	7.3	223		2110	8.3	253		2151	7.4	226		2233	8.6	262
5 Tu	0305	-0.4	-12	20 W	0404	0.1	3	5 Th	0337	-0.8	-24	20 F	0414	0.1	3	5 Su	0505	-1.0	-30
	0912	7.6	232		1009	6.8	207		0942	7.7	235		1020	6.7	204		1109	7.6	232
	1529	-0.6	-18		1615	0.4	12		1552	-0.6	-18		1620	0.7	21		1715	-0.3	-9
	2136	7.9	241		2223	7.4	226		2201	8.6	262		2230	7.4	226		2324	8.5	259
6 W	0358	-0.8	-24	21 Th	0442	0.0	0	6 F	0430	-1.1	-34	21 Sa	0453	0.1	3	6 M	0556	-0.9	-27
	1004	7.9	241		1048	6.8	207		1035	7.8	238		1100	6.7	204		1200	7.6	232
	1618	-0.8	-24		1652	0.4	12		1643	-0.7	-21		1659	0.7	21		1807	-0.2	-6
	2225	8.3	253		2259	7.4	226		2252	8.8	268		2307	7.5	229		2359	7.5	229
7 Th	0449	-1.2	-37	22 F	0520	-0.1	-3	7 Sa	0522	-1.2	-37	22 Su	0531	0.0	0	7 Tu	0015	8.3	253
	1055	8.0	244		1126	6.8	207		1126	7.9	241		1139	6.8	207		0647	-0.7	-21
	1707	-0.9	-27		1728	0.4	12		1734	-0.6	-18		1737	0.7	21		1251	7.5	229
	2314	8.6	262		2335	7.4	226		2343	8.7	265		2344	7.4	226		1900	0.0	0
8 F	0540	-1.3	-40	23 Sa	0556	-0.1	-3	8 Su	0614	-1.1	-34	23 M	0609	0.0	0	8 W	0107	8.0	244
	1145	8.0	244		1203	6.8	207		1218	7.8	238		1217	6.8	207		0737	-0.5	-15
	1756	-0.9	-27		1804	0.5	15		1826	-0.5	-15		1817	0.7	21		1343	7.4	226
																1953	0.2	6	
9 Sa	0003	8.6	262	24 Su	0011	7.4	226	9 M	0034	8.5	259	24 Tu	0022	7.4	226	9 Th	0159	7.6	232
	0631	-1.3	-40		0633	0.0	0		0706	-0.9	-27		0648	0.0	0		0827	-0.1	-3
	1236	7.9	241		1241	6.7	204		1311	7.6	232		1257	6.8	207		1435	7.2	219
	1846	-0.7	-21		1841	0.6	18		1919	-0.2	-6		1857	0.8	24		2047	0.5	15
10 Su	0054	8.5	259	25 M	0047	7.3	223	10 Tu	0127	8.1	247	25 W	0102	7.3	223	10 F	0252	7.2	219
	0724	-1.1	-34		0711	0.1	3		0759	-0.6	-18		0729	0.0	0		0918	0.2	6
	1329	7.6	232		1319	6.6	201		1405	7.4	226		1338	6.7	204		1528	7.1	216
	1938	-0.4	-12		1920	0.8	24		2014	0.1	3		1941	0.8	24		2143	0.7	21
11 M	0147	8.2	250	26 Tu	0125	7.1	216	11 W	0222	7.7	235	26 F	0144	7.2	219	11 Sa	0347	6.8	207
	0818	-0.7	-21		0751	0.2	6		0853	-0.2	-6		0813	0.1	3		0929	0.0	0
	1424	7.3	223		1400	6.5	198		1500	7.1	216		1422	6.7	204		1540	7.3	223
	2034	-0.1	-3		2002	0.9	27		2112	0.5	15		2028	0.9	27		2200	0.5	15
12 Tu	0243	7.7	235	27 W	0207	7.0	213	12 Th	0319	7.2	219	27 F	0232	7.1	216	12 Su	0443	6.5	198
	0916	-0.3	-9		0835	0.3	9		0950	0.1	3		0901	0.2	6		1102	0.7	21
	1522	7.0	213		1445	6.4	195		1558	6.9	210		1511	6.8	207		1715	6.9	210
	2134	0.3	9		2049	1.0	30		2213	0.7	21		2121	0.9	27		2337	1.0	30
13 W	0342	7.3	223	28 Th	0254	6.9	210	13 F	0418	6.8	207	28 Sa	0324	7.0	213	13 M	0539	6.3	192
	1016	0.1	3		0925	0.4	12		1047	0.4	12		0953	0.2	6		1154	0.9	27
	1623	6.7	204		1535	6.4	195		1657	6.8	207		1603	6.9	210		1808	6.9	210
	2237	0.6	18		2142	1.1	34		2315	0.9	27		2219	0.8	24				
14 Th	0446	6.9	210	29 F	0347	6.8	207	14 Sa	0519	6.6	201	29 Su	0422	7.0	213	14 Tu	0033	0.9	27
	1118	0.3	9		1019	0.5	15		1144	0.6	18		1048	0.3	9		0635	6.2	189
	1726	6.6	201		1629	6.4	195		1754	6.8	207		1659	7.1	216		1245	1.0	30
	2343	0.7	21		2241	1.0	30						2320	0.6	18		1859	7.0	213
15 F	0551	6.6	201	30 Sa	0447	6.7	204	15 Su	0015	0.9	27	30 M	0523	6.9	210	15 W	0125	0.8	24
	1220	0.5	15		1117	0.5	15		0619	6.4	195		1145	0.2	6		0728	6.2	189
	1828	6.6	201		1727	6.6	201		1239	0.7	21		1757	7.3	223		1334	1.0	30
					2344	0.8	24		1850	6.9	210					1948	7.1	216	
															31 Tu	0023	0.3	9	
															0625	7.0	213		
															1243	0.1	3		
															1854	7.7	235		

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to mean lower low water which is the chart datum of soundings.

Bridgeport, Connecticut, 2016

Times and Heights of High and Low Waters

July				August				September				
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	
1 F 0205	-0.2	-6	16 Sa 0224	0.7	21	1 M 0342	-0.3	-9	16 Tu 0322	0.2	6	
0807	7.0	213	0830	6.2	189	0944	7.2	219	0929	6.8	207	
1415	0.0	0	1430	1.0	30	1552	0.1	3	1534	0.5	15	
2028	8.2	250	2044	7.1	216	2202	8.0	244	2143	7.6	232	
2 Sa 0303	-0.4	-12	17 Su 0310	0.4	12	2 Tu 0431	-0.4	-12	17 W 0407	-0.1	-3	
0904	7.2	219	0917	6.4	195	1034	7.4	226	1013	7.2	219	
1512	0.0	0	1517	0.9	27	1643	0.0	0	1621	0.2	6	
2123	8.3	253	2129	7.3	223	● 2251	7.9	241	2228	7.8	238	
3 Su 0357	-0.6	-18	18 M 0354	0.2	6	3 W 0517	-0.4	-12	18 Th 0451	-0.3	-9	
0959	7.3	223	1001	6.7	204	1121	7.5	229	1057	7.5	229	
1606	-0.1	-3	1603	0.7	21	1731	0.0	0	1707	0.0	0	
2216	8.3	253	2212	7.5	229	2337	7.8	238	○ 2313	8.0	244	
4 M 0449	-0.7	-21	19 Tu 0437	0.0	0	4 Th 0601	-0.3	-9	19 F 0534	-0.5	-15	
1051	7.4	226	1044	6.9	210	1205	7.5	229	1140	7.7	235	
1658	-0.1	-3	1647	0.5	15	1817	0.1	3	1754	-0.2	-6	
● 2307	8.2	250	○ 2254	7.6	232	2359	8.0	244	1914	0.4	12	
5 Tu 0538	-0.6	-18	20 W 0519	-0.2	-6	5 F 0022	7.6	232	20 Sa 0619	-0.6	-18	
1141	7.5	229	1126	7.1	216	0643	-0.1	-3	1225	7.9	241	
1749	0.0	0	1731	0.4	12	1249	7.4	226	1842	-0.3	-9	
2357	8.1	247	2337	7.7	235	1901	0.3	9	1955	0.6	18	
6 W 0625	-0.5	-15	21 Th 0602	-0.3	-9	6 Sa 0106	7.3	223	21 Su 0047	7.9	241	
1230	7.5	229	1208	7.3	223	0724	0.2	6	0705	-0.5	-15	
1839	0.1	3	1816	0.2	6	1332	7.3	223	1312	8.0	244	
7 Th 0045	7.8	238	1902	0.2	6	1946	0.5	15	1933	-0.3	-9	
0712	-0.3	-9	22 F 0021	7.8	238	7 Su 0150	7.0	213	22 M 0137	7.8	238	
1318	7.4	226	0645	-0.4	-12	0805	0.4	12	0753	-0.4	-12	
1928	0.3	9	1252	7.4	226	1415	7.2	219	1402	8.0	244	
8 F 0133	7.5	229	1902	0.2	6	2032	0.7	21	2027	-0.2	-6	
0757	0.0	0	23 Sa 0106	7.7	235	8 M 0236	6.7	204	23 Tu 0230	7.5	229	
1405	7.3	223	0729	-0.4	-12	0847	0.7	21	0845	-0.1	-3	
2018	0.5	15	1337	7.5	229	1500	7.0	213	1455	7.9	241	
9 Sa 0222	7.1	216	1952	0.1	3	2119	0.8	24	2125	0.0	0	
0843	0.3	9	24 Su 0155	7.6	232	9 Tu 0323	6.4	195	2327	7.2	219	
1453	7.1	216	0816	-0.3	-9	0932	0.9	27	0941	0.1	3	
2108	0.7	21	1425	7.6	232	1547	6.9	210	1553	7.8	238	
10 Su 0312	6.7	204	2045	0.1	3	2210	1.0	30	○ 2227	0.2	6	
0929	0.5	15	25 M 0247	7.4	226	9 F 0427	6.4	195	2315	1.1	34	
1542	7.0	213	0907	-0.1	-3	10 W 0414	6.2	189	24 Sa 0518	6.8	207	
2200	0.9	27	1517	7.7	235	1021	1.1	34	1032	1.4	43	
11 M 0403	6.4	195	2142	0.2	6	1637	6.8	207	1646	6.6	201	
1017	0.8	24	2142	1.1	34	○ 2303	1.1	34	○ 2315	1.1	34	
1632	6.9	210	22 O 0344	7.2	219	11 Th 0508	6.0	183	11 Sa 0523	6.0	183	
● 2254	1.0	30	2243	0.2	6	1114	1.3	40	1130	1.4	43	
12 Tu 0457	6.2	189	22 W 0444	6.9	210	1730	6.7	204	1743	6.6	201	
1107	1.0	30	1059	0.2	6	2358	1.1	34	1848	7.2	219	
1723	6.8	207	1712	7.7	235	12 F 0604	6.0	183	25 Su 0112	1.0	30	
2349	1.0	30	2346	0.2	6	1208	1.3	40	0620	6.2	189	
13 W 0551	6.0	183	1814	7.7	235	1824	6.7	204	1227	1.3	40	
1158	1.1	34	1814	7.7	235	1902	7.5	229	1839	6.8	207	
1815	6.8	207	1915	7.8	238	14 M 0145	0.8	24	25 M 0107	0.8	24	
14 Th 0042	1.0	30	2009	7.0	213	0752	6.3	192	0715	6.4	195	
0646	6.0	183	2009	7.0	213	1356	1.0	30	1323	1.0	30	
1250	1.2	37	2057	7.3	223	2057	7.7	235	1934	7.0	213	
1907	6.9	210	2110	8.0	244	29 F 0233	0.0	0	27 M 0107	0.8	24	
15 F 0134	0.9	27	2110	8.0	244	0835	7.1	216	0817	7.2	219	
0739	6.1	186	2110	8.0	244	1447	0.3	9	1433	0.3	9	
1341	1.1	34	2110	8.0	244	2057	7.7	235	2041	7.3	223	
1956	7.0	213	2110	8.0	244	2114	7.6	232	2212	7.4	226	
16 O 31	0248	-0.2	-6	2110	8.0	244	2114	7.6	232	29 Th 0346	0.1	3
0850	7.0	213	2110	8.0	244	2114	7.6	232	0950	7.5	229	
1458	0.2	6	2110	8.0	244	2114	7.6	232	1607	0.1	3	
2110	8.0	244	2110	8.0	244	2114	7.6	232	2212	7.4	226	
17 W 31	0411	-0.1	-3	2110	8.0	244	2114	7.6	232	29 W 0302	0.1	3
1014	7.4	226	2110	8.0	244	2114	7.6	232	0906	7.4	226	
1626	0.1	3	2110	8.0	244	2114	7.6	232	1522	0.2	6	
2110	7.7	235	2110	7.7	235	2114	7.7	235	2128	7.4	226	

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Bridgeport, Connecticut, 2016

Times and Heights of High and Low Waters

October				November				December			
Time	Height	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 0504	0.2	6	16 Su 0438	-0.7	-21	1 Tu 0546	0.6	18	16 W 0556	-0.7	-21
1109	7.6	232	Su 1046	8.6	262	Tu 1154	7.4	226	W 1205	8.6	262
1727	0.1	3	Su 1711	-1.0	-30	Tu 1816	0.1	3	W 1837	-1.1	-34
2332	7.2	219	Su 2316	8.0	244						
2 Su 0540	0.4	12	17 M 0526	-0.7	-21	2 W 0023	6.7	204	2 Th 0038	6.5	198
1147	7.5	229	M 1134	8.7	265	W 0624	0.7	21	F 0639	0.6	18
1805	0.2	6	M 1802	-1.0	-30	W 1231	7.2	219	F 1245	7.0	213
						W 1854	0.2	6	W 1910	0.0	0
3 M 0011	7.0	213	18 Tu 0006	7.9	241	3 Th 0102	6.6	201	3 Sa 0118	6.4	195
0616	0.5	15	Tu 0616	-0.6	-18	Th 0703	0.8	24	F 0135	7.4	226
1224	7.4	226	Tu 1225	8.6	262	Th 1310	7.0	213	F 0746	-0.2	-6
1843	0.3	9	Tu 1855	-0.9	-27	Th 1935	0.4	12	F 1354	7.8	238
4 Tu 0049	6.8	207	19 W 0059	7.7	235	4 F 0144	6.4	195	3 Su 0232	7.1	216
0653	0.7	21	W 0709	-0.4	-12	F 0745	1.0	30	Sa 0845	0.1	3
1302	7.3	223	W 1318	8.4	256	F 1352	6.9	210	Sa 1453	7.4	226
1923	0.4	12	W 1950	-0.6	-18	F 2019	0.5	15	W 2124	-0.1	-3
5 W 0130	6.6	201	20 Th 0154	7.4	226	5 Sa 0228	6.3	192	4 Su 0201	6.4	195
0732	0.9	27	Th 0805	-0.1	-3	Sa 0832	1.1	34	M 0806	0.7	21
1341	7.1	216	Th 1414	8.0	244	Sa 1438	6.7	204	M 1411	6.8	207
2004	0.6	18	Th 2048	-0.3	-9	Sa 2107	0.6	18	M 2038	0.2	6
6 Th 0212	6.4	195	21 F 0253	7.2	219	6 Su 0317	6.2	189	4 M 0247	6.4	195
0815	1.1	34	F 0905	0.3	9	Su 0924	1.2	37	5 M 0856	0.8	24
1424	6.9	210	F 1515	7.6	232	Su 1530	6.6	201	5 M 1500	6.7	204
2050	0.8	24	F 2149	0.0	0	Su 2200	0.7	21	5 M 2128	0.2	6
7 F 0259	6.3	192	22 Th 0355	6.9	210	6 W 0432	6.8	207	6 W 0338	6.5	198
0902	1.3	40	Th 1009	0.5	15	W 0924	1.2	37	W 0952	0.7	21
1512	6.7	204	Th 1619	7.2	219	W 1530	6.6	201	W 1556	6.6	201
2140	0.9	27	W 2252	0.3	9	W 2323	0.3	9	W 2222	0.2	6
8 Sa 0350	6.2	189	23 Su 0459	6.8	207	7 Th 0410	6.3	192	21 W 0454	6.6	201
0956	1.4	43	Su 1115	0.6	18	Th 1021	1.1	34	W 1117	0.6	18
1605	6.6	201	Su 1724	7.0	213	Th 1627	6.6	201	W 1720	6.1	186
2235	1.0	30	Su 2354	0.4	12	W 2255	0.6	18	W 2337	0.5	15
9 Su 0445	6.1	186	24 M 0601	6.9	210	8 Th 0506	6.4	195	22 Th 0532	6.8	207
1054	1.4	43	M 1219	0.6	18	Th 1121	1.0	30	Th 1153	0.6	18
1703	6.6	201	M 1827	6.9	210	Th 1727	6.6	201	W 1758	6.5	198
2332	0.9	27				W 2352	0.4	12	W 2318	0.2	6
10 M 0542	6.3	192	25 Tu 0053	0.4	12	9 W 0602	6.7	204	23 Th 0529	6.9	210
1153	1.2	37	Tu 0700	7.0	213	W 1221	0.6	18	Th 1154	0.3	9
1802	6.7	204	Tu 1319	0.5	15	W 1826	6.8	207	Th 1757	6.6	201
			Tu 1926	6.9	210	W 2352	0.4	12	W 1949	6.4	195
11 Tu 0029	0.7	21	26 W 0146	0.3	9	10 Th 0047	0.2	6	9 F 0015	0.0	0
0638	6.6	201	W 0753	7.2	219	Th 0657	7.1	216	W 0626	7.2	219
1251	0.9	27	W 1413	0.3	9	W 1434	0.2	6	W 1254	0.0	0
1859	7.0	213	W 2018	6.9	210	W 2037	6.5	198	W 1857	6.8	207
12 W 0123	0.4	12	27 Th 0234	0.3	9	10 W 0200	0.4	12	10 M 0111	-0.2	-6
0731	7.0	213	Th 0841	7.3	223	W 0810	7.1	216	W 0723	7.6	232
1347	0.5	15	Th 1501	0.2	6	W 1434	0.2	6	W 1353	-0.4	-12
1954	7.3	223	Th 2105	7.0	213	W 2037	6.5	198	W 1956	6.9	210
13 Th 0214	0.1	3	28 F 0317	0.3	9	12 W 0232	-0.4	-12	10 W 0209	0.6	18
0821	7.4	226	F 0924	7.5	229	W 0842	8.1	247	W 0821	6.8	207
1440	0.0	0	F 1544	0.1	3	W 1509	-0.7	-21	W 1447	0.2	6
2046	7.6	232	F 2148	7.0	213	W 2113	7.6	232	W 2052	6.1	186
14 F 0302	-0.3	-9	29 Sa 0356	0.3	9	12 W 0232	-0.4	-12	25 Tu 0354	0.5	15
0910	7.9	241	Sa 1003	7.5	229	W 0842	8.1	247	W 0906	6.9	210
1531	-0.4	-12	Sa 1624	0.0	0	W 1509	-0.7	-21	M 1530	0.0	0
2136	7.8	238	Sa 2228	7.0	213	W 2113	7.6	232	W 2136	6.2	189
15 Sa 0350	-0.5	-15				W 2203	6.6	201	12 W 0301	-0.6	-18
0958	8.3	253				W 2203	6.6	201	W 0947	7.0	213
1621	-0.8	-24				W 2203	6.6	201	W 1611	-0.1	-3
O 2226	8.0	244				W 2203	6.6	201	W 2217	6.4	195
16 M 0510	0.5	15	28 M 0510	0.5	15	13 W 0405	0.4	12	27 W 0337	0.4	12
1118	7.5	229	M 1118	7.5	229	W 1014	7.3	223	W 0947	7.0	213
1739	0.0	0	M 1739	0.0	0	W 1637	-0.1	-3	W 1611	-0.1	-3
O 2307	6.9	210	M 2345	6.8	207	W 2242	6.6	201	W 2217	6.4	195

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Kings Point, Long Island, New York, 2016

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 F 0427	6.8	207	16 Sa 0329	7.8	238	1 M 0426	6.6	201	16 Tu 0551	7.5	229	1 Tu 0334	6.9	210
1106	1.0	30	1027	-0.1	-3	1054	0.9	27	1256	-0.3	-9	1003	0.7	21
1644	6.3	192	1600	7.3	223	1700	5.9	180	1840	6.8	207	1606	6.3	192
2319	0.8	24	2234	-0.2	-6	2304	1.0	30				2221	0.9	27
2 Sa 0523	6.7	204	17 Su 0435	7.7	235	2 M 0520	6.5	198	17 W 0112	0.1	3	2 W 0425	6.8	207
1205	1.0	30	1200	-0.1	-3	1209	0.9	27	0711	7.5	229	1100	0.8	24
1751	6.1	186	1717	6.9	210	1820	5.9	180	1358	-0.4	-12	1702	6.2	189
●									1949	7.0	213	2319	1.0	30
3 Su 0011	1.0	30	18 M 0003	0.0	0	3 W 0003	1.0	30	18 Th 0215	0.0	0	3 Th 0523	6.8	207
0620	6.7	204	0557	7.6	232	0624	6.6	201	0816	7.6	232	1206	0.8	24
1300	0.9	27	1312	-0.3	-9	1350	0.7	21	1455	-0.6	-18	1807	6.2	189
1853	6.1	186	1848	6.9	210	1943	6.1	186	2047	7.2	219			
4 M 0103	1.0	30	19 Tu 0122	0.0	0	4 Th 0107	0.9	27	19 F 0312	-0.2	-6	4 F 0022	0.9	27
0714	6.8	207	0719	7.7	235	0732	6.9	210	0912	7.8	238	0628	6.9	210
1353	0.7	21	1414	-0.6	-18	1443	0.4	12	1548	-0.8	-24	1325	0.6	18
1949	6.2	189	1959	7.0	213	2032	6.4	195	2139	7.5	229	1919	6.5	198
5 Tu 0152	0.9	27	20 W 0226	-0.2	-6	5 F 0213	0.6	18	20 Sa 0404	-0.4	-12	5 Sa 0131	0.6	18
0803	6.9	210	0824	7.9	241	0825	7.2	219	1001	8.0	244	0736	7.3	223
1442	0.4	12	1512	-0.9	-27	1529	0.0	0	1636	-0.9	-27	1440	0.2	6
2037	6.3	192	2059	7.2	219	2110	6.7	204	2226	7.7	235	2021	7.0	213
6 W 0236	0.7	21	21 Th 0325	-0.4	-12	6 Sa 0311	0.2	6	21 Su 0452	-0.6	-18	6 Su 0241	0.1	3
0844	7.2	219	0920	8.1	247	0909	7.6	232	1046	8.0	244	0837	7.7	235
1526	0.1	3	1605	-1.1	-34	1610	-0.4	-12	1721	-0.9	-27	1532	-0.3	-9
2119	6.6	201	2152	7.5	229	2145	7.1	216	2309	7.8	238	2110	7.5	229
7 Th 0313	0.5	15	22 F 0418	-0.5	-15	7 Su 0359	-0.2	-6	22 M 0536	-0.6	-18	7 M 0340	-0.4	-12
0915	7.4	226	1011	8.2	250	0951	8.0	244	1128	7.9	241	0928	8.2	250
1607	-0.1	-3	1655	-1.2	-37	1646	-0.7	-21	1802	-0.8	-24	1616	-0.7	-21
2153	6.8	207	2241	7.6	232	2221	7.6	232	2348	7.8	238	2155	8.1	247
8 F 0345	0.3	9	23 Sa 0507	-0.6	-18	8 M 0445	-0.6	-18	23 Tu 0616	-0.5	-15	8 Tu 0432	-0.8	-24
0941	7.7	235	1058	8.2	250	1034	8.4	256	1205	7.7	235	1144	8.5	259
1641	-0.4	-12	1741	-1.2	-37	1723	-1.0	-30	1838	-0.5	-15	1658	-1.0	-30
2219	7.0	213	2326	7.7	235	2302	7.9	241	● 2240	8.5	259	● 2355	7.9	241
9 Sa 0420	0.0	0	24 Su 0553	-0.5	-15	9 Tu 0530	-0.9	-27	24 W 0024	7.7	235	9 W 0520	-1.2	-37
1013	8.0	244	1141	8.1	247	1119	8.6	262	0651	-0.3	-9	1104	8.7	265
1711	-0.6	-18	1825	-1.0	-30	1801	-1.2	-37	1239	7.5	229	1740	-1.2	-37
● 2246	7.2	219				2346	8.2	250	1908	-0.2	-6	2326	8.8	268
10 Su 0459	-0.3	-9	25 M 0009	7.6	232	10 W 0617	-1.1	-34	25 Th 0053	7.5	229	10 F 0609	-1.4	-43
1051	8.2	250	0635	-0.4	-12	1206	8.6	262	0715	0.0	0	1153	8.7	265
1742	-0.8	-24	1222	7.9	241	1842	-1.2	-37	1304	7.3	223	1823	-1.2	-37
2322	7.5	229	1906	-0.7	-21				1911	0.1	3	1830	0.3	9
11 M 0541	-0.5	-15	26 Tu 0050	7.5	229	11 F 0032	8.4	256	26 F 0113	7.4	226	11 F 0013	9.0	274
1134	8.4	256	0715	-0.2	-6	0706	-1.0	-30	0720	0.1	3	0700	-1.3	-40
1818	-0.9	-27	1300	7.6	232	1256	8.4	256	1325	7.1	216	1244	8.6	262
			1942	-0.4	-12	1927	-1.1	-34	1925	0.2	6	1909	-1.1	-34
12 Tu 0004	7.7	235	27 W 0128	7.4	226	12 F 0122	8.4	256	27 Sa 0136	7.3	223	103	8.9	271
0626	-0.6	-18	0747	0.1	3	0800	-0.9	-27	0748	0.2	6	0755	-1.1	-34
1220	8.4	256	1334	7.3	223	1349	8.1	247	1355	6.9	210	1338	8.2	250
1859	-1.0	-30	2009	0.0	0	2016	-0.8	-24	2000	0.4	12	2000	-0.7	-21
13 W 0050	7.8	238	28 Th 0202	7.2	219	13 F 0214	8.3	253	28 Su 0209	7.2	219	13 F 0157	8.6	262
0714	-0.6	-18	0802	0.4	12	0903	-0.6	-18	0826	0.4	12	0901	-0.8	-24
1309	8.3	253	1404	6.9	210	1446	7.7	235	1433	6.7	204	1438	7.8	238
1944	-0.9	-27	2011	0.3	9	2112	-0.5	-15	2041	0.6	18	2100	-0.3	-9
14 Th 0139	7.9	241	29 F 0230	7.0	213	14 Su 0312	8.0	244	29 M 0248	7.0	213	14 M 0256	8.2	250
0807	-0.4	-12	0827	0.5	15	1027	-0.3	-9	0912	0.6	18	1017	-0.4	-12
1401	8.0	244	1437	6.6	201	1552	7.2	219	1517	6.5	198	1548	7.3	223
2033	-0.7	-21	2040	0.5	15	2226	-0.1	-3	2128	0.8	24	2225	0.2	6
15 F 0232	7.9	241	30 Sa 0301	6.8	207	15 M 0420	7.7	235	15 Tu 0410	7.7	235	15 F 0258	7.3	223
0907	-0.3	-9	0908	0.7	21	1147	-0.2	-6	1129	-0.2	-6	0928	0.5	15
1457	7.7	235	1516	6.4	195	1716	6.9	210	1710	7.0	213	1531	6.7	204
2128	-0.5	-15	2121	0.7	21	● 2359	0.2	6	● 2347	0.4	12	2148	0.9	27
31 Su 0340	6.7	204	31 Su 0957	0.8	24							31 Th 0349	7.2	219
1603	6.1	186	1603	6.1	186							1023	0.7	21
● 2210	0.8	24	● 2210	0.8	24							1625	6.6	201

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Kings Point, Long Island, New York, 2016

Times and Heights of High and Low Waters

April				May				June						
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height			
1 F 0446 1124 1726 2349	h m 7.1 0.7 6.7 0.9	ft 216 21 204 27	cm 16 16 16 16	16 Sa 0135 0736 1405 2003	h m 0.4 7.3 0.1 7.6	ft 12 223 3 232	cm 16 16 16 16	1 Su 0521 1157 1800 2020	h m 7.4 0.4 7.5 7.8	ft 226 12 229 238	cm 15 15 15 15			
2 Sa 0550 1232 1832	7.2 0.6 7.0	219 18 213	226	17 Su 0231 0831 1456 2053	0.2 7.4 0.0 7.8	6 226 0 238	15 M 0036 0629 1304 1906	0.5 7.5 0.2 7.9	15 Tu 0252 0849 1509 2106	0.3 7.2 0.5 7.9	9 219 241 241			
	0.6 7.4 7.4	18 226 226	18	18 M 0321 0919 1543 2138	0.0 7.5 0.0 8.0	0 229 0 244	0.1 7.8 -0.1 8.4	3 Tu 0157 0740 1412 2009	0.1 7.8 -0.1 8.4	3 W 0338 0934 1552 2147	-0.9 7.3 0.5 8.0	-27 223 15 244		
	0.2 0.2 0.2	6 6 6	6	4 W 0408 1003 1626 2218	-0.2 7.6 0.0 8.1	-6 232 0 247	-0.5 8.1 -0.4 8.9	4 Th 0309 0845 1513 2105	-0.5 8.1 -0.4 8.9	0 226 -12 271	0.0 247 -12 244	19 F 0422 1016 1632 2224	0.0 7.4 0.6 8.0	0 226 -12 283
	-0.6 -0.6 -0.6	-18 -18 -24	-18	5 Tu 0323 0906 1543 2129	-0.4 8.2 -0.6 8.6	-12 250 -18 262	-0.3 7.6 0.1 8.1	5 Th 0408 0942 1609 2157	-0.9 8.4 -0.6 9.3	-27 256 -18 283	0.1 253 -12 280	20 M 0508 1059 1653 2238	0.1 7.2 0.8 7.9	3 244
6 W 0419 0959 1632 2217	-1.0 8.6 -0.9 9.0	-30 262 -27 274	20 W 0450 1044 1705 2255	-0.3 7.6 0.1 8.1	-9 232 3 247	20 Th 0408 0942 1609 2157	-0.9 8.4 -0.6 9.3	20 F 0501 1054 1705 2254	-0.1 7.4 0.6 8.0	-3 226 -12 244	1.3 253 -12 280	20 M 0537 1122 1712 2301	0.0 7.3 0.7 8.0	0 244
7 Th 1049 1719 ● 2305	-1.3 -1.0 9.3	-40 -30 283	21 Th 0529 1121 1738 2325	-0.3 7.6 0.3 8.0	-9 232 9 244	6 F 0502 1036 1701 2247	-1.3 8.6 -0.7 9.5	21 Sa 0536 1127 1725 2310	-0.1 7.3 0.7 7.9	-3 223 -21 241	1.2 253 -9 241	21 Tu 0555 1140 1745 2336	0.0 7.4 0.5 8.1	0 247
8 F 0602 1140 1805 2354	-1.5 8.8 -1.0 9.3	-46 268 -30 283	22 F 0602 1153 1758 2343	-0.2 7.4 0.5 7.9	-6 226 15 241	7 Sa 0554 1129 1753 2339	-1.4 8.6 -0.7 9.4	22 Su 0601 1150 1734 2327	0.0 7.3 0.7 7.9	0 223 -21 241	0.9 250 -30 241	22 W 0620 1210 1824	-0.1 7.5 0.4	-3 229
9 Sa 0654 1233 1854	-1.4 8.6 -0.8	-43 262 -24	23 Sa 0628 1214 1759 2356	0.0 7.3 0.5 7.8	0 223 15 238	8 Su 0646 1224 1845	-1.4 8.5 -0.5	23 M 0611 1204 1803 2358	0.0 7.3 0.6 8.0	0 223 -18 244	8.5 259 -18 244	23 Th 0017 0655 1250 1907	8.2 -0.2 7.7 0.4	250
10 Su 0046 0750 1330 1948	9.1 -1.2 8.3 -0.4	277 -37 253 -12	23 M 0024 0654 1256 1903	7.8 0.0 7.2 0.6	238 0 219 18	10 Tu 0129 0839 1422 2048	8.7 -0.7 7.9 0.2	25 W 0037 0712 1311 1924	8.0 0.0 7.4 0.6	244 0 226 18	7.6 232 -232 24	10 F 0317 1009 1600 2234	7.6 0.1 7.6 0.8	250
11 M 0141 0853 1432 2055	8.7 -0.8 7.9 0.0	265 -24 241 0	25 W 0101 0731 1333 1944	7.8 0.1 7.2 0.7	238 3 219 21	11 W 0232 0939 1526 2158	8.2 -0.3 7.7 0.5	26 Th 0121 0754 1354 2011	8.0 0.0 7.5 0.6	244 0 229 18	7.2 219 -229 27	11 Sa 0419 1104 1657 2334	7.2 0.5 7.5 0.9	244
12 Tu 1000 1541 2216	8.2 -0.4 7.5 0.4	250 -12 229 12	26 W 0143 0814 1417 2031	7.7 0.2 7.2 0.8	235 6 219 24	12 Th 0342 1041 1631 2305	7.7 0.0 7.5 0.7	27 F 0208 0841 1443 2103	7.9 0.1 7.5 0.7	241 21 229 21	7.0 213 -226 22	12 M 0522 1158 1754 2253	7.0 0.7 7.4 0.4	238
13 W 1107 1654 ● 2329	7.7 7.3 0.6	235 -3 223 18	27 W 0230 0902 1505 2123	7.6 0.3 7.1 0.9	232 9 216 27	13 F 0454 1140 1734 2123	7.3 0.3 7.4 0.9	28 Sa 0300 0932 1535 2200	7.8 0.2 7.6 0.7	238 207 27 229	7.6 232 -27 229	13 M 0031 0623 1250 1850	0.9 6.8 0.9 7.5	27
14 Th 1211 1804	7.4 0.1 7.2	226 3 219	28 F 0322 0955 1558 2220	7.5 0.5 7.1 0.9	229 15 216 27	14 Sa 0008 0602 1237 1834	0.7 7.1 0.4 7.5	29 W 0356 1028 1632 2305	7.7 0.2 7.7 0.6	235 24 235 18	0.8 24 -27 229	14 W 0125 0720 1341 1942	0.8 6.8 0.9 7.5	26
15 F 0035 0633 1310 1907	0.6 7.3 0.1 7.4	18 3 3 226	29 F 0418 1054 1656 2324	7.4 0.5 7.2 0.8	226 15 219 24	15 Su 0106 0703 1331 1930	0.6 7.1 0.5 7.6	30 M 0457 1129 1733 1930	7.6 0.3 7.9 2.32	232 9 241 232	0.6 18 -27 232	15 W 0217 0813 1429 2029	0.6 6.8 1.0 7.6	26
31 Tu 0021 0606 1234 1840														
0221 0606 1234 1840														

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Kings Point, Long Island, New York, 2016

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 0250	-0.4	-12	16 Sa 0314	0.6	18	1 M 0428	-0.8	-24	16 Tu 0357	0.3	9	1 Th 0540	-0.5	-15	
	0824	7.6	232	0910	6.8	207	1013	8.0	244	0941	7.4	226	1127	8.4	256
	1450	0.1	3	1514	1.1	34	1641	-0.1	-3	1548	0.6	18	1758	-0.2	-6
	2041	8.7	265	2113	7.6	232	2230	8.6	262	2136	8.1	247	2345	8.2	250
2 Sa 0348	-0.7	-21	17 Su 0357	0.4	12	2 Tu 0517	-0.8	-24	17 W 0430	0.0	0	2 F 0620	-0.2	-6	
	0926	7.9	241	0951	7.0	213	1102	8.2	250	1009	7.7	235	1206	8.3	253
	1553	-0.1	-3	1551	0.9	27	1730	-0.2	-6	1628	0.2	6	1839	0.0	0
	2139	8.9	271	2144	7.7	235	2318	8.6	262	2215	8.4	256	2323	8.9	271
3 Su 0442	-1.0	-30	18 M 0435	0.2	6	3 W 0603	-0.8	-24	18 Th 0502	-0.3	-9	3 Sa 0024	8.0	244	
	1021	8.1	247	1024	7.2	219	1148	8.2	250	1043	8.1	247	0655	0.1	3
	1649	-0.2	-6	1621	0.7	21	1817	-0.1	-3	1710	-0.1	-3	1241	8.1	247
	2233	8.9	271	2208	7.9	241	2256	8.6	262	1915	0.2	6	1828	-0.9	-27
4 M 0533	-1.1	-34	19 Tu 0507	0.0	0	4 Th 0003	8.4	256	19 F 0536	-0.5	-15	4 Su 0058	7.7	235	
	1113	8.2	250	1048	7.4	226	0646	-0.5	-15	1122	8.5	259	0719	0.5	15
	1741	-0.2	-6	1651	0.5	15	1232	8.2	250	1754	-0.4	-12	1309	7.9	241
	2325	8.8	268	2238	8.2	250	1901	0.0	0	2341	8.7	265	1940	0.5	15
5 Tu 0621	-1.0	-30	20 W 0532	-0.2	-6	5 F 0046	8.1	247	20 Sa 0615	-0.6	-18	5 M 0127	7.4	226	
	1204	8.2	250	1112	7.6	232	0727	-0.2	-6	1206	8.7	265	0719	0.7	21
	1831	-0.2	-6	1727	0.3	9	1314	8.1	247	1840	-0.5	-15	1332	7.8	238
	2316	8.4	256	2316	8.4	256	1944	0.3	9	1947	0.7	21	2021	-0.5	-15
6 W 0015	8.6	262	21 Th 0601	-0.3	-9	6 Sa 0127	7.8	238	21 Su 0028	8.7	265	6 Tu 0154	7.2	219	
	0709	-0.8	-24	1147	7.9	241	0805	0.2	6	0657	-0.6	-18	0747	0.9	27
	1254	8.1	247	1808	0.1	3	1354	7.9	241	1252	8.8	268	1401	7.6	232
	1921	0.0	0	2359	8.5	259	2024	0.6	18	1930	-0.4	-12	2018	0.9	27
7 Th 0105	8.3	253	22 F 0637	-0.4	-12	7 Su 0206	7.5	229	22 M 0119	8.5	259	7 W 0228	6.9	210	
	0756	-0.5	-15	1229	8.1	247	0832	0.6	18	0743	-0.4	-12	0826	1.1	34
	1343	8.0	244	1853	0.0	0	1430	7.7	235	1342	8.8	268	1438	7.4	226
	2010	0.3	9	2100	0.8	24	2100	0.8	24	2025	-0.3	-9	2100	1.0	30
8 F 0154	7.9	241	23 Sa 0045	8.5	259	8 M 0244	7.1	216	23 Tu 0213	8.2	250	8 Th 0309	6.7	204	
	0842	-0.1	-3	0718	-0.4	-12	0838	0.9	27	0834	-0.1	-3	0912	1.3	40
	1432	7.8	238	1314	8.3	253	1504	7.5	229	1436	8.7	265	1522	7.2	219
	2102	0.6	18	1941	0.0	0	2126	1.0	30	2135	0.0	0	2150	1.2	37
9 Sa 0244	7.5	229	24 Su 0134	8.4	256	9 Tu 0324	6.8	207	24 W 0312	7.8	238	9 F 0358	6.5	198	
	0929	0.3	9	0803	-0.4	-12	0911	1.1	34	0933	0.2	6	1004	1.5	46
	1520	7.6	232	1403	8.4	256	1539	7.3	223	1535	8.4	256	1611	7.1	216
	2156	0.8	24	2034	0.0	0	2203	1.2	37	2303	0.2	6	2247	1.3	40
10 Su 0336	7.2	219	25 M 0226	8.1	247	10 W 0411	6.6	201	25 Th 0423	7.4	226	10 Sa 0454	6.5	198	
	1016	0.7	21	0852	-0.2	-6	0956	1.3	40	1053	0.5	15	1101	1.5	46
	1610	7.5	229	1455	8.4	256	1622	7.1	216	1648	8.1	247	1708	7.0	213
	2252	1.0	30	2135	0.2	6	2336	1.3	40	2353	1.2	37	2353	1.2	37
11 M 0432	6.8	207	26 Tu 0323	7.8	238	11 Th 0520	6.4	195	26 F 0018	0.2	6	11 Su 0604	6.5	198	
	1105	1.0	30	0947	0.1	3	1048	1.5	46	0553	7.3	223	1204	1.5	46
	1703	7.3	223	1551	8.3	253	1715	7.0	213	1229	0.6	18	1812	7.1	216
	2348	1.1	34	2256	0.3	9	1821	8.0	244	1821	8.0	244	2026	8.0	244
12 Tu 0533	6.6	201	27 W 0426	7.5	229	12 F 0043	1.3	40	27 Sa 0124	0.0	0	12 M 0118	1.0	30	
	1157	1.2	37	1051	0.3	9	0639	6.4	195	0711	7.4	226	0724	6.8	207
	1758	7.2	219	1655	8.2	250	1147	1.5	46	1339	0.5	15	1312	1.2	37
	2158	7.2	219	1813	8.2	250	1829	7.0	213	1937	8.1	247	1920	7.4	226
13 W 0043	1.1	34	28 Th 0026	0.2	6	13 Sa 0140	1.1	34	28 Su 0224	-0.2	-6	13 Tu 0221	0.7	21	
	0635	6.5	198	0545	7.3	223	0739	6.5	198	0815	7.6	232	0814	7.2	219
	1249	1.3	40	1215	0.5	15	1255	1.5	46	1441	0.3	9	1420	0.8	24
	1854	7.2	219	1813	8.2	250	1937	7.1	216	2038	8.2	250	2017	7.8	238
14 Th 0136	1.0	30	29 F 0136	0.0	0	14 Su 0231	0.9	27	29 M 0319	-0.4	-12	14 W 0307	0.3	9	
	0732	6.5	198	0712	7.3	223	0829	6.7	204	0910	7.9	241	0854	7.7	235
	1341	1.4	43	1342	0.4	12	1412	1.2	37	1536	0.0	0	1517	0.3	9
	1946	7.3	223	1936	8.3	253	2024	7.4	226	2132	8.4	256	2105	8.2	250
15 F 0227	0.8	24	30 Sa 0238	-0.3	-9	15 M 0317	0.6	18	30 Tu 0409	-0.6	-18	15 Th 0348	-0.1	-3	
	0824	6.7	204	0822	7.5	229	0910	7.0	213	0959	8.2	250	0933	8.2	250
	1430	1.3	40	1449	0.2	6	1505	0.9	27	1627	-0.2	-6	1606	-0.1	-3
	2033	7.4	226	2042	8.4	256	2101	7.7	235	2220	8.4	256	2151	8.6	262
			31 Su 0335	-0.6	-18				31 W 0456	-0.6	-18				
			0920	7.8	238				1045	8.3	253				
			1547	0.0	0				1715	-0.2	-6				
			2139	8.6	262				2304	8.4	256				

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to mean lower low water which is the chart datum of soundings.

Kings Point, Long Island, New York, 2016

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 1138 1814	0.1 8.3 -0.1	3 253 -3	16 Su 1033 1728 2306	-0.8 9.4 -1.1 8.8	-24 287 -34 268	1 Tu 0006 1149 1831	7.3 7.9 0.2	223 241 6	16 W 0605 1157 1908	-0.7 9.3 -1.2	-21 283 -37	1 Th 0001 1146 1823	7.0 7.7 0.0	213 235 0	16 F 0035 0700 1245 1951	8.0 -0.6 8.6 -1.1	244 -18 262 -34
2 Su 0622 1207 1846	0.4 8.2 0.2	12 250 6	17 M 1121 1819 2357	-0.8 -1.2 8.7	-24 -37 265	2 W 0023 1211 1842	7.2 7.8 0.3	219 238 9	17 Th 0043 1253 2007	8.2 8.9 -0.9	250 271 -27	2 F 0019 1220 1854	7.0 7.7 0.0	213 235 0	17 Sa 0132 1344 2046	7.9 8.2 -0.8	241 250 -24
3 M 0629 1225 1858	0.6 8.0 0.4	18 Tu 1211 1914	-0.7 -1.0	-21 -30	3 Th 0044 0644 1245 1915	7.1 0.8 7.7 0.3	216 235 235 9	18 F 0145 0807 1355 2109	7.9 -0.1 8.4 -0.6	241 -3 256 -18	3 Sa 0053 0703 1301 1934	7.0 0.5 7.7 0.0	213 235 0	18 Su 0231 0902 1446 2143	7.6 0.0 7.7 -0.4	232 0 235 -12	
4 Tu 0051 0639 1246 1909	7.3 0.8 7.8 0.5	22 W 0553 1305 2017	8.4 9.1 -0.7	256 277 -21	4 F 0118 0725 1326 1956	7.0 0.9 7.6 0.4	213 27 232 12	19 Sa 0252 0923 1507 2213	7.7 0.3 7.9 -0.3	235 9 241 -9	4 Su 0133 0748 1346 2018	7.0 0.6 7.6 0.0	213 18 232 0	19 M 0332 1007 1551 2240	7.4 0.3 7.2 -0.1	226 9 219 -3	
5 W 0115 0712 1318 1942	7.1 0.9 7.7 0.6	21 Th 0153 0810 1405 2127	8.1 0.0 8.6 -0.4	247 0 262 -12	5 Sa 0200 0811 1411 2043	6.9 1.0 7.5 0.5	210 30 229 15	20 Su 0401 1036 1623 2315	7.5 0.5 7.5 -0.1	229 15 229 -3	5 M 0219 0837 1435 2107	7.1 0.6 7.5 0.1	216 18 229 3	20 Tu 0432 1110 1657 2337	7.3 0.4 6.9 0.2	223 12 210 6	
6 Th 0149 0752 1357 2024	7.0 1.0 7.5 0.8	21 F 0304 0933 1518 2237	7.7 0.4 8.1 -0.1	235 12 247 -3	6 Su 0246 0901 1501 2134	6.9 1.1 7.4 0.6	210 210 226 18	21 M 0508 1142 1734 O	7.4 0.5 7.2 -	226 12 219 -	6 Tu 0309 0931 1529 2200	7.2 0.6 7.4 0.1	219 15 226 3	21 W 0533 1210 1801 201	7.2 0.5 6.6 201	219 15 201	
7 F 0230 0838 1442 2112	6.9 1.2 7.4 0.9	22 Sa 0421 1056 1644 2342	7.5 0.6 7.7 0.0	229 18 223 0	7 M 0337 0957 1555 2231	6.9 1.1 7.3 0.6	210 34 223 18	22 Tu 0013 0611 1243 2231	0.0 7.5 0.4 6	0 229 12 216	7 W 0403 1032 1627 2257	7.3 0.6 7.3 0.1	223 18 223 3	22 Th 0032 0631 1307 1900	0.4 7.2 0.4 6.6	12 219 212 201	
8 Sa 0318 0930 1532 2206	6.7 1.3 7.2 1.0	23 Su 0534 1206 1801	7.5 0.6 7.6	229 18 232	8 Tu 0433 1058 1655 2330	7.0 1.0 7.3 0.5	213 30 223 15	23 W 0108 0708 1339 1936	0.1 7.6 0.2 7.1	3 232 6 216	8 Th 0501 1140 1730 2358	7.5 0.4 7.2 0.0	229 12 219 0	23 F 0124 0725 1400 1955	0.5 7.3 0.3 6.6	15 223 201 201	
9 Su 0410 1026 1627 2306	6.7 1.4 7.2 1.0	24 M 0043 0639 1308 1907	0.0 7.6 0.4 7.6	0 232 12 232	9 W 0534 1206 1759	7.3 0.7 7.4	223 21 226 18	24 Th 0200 0801 1431 2028	0.1 7.8 0.0 7.2	3 238 0 219	9 F 0604 1259 1839 2045	7.8 0.1 7.3 6.7	238 3 223 204	24 Sa 0214 0815 1450 2045	0.5 7.4 0.1 6.7	15 226 226 204	
10 M 0509 1129 1728	6.8 1.3 7.2	25 Tu 0139 0738 1405 2004	-0.1 7.8 0.2 7.7	-3 238 6 235	10 Th 0032 0637 1319 1907	0.3 7.7 0.3 7.6	9 235 9 232	25 F 0249 0848 1520 2115	0.1 7.9 -0.1 7.3	3 241 -3 223	10 Sa 0102 0709 1420 1950	-0.1 8.2 -0.4 7.5	-3 250 -12 229	25 Su 0302 0901 1536 2131	0.5 7.5 -0.1 6.8	15 229 -3 207	
11 Tu 0010 0614 1236 1834	0.9 7.0 1.0 7.4	26 W 0231 0830 1458 2055	-0.1 8.1 -0.1 7.7	-3 247 -3 235	11 F 0134 0737 1431 2010	0.0 8.2 -0.2 7.9	0 250 -6 241	26 Sa 0334 0931 1605 2158	0.2 8.0 -0.3 7.3	6 244 -9 223	11 Su 0208 0811 1524 2054	-0.4 8.6 -0.9 7.8	-12 262 -27 238	26 M 0345 0943 1619 2212	0.4 7.6 -0.2 6.9	12 232 -6 210	
12 W 0115 0717 1346 1939	0.6 7.5 0.6 7.8	27 Th 0320 0916 1547 2141	-0.1 8.3 -0.2 7.8	-3 253 -6 238	12 Sa 0232 0833 1532 2107	-0.3 8.8 -0.7 8.2	-9 268 -21 250	27 Su 0416 1010 1647 2238	0.2 8.0 -0.3 7.3	6 244 -9 223	12 M 0313 0909 1620 2151	-0.6 9.0 -1.2 8.0	-18 274 -37 244	27 Tu 0425 1020 1658 2250	0.4 7.6 -0.3 6.9	12 232 -9 210	
13 Th 0214 0812 1450 2036	0.2 8.0 0.0 8.2	28 F 0405 0959 1631 2223	-0.1 8.4 -0.3 7.8	-3 256 -9 238	13 Su 0327 0924 1627 2200	-0.6 9.2 -1.1 8.4	-18 280 -34 256	28 M 0453 1044 1725 2314	0.3 7.9 -0.2 7.2	9 241 -6 219	13 Tu 0413 1003 1714 2245	-0.8 9.1 -1.5 8.1	-24 277 -46 247	28 W 0457 1048 1732 2321	0.3 7.6 -0.3 7.0	9 232 -9 213	
14 F 0306 0900 1546 2127	-0.2 8.6 -0.5 8.5	29 Sa 0446 1037 1712 2302	0.0 8.3 -0.3 7.7	0 253 -9 235	14 M 0420 1014 1720 O	-0.8 9.5 -1.4 8.5	-24 290 -43 259	29 Tu 0522 1110 1757 2344	0.5 7.8 -0.1 7.1	15 238 -3 216	14 W 0509 1056 1806 2340	-0.8 9.1 -1.5 8.1	-24 277 -46 247	29 Th 0515 1104 1756 2339	0.3 7.6 -0.3 7.0	9 232 -9 213	
15 Sa 0354 0947 1637 O	-0.5 9.1 -0.9 8.7	30 Su 0522 1110 1750 2337	0.3 8.2 -0.2 7.5	9 250 -6 229	15 Tu 0512 1104 1813 2346	-0.8 9.5 -1.4 8.4	-24 290 -43 256	30 W 0529 1123 1814	0.5 7.7 0.0	15 235 -1.4	15 Th 0604 1150 1858	-0.8 9.0 -1.4	-24 274 -43	30 F 0533 1126 1809 2357	0.2 7.7 -0.3 7.1	6 235 -9 216	
		31 M 0550 1136 1820	0.5 8.1 0.0	15 247 0	31 M 0550 1136 1820	0.5 8.1 0.0	15 247 0				31 Sa 0606 1200 1836	0.1 7.8 -0.4	3 238 -12				

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

New York (The Battery), New York, 2016

Times and Heights of High and Low Waters

January				February				March					
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height		
h m	ft	cm		h m	ft	cm		h m	ft	cm			
1 F 0114	4.0	122		16 0047	4.6	140		1 0155	3.9	119			
0717	0.9	27	Sa	0719	0.1	3	M	0831	0.9	27	Tu		
1317	3.9	119	1308	4.5	137		1405	3.5	107	0916	0.1	3	
1952	0.5	15	● 1944	-0.3	-9		2044	0.7	21	1502	4.1	125	
								2127	0.0	0	2138	0.7	21
2 Sa 0201	4.0	122	17 0145	4.6	140	2 Tu 0243	3.9	119	17 W 0334	4.6	140		
0819	0.9	27	Su 0830	0.1	3	0930	0.8	24	1017	0.0	0		
1406	3.7	113	1409	4.3	131	1501	3.4	104	1610	4.1	125		
● 2044	0.5	15	2047	-0.3	-9	2138	0.7	21	2226	0.0	0		
3 Su 0250	4.0	122	18 0247	4.7	143	3 W 0338	4.0	122	18 Th 0441	4.7	143		
0917	0.8	24	0935	0.0	0	1024	0.6	18	1113	-0.2	-6		
1458	3.6	110	1515	4.2	128	1604	3.5	107	1713	4.2	128		
2134	0.5	15	2147	-0.3	-9	2229	0.5	15	2321	-0.1	-3		
4 M 0342	4.1	125	19 0353	4.8	146	4 Th 0435	4.3	131	19 F 0540	4.8	146		
1010	0.7	21	Tu 1035	-0.2	-6	1113	0.3	9	1205	-0.3	-9		
1555	3.5	107	1623	4.2	128	1704	3.6	110	1809	4.4	134		
2221	0.4	12	2243	-0.4	-12	2319	0.2	6					
5 Tu 0433	4.2	128	20 W 0457	4.9	149	5 F 0528	4.5	137	20 Sa 0012	-0.2	-6		
1059	0.5	15	1131	-0.4	-12	1202	0.0	0	0631	4.9	149		
1652	3.6	110	1727	4.3	131	1755	3.9	119	1253	-0.4	-12		
2306	0.3	9	2337	-0.5	-15	1857	4.6	140	1857	4.6	140		
6 W 0522	4.4	134	21 Th 0555	5.1	155	6 Sa 0008	0.0	0	21 Su 0101	-0.3	-9		
1146	0.2	6	1224	-0.6	-18	0615	4.9	149	0715	5.0	152		
1743	3.7	113	1823	4.4	134	1249	-0.3	-9	1339	-0.5	-15		
2350	0.1	3				1840	4.2	128	1940	4.7	143		
7 Th 0605	4.7	143	22 F 0029	-0.5	-15	7 Su 0056	-0.3	-9	22 M 0147	-0.3	-9		
1232	0.0	0	0646	5.2	158	0658	5.2	158	0756	5.0	152		
1827	3.9	119	1314	-0.7	-21	1336	-0.6	-18	1421	-0.5	-15		
			1913	4.5	137	1923	4.5	137	2022	4.8	146		
8 F 0035	-0.1	-3	23 Sa 0119	-0.6	-18	8 M 0145	-0.6	-18	23 Tu 0231	-0.3	-9		
0644	4.9	149	0732	5.2	158	0740	5.4	165	0835	4.9	149		
1318	-0.3	-9	Sa 1402	-0.8	-24	1421	-0.9	-27	1501	-0.5	-15		
1907	4.1	125	● 1959	4.6	140	● 2006	4.8	146	2102	4.7	143		
9 Sa 0120	-0.2	-6	24 Su 0207	-0.5	-15	9 Tu 0233	-0.8	-24	24 W 0312	-0.3	-9		
0721	5.1	155	0815	5.2	158	0825	5.5	168	0914	4.8	146		
1402	-0.5	-15	1447	-0.8	-24	1505	-1.0	-30	1538	-0.3	-9		
● 1946	4.2	128	2045	4.6	140	2051	4.9	149	2142	4.7	143		
10 Su 0205	-0.4	-12	25 M 0252	-0.5	-15	10 W 0320	-0.9	-27	25 Th 0350	-0.1	-3		
0759	5.2	158	0858	5.0	152	0912	5.5	168	0953	4.6	140		
1446	-0.7	-21	1529	-0.7	-21	1549	-1.1	-34	1613	-0.1	-3		
2026	4.4	134	2130	4.5	137	2140	5.0	152	2222	4.5	137		
11 M 0250	-0.5	-15	26 Tu 0334	-0.3	-9	11 Th 0408	-0.8	-24	26 F 0428	0.1	3		
0840	5.3	162	0940	4.9	149	1003	5.3	162	1032	4.4	134		
1529	-0.8	-24	Tu 1609	-0.5	-15	1634	-1.0	-30	1646	0.1	3		
2110	4.4	134	2215	4.4	134	2234	5.0	152	2301	4.4	134		
12 Tu 0335	-0.5	-15	27 W 0415	-0.1	-3	12 F 0459	-0.6	-18	27 Sa 0505	0.3	9		
0926	5.3	162	1023	4.6	140	1059	5.1	155	1112	4.1	125		
1612	-0.8	-24	1648	-0.3	-9	1722	-0.8	-24	1717	0.4	12		
2200	4.5	137	2301	4.3	131	2330	5.0	152	2339	4.3	131		
13 W 0421	-0.5	-15	28 Th 0456	0.1	3	13 Sa 0556	-0.4	-12	28 Su 0544	0.6	18		
1017	5.1	155	1107	4.3	131	1157	4.8	146	1152	3.9	119		
1656	-0.8	-24	1726	0.0	0	1816	-0.5	-15	1745	0.6	18		
2254	4.5	137	2345	4.2	128								
14 Th 0511	-0.3	-9	29 F 0538	0.4	12	14 Su 0027	4.9	149	29 M 0016	4.2	128		
1112	5.0	152	1150	4.1	125	0701	-0.1	-3	0633	0.8	24		
1745	-0.6	-18	1806	0.3	9	1256	4.5	137	1233	3.7	113		
2351	4.6	140				1918	-0.2	-6	1819	0.8	24		
15 F 0610	-0.1	-3	30 Sa 0029	4.1	125	15 M 0126	4.8	146	14 M 0007	5.2	158		
1210	4.7	143	0627	0.7	21	0810	0.1	3	0642	-0.1	-3		
1841	-0.4	-12	1233	3.8	116	1356	4.3	131	1244	4.6	140		
			1851	0.5	15	● 2024	0.0	0	1854	0.0	0		
31 Su 0111	4.0	122	31 Su 0727	0.9	27								
			1317	3.6	110								
● 1945	0.7	21	● 1945	0.7	21								

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

New York (The Battery), New York, 2016

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 <i>F</i>	0149	4.4	134	16 <i>Sa</i>	0349	4.5	137	1 <i>Su</i>	0223	4.7	143	16 <i>M</i>	0409	4.3	131
	0908	0.8	24		1022	0.3	9		0931	0.4	12		1035	0.5	15
	1435	3.9	119		1628	4.5	137		1510	4.6	140		1647	4.8	146
	2122	0.9	27		2239	0.6	18		2158	0.6	18		2300	0.7	21
2 <i>Sa</i>	0255	4.5	137	17 <i>Su</i>	0448	4.5	137	2 <i>M</i>	0331	4.8	146	17 <i>Tu</i>	0503	4.3	131
	1005	0.5	15		1110	0.3	9		1024	0.1	3		1118	0.4	12
	1541	4.2	128		1721	4.7	143		1614	4.9	149		1734	4.9	149
	2222	0.6	18		2329	0.5	15		2256	0.2	6		2347	0.6	18
3 <i>Su</i>	0405	4.7	143	18 <i>M</i>	0540	4.6	140	3 <i>Tu</i>	0439	5.0	152	18 <i>W</i>	0552	4.4	134
	1057	0.2	6		1155	0.2	6		1116	-0.2	-6		1200	0.4	12
	1646	4.5	137		1808	4.9	149		1714	5.4	165		1817	5.1	155
	2318	0.2	6						2351	-0.2	-6				
4 <i>M</i>	0510	5.0	152	19 <i>Tu</i>	0015	0.3	9	4 <i>W</i>	0540	5.2	158	19 <i>Th</i>	0032	0.4	12
	1147	-0.2	-6		0625	4.6	140		1207	-0.5	-15		0636	4.4	134
	1742	5.0	152		1237	0.2	6		1808	5.8	177		1242	0.4	12
					1849	5.1	155					1855	5.2	158	
5 <i>Tu</i>	0012	-0.2	-6	20 <i>W</i>	0100	0.2	6	5 <i>Th</i>	0046	-0.5	-15	20 <i>F</i>	0115	0.3	9
	0606	5.3	162		0706	4.7	143		0636	5.4	165		0716	4.5	137
	1236	-0.5	-15		1317	0.2	6		1258	-0.6	-18		1322	0.4	12
	1832	5.5	168		1926	5.2	158		1859	6.1	186		1931	5.3	162
6 <i>W</i>	0105	-0.6	-18	21 <i>Th</i>	0143	0.1	3	6 <i>F</i>	0139	-0.8	-24	21 <i>O</i>	0158	0.1	3
	0657	5.5	168		0744	4.7	143		0729	5.5	168		10755	4.5	137
	1325	-0.8	-24		1356	0.2	6		1349	-0.7	-21		1402	0.4	12
	1920	5.8	177		2002	5.2	158		● 1948	6.3	192		2004	5.3	162
7 <i>Th</i>	0157	-0.9	-27	22 <i>F</i>	0224	0.0	0	7 <i>Sa</i>	0232	-0.9	-27	22 <i>Su</i>	0239	0.1	3
	0747	5.6	171		0821	4.6	140		0822	5.5	168		0832	4.4	134
	1414	-0.9	-27		1434	0.2	6		1440	-0.7	-21		1440	0.5	15
	● 2008	6.0	183		2035	5.2	158		2038	6.2	189		2036	5.3	162
8 <i>F</i>	0248	-1.0	-30	23 <i>Sa</i>	0303	0.0	0	8 <i>Su</i>	0323	-0.9	-27	23 <i>M</i>	0319	0.1	3
	0838	5.6	171		0858	4.5	137		0917	5.3	162		0909	4.3	131
	1502	-0.9	-27		1509	0.4	12		1530	-0.5	-15		1517	0.6	18
	2058	6.1	186		2107	5.1	155		2132	6.0	183		2106	5.2	158
9 <i>Sa</i>	0339	-1.0	-30	24 <i>Su</i>	0341	0.1	3	9 <i>M</i>	0414	-0.8	-24	24 <i>Tu</i>	0357	0.1	3
	0933	5.4	165		0934	4.4	134		1015	5.2	158		0947	4.3	131
	1550	-0.8	-24		1542	0.5	15		1620	-0.3	-9		1551	0.6	18
	2151	5.9	180		2137	5.0	152		2229	5.8	177		2140	5.1	155
10 <i>Su</i>	0430	-0.8	-24	25 <i>M</i>	0417	0.2	6	10 <i>Tu</i>	0505	-0.5	-15	25 <i>W</i>	0435	0.2	6
	1031	5.2	158		1011	4.2	128		1115	5.0	152		1028	4.2	128
	1639	-0.5	-15		1611	0.7	21		1712	0.1	3		1626	0.7	21
	2248	5.7	174		2207	4.9	149		2327	5.4	165		2221	5.0	152
11 <i>M</i>	0524	-0.5	-15	26 <i>Tu</i>	0453	0.4	12	11 <i>W</i>	0600	-0.2	-6	26 <i>F</i>	0514	0.3	9
	1131	5.0	152		1050	4.1	125		1213	4.8	146		1114	4.2	128
	1732	-0.1	-3		1639	0.8	24		1808	0.5	15		1705	0.9	27
	2348	5.4	165		2244	4.8	146					2309	4.9	149	
12 <i>Tu</i>	0622	-0.1	-3	27 <i>W</i>	0532	0.6	18	12 <i>F</i>	0024	5.1	155	27 <i>O</i>	0559	0.4	12
	1230	4.8	146		1133	4.0	122		0658	0.2	6		1203	4.3	131
	1832	0.3	9		1713	1.0	30		1309	4.7	143		1757	1.0	30
					2330	4.7	143		1911	0.8	24				
13 <i>W</i>	0047	5.1	155	28 <i>Th</i>	0619	0.7	21	13 <i>F</i>	0120	4.8	146	28 <i>O</i>	0004	4.9	149
	0725	0.2	6		1220	4.0	122		0758	0.4	12		0655	0.4	12
	1329	4.6	140		1802	1.1	34		1404	4.6	140		1254	4.4	134
	● 1938	0.6	18						● 2016	1.0	30		1913	1.0	30
14 <i>Th</i>	0146	4.8	146	29 <i>F</i>	0022	4.7	143	14 <i>Sa</i>	0215	4.6	140	29 <i>W</i>	0100	4.8	146
	0830	0.3	9		0724	0.7	21		0856	0.5	15		0758	0.4	12
	1428	4.5	137		1312	4.1	125		1459	4.6	140		1348	4.6	140
	2045	0.7	21		● 1932	1.2	37		2117	1.0	30		● 2031	0.9	27
15 <i>F</i>	0247	4.6	140	30 <i>Sa</i>	0120	4.7	143	15 <i>Su</i>	0312	4.4	134	30 <i>M</i>	0200	4.8	146
	0929	0.4	12		0831	0.6	18		0948	0.5	15		0859	0.2	6
	1529	4.5	137		1408	4.3	131		1554	4.6	140		1446	4.9	149
	2145	0.7	21		2054	1.0	30		2211	0.9	27		2137	0.6	18
31 <i>Tu</i>	0305	5.1	155					31 <i>W</i>	0305	4.8	146	31 <i>F</i>	0955	0.0	0
	0725	0.2	6						1548	5.2	158		1548	5.2	158
	1329	4.6	140						2236	0.2	6		2236	0.2	6
	● 1938	0.6	18												

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

New York (The Battery), New York, 2016

Times and Heights of High and Low Waters

July				August				September			
Time	Height	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 F 0502	4.7	143	16 Sa 0528	4.0	122	1 M 0048	-0.3	-9	1 Th 0030	0.3	9
1121	-0.2	-6	1131	0.7	21	1 M 0647	5.0	152	1 Th 0626	4.5	137
1730	5.8	177	1748	5.0	152	1 M 1252	-0.1	-3	1 Th 1235	0.4	12
						1 M 1904	5.8	177	1 Th 1838	5.4	165
2 Sa 0011	-0.3	-9	17 Su 0016	0.5	15	2 Tu 0138	-0.4	-12	2 W 0115	0.0	0
0604	4.9	149	0616	4.2	128	2 Tu 0737	5.1	155	2 W 0707	4.8	146
1215	-0.3	-9	1217	0.6	18	2 Tu 1343	-0.1	-3	2 W 1323	0.2	6
1826	5.9	180	1829	5.2	158	● 1951	5.8	177	2 W 1919	5.6	171
3 Su 0105	-0.5	-15	18 M 0101	0.3	9	3 W 0225	-0.4	-12	3 Th 0159	-0.2	-6
0659	5.0	152	0658	4.3	131	3 W 0824	5.1	155	3 Th 0747	5.0	152
1309	-0.3	-9	1302	0.5	15	3 W 1432	0.0	0	3 Th 1410	0.0	0
1917	6.0	183	1907	5.4	165	3 W 2036	5.6	171	3 O 1959	5.7	174
4 M 0158	-0.6	-18	19 Tu 0146	0.1	3	4 Th 0310	-0.4	-12	4 Th 0242	-0.4	-12
0752	5.1	155	0737	4.5	137	4 Th 0911	5.1	155	4 Th 0828	5.2	158
1401	-0.3	-9	1348	0.4	12	4 Th 1518	0.1	3	4 Th 1457	-0.1	-3
● 2007	6.0	183	○ 1944	5.5	168	4 Th 2121	5.4	165	4 Th 2043	5.7	174
5 Tu 0247	-0.6	-18	20 W 0229	-0.1	-3	5 F 0352	-0.2	-6	5 M 0325	-0.5	-15
0844	5.1	155	0815	4.6	140	5 F 0959	5.0	152	5 M 0913	5.4	165
1452	-0.2	-6	1432	0.2	6	5 F 1602	0.3	9	5 M 1545	-0.1	-3
2056	5.8	177	2021	5.5	168	5 F 2206	5.2	158	5 M 2131	5.6	171
6 W 0334	-0.6	-18	21 Th 0310	-0.2	-6	6 Sa 0432	0.0	0	6 W 0408	-0.5	-15
0937	5.0	152	0855	4.7	143	6 Sa 1046	4.9	149	6 W 1004	5.4	165
1540	0.0	0	1516	0.2	6	6 Sa 1645	0.5	15	6 W 1634	-0.1	-3
2146	5.6	171	2102	5.5	168	6 Sa 2253	4.9	149	6 W 2225	5.4	165
7 Th 0420	-0.4	-12	22 F 0351	-0.3	-9	7 Su 0512	0.3	9	7 Th 0453	-0.4	-12
1030	5.0	152	0940	4.8	146	7 Su 1133	4.8	146	7 Th 1059	5.5	168
1627	0.2	6	1600	0.2	6	7 Su 1730	0.8	24	7 Th 1727	0.1	3
2237	5.3	162	2149	5.5	168	7 Su 2339	4.6	140	7 Th 2323	5.2	158
8 F 0505	-0.1	-3	23 Sa 0433	-0.3	-9	8 M 0553	0.6	18	8 Th 0543	-0.1	-3
1122	4.9	149	1029	4.9	149	8 M 1218	4.7	143	8 Th 1156	5.5	168
1714	0.5	15	1647	0.3	9	8 M 1819	1.1	34	8 Th 1829	0.3	9
2327	5.0	152	2241	5.3	162						
9 Sa 0551	0.2	6	24 Su 0516	-0.2	-6	9 Tu 0024	4.4	134	9 W 0023	5.0	152
1211	4.8	146	1122	5.0	152	9 Tu 0637	0.9	27	9 W 0641	0.1	3
1805	0.8	24	1741	0.4	12	9 Tu 1302	4.6	140	9 W 1253	5.4	165
			2337	5.1	155	9 Tu 1916	1.3	40	9 W 1937	0.5	15
10 Su 0016	4.7	143	25 M 0606	-0.1	-3	10 W 0110	4.1	125	10 Th 0124	4.8	146
0638	0.4	12	1216	5.1	155	10 W 0728	1.1	34	10 Th 0747	0.3	9
1258	4.7	143	1844	0.5	15	10 W 1346	4.6	140	10 Th 1353	5.3	162
1901	1.1	34	● 2017	1.3	40	10 W 2045	0.5	15	10 Th 2045	0.5	15
11 M 0102	4.4	134	26 Tu 0034	5.0	152	11 Th 0158	3.9	119	11 F 0227	4.6	140
0729	0.7	21	0703	0.1	3	11 Th 0825	1.2	37	11 F 0853	0.4	12
M 1344	4.6	140	1311	5.2	158	11 Th 1432	4.5	137	11 F 1457	5.3	162
● 2001	1.2	37	○ 1954	0.6	18	11 Th 2115	1.2	37	11 Th 2147	0.4	12
12 Tu 0150	4.2	128	27 W 0132	4.8	146	12 F 0252	3.8	116	12 Th 0334	4.6	140
0822	0.8	24	0807	0.2	6	12 F 0920	1.2	37	12 Th 0954	0.4	12
1431	4.6	140	1408	5.3	162	12 F 1523	4.6	140	12 Th 1603	5.3	162
2059	1.2	37	2102	0.5	15	12 F 2208	1.1	34	12 Th 2244	0.2	6
13 W 0240	4.0	122	28 Th 0235	4.6	140	13 Sa 0351	3.9	119	13 W 0441	4.7	143
0912	0.9	27	0910	0.2	6	13 Sa 1011	1.1	34	13 W 1051	0.3	9
1521	4.6	140	1510	5.3	162	13 Sa 1618	4.7	143	13 W 1706	5.4	165
2153	1.1	34	2203	0.3	9	13 Sa 2257	0.8	24	13 W 2337	0.0	0
14 Th 0336	3.9	119	29 F 0343	4.6	140	14 Su 0450	4.0	122	14 M 0540	4.8	146
1000	0.9	27	1009	0.1	3	14 Su 1100	0.9	27	14 M 1145	0.2	6
1612	4.7	143	1615	5.4	165	14 Su 1710	4.9	149	14 M 1801	5.5	168
2242	0.9	27	2301	0.1	3	14 Su 2344	0.6	18			
15 F 0434	3.9	119	30 Sa 0451	4.6	140	15 Th 0027	-0.1	-3	15 W 1210	0.3	9
1046	0.8	24	1105	0.0	0	15 Th 0632	5.0	152	15 W 1808	5.5	168
1702	4.8	146	1718	5.6	171	15 Th 1236	0.1	3			
2330	0.7	21	2355	-0.1	-3	15 Th 1849	5.5	168	15 Th 1853	5.7	174
16 Sa 0552	4.8	146	31 Su 1200	0.0	0	16 W 0115	-0.2	-6	16 W 0718	5.2	158
			1814	5.7	174	16 W 1324	0.1	3	16 W 1932	5.5	168

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

New York (The Battery), New York, 2016

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 0210 0.0 0 0814 5.4 165 1430 0.2 6 2026 5.0 152	16 Su 0145 -0.7 -21 0738 6.1 186 1420 -0.7 -21 2004 5.7 174		1 Tu 0252 0.3 9 0853 5.2 158 1525 0.2 6 2115 4.4 134		16 W 0301 -0.8 -24 0900 6.1 186 1547 -0.9 -27 2139 5.1 155		1 Th 0302 0.2 6 0857 4.9 149 1541 0.0 0 2128 4.0 122		16 F 0334 -0.8 -24 0940 5.6 171 1619 -0.9 -27 2222 4.7 143		
			2 Su 0248 0.1 3 0851 5.3 162 1511 0.2 6 2104 4.9 149	17 M 0233 -0.8 -24 0826 6.2 189 1511 -0.7 -21 2057 5.5 168		2 W 0327 0.4 12 0926 5.0 152 1603 0.3 9 2154 4.2 128		2 Th 0352 -0.6 -18 0957 5.8 177 1639 -0.7 -21 2241 4.9 149		17 Sa 0425 -0.5 -15 1037 5.3 162 1709 -0.7 -21 2320 4.6 140	
			3 M 0324 0.3 9 0927 5.2 158 1550 0.4 12 2143 4.6 140	18 Tu 0321 -0.7 -21 0917 6.1 186 1603 -0.6 -18 2154 5.3 162		3 Th 0358 0.6 18 0959 4.8 146 1641 0.5 15 2235 4.0 122		3 Sa 0444 -0.3 -9 1057 5.5 168 1733 -0.4 -12 2343 4.7 143		18 Su 0517 -0.1 -3 1134 5.0 152 1801 -0.4 -12	
			4 Tu 0357 0.5 15 1004 5.0 152 1628 0.6 18 2225 4.4 134	19 W 0410 -0.5 -15 1015 5.9 180 1656 -0.4 -18 2256 5.1 155		4 F 0427 0.8 24 1035 4.7 143 1720 0.6 18 2320 3.9 119		4 Sa 0540 0.1 3 1158 5.2 158 1831 -0.1 -3		19 M 0016 4.5 137 0613 0.2 6 1228 4.6 140 1857 -0.1 -3	
5 W 0428 0.8 24 1042 4.8 146 1707 0.8 24 2309 4.1 125	20 Th 0502 -0.2 -6 1116 5.7 174 1754 -0.1 -3		5 Sa 0456 1.0 30 1118 4.6 140 1806 0.8 24	20 Su 0043 4.6 140 0642 0.4 12 1257 4.9 149 1933 0.1 3		5 M 0524 0.7 21 1138 4.5 137 1826 0.3 9		20 Tu 0110 4.4 134 0715 0.5 15 1320 4.3 131 1954 0.1 3			
6 Th 0455 1.0 30 1122 4.7 143 1749 1.0 30 2355 4.0 122	21 F 0000 4.8 146 0601 0.2 6 1219 5.4 165 1857 0.2 6		6 Su 0008 3.8 116 0538 1.1 34 1208 4.5 137 1905 0.9 27	21 M 0140 4.5 137 0749 0.7 21 1354 4.6 140 2034 0.2 6		6 Tu 0026 3.9 119 0627 0.8 24 1233 4.5 137 1927 0.3 9		21 W 0202 4.3 131 0818 0.7 21 1413 4.1 125 2049 0.2 6			
7 F 0524 1.2 37 1204 4.6 140 1844 1.2 37	22 Sa 0102 4.7 143 0707 0.5 15 1321 5.1 155 2003 0.3 9		7 M 0058 3.9 119 0654 1.2 37 1302 4.5 137 2010 0.8 24	22 Tu 0237 4.5 137 0853 0.7 21 1451 4.4 134 2129 0.2 6		7 W 0118 4.1 125 0754 0.8 24 1330 4.4 134 2030 0.2 6		22 Th 0255 4.3 131 0918 0.7 21 1508 3.9 119 2140 0.3 9			
8 Sa 0043 3.9 119 0609 1.4 43 1250 4.5 137 1951 1.2 37	23 Su 0203 4.6 140 0816 0.7 21 1422 4.9 149 2105 0.3 9		8 Tu 0150 4.0 122 0827 1.1 34 1401 4.5 137 2109 0.5 15	23 W 0333 4.5 137 0950 0.6 18 1548 4.3 131 2218 0.2 6		8 Th 0214 4.3 131 0906 0.6 18 1432 4.4 134 2128 -0.1 -3		23 F 0349 4.3 131 1011 0.6 18 1604 3.8 116 2227 0.3 9			
9 Su 0133 3.9 119 0747 1.5 46 1342 4.5 137 2053 1.1 34	24 M 0304 4.6 140 0920 0.7 21 1523 4.8 146 2200 0.2 6		9 W 0248 4.3 131 0933 0.8 24 1503 4.6 140 2201 0.2 6	24 Th 0428 4.6 140 1042 0.5 15 1643 4.2 128 2302 0.1 3		9 F 0315 4.6 140 1007 0.2 6 1538 4.5 137 2222 -0.3 -9		24 Sa 0441 4.4 134 1100 0.4 12 1700 3.8 116 2311 0.2 6			
10 M 0227 4.0 122 0902 1.3 40 1440 4.6 140 2147 0.8 24	25 Tu 0404 4.7 143 1016 0.6 18 1623 4.7 143 2249 0.1 3		10 Th 0348 4.6 140 1030 0.4 12 1608 4.8 146 2251 -0.1 -3	25 F 0517 4.8 146 1129 0.4 12 1733 4.3 131 2345 0.1 3		10 Sa 0417 5.0 152 1104 -0.2 -6 1645 4.6 140 2314 -0.6 -18		25 Su 0530 4.5 137 1147 0.2 6 1750 3.9 119 2354 0.2 6			
11 Tu 0327 4.2 128 1001 1.0 30 1543 4.8 146 2236 0.5 15	26 W 0459 4.8 146 1107 0.5 15 1717 4.8 146 2335 0.1 3		11 F 0446 5.1 155 1124 0.0 0 1709 5.0 152 2340 -0.5 -15	26 Sa 0602 4.9 149 1215 0.2 6 1818 4.3 131		11 M 0517 5.4 165 1159 -0.5 -15 1746 4.8 146		26 Tu 0613 4.7 143 1232 0.1 3 1834 4.0 122			
12 W 0425 4.5 137 1054 0.6 18 1643 5.0 152 2323 0.1 3	27 Th 0548 5.0 152 1155 0.3 9 1803 4.8 146		12 Sa 0540 5.5 168 1217 -0.4 -12 1805 5.2 158	27 Su 0026 0.1 3 0642 5.1 155 1258 0.1 3 1859 4.3 131		12 M 0007 -0.8 -24 0612 5.7 174 1254 -0.8 -24 1842 4.9 149		27 Tu 0037 0.1 3 0653 4.8 146 1315 -0.1 -3 1915 4.0 122			
13 Th 0519 5.0 152 1146 0.2 6 1737 5.3 162	28 F 0017 0.0 0 0630 5.2 158 1240 0.2 6 1845 4.8 146		13 Su 0030 -0.7 -21 0630 5.9 180 1311 -0.7 -21 1857 5.4 165	28 M 0106 0.1 3 0718 5.1 155 1341 0.0 0 1938 4.3 131		13 Tu 0100 -0.9 -27 0704 5.9 180 1347 -1.0 -30 1935 5.0 152		28 W 0119 0.0 0 0729 4.9 149 1358 -0.2 -6 1953 4.1 125			
14 F 0010 -0.3 -9 0607 5.4 165 1237 -0.2 -6 1827 5.6 171	29 Sa 0058 0.0 0 0709 5.3 162 1324 0.1 3 1924 4.8 146		14 M 0120 -0.9 -27 0719 6.1 186 1403 -0.9 -27 1948 5.4 165	29 Tu 0146 0.1 3 0753 5.1 155 1423 -0.1 -3 2015 4.2 128		14 W 0152 -1.0 -30 0754 6.0 183 1439 -1.1 -34 2029 5.0 152		29 Th 0200 0.0 0 0803 4.9 149 1439 -0.3 -9 2029 4.0 122			
15 Sa 0057 -0.5 -15 0653 5.8 177 1329 -0.5 -15 1916 5.7 174	30 Su 0138 0.1 3 0745 5.3 162 1406 0.1 3 2001 4.7 143		15 Tu 0211 -0.9 -27 0808 6.2 189 1455 -1.0 -30 2042 5.3 162	30 W 0225 0.2 6 0826 5.1 155 1503 -0.1 -3 2052 4.1 125		15 Th 0244 -0.9 -27 0846 5.9 180 1529 -1.1 -34 2124 4.9 149		30 F 0240 0.0 0 0836 4.9 149 1518 -0.3 -9 2104 4.0 122			
			31 M 0216 0.2 6 0820 5.3 162 1446 0.1 3 2038 4.6 140					31 Sa 0318 0.0 0 0909 4.9 149 1556 -0.3 -9 2141 4.0 122			

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Bayonne Bridge, Staten Island, New York, 2016

Times and Heights of High and Low Waters

January				February				March			
Time	Height	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 F 0111	4.4	134	16 0044	5.1	155	1 M 0145	4.3	131	16 Tu 0224	5.1	155
0703	0.9	27	Sa 0718	0.1	3	0815	1.0	30	0926	0.1	3
1312	4.3	131	1306	5.0	152	1350	3.9	119	1457	4.6	140
1939	0.6	18	● 1943	-0.3	-9	2018	0.8	24	2134	0.0	0
2 Sa 0157	4.4	134	17 0142	5.1	155	2 0232	4.3	131	17 W 0328	5.1	155
0808	1.0	30	Su 0833	0.2	6	0927	0.9	27	W 1029	0.0	0
1358	4.1	125	1407	4.8	146	1446	3.8	116	1604	4.5	137
● 2035	0.7	21	2050	-0.3	-9	2130	0.7	21	2236	-0.1	-3
3 Su 0244	4.4	134	18 0242	5.2	158	3 W 0327	4.5	137	18 Th 0434	5.1	155
0915	1.0	30	M 0943	0.1	3	1028	0.6	18	Th 1125	-0.2	-6
1448	4.0	122	1511	4.6	140	1551	3.8	116	1708	4.6	140
2130	0.6	18	2154	-0.3	-9	2229	0.5	15	2331	-0.2	-6
4 M 0334	4.5	137	19 0346	5.2	158	4 Th 0429	4.7	143	4 F 0536	5.2	158
1013	0.8	24	Tu 1045	-0.2	-6	1121	0.3	9	F 1217	-0.4	-12
1545	3.9	119	1618	4.6	140	1657	4.0	122	1806	4.8	146
2221	0.5	15	2252	-0.4	-12	2323	0.2	6	2253	0.4	12
5 Tu 0427	4.6	140	20 W 0451	5.3	162	5 F 0527	5.0	152	5 F 0333	4.7	143
1104	0.5	15	1142	-0.4	-12	1212	-0.1	-3	19 0514	5.0	152
1644	4.0	122	1723	4.7	143	1754	4.3	131	Sa 1153	0.0	0
2308	0.3	9	2347	-0.5	-15	2023	-0.3	-9	Sa 1745	5.0	152
6 W 0519	4.9	149	21 Th 0551	5.5	168	6 Sa 0015	-0.1	-3	20 0003	0.1	3
1153	0.2	6	1236	-0.6	-18	0617	5.4	165	Su 0607	5.2	158
1739	4.2	128	1821	4.9	149	1301	-0.4	-12	Su 1239	-0.1	-3
2355	0.1	3	1842	4.7	143	1842	4.7	143	1834	5.2	158
7 Th 0606	5.2	158	22 F 0039	-0.6	-18	7 Su 0106	-0.4	-12	21 M 0545	5.4	165
1241	-0.1	-3	0644	5.7	174	0702	5.7	174	21 0652	5.3	162
1827	4.4	134	1327	-0.8	-24	1348	-0.8	-24	M 1322	-0.2	-6
1912	5.0	152	1912	5.0	152	1926	5.0	152	1916	5.4	165
8 F 0042	-0.1	-3	23 Sa 0130	-0.6	-18	8 M 0156	-0.7	-21	22 0135	-0.1	-3
0647	5.4	165	0731	5.7	174	0745	6.0	183	F 0732	5.4	165
1329	-0.4	-12	1415	-0.9	-27	1434	-1.1	-34	Tu 1402	-0.2	-6
1909	4.6	140	● 1959	5.1	155	● 2008	5.3	162	1955	5.5	168
9 Sa 0129	-0.3	-9	24 Su 0218	-0.6	-18	9 Tu 0245	-0.9	-27	23 W 0217	-0.2	-6
0725	5.7	174	0813	5.7	174	0827	6.1	186	0808	5.3	162
1414	-0.7	-21	1459	-0.9	-27	1518	-1.3	-40	W 1439	-0.2	-6
● 1948	4.8	146	2043	5.1	155	2052	5.5	168	● 2030	5.5	168
10 Su 0216	-0.5	-15	25 M 0302	-0.6	-18	10 W 0332	-1.0	-30	23 0227	-1.0	-30
0802	5.8	177	0854	5.5	168	0912	6.0	183	24 Th 0256	-0.2	-6
1459	-0.9	-27	1540	-0.8	-24	1601	-1.3	-40	0842	5.2	158
2026	4.9	149	2127	5.0	152	2138	5.6	171	Th 1513	-0.1	-3
11 M 0302	-0.6	-18	26 Tu 0343	-0.4	-12	11 Th 0419	-1.0	-30	2103	5.4	165
0841	5.9	180	0935	5.3	162	1001	5.9	180	25 F 0332	-0.1	-3
1541	-1.0	-30	Tu 1617	-0.6	-18	1644	-1.2	-37	0914	5.1	155
2108	5.0	152	2210	4.8	146	2230	5.6	171	1544	0.1	3
12 Tu 0346	-0.6	-18	27 W 0421	-0.2	-6	25 Th 0429	0.0	0	2132	5.3	162
0924	5.8	177	1015	5.0	152	0943	5.0	152	20 0406	0.0	0
1623	-1.0	-30	1651	-0.3	-9	1617	-0.2	-6	Sa 0943	4.8	146
2154	5.0	152	2255	4.7	143	2212	5.0	152	Sa 1612	0.3	9
13 W 0431	-0.5	-15	28 Th 0456	0.1	3	11 F 0405	-1.1	-34	2158	5.2	158
1012	5.7	174	1055	4.7	143	1016	4.8	146	26 F 0406	0.0	0
1705	-0.9	-27	1723	0.0	0	1644	0.0	0	Su 0943	4.8	146
2247	5.0	152	2338	4.5	137	2246	4.8	146	Su 1623	0.3	9
14 Th 0518	-0.4	-12	29 F 0532	0.4	12	12 F 0429	0.0	0	2158	5.2	158
1107	5.5	168	1136	4.4	134	0703	-0.1	-3	26 Th 0406	0.0	0
1750	-0.8	-24	1753	0.2	6	1254	5.0	152	Su 0943	4.8	146
2345	5.1	155	1918	-0.3	-9	1918	-0.3	-9	Sa 1612	0.3	9
15 F 0612	-0.1	-3	30 Sa 0021	4.4	134	15 0124	5.3	162	2158	5.2	158
1206	5.2	158	0611	0.6	18	0815	0.1	3	26 M 0406	0.0	0
1842	-0.5	-15	1218	4.2	128	1355	4.7	143	0755	0.1	3
1910	0.7	21	1825	0.5	15	● 2027	-0.1	-3	1343	4.8	146
31 Su 0102	4.3	131	31 Su 0102	4.3	131	14 0006	5.7	174	● 2005	0.3	9
0702	0.9	27	0702	0.9	27	0646	-0.2	-6	29 Th 0547	0.6	18
1302	4.0	122	1302	4.0	122	1243	5.1	155	Tu 1133	4.3	131
● 1910	0.7	21	● 1910	0.7	21	1856	0.0	0	1737	0.8	24

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Bayonne Bridge, Staten Island, New York, 2016

Times and Heights of High and Low Waters

April					May					June																						
	Time	Height		Time	Height		Time	Height		Time	Height		Time	Height																		
1 F 0143 4.9 149 0906 0.8 24 1426 4.4 134 2115 1.0 30	h m	ft	cm	16 Sa 0344 4.9 149 1034 0.4 12 1623 5.0 152 2250 0.6 18	h m	ft	cm	1 Su 0220 5.2 158 0934 0.4 12 1505 5.1 155 2201 0.7 21	h m	ft	cm	16 M 0403 4.8 146 1044 0.5 15 1642 5.3 162 2309 0.8 24	h m	ft	cm	16 W 0410 5.4 165 1055 -0.2 -6 1646 6.1 186 2341 -0.1 -3	h m	ft	cm													
	0143	4.9	149		0344	4.9	149		0220	5.2	158		0403	4.8	146																	
	0906	0.8	24		1034	0.4	12		0934	0.4	12		1044	0.5	15																	
	1426	4.4	134		1623	5.0	152		1505	5.1	155		1642	5.3	162																	
2 Sa 0250 5.0 152 1010 0.5 15 1534 4.6 140 2225 0.6 18	0250	5.0	152	17 Su 0443 4.9 149 1122 0.3 9 1717 5.2 158 2339 0.5 15	0328	5.3	162	2 M 1031 0.1 3 1610 5.5 168 2302 0.3 9	0458	4.8	146	2 Th 1126 0.5 15 1731 5.4 165 2355 0.6 18	0516	5.5	168	17 F 1209 0.6 18 1822 5.7 174	0008 0.6 18	0558 4.6 140	1209 0.6 18													
	0250	5.0	152		0443	4.9	149		1031	0.1	3		1126	0.5	15		0558 4.6 140	1209 0.6 18	1822 5.7 174													
	1010	0.5	15		1122	0.3	9		1610	5.5	168		1731	5.4	165		1209 0.6 18	1822 5.7 174	1822 5.7 174													
	1534	4.6	140		1717	5.2	158		2302	0.3	9		2355	0.6	18		1822 5.7 174	1822 5.7 174	1822 5.7 174													
3 Su 0401 5.2 158 1105 0.1 3 1642 5.0 152 2325 0.2 6	0401	5.2	158	18 M 0536 5.0 152 1205 0.2 6 1806 5.4 165	0536	5.0	152	3 Tu 0437 5.5 168 1124 -0.2 -6 1713 5.9 180	0548	4.8	146	3 F 0617 5.7 174 1243 -0.5 -15 1840 6.7 204	0038 -0.4 -12	0617 5.7 174	1243 -0.5 -15	18 Sa 0643 4.7 143 1252 0.5 15 1901 5.8 177	0053 0.4 12	0643 4.7 143	1252 0.5 15	1901 5.8 177												
	0401	5.2	158		0536	5.0	152		1124	-0.2	-6		1713	5.6 171	1840 6.7 204		0053 0.4 12	0643 4.7 143	1252 0.5 15	1901 5.8 177												
	1105	0.1	3		1205	0.2	6		1713	5.9	180		204	5.8 177	1840 6.7 204		0053 0.4 12	0643 4.7 143	1252 0.5 15	1901 5.8 177												
	1642	5.0	152		1806	5.4	165		1713	5.9	180		1840	6.7 204	1901 5.8 177		0053 0.4 12	0643 4.7 143	1252 0.5 15	1901 5.8 177												
4 M 0510 5.5 168 1157 -0.3 -9 1743 5.5 168	0510	5.5	168	19 Tu 0025 0.3 9 0623 5.1 155 1246 0.2 6 1848 5.6 171	0025	0.3	9	4 W 0000 -0.2 -6 0541 5.8 177 1217 -0.5 -15 1809 6.4 195	0039 0.4 12	0633 4.9 149	1247 0.4 12	4 Sa 0134 -0.7 -21 0713 5.8 177 1338 -0.6 -18 1932 6.9 210	0134 -0.7 -21	0713 5.8 177	1338 -0.6 -18	19 Su 0139 0.2 6 0724 4.8 146 1337 0.5 15 1935 5.9 180	0139 0.2 6	0724 4.8 146	1337 0.5 15	1935 5.9 180												
	0510	5.5	168		0623	5.1	155		0623	5.1	155		1217	-0.5 -15	1809 6.4 195		0139 0.2 6	0724 4.8 146	1337 0.5 15	1935 5.9 180												
	1157	-0.3	-9		1246	0.2	6		1246	-0.5 -15	1809		1809	6.4 195	1935 5.9 180		0139 0.2 6	0724 4.8 146	1337 0.5 15	1935 5.9 180												
	1743	5.5	168		1848	5.6	171		1848	5.6 171	1935 5.9 180		1935 5.9 180	1935 5.9 180	0139 0.2 6	0724 4.8 146	1337 0.5 15	1935 5.9 180														
5 Tu 0021 -0.3 -9 0609 5.9 180 1247 -0.7 -21 1835 6.0 183	0021	-0.3	-9	20 W 0109 0.2 6 0704 5.2 158 1326 0.1 3 1926 5.7 174	0109	0.2	6	5 Th 0056 -0.6 -18 0638 6.0 183 1309 -0.7 -21 1901 6.7 204	0123 0.2 6	0713 5.0 152	1328 0.4 12	5 Su 0228 -0.8 -24 0806 5.8 177 1431 -0.6 -18 2022 6.8 207	0228 -0.8 -24	0806 5.8 177	1431 -0.6 -18	20 M 0223 0.0 0 0801 4.9 149 1420 0.5 15 2007 5.9 180	0223 0.0 0	0801 4.9 149	1420 0.5 15	2007 5.9 180												
	0021	-0.3	-9		0704	5.2 158	1326 0.1 3		0638	6.0 183	1309 -0.7 -21		1901 6.7 204	1901 6.7 204	0228 -0.8 -24	0806 5.8 177	1431 -0.6 -18	2007 5.9 180														
	0609	5.9	180		1326	0.1	3		1309	-0.7 -21	1901 6.7 204		1901 6.7 204	1901 6.7 204	0228 -0.8 -24	0806 5.8 177	1431 -0.6 -18	2007 5.9 180														
	1247	-0.7	-21		1926	5.7 174	1926 5.7 174		1309	-0.7 -21	1901 6.7 204		1901 6.7 204	1901 6.7 204	0228 -0.8 -24	0806 5.8 177	1431 -0.6 -18	2007 5.9 180														
6 W 0115 -0.7 -21 0701 6.1 186 1337 -0.9 -27 1923 6.4 195	0115	-0.7	-21	21 Th 0151 0.1 3 0742 5.2 158 1404 0.2 6 2001 5.8 177	0151	0.1	3	6 F 0151 -0.8 -24 0731 6.1 186 1401 -0.8 -24 1950 6.9 210	0206 0.1 3	0750 5.0 152	1407 0.4 12	6 M 0319 -0.9 -27 0859 5.7 174 1522 -0.4 -12 2112 6.6 201	0319 -0.9 -27	0859 5.7 174	1522 -0.4 -12	21 Tu 0306 -0.1 -3 0836 4.9 149 1502 0.5 15 2039 5.9 180	0306 -0.1 -3	0836 4.9 149	1502 0.5 15	2039 5.9 180												
	0115	-0.7	-21		0742	5.2 158	1404 0.2 6		0731	6.1 186	1401 -0.8 -24		1950 6.9 210	1950 6.9 210	0319 -0.9 -27	0859 5.7 174	1522 -0.4 -12	2039 5.9 180														
	0701	6.1	186		1404	0.2	6		1401	-0.8 -24	1950 6.9 210		1950 6.9 210	1950 6.9 210	0319 -0.9 -27	0859 5.7 174	1522 -0.4 -12	2039 5.9 180														
	1337	-0.9	-27		2001	5.8 177	2001 5.8 177		1950	6.9 210	1950 6.9 210		1950 6.9 210	1950 6.9 210	0319 -0.9 -27	0859 5.7 174	1522 -0.4 -12	2039 5.9 180														
7 Th 0209 -1.0 -30 0750 6.3 192 1426 -1.1 -34 2010 6.7 204	0209	-1.0	-30	22 F 0231 0.0 0 0816 5.1 155 1440 0.2 6 2031 5.7 174	0231	0.0	0	7 Sa 0244 -1.0 -30 0822 6.1 186 1451 -0.8 -24 2039 6.9 210	0247 0.1 3	0824 4.9 149	1446 0.5 15	7 Tu 0408 -0.8 -24 0955 5.6 171 1611 -0.2 -16 2206 6.2 189	0408 -0.8 -24	0955 5.6 171	1611 -0.2 -16	22 W 0346 -0.1 -3 0912 4.9 149 1543 0.5 15 2114 5.9 180	0346 -0.1 -3	0912 4.9 149	1543 0.5 15	2114 5.9 180												
	0209	-1.0	-30		0816	5.1 155	1440 0.2 6		0822	6.1 186	1451 -0.8 -24		2039 6.9 210	2039 6.9 210	0346 -0.1 -3	0912 4.9 149	1543 0.5 15	2114 5.9 180														
	0750	6.3	192		1440	0.2	6		1451	-0.8 -24	2039 6.9 210		2039 6.9 210	2039 6.9 210	0346 -0.1 -3	0912 4.9 149	1543 0.5 15	2114 5.9 180														
	1426	-1.1	-34		2031	5.7 174	2031 5.7 174		1451	-0.8 -24	2039 6.9 210		2039 6.9 210	2039 6.9 210	0346 -0.1 -3	0912 4.9 149	1543 0.5 15	2114 5.9 180														
8 F 0300 -1.2 -37 0840 6.2 189 1514 -1.1 -34 2058 6.7 204	0300	-1.2	-37	23 Sa 0310 0.0 0 0848 5.0 152 1513 0.3 9 2058 5.6 171	0310	0.0	0	8 M 0335 -1.0 -30 0916 5.9 180 1541 -0.7 -21 2131 6.7 204	0327 0.0 0	0856 4.8 146	1522 0.6 18	8 W 0456 -0.5 -15 1053 5.4 165 1659 0.1 3 2302 5.9 180	0456 -0.5 -15	1053 5.4 165	1659 0.1 3	23 Th 0425 -0.1 -3 0953 4.9 149 1623 0.5 15 2156 5.8 177	0425 -0.1 -3	0953 4.9 149	1623 0.5 15	2156 5.8 177												
	0300	-1.2	-37		0848	5.0 152	1513 0.3 9		0916	5.9 180	1541 -0.7 -21		2131 6.7 204	2131 6.7 204	0425 -0.1 -3	0953 4.9 149	1623 0.5 15	2156 5.8 177														
	0840	6.2	189		1513	0.3	9		1541	-0.7 -21	2131 6.7 204		2131 6.7 204	2131 6.7 204	0425 -0.1 -3	0953 4.9 149	1623 0.5 15	2156 5.8 177														
	1514	-1.1	-34		2058	5.6 171	2058 5.6 171		2058	5.6 171	2131 6.7 204		2131 6.7 204	2131 6.7 204	0425 -0.1 -3	0953 4.9 149	1623 0.5 15	2156 5.8 177														
9 Sa 0351 -1.1 -34 0932 6.0 183 1601 -1.0 -30 2150 6.5 198	0351	-1.1	-34	24 Tu 0346 0.1 3 0917 4.9 149 1545 0.5 15 2122 5.5 168	0346	0.1	3	9 M 0425 -0.9 -27 1013 5.7 174 1630 -0.4 -12 2226 6.3 192	0425 -0.9 -27	1013 5.7 174	1630 -0.4 -12	24 F 0404 0.1 3 0928 4.7 143 1557 0.6 18 2129 5.7 174	0543 -0.2 -6	1013 5.7 174	1630 -0.4 -12	24 M 0543 -0.2 -6 1151 5.3 162 1748 0.5 15 2358 5.5 168	0543 -0.2 -6	1151 5.3 162	1748 0.5 15	24 W 0504 -0.1 -3 1041 5.0 152 1706 0.6 18 2247 5.7 174	0504 -0.1 -3	1041 5.0 152	1706 0.6 18	24 Th 0545 0.0 0 1135 5.1 155 1754 0.7 21 2344 5.6 171	0545 0.0 0	1135 5.1 155	1754 0.7 21	24 Su 0631 0.1 3 1231 5.3 162 1854 0.8 24 2344 5.6 171	0631 0.1 3	1231 5.3 162	1854 0.8 24	24 F 0545 0.0 0 1135 5.1 155 1754 0.

Bayonne Bridge, Staten Island, New York, 2016

Times and Heights of High and Low Waters

July				August				September			
Time	Height	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 F 0457	5.3	162	16 Sa 0519	4.4	134	1 M 0059	-0.3	-9	1 Th 0212	-0.2	-6
1128	-0.2	-6	1132	0.7	21	0644	5.4	165	0800	5.7	174
1727	6.3	192	1746	5.5	168	1302	-0.1	-3	1421	0.1	3
						1902	6.3	192	2012	5.9	180
2 Sa 0022	-0.3	-9	17 Su 0023	0.5	15	2 Tu 0150	-0.4	-12	2 W 0253	-0.2	-6
0600	5.4	165	0610	4.6	140	0735	5.6	171	0841	5.7	174
1223	-0.3	-9	1220	0.6	18	1354	-0.1	-3	1504	0.1	3
1824	6.5	198	1829	5.7	174	● 1950	6.3	192	2051	5.8	177
3 Su 0117	-0.5	-15	18 M 0110	0.2	6	3 W 0238	-0.5	-15	3 Sa 0331	0.0	0
0658	5.5	168	0655	4.8	146	0822	5.6	171	0922	5.6	171
1318	-0.3	-9	1308	0.5	15	1443	-0.1	-3	1544	0.3	9
1916	6.6	201	1909	5.9	180	2034	6.2	189	2129	5.5	168
4 M 0210	-0.6	-18	19 M 0156	0.0	0	4 Th 0323	-0.4	-12	4 Su 0406	0.2	6
0751	5.6	171	0735	5.0	152	0909	5.6	171	1002	5.5	168
1412	-0.3	-9	1356	0.3	9	1528	0.0	0	1622	0.5	15
● 2006	6.5	198	○ 1945	6.0	183	2118	5.9	180	2208	5.2	158
5 Tu 0301	-0.7	-21	20 W 0241	-0.2	-6	5 F 0403	-0.3	-9	5 M 0437	0.4	12
0842	5.6	171	0813	5.1	155	0956	5.5	168	1042	5.3	162
1503	-0.2	-6	1443	0.2	6	1611	0.2	6	1657	0.7	21
2054	6.4	195	2022	6.1	186	2202	5.6	171	2248	4.9	149
6 W 0348	-0.6	-18	21 Th 0323	-0.4	-12	6 Sa 0441	0.0	0	6 Tu 0505	0.7	21
0934	5.5	168	0852	5.2	158	1044	5.3	162	1123	5.2	158
1551	-0.1	-3	1528	0.2	6	1651	0.5	15	1644	-0.1	-3
2143	6.1	186	2101	6.1	186	2247	5.3	162	2223	6.0	183
7 Th 0432	-0.4	-12	22 F 0404	-0.4	-12	7 Su 0516	0.3	9	7 W 0532	0.9	27
1027	5.4	165	0935	5.3	162	1131	5.2	158	1203	5.0	152
1636	0.2	6	1612	0.2	6	1730	0.8	24	1814	1.2	37
2234	5.7	174	2145	6.0	183	2333	5.0	152	2330	4.7	143
8 F 0514	-0.2	-6	23 Sa 0444	-0.4	-12	8 M 0550	0.6	18	8 Th 0015	4.5	137
1121	5.3	162	1023	5.4	165	1216	5.1	155	0605	1.1	34
1720	0.5	15	1657	0.2	6	1811	1.0	30	1244	5.0	152
2325	5.4	165	2236	5.8	177				1909	1.3	40
9 Sa 0556	0.2	6	24 Su 0525	-0.3	-9	9 Tu 0019	4.7	143	9 M 0222	0.5	15
1212	5.2	158	1117	5.5	168	0624	0.8	24	0643	0.0	0
1806	0.8	24	1746	0.4	12	1259	5.0	152	1253	5.9	180
			2333	5.7	174	1901	1.3	40	● 1940	0.5	15
10 Su 0015	5.1	155	25 M 0611	-0.2	-6	10 W 0103	4.5	137	10 Sa 0154	4.3	131
0638	0.5	15	1213	5.6	171	0704	1.1	34	0807	1.4	43
1259	5.1	155	1844	0.5	15	1341	5.0	152	1419	5.0	152
1856	1.1	34				● 2005	1.4	43	2051	0.5	15
11 M 0102	4.8	146	26 Tu 0032	5.5	168	11 O 0149	4.4	134	11 Su 0250	4.3	131
0724	0.7	21	0704	0.0	0	0802	1.2	37	0927	1.3	40
1344	5.1	155	1309	5.7	174	1425	5.0	152	1516	5.1	155
● 1956	1.3	40	○ 1954	0.6	18	2111	1.3	40	2226	0.9	27
12 Tu 0147	4.6	140	27 W 0131	5.3	162	12 F 0238	4.3	131	12 M 0353	4.5	137
0815	0.9	27	0807	0.1	3	0907	1.2	37	1029	1.0	30
1429	5.1	155	1405	5.8	177	1514	5.0	152	1619	5.3	162
2058	1.3	40	2106	0.6	18	2209	1.1	34	2317	0.6	18
13 W 0234	4.5	137	28 Th 0231	5.2	158	12 F 0327	5.0	152	1137	5.3	162
0908	1.0	30	0913	0.1	3	0856	0.4	12	Tu 1738	5.6	171
1515	5.1	155	1505	5.9	180	1425	5.0	152			
2155	1.2	37	2211	0.4	12	2111	1.3	40			
14 Th 0326	4.3	131	29 F 0336	5.1	155	12 F 0437	4.4	134	27 W 0517	5.3	162
0958	1.0	30	1014	0.1	3	1059	0.9	27	0638	1.0	30
1605	5.2	158	1608	6.0	183	1704	5.4	165	1227	0.2	6
2246	1.0	30	2310	0.1	3	2350	0.6	18	1826	5.7	174
15 F 0422	4.3	131	30 Sa 0443	5.1	155	15 M 0534	4.6	140	28 W 0014	0.0	0
1045	0.9	27	1112	0.0	0	1151	0.7	21	0609	5.6	171
1657	5.3	162	1712	6.1	186	1755	5.7	174	1227	0.2	6
2335	0.7	21							1809	5.7	174
31 Su 0006	-0.1	-3	31 Su 0547	5.3	162	14 O 0437	4.4	134	29 Th 0059	0.0	0
			1208	-0.1	-3	1059	0.9	27	0654	5.7	174
			1811	6.2	189	1704	5.4	165	1313	0.2	6
						2350	0.6	18	1909	5.7	174
									● 1948	5.7	174
						31 W 0716	5.7	174			
						1335	0.0	0			
						1931	6.0	183			

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Bayonne Bridge, Staten Island, New York, 2016

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	0221	0.0	0	16 Su	0157	-0.8	-24	1 Tu	0258	0.3	9	16 W	0314	-1.0	-30
	0813	5.9	180		0742	6.7	204		0848	5.7	174		0901	6.7	204
	1439	0.1	3		1433	-0.8	-24		1532	0.2	6		1559	-1.0	-30
	2024	5.5	168		2009	6.3	192		2105	4.9	149		2139	5.7	174
2 Su	0257	0.1	3	17 M	0246	-0.9	-27	2 W	0331	0.4	12	2 Th	0403	-0.8	-24
	0848	5.8	177		0829	6.8	207		0915	5.5	168		0956	6.4	195
	1519	0.2	6		1524	-0.8	-24		1608	0.3	9		1650	-0.8	-24
	2059	5.3	162		2059	6.2	189		2135	4.7	143		2239	5.4	165
3 M	0331	0.3	9	18 Tu	0334	-0.9	-27	3 Th	0401	0.6	18	18 F	0454	-0.4	-12
	0922	5.6	171		0919	6.7	204		0941	5.3	162		1056	6.1	186
	1555	0.4	12		1615	-0.8	-24		1643	0.4	12		1742	-0.5	-15
	2132	5.1	155		2154	5.9	180		2208	4.5	137		2342	5.2	158
4 Tu	0401	0.5	15	19 W	0422	-0.6	-18	4 F	0431	0.8	24	19 Sa	0546	0.0	0
	0953	5.4	165		1014	6.5	198		1014	5.2	158		1158	5.7	174
	1630	0.5	15		1707	-0.5	-15		1718	0.6	18		1838	-0.2	-6
	2206	4.8	146		2255	5.6	171		2250	4.3	131				
5 W	0429	0.7	21	20 Th	0512	-0.3	-9	5 Sa	0503	0.9	27	20 Su	0043	5.1	155
	1023	5.3	162		1116	6.2	189		1058	5.1	155		0645	0.4	12
	1704	0.7	21		1802	-0.2	-6		1758	0.7	21		1257	5.4	165
	2242	4.6	140		2359	5.4	165		2342	4.3	131		1939	0.1	3
6 Th	0456	0.9	27	21 F	0606	0.1	3	6 Su	0543	1.1	34	21 M	0139	5.0	152
	1057	5.1	155		1219	5.9	180		1153	5.0	152		0752	0.7	24
	1741	0.9	27		1903	0.1	3		1850	0.8	24		1353	5.1	155
	2326	4.4	134									0204	0.3	9	
7 F	0527	1.1	34	22 Sa	0102	5.2	158	7 M	0040	4.3	131	22 Tu	0234	4.9	149
	1142	5.0	152		0710	0.5	15		0640	1.2	37		0900	0.7	21
	1826	1.1	34		1321	5.6	171		1252	5.0	152		1448	4.9	149
					0210	0.3	9		1959	0.8	24		2138	0.3	9
8 Sa	0018	4.3	131	23 Su	0201	5.1	155	8 Tu	0138	4.5	137	23 W	0328	5.0	152
	0609	1.3	40		0820	0.7	21		0808	1.2	37		0959	0.7	21
	1234	5.0	152		1419	5.4	165		1353	5.1	155		1543	4.7	143
	01930	1.2	37		2114	0.4	12		2107	0.6	18		2227	0.3	9
9 Su	0114	4.3	131	24 M	0259	5.1	155	9 W	0238	4.8	146	24 Th	0422	5.0	152
	0713	1.4	43		0927	0.7	21		0930	0.9	27		1051	0.5	15
	1330	5.0	152		1518	5.2	158		1457	5.2	158		1638	4.7	143
	2045	1.1	34		2211	0.3	9		2205	0.2	6		2312	0.2	6
10 M	0211	4.4	134	25 Tu	0357	5.1	155	10 Th	0340	5.1	155	25 F	0513	5.2	158
	0847	1.3	40		1026	0.6	18		1034	0.5	15		1138	0.4	12
	1430	5.1	155		1616	5.2	158		1604	5.3	162		1730	4.7	143
	2148	0.8	24		2300	0.2	6		2257	-0.1	-3		2353	0.2	6
11 Tu	0313	4.6	140	26 W	0453	5.3	162	11 F	0442	5.6	171	26 Sa	0600	5.4	165
	0959	1.0	30		1117	0.5	15		1131	0.0	0		1223	0.2	6
	1535	5.3	162		1711	5.2	158		1709	5.5	168		1816	4.8	146
	2241	0.5	15		2345	0.1	3		2348	-0.5	-15				
12 W	0416	5.0	152	27 Th	0544	5.5	168	12 Sa	0540	6.1	186	27 Tu	0034	0.1	3
	1058	0.6	18		1204	0.3	9		1227	-0.4	-12		0641	5.5	168
	1640	5.5	168		1800	5.2	158		1807	5.8	177		1307	0.1	3
	2331	0.1	3									1858	4.8	146	
13 Th	0515	5.5	168	28 F	0027	0.1	3	13 Su	0040	-0.8	-24	28 W	0114	0.1	3
	1153	0.2	6		0629	5.7	174		0633	6.5	198		0719	5.6	171
	1739	5.9	180		1250	0.2	6		1322	-0.7	-21		1350	-0.1	-3
					1844	5.3	162		1901	6.0	183		1936	4.8	146
14 F	0019	-0.3	-9	29 Sa	0108	0.1	3	14 M	0131	-1.0	-30	29 Th	0153	0.1	3
	0608	6.0	183		0709	5.8	177		0722	6.8	207		0753	5.6	171
	1247	-0.2	-6		1333	0.1	3		1416	-1.0	-30		1431	-0.1	-3
	1831	6.1	186		1923	5.3	162		1952	6.0	183		2012	4.8	146
15 Sa	0108	-0.6	-18	30 Su	0147	0.1	3	15 Tu	0223	-1.0	-30	30 W	0231	0.2	6
	0656	6.4	195		0745	5.8	177		0811	6.8	207		0823	5.6	171
	1340	-0.5	-15		1415	0.1	3		1508	-1.1	-34		1511	-0.1	-3
	01920	6.3	192		01959	5.2	158		2044	5.9	180		2044	4.6	140
				31 M	0224	0.2	6								
					0818	5.8	177								
					1454	0.1	3								
					2033	5.1	155								

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Albany, New York, 2016

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 F 0359 0.2 6 0941 4.7 143 1613 0.7 21 2153 4.6 140	16 0353 -0.2 -6 Sa 0912 5.1 155 1627 0.0 0 O 2140 5.2 158	1 M 0433 0.6 18 1030 4.8 146 1727 0.9 27 2301 4.3 131	16 Tu 0521 0.1 3 1054 5.4 165 1813 0.1 3 2331 5.1 155	1 Tu 0331 1.0 30 0852 5.3 162 1648 1.1 34 O 2217 4.5 137	16 W 0459 0.7 21 1033 5.7 174 1752 0.4 12 2314 5.5 168			
	2 Sa 0445 0.3 9 1031 4.7 143 1709 0.8 24 O 2247 4.5 137	17 Su 0448 -0.2 -6 1013 5.2 158 1730 0.0 0 2244 5.0 152	2 Tu 0524 0.7 21 1121 4.9 149 1826 0.8 24 2358 4.2 128	17 W 0621 0.1 3 1156 5.4 165 1913 0.0 0	2 W 0427 1.1 34 0944 5.2 158 1749 1.1 34 2317 4.5 137	17 Th 0559 0.7 21 1136 5.6 171 1850 0.4 12		
	3 Su 0531 0.4 12 1122 4.8 146 1806 0.7 21 2342 4.4 134	18 M 0545 -0.1 -3 1114 5.2 158 1832 0.0 0 2347 5.0 152	3 W 0621 0.7 21 1213 4.9 149 1924 0.7 21	18 Th 0031 5.2 158 0719 0.1 3 1255 5.5 168 2009 -0.1 -3	3 Th 0535 1.1 34 1102 5.2 158 1849 1.0 30	18 F 0012 5.6 171 0657 0.6 18 1235 5.7 174 1944 0.3 9		
	4 M 0619 0.4 12 1212 4.9 149 1903 0.6 18	19 Tu 0643 -0.2 -6 1215 5.3 162 1933 -0.2 -6	4 Th 0052 4.3 131 0718 0.6 18 1303 5.1 155 2019 0.5 15	19 F 0127 5.3 162 0815 0.0 0 1350 5.6 171 2102 -0.2 -6	4 F 0015 4.6 140 0643 1.0 30 1214 5.3 162 1946 0.8 24	19 Sa 0108 5.8 177 0753 0.5 15 1330 5.8 177 2036 0.2 6		
5 Tu 0036 4.3 131 0708 0.4 12 1300 5.0 152 1958 0.4 12	20 W 0047 5.0 152 0740 -0.2 -6 1313 5.4 165 2030 -0.3 -9	5 F 0142 4.4 134 0814 0.4 12 1349 5.3 162 2110 0.3 9	20 Sa 0219 5.4 165 0907 0.0 0 1439 5.6 171 2151 -0.3 -9	5 Sa 0108 4.8 146 0746 0.9 27 1312 5.5 168 2039 0.6 18	20 Su 0200 6.0 183 0846 0.4 12 1419 5.8 177 2123 0.2 6			
6 W 0127 4.4 134 0757 0.3 9 1345 5.2 158 2050 0.2 6	21 Th 0143 5.1 155 0835 -0.3 -9 1406 5.5 168 2125 -0.5 -15	6 Sa 0228 4.6 140 0907 0.3 9 1432 5.4 165 2159 0.1 3	21 Su 0307 5.5 168 0957 0.0 0 1525 5.6 171 2237 -0.2 -6	6 Su 0157 5.1 155 0844 0.6 18 1403 5.7 174 2129 0.4 12	21 M 0247 6.1 186 0935 0.4 12 1505 5.9 180 2207 0.2 6			
7 Th 0214 4.4 134 0846 0.2 6 1425 5.3 162 2139 0.1 3	22 F 0236 5.1 155 0928 -0.3 -9 1456 5.5 168 2215 -0.5 -15	7 Su 0310 4.7 143 0959 0.1 3 1513 5.6 171 2245 -0.1 -3	22 M 0353 5.6 171 1043 0.0 0 1609 5.6 171 O 2320 -0.1 -3	7 M 0242 5.3 162 0939 0.4 12 1450 5.8 177 2217 0.2 6	22 Tu 0331 6.2 189 1021 0.4 12 1547 5.9 180 2248 0.3 9			
8 F 0257 4.5 137 0933 0.1 3 1502 5.4 165 2226 -0.1 -3	23 Sa 0325 5.2 158 1017 -0.3 -9 1543 5.5 168 O 2303 -0.5 -15	8 M 0351 4.9 149 1049 -0.1 -3 1554 5.7 174 ● 2331 -0.2 -6	23 Tu 0438 5.5 168 1127 0.2 6 1651 5.5 168 ● 2303 0.1 3	8 Tu 0324 5.6 171 1031 0.2 6 1537 6.0 183 ● 2326 0.5 15	23 W 0412 6.1 186 1104 0.5 15 1628 5.8 177 O 2326 0.5 15			
9 Sa 0338 4.5 137 1020 0.0 0 1536 5.5 168 ● 2312 -0.2 -6	24 Su 0414 5.1 155 1104 -0.2 -6 1628 5.4 165 2348 -0.4 -12	9 Tu 0431 5.1 155 1138 -0.2 -6 1638 5.7 174 ● 2331 -0.2 -6	24 W 0000 0.0 0 0521 5.5 168 1209 0.3 9 1733 5.4 165	9 W 0406 5.8 177 1122 0.0 0 1624 6.0 183 2348 0.1 3	24 Th 0451 6.1 186 1145 0.6 18 1708 5.6 171 O 2326 0.5 15			
10 Su 0417 4.6 140 1107 -0.1 -3 1610 5.6 171 2356 -0.2 -6	25 M 0501 5.1 155 1150 -0.1 -3 1713 5.3 162	10 W 0015 -0.2 -6 0514 5.2 158 1228 -0.2 -6 1728 5.7 174	25 Th 0037 0.2 6 0602 5.4 165 1249 0.5 15 1815 5.2 158	10 Th 0449 5.9 180 1213 0.0 0 1715 6.0 183	25 F 0001 0.7 21 0528 6.0 183 1225 0.7 21 1747 5.5 168			
11 M 0455 4.7 143 1154 -0.1 -3 1649 5.6 171	26 Tu 0032 -0.3 -9 0548 5.0 152 1233 0.1 3 1758 5.2 158	11 Th 0101 -0.2 -6 0601 5.3 162 1320 -0.2 -6 1822 5.6 171	26 F 0113 0.4 12 0643 5.3 162 1330 0.6 18 1857 5.1 155	11 F 0034 0.1 3 0536 6.0 183 1305 0.0 0 1810 5.9 180	26 Sa 0034 0.9 27 0600 5.9 180 1305 0.9 27 1826 5.3 162			
12 Tu 0041 -0.3 -9 0537 4.7 143 1243 -0.1 -3 1735 5.6 171	27 W 0113 -0.1 -3 0636 4.9 149 1316 0.3 9 1844 5.0 152	12 F 0147 -0.2 -6 0653 5.4 165 1414 -0.1 -3 1922 5.5 168	27 Sa 0146 0.6 18 0721 5.3 162 1412 0.8 24 1941 4.9 149	12 Sa 0122 0.2 6 0628 6.0 183 1359 0.1 3 1909 5.7 174	27 Su 0103 1.0 30 0622 5.9 180 1346 1.0 30 1905 5.2 158			
13 W 0126 -0.3 -9 0623 4.9 149 1333 -0.1 -3 1828 5.5 168	28 Th 0153 0.1 3 0723 4.8 146 1359 0.5 15 1932 4.9 149	13 Sa 0236 -0.1 -3 0750 5.4 165 1511 0.0 0 2025 5.4 165	28 Su 0217 0.7 21 0755 5.3 162 1458 0.9 27 2028 4.8 146	13 Su 0211 0.3 9 0726 6.0 183 1455 0.2 6 2011 5.6 171	28 M 0131 1.1 34 0636 6.0 183 1430 1.1 34 1945 5.1 155			
14 Th 0212 -0.3 -9 0716 5.0 152 1428 -0.1 -3 1929 5.4 165	29 F 0231 0.2 6 0809 4.8 146 1444 0.6 18 2020 4.7 143	14 Su 0328 0.0 0 0850 5.5 168 1611 0.1 3 2127 5.3 162	29 M 0249 0.8 24 0821 5.3 162 1550 1.0 30 2120 4.6 140	14 M 0304 0.4 12 0827 5.9 180 1553 0.3 9 2112 5.5 168	29 Tu 0204 1.2 37 0711 6.0 183 1518 1.2 37 2032 5.0 152			
15 F 0301 -0.3 -9 0813 5.1 155 1526 0.0 0 2035 5.3 162	30 Sa 0310 0.4 12 0855 4.8 146 1534 0.8 24 2111 4.6 140	15 M 0423 0.1 3 0951 5.4 165 1712 0.1 3 ● 2229 5.2 158		15 Tu 0400 0.6 18 0930 5.8 177 1652 0.4 12 ● 2213 5.5 168	30 W 0248 1.3 40 0756 5.9 180 1613 1.3 40 2131 5.0 152			
	31 Su 0349 0.5 15 0942 4.8 146 1628 0.8 24 ● 2205 4.4 134				31 Th 0347 1.5 46 0849 5.8 177 1713 1.4 43 ● 2234 5.0 152			

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean low water during lowest river stages which is the chart datum of soundings.

Albany, New York, 2016

Times and Heights of High and Low Waters

April				May				June			
Time	Height	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 F 0501	1.5	46	16 Sa 0633	1.1	34	1 Su 0552	1.5	46	1 W 0018	6.0	183
0952	5.7	174	1210	5.8	177	1043	5.8	177	701	1.2	37
1813	1.3	40	1915	0.6	18	1836	1.1	34	1235	5.5	168
2336	5.1	155				2359	5.7	174	1928	0.7	21
2 Sa 0615	1.5	46	17 Su 0045	6.1	186	2 M 0659	1.3	40	17 Tu 0108	6.2	189
1119	5.7	174	0729	1.0	30	1206	5.8	177	754	1.0	30
1911	1.2	37	1305	5.8	177	1932	1.0	30	1326	5.6	171
			2005	0.6	18				2014	0.7	21
3 Su 0034	5.3	162	18 M 0136	6.3	192	3 Tu 0054	6.0	183	18 W 0155	6.3	192
0721	1.2	37	0822	0.9	27	0801	1.0	30	0844	0.8	24
1236	5.7	174	1355	5.9	180	1310	5.9	180	1413	5.6	171
2005	1.0	30	2051	0.5	15	2025	0.8	24	2057	0.7	21
4 M 0125	5.6	171	19 W 0223	6.5	198	4 W 0145	6.3	192	19 Th 0237	6.4	195
0822	1.0	30	0911	0.8	24	0859	0.7	21	0931	0.7	21
1335	5.9	180	1440	5.9	180	1407	6.0	183	1457	5.5	168
2057	0.8	24	2134	0.6	18	2116	0.7	21	2138	0.7	21
5 Tu 0213	6.0	183	20 W 0305	6.5	198	5 Th 0232	6.6	201	20 F 0316	6.5	198
0919	0.7	21	0957	0.7	21	0955	0.4	12	1016	0.6	18
1428	6.1	186	1523	5.9	180	1459	6.1	186	1539	5.4	165
2146	0.6	18	2214	0.7	21	2206	0.6	18	2217	0.8	24
6 W 0257	6.2	189	21 Th 0345	6.5	198	6 F 0318	6.7	204	21 F 0352	6.4	195
1013	0.4	12	1040	0.7	21	1048	0.2	6	1100	0.5	15
1518	6.2	189	1604	5.8	177	1550	6.1	186	1620	5.3	162
2234	0.5	15	2251	0.8	24	● 2255	0.6	18	○ 2254	0.9	27
7 Th 0341	6.5	198	22 Th 0422	6.5	198	7 Sa 0404	6.8	207	22 Su 0422	6.4	195
1105	0.2	6	1122	0.7	21	1140	0.2	6	1142	0.5	15
1608	6.2	189	1644	5.7	174	1643	6.0	183	1659	5.2	158
● 2321	0.5	15	○ 2326	1.0	30	2344	0.6	18	2330	1.0	30
8 F 0425	6.6	201	23 Sa 0454	6.4	195	8 Su 0452	6.7	204	23 M 0444	6.3	192
1157	0.2	6	1203	0.8	24	1231	0.2	6	1223	0.6	18
1659	6.1	186	1722	5.5	168	1737	5.9	180	1736	5.1	155
			2358	1.1	34						
9 Sa 0008	0.5	15	24 W 0519	6.4	195	9 M 0033	0.7	21	24 Tu 0006	1.1	34
0513	6.6	201	1244	0.9	27	0544	6.5	198	0501	6.4	195
1249	0.2	6	1800	5.4	165	1323	0.3	9	1304	0.6	18
1755	6.0	183				1835	5.8	177	1812	5.1	155
10 Su 0057	0.6	18	25 M 0030	1.2	37	10 Tu 0124	0.9	27	25 W 0045	1.1	34
0605	6.5	198	0531	6.4	195	0640	6.3	192	0533	6.4	195
1342	0.3	9	1325	1.0	30	1416	0.4	12	1347	0.7	21
1853	5.9	180	1836	5.3	162	1934	5.7	174	1849	5.1	155
11 M 0147	0.7	21	26 Tu 0102	1.3	40	11 W 0217	1.0	30	26 Th 0128	1.2	37
0702	6.3	192	0558	6.4	195	0741	6.1	186	0616	6.3	192
1437	0.4	12	1407	1.1	34	1509	0.5	15	1431	0.7	21
1954	5.8	177	1911	5.2	158	2034	5.7	174	1932	5.2	158
12 Tu 0240	0.9	27	27 W 0140	1.4	43	12 Th 0312	1.2	37	27 F 0218	1.2	37
0804	6.2	189	0638	6.4	195	0843	5.9	180	0705	6.2	189
1533	0.5	15	1453	1.2	37	1603	0.6	18	1519	0.7	21
2055	5.8	177	1954	5.2	158	2132	5.7	174	2025	5.3	162
13 W 0337	1.0	30	28 Th 0227	1.5	46	13 F 0409	1.3	40	28 Sa 0318	1.3	40
0907	6.0	183	0726	6.3	192	0943	5.7	174	0801	6.0	183
1630	0.6	18	1544	1.2	37	1656	0.7	21	1610	0.8	24
● 2154	5.8	177	2052	5.3	162	● 2228	5.8	177	2125	5.4	165
14 Th 0435	1.1	34	29 F 0328	1.6	49	14 Sa 0507	1.3	40	29 W 0424	1.3	40
1010	5.9	180	0820	6.2	189	1042	5.6	171	0906	5.8	177
1726	0.7	21	1640	1.3	40	1749	0.7	21	1705	0.7	21
2253	5.8	177	● 2156	5.3	162	2324	5.9	180	● 2226	5.5	168
15 F 0535	1.1	34	30 Sa 0440	1.6	49	15 Su 0605	1.3	40	30 M 0533	1.2	37
1112	5.8	177	0923	6.0	183	1140	5.6	171	1025	5.6	171
1822	0.7	21	1738	1.2	37	1840	0.7	21	1802	0.7	21
2351	6.0	183	2259	5.5	168				2327	5.7	174
									31 Tu 0639	1.0	30
									1143	5.5	168
									1859	0.6	18

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean low water during lowest river stages which is the chart datum of soundings.

Albany, New York, 2016

Times and Heights of High and Low Waters

July				August				September			
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height
1 F 0058 5.7 174 0823 0.0 0 1330 5.0 152 2025 -0.1 -3	16 Sa 0131 5.2 158 0835 0.2 6 1401 4.2 128 2026 0.3 9	1 M 0229 5.5 168 0953 -0.8 -24 1502 4.8 146 2153 -0.5 -15	16 Tu 0220 5.1 155 0940 -0.3 -9 1500 4.2 128 2137 -0.1 -3	1 Th 0347 5.3 162 1101 -0.9 -27 1618 5.1 155 2309 -0.4 -12	16 F 0315 5.4 165 1040 -0.5 -15 1548 5.0 152 2258 -0.3 -9						
2 Sa 0152 5.9 180 0919 -0.3 -9 1425 5.0 152 2120 -0.1 -3	17 Su 0213 5.4 165 0924 -0.1 -3 1447 4.2 128 2114 0.2 6	2 Tu 0318 5.5 168 1042 -0.9 -27 1552 4.9 149 2243 -0.4 -12	17 W 0300 5.2 158 1026 -0.5 -15 1540 4.4 134 2227 -0.2 -6	2 F 0431 5.2 158 1142 -0.7 -21 1703 5.0 152 2353 -0.2 -6	17 Sa 0359 5.4 165 1124 -0.6 -18 1628 5.2 158 2348 -0.4 -12						
3 Su 0243 5.9 180 1013 -0.5 -15 1518 5.1 155 2212 -0.2 -6	18 M 0252 5.4 165 1010 -0.2 -6 1529 4.3 131 2200 0.1 3	3 W 0405 5.4 165 1128 -0.9 -27 1641 4.9 149 2330 -0.3 -9	18 Th 0337 5.3 162 1109 -0.6 -26 1618 4.6 140 2316 -0.3 -9	3 Sa 0513 5.0 152 1222 -0.5 -15 1746 5.0 152	18 Su 0445 5.4 165 1208 -0.6 -18 1710 5.4 165						
4 M 0332 5.9 180 1104 -0.6 -18 1609 5.1 155 2302 -0.1 -3	19 Tu 0326 5.5 168 1054 -0.4 -12 1609 4.4 134 2247 0.0 0	4 Th 0451 5.3 162 1212 -0.8 -24 1729 4.8 146	19 F 0416 5.4 165 1152 -0.7 -21 1656 4.7 143	4 Su 0036 0.0 0 0556 4.8 146 1258 -0.3 -9 1828 4.9 149	19 M 0039 -0.4 -12 0536 5.3 162 1253 -0.6 -18 1758 5.4 165						
5 Tu 0420 5.8 177 1152 -0.6 -18 1701 5.0 152 2351 0.0 0	20 W 0358 5.5 168 1137 -0.5 -15 1647 4.4 134 2333 0.0 0	5 F 0016 -0.2 -6 0537 5.1 155 1255 -0.6 -18 1817 4.8 146	20 Sa 0004 -0.4 -12 0458 5.4 165 1235 -0.8 -24 1737 4.9 149	5 M 0119 0.2 6 0640 4.6 140 1333 -0.1 -3 1910 4.8 146	20 Tu 0132 -0.4 -12 0632 5.2 158 1341 -0.5 -15 1851 5.4 165						
6 W 0509 5.6 171 1239 -0.5 -15 1753 5.0 152	21 Th 0430 5.6 171 1219 -0.5 -15 1724 4.6 140	6 Sa 0101 0.0 0 0623 4.9 149 1335 -0.5 -15 1905 4.7 143	21 Su 0054 -0.4 -12 0547 5.3 162 1319 -0.7 -21 1823 5.0 152	6 Tu 0202 0.3 9 0725 4.4 134 1405 0.1 3 1950 4.8 146	21 W 0227 -0.3 -9 0733 5.0 152 1432 -0.4 -12 1951 5.4 165						
7 Th 0039 0.1 3 0559 5.4 165 1325 -0.4 -12 1846 4.9 149	22 F 0019 0.0 0 0508 5.5 168 1301 -0.5 -15 1803 4.7 143	7 Su 0147 0.2 6 0711 4.7 143 1415 -0.3 -9 1952 4.7 143	22 M 0147 -0.3 -9 0641 5.1 155 1404 -0.7 -21 1914 5.1 155	7 W 0247 0.5 15 0814 4.2 128 1436 0.2 6 2030 4.8 146	22 Th 0325 -0.2 -6 0836 4.9 149 1527 -0.2 -6 2055 5.3 162						
8 F 0127 0.3 9 0650 5.2 158 1411 -0.3 -9 1939 4.9 149	23 Sa 0108 0.0 0 0553 5.5 168 1344 -0.5 -15 1848 4.8 146	8 M 0233 0.4 12 0801 4.5 137 1454 -0.1 -3 2040 4.7 143	23 Tu 0242 -0.3 -9 0743 5.0 152 1454 -0.6 -18 2012 5.1 155	8 Th 0338 0.6 18 0906 4.0 122 1511 0.3 9 2110 4.7 143	23 F 0424 -0.1 -3 0939 4.8 146 1625 -0.1 -3 2200 5.2 158						
9 Sa 0216 0.5 15 0743 5.0 152 1455 -0.1 -3 2031 4.9 149	24 Su 0200 0.0 0 0646 5.3 162 1429 -0.5 -15 1939 5.0 152	9 Tu 0323 0.5 15 0852 4.3 131 1532 0.1 3 2127 4.7 143	24 W 0341 -0.2 -6 0847 4.8 146 1547 -0.5 -15 2114 5.1 155	9 O 0433 0.7 21 1002 3.9 119 1601 0.5 15 2159 4.7 143	24 Sa 0524 -0.1 -3 1041 4.7 143 1726 0.0 0 2304 5.2 158						
10 Su 0307 0.7 21 0837 4.8 146 1540 0.0 0 2122 4.9 149	25 M 0256 0.0 0 0747 5.2 158 1517 -0.5 -15 2035 5.1 155	10 W 0416 0.6 18 0946 4.1 125 1614 0.2 6 2216 4.6 140	25 Th 0442 -0.1 -3 0952 4.6 140 1645 -0.3 -9 2217 5.1 155	10 Sa 0532 0.6 18 1100 3.8 116 1706 0.6 18 2300 4.7 143	25 Su 0623 -0.2 -6 1142 4.8 146 1827 0.0 0						
11 M 0400 0.8 24 0931 4.6 140 1624 0.2 6 2213 4.9 149	26 Tu 0356 0.1 3 0854 4.9 149 1610 -0.4 -12 2134 5.1 155	11 Th 0513 0.6 18 1043 3.9 119 1702 0.3 9 2307 4.7 143	26 F 0544 -0.2 -6 1056 4.5 137 1746 -0.3 -9 2322 5.1 155	11 Su 0630 0.5 15 1159 3.8 116 1816 0.6 18	26 M 0006 5.2 158 0720 -0.3 -9 1241 4.9 149 1926 -0.1 -3						
12 Tu 0455 0.8 24 1026 4.4 134 1711 0.3 9 2304 5.0 152	27 W 0459 0.1 3 1003 4.7 143 1707 -0.3 -9 2237 5.2 158	12 F 0611 0.5 15 1140 3.8 116 1757 0.4 12 2359 4.7 143	27 Sa 0645 -0.3 -9 1159 4.5 137 1847 -0.3 -9 2322 5.1 155	12 M 0001 4.8 146 0726 0.3 9 1253 4.0 122 1920 0.5 15	27 Tu 0103 5.3 162 0813 -0.5 -15 1335 5.1 155 2021 -0.2 -6						
13 W 0552 0.8 24 1122 4.3 131 1758 0.4 12 2354 5.0 152	28 Th 0603 0.0 0 1110 4.6 140 1807 -0.3 -9 2339 5.2 158	13 Sa 0708 0.4 12 1237 3.8 116 1855 0.4 12 2359 4.7 143	28 Su 0024 5.1 155 0744 -0.5 -15 1259 4.6 140 1946 -0.4 -12	13 Tu 0057 4.9 149 0819 0.1 3 1343 4.2 128 2019 0.2 6	28 W 0155 5.3 162 0902 -0.6 -18 1425 5.3 162 2113 -0.3 -9						
14 Th 0648 0.6 18 1218 4.2 128 1848 0.4 12	29 F 0705 -0.2 -6 1214 4.6 140 1907 -0.3 -9	14 Su 0050 4.8 146 0802 0.1 3 1329 3.9 119 1952 0.3 9	29 M 0122 5.2 158 0838 -0.7 -21 1354 4.8 146 2042 -0.5 -15	14 W 0147 5.1 155 0908 -0.1 -3 1427 4.5 137 2114 0.0 0	29 Th 0243 5.4 165 0948 -0.6 -18 1511 5.4 165 2201 -0.3 -9						
15 F 0044 5.1 155 0743 0.4 12 1311 4.2 128 1937 0.4 12</											

Albany, New York, 2016

Times and Heights of High and Low Waters

October				November				December															
	Time	Height			Time	Height			Time	Height													
1 Sa	0409	5.3	162	16 Su	0340	5.5	168	1 Tu	0507	4.9	149	16 Th	0007	-0.4	-12	1 Th	0007	0.1	3	16 F	0039	-0.5	-15
	1110	-0.4	-12		1056	-0.4	-12		1147	0.2	6		0523	4.6	140		0545	5.0	152				
	1635	5.4	165		1601	5.7	174		1716	5.5	168		1208	-0.2	-6		1239	-0.2	-6				
	2330	0.0	0		2332	-0.3	-9						1717	5.9	180		1706	5.5	168				
2 Su	0450	5.1	155	17 M	0429	5.5	168	2 W	0030	0.3	9	17 Th	0059	-0.3	-9	2 F	0048	0.2	6	17 Sa	0129	-0.4	-12
	1147	-0.2	-6		1142	-0.4	-12		0546	4.7	143		0603	5.1	155		0641	4.9	149				
	1714	5.4	165		1646	5.8	177		1219	0.4	12		1258	-0.1	-3		1330	-0.1	-3				
									1740	5.5	168		1813	5.7	174		1726	5.6	171		1855	5.4	165
3 M	0012	0.1	3	18 Tu	0023	-0.4	-12	3 Th	0111	0.4	12	18 F	0151	-0.3	-9	3 Sa	0129	0.2	6	18 Su	0220	-0.3	-9
	0531	4.9	149		0522	5.3	162		0625	4.6	140		0702	5.0	152		0739	4.9	149				
	1221	0.0	0		1230	-0.3	-9		1250	0.5	15		1351	0.0	0		1423	0.1	3				
	1751	5.3	162		1736	5.8	177		1754	5.5	168		1915	5.5	168		1954	5.2	158				
4 Tu	0053	0.3	9	19 W	0116	-0.3	-9	4 F	0152	0.5	15	19 Sa	0245	-0.2	-6	4 Su	0211	0.3	9	19 M	0310	-0.2	-6
	0612	4.7	143		0619	5.2	158		0704	4.5	137		0802	5.0	152		0836	4.9	149				
	1252	0.2	6		1319	-0.2	-6		1324	0.5	15		1446	0.1	3		1517	0.2	6				
	1824	5.2	158		1831	5.7	174		1826	5.5	168		2017	5.4	165		2052	5.1	155				
5 W	0134	0.4	12	20 Th	0210	-0.2	-6	5 Sa	0236	0.5	15	20 Su	0339	-0.1	-3	5 M	0255	0.3	9	20 Tu	0400	-0.1	-3
	0653	4.5	137		0719	5.1	155		0743	4.4	134		0902	5.0	152		0931	5.0	152				
	1321	0.3	9		1411	-0.1	-3		1406	0.6	18		1542	0.3	9		1612	0.4	12				
	1847	5.2	158		1933	5.6	171		1909	5.5	168		2119	5.3	162		2148	4.9	149				
6 Th	0218	0.5	15	21 F	0306	-0.1	-3	6 Su	0324	0.6	18	21 M	0433	-0.1	-3	6 Tu	0343	0.3	9	21 W	0450	0.0	0
	0737	4.4	134		0821	5.0	152		0830	4.4	134		1000	5.1	155		1026	5.0	152				
	1350	0.4	12		1507	0.1	3		1458	0.7	21		1641	0.3	9		1709	0.4	12				
	1906	5.2	158		2037	5.4	165		2000	5.4	165		2218	5.2	158		2244	4.8	146				
7 F	0304	0.6	18	22 Sa	0403	-0.1	-3	7 M	0416	0.6	18	22 Tu	0526	0.0	0	7 W	0435	0.3	9	22 Th	0540	0.0	0
	0824	4.2	128		0922	5.0	152		0928	4.4	134		1056	5.1	155		1119	5.1	155				
	1428	0.6	18		1605	0.2	6		1603	0.8	24		1739	0.4	12		1806	0.4	12				
	1943	5.2	158		2141	5.3	162		2058	5.3	162		2316	5.1	155		2339	4.7	143				
8 Sa	0356	0.7	21	23 Su	0500	0.0	0	8 Tu	0512	0.6	18	23 W	0618	-0.1	-3	8 Th	0531	0.2	6	23 F	0629	0.1	3
	0918	4.1	125		1023	5.0	152		1030	4.5	137		1152	5.2	158		1212	5.1	155				
	1519	0.7	21		1705	0.2	6		1716	0.8	24		1836	0.4	12		1901	0.4	12				
	2032	5.1	155		2243	5.2	158		2210	5.2	158		2306	5.0	152								
9 Su	0453	0.7	21	24 M	0557	-0.1	-3	9 W	0608	0.5	15	24 Th	0011	5.1	155	9 F	0628	0.2	6	24 Sa	0033	4.7	143
	1016	4.1	125		1122	5.1	155		1130	4.7	143		0708	-0.1	-3		0717	0.1	3		1302	5.2	158
	1626	0.8	24		1805	0.2	6		1826	0.7	21		1245	5.4	165		1955	0.3	9		1955	0.3	9
	2132	5.0	152		2343	5.2	158		2334	5.1	155		1932	0.3	9								
10 M	0551	0.7	21	25 Tu	0651	-0.2	-6	10 W	0704	0.3	9	25 F	0104	5.1	155	10 Sa	0016	5.0	152	25 Su	0124	4.7	143
	1116	4.2	128		1219	5.2	158		1227	5.0	152		0756	-0.1	-3		0725	0.0	0		0803	0.1	3
	1742	0.8	24		1903	0.2	6		1931	0.5	15		1334	5.5	168		1247	5.3	162		1348	5.4	165
	2257	5.0	152									2024	0.2	6		2010	0.2	6		2045	0.1	3	
11 Tu	0648	0.5	15	26 W	0040	5.3	162	11 F	0041	5.2	158	26 Sa	0153	5.1	155	11 Su	0117	5.1	155	26 M	0212	4.7	143
	1213	4.4	134		0743	-0.2	-6		0758	0.2	6		0841	-0.1	-3		0820	-0.1	-3		0848	0.1	3
	1851	0.7	21		1312	5.4	165		1319	5.3	162		1419	5.6	171		1341	5.6	171		1431	5.4	165
					1958	0.1	3		2031	0.3	9		2113	0.1	3		2108	-0.1	-3		2133	0.0	0
12 W	0014	5.0	152	27 Th	0132	5.3	162	12 Sa	0139	5.3	162	27 Su	0239	5.0	152	12 M	0212	5.1	155	27 Tu	0257	4.7	143
	0742	0.3	9		0831	-0.3	-9		0849	0.0	0		0923	0.0	0		0914	-0.2	-6		0931	0.1	3
	1306	4.6	140		1401	5.6	171		1407	5.6	171		1501	5.7	174		1431	5.7	174		1511	5.5	168
	1954	0.5	15		2050	0.0	0		2127	0.0	0		2159	0.0	0		2204	-0.3	-9		2218	-0.1	-3
13 Th	0113	5.2	158	28 F	0219	5.3	162	13 Su	0231	5.4	165	28 M	0322	5.0	152	13 Tu	0305	5.2	158	28 W	0340	4.6	140
	0833	0.1	3		0916	-0.3	-9		0940	-0.2	-6		1003	0.0	0		1006	-0.3	-9		1012	0.1	3
	1353	5.0	152		1446	5.7	174		1453	5.8	177		1539	5.7	174		1520	5.8	177		1547	5.5	168
	2052	0.2	6		2138	0.0	0		2222	-0.2	-6		2243	0.0	0		2257	-0.5	-15		2301	-0.1	-3
14 F	0205	5.3	162	29 Sa	0303	5.3	162	14 M	0322	5.4	165	29 Tu	0404	4.8	146	14 W	0357	5.1	155	29 Th	0420	4.5	137
	0922	-0.1	-3		0958	-0.2	-6		1029	-0.2	-6		1041	0.1	3		1058	-0.3	-9		1053	0.1	3
	1437	5.3	162		1528	5.7	174		1538	5.9	180		1614	5.6	171		1610	5.8	177		1618	5.5	168
	2147	0.0	0		2224	0.0	0		2314	-0.3	-9		2326	0.0	0		2348	-0.5	-15		2343	-0.1	-3
15 Sa	0253	5.5	168	30 Su	0346	5.2	158	15 Tu	0413	5.3	162	30 W	0444	4.7	143	15 Th	0450	5.1	155	30 F	0458	4.5	137
	1009	-0.3	-9		1037	-0.1	-3		1118	-0.3	-9		1626	5.9	180		1148	-0.3	-9		1134	0.1	3
	1519	5.5	168		1607	5.7	174					1645	5.6	171		1702	5.7	174		1644	5.5	168	
	2240	-0.2	-6		2307</																		

Sandy Hook, New Jersey, 2016

Times and Heights of High and Low Waters

January				February				March			
Time	Height	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 F	0039	4.1	125	16	0022	4.8	146	1	0123	4.1	125
	0633	0.8	24	Sa	0642	0.1	3	Tu	0746	0.9	27
	1243	4.1	125	M	1244	4.7	143		1333	3.6	110
	1907	0.5	15	O	1906	-0.3	-9		1957	0.7	21
2 Sa	0126	4.1	125	17	0119	4.8	146	2 W	0211	4.1	125
	0736	0.9	27	Su	0755	0.2	6		0851	0.8	24
	1331	3.9	119	Tu	1343	4.5	137		1427	3.6	110
	2002	0.5	15	M	2011	-0.3	-9		2058	0.6	18
3 Su	0214	4.1	125	18	0218	4.9	149	3 Th	0304	4.2	128
	0838	0.8	24	M	0904	0.1	3		0948	0.6	18
	1421	3.7	113		1445	4.4	134		1527	3.6	110
	2055	0.5	15		2113	-0.3	-9		2153	0.5	15
4 M	0303	4.2	128	4 Tu	0320	5.0	152	18	0404	4.9	149
	0934	0.7	21		1006	-0.1	-3	3 Th	1046	-0.1	-3
	1515	3.7	113		1549	4.3	131		1637	4.3	131
	2144	0.4	12		2211	-0.4	-12		2250	-0.1	-3
5 Tu	0355	4.4	134	20	0422	5.1	155	4 F	0401	4.4	134
	1025	0.5	15	Sa	1103	-0.3	-9	19	0504	5.0	152
	1612	3.7	113		1652	4.4	134	4 F	1040	0.3	9
	2230	0.3	9		2305	-0.4	-12		1138	-0.2	-6
6 W	0445	4.6	140	21	0521	5.3	162	4 F	1627	3.8	116
	1113	0.2	6	Sa	1156	-0.5	-15		2245	0.2	6
	1705	3.9	119		1750	4.5	137		2342	-0.2	-6
	2316	0.1	3		2358	-0.5	-15		2215	0.4	12
7 Th	0532	4.9	149	22	0613	5.4	165	5 F	0456	4.7	143
	1200	-0.1	-3	Sa	1247	-0.6	-18	20	0556	5.1	155
	1754	4.1	125		1841	4.7	143	5 F	1226	-0.3	-9
								5 F	1824	4.7	143
8 F	0002	-0.1	-3	23	0048	-0.5	-15	6 F	0418	4.8	146
	0616	5.1	155	Sa	0700	5.4	165	20	0556	5.1	149
	1246	-0.3	-9		1334	-0.7	-21	5 F	1057	0.1	3
	1838	4.3	131	O	1928	4.8	146	20	0533	4.9	149
9 Sa	0048	-0.2	-6	24	0136	-0.5	-15	6 F	1159	0.0	0
	0657	5.3	162	Sa	0744	5.4	165	21	0610	0.0	0
	1332	-0.5	-15		1418	-0.7	-21	21	0619	5.0	152
	1920	4.4	134		2013	4.8	146	21	0619	5.0	152
10 Su	0134	-0.4	-12	25	0221	-0.5	-15	21	1241	-0.1	-3
	0738	5.5	168	Sa	0827	5.3	162	21	1845	5.1	155
	1416	-0.7	-21		1459	-0.6	-18				
	2003	4.6	140		2058	4.7	143				
11 M	0220	-0.5	-15	26	0303	-0.3	-9	22	0002	-0.3	-9
	0821	5.5	168	Sa	0909	5.1	155	22	0724	5.2	158
	1459	-0.8	-24		1538	-0.5	-15	22	1352	-0.5	-15
	2048	4.6	140		2142	4.6	140	22	1950	4.9	149
12 Tu	0306	-0.5	-15	27	0343	-0.1	-3	23	0016	-0.3	-9
	0906	5.5	168	Sa	0951	4.8	146	23	0633	5.4	165
	1542	-0.8	-24		1614	-0.3	-9	23	1305	-0.6	-18
	2137	4.7	143		2227	4.4	134	23	1858	4.7	143
13 W	0352	-0.5	-15	28	0422	0.1	3	23	0025	-0.3	-9
	0956	5.4	165	Sa	1033	4.5	137	23	0718	5.6	171
	1626	-0.8	-24		1650	0.0	0	23	1351	-0.9	-27
	2230	4.7	143		2311	4.3	131	23	1943	5.0	152
14 Th	0441	-0.3	-9	29	0503	0.3	9	23	0114	-0.6	-18
	1050	5.2	158	Sa	1116	4.3	131	23	0718	5.6	171
	1713	-0.6	-18		1726	0.2	6	23	1430	-0.4	-12
	2326	4.8	146		2355	4.2	128	23	2030	4.9	149
15 F	0537	-0.1	-3	30	0547	0.6	18	24	0240	-0.3	-9
	1146	5.0	152	Sa	1200	4.0	122	24	0803	5.0	152
	1805	-0.5	-15		1806	0.5	15	24	1430	-1.0	-34
								24	2029	5.2	158
31	0038	4.1	125					24	0145	-0.9	-27
	Su	0641	0.8	24				24	0744	5.9	180
	1245	3.8	116					24	1410	-1.1	-34
	O	1856	0.6	18				24	2008	5.8	177

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Sandy Hook, New Jersey, 2016

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	0133	4.6 140		16	0310	4.6 140	1	0205	4.9 149	16	0329	4.4 134		
	0828	0.8 24	Sa	0955	0.4 12	Su	0855	0.4 12	M	1004	0.5 15	W	1016	-0.2 -6
	1411	4.1 125		1551	4.6 140		1447	4.7 143		1609	4.8 146		1623	5.7 174
	2043	0.9 27		2210	0.6 18		2123	0.6 18		2229	0.7 21		2302	-0.1 -3
2 Sa	0236	4.7 143	17	0409	4.6 140	2	0310	5.0 152	17	0423	4.4 134	2	0451	5.2 158
	0930	0.5 15	Su	1042	0.3 9	M	0952	0.1 3	Tu	1047	0.4 12	Th	1110	-0.4 -12
	1515	4.3 131		1645	4.8 146		1549	5.1 155		1658	5.0 152		1721	6.1 186
	2148	0.6 18		2259	0.5 15		2224	0.2 6		2315	0.6 18		2358	-0.4 -12
3 Su	0342	4.9 149	18	0502	4.7 143	3	0414	5.2 158	18	0513	4.5 137	3	0550	5.3 162
	1024	0.1 3	M	1125	0.2 6	Tu	1044	-0.2 -6	W	1127	0.4 12	F	1203	-0.5 -15
	1618	4.7 143		1733	5.0 152		1648	5.5 168		1743	5.2 158	Sa	1815	6.3 192
	2246	0.2 6		2344	0.3 9		2320	-0.2 -6		2359	0.4 12		1801	5.4 165
4 M	0444	5.2 158	19	0549	4.8 146	4	0515	5.4 165	19	0559	4.6 140	4	0053	-0.6 -18
	1115	-0.2 -6	Tu	1206	0.2 6	W	1136	-0.5 -15	Th	1208	0.3 9	Sa	0645	5.4 165
	1716	5.2 158		1816	5.2 158		1744	6.0 183		1823	5.4 165		1256	-0.6 -18
	2340	-0.3 -9									●	1907	6.5 198	
5 Tu	0541	5.5 168	20	0028	0.2 6	5	0015	-0.5 -15	20	0043	0.2 6	5	0147	-0.8 -24
	1205	-0.6 -18	W	0631	4.8 146	Th	0611	5.6 171	F	0641	4.6 140	Su	0739	5.4 165
	1808	5.7 174		1245	0.1 3		1227	-0.7 -21		1248	0.3 9		1349	-0.5 -15
				1855	5.3 162		1835	6.3 192		1901	5.5 168		1957	6.4 195
6 W	0034	-0.6 -18	21	0110	0.1 3	6	0110	-0.8 -24	21	0126	0.1 3	6	0238	-0.8 -24
	0633	5.8 177	Th	0710	4.9 149	F	0703	5.7 174	Sa	0721	4.6 140	M	0813	4.5 137
	1255	-0.8 -24		1323	0.1 3		1318	-0.8 -24		1328	0.4 12	Tu	1423	0.4 12
	1857	6.0 183		1931	5.4 165	●	1925	6.5 198	O	1937	5.5 168		2047	6.2 189
7 Th	0127	-0.9 -27	22	0151	0.0 0	7	0203	-0.9 -27	22	0207	0.1 3	7	0327	-0.7 -21
	0723	5.9 180	F	0748	4.8 146	Sa	0755	5.7 174	Su	0759	4.6 140	Tu	0925	5.2 158
	1344	-1.0 -30		1400	0.2 6		1409	-0.8 -18		1407	0.4 12		1529	-0.2 -6
	● 1946	6.3 192	O	2006	5.4 165		2015	6.5 198		2011	5.4 165		2140	5.9 180
8 F	0219	-1.0 -30	23	0231	0.0 0	8	0255	-0.9 -27	23	0247	0.1 3	8	0415	-0.4 -12
	0814	5.9 180	Sa	0824	4.7 143	Su	0849	5.5 168	M	0837	4.5 137	W	1021	5.1 155
	1432	-1.0 -30		1436	0.3 9		1459	-0.6 -18		1445	0.5 15	Th	1618	0.1 3
	2035	6.3 192		2040	5.3 162		2107	6.3 192		2045	5.4 165		2233	5.6 171
9 Sa	0310	-1.0 -30	24	0309	0.1 3	9	0345	-0.8 -24	24	0326	0.1 3	9	0503	-0.2 -6
	0906	5.7 174	Su	0901	4.5 137	M	0944	5.3 162	Tu	0916	4.4 134	Th	1116	4.9 149
	1520	-0.8 -24		1509	0.4 12		1549	-0.3 -9		1522	0.6 18		1708	0.5 15
	2127	6.2 189		2113	5.2 158		2201	6.0 183		2122	5.3 162		2326	5.2 158
10 Su	0401	-0.8 -24	25	0345	0.2 6	10	0436	-0.5 -15	25	0404	0.2 6	10	0553	0.1 3
	1001	5.4 165	M	0938	4.4 134	Tu	1042	5.1 155	W	0958	4.3 131	F	1209	4.8 146
	1608	-0.5 -15		1542	0.6 18		1639	0.0 0		1559	0.7 21	Sa	1802	0.8 24
	2222	5.9 180		2147	5.0 152		2257	5.7 174		2204	5.2 158		2330	5.2 158
11 M	0453	-0.5 -15	26	0421	0.3 9	11	0528	-0.1 -3	26	0443	0.3 9	11	0016	4.9 149
	1059	5.1 155	Tu	1019	4.2 128	W	1139	4.9 149	Th	1045	4.3 131	Sa	0645	0.4 12
	1659	-0.2 -6		1615	0.8 24		1733	0.4 12		1639	0.8 24		1259	4.7 143
	2319	5.6 171		2226	4.9 149		2353	5.3 162		2253	5.1 155		1902	1.0 30
12 Tu	0550	-0.1 -3	27	0500	0.5 15	12	0625	0.2 6	27	0526	0.4 12	12	0106	4.7 143
	1158	4.9 149	W	1104	4.1 125	Th	1235	4.8 146	F	1137	4.4 134	Su	0740	0.6 18
	1756	0.3 9		1651	0.9 27		1834	0.8 24		1728	0.9 27		1349	4.7 143
				2313	4.8 146					2347	5.0 152		2004	1.1 34
13 W	0016	5.3 162	28	0545	0.6 18	13	0047	5.0 152	28	0618	0.4 12	13	0155	4.4 134
	0653	0.2 6	Th	1155	4.1 125	F	0726	0.4 12	Sa	1230	4.5 137	M	0832	0.7 21
	1256	4.7 143		1739	1.0 30		1330	4.7 143		1834	1.0 30		1438	4.7 143
	● 1901	0.6 18				●	1940	1.0 30					2102	1.1 34
14 Th	0114	5.0 152	29	0007	4.8 146	14	0141	4.7 143	29	0043	5.0 152	14	0246	4.3 131
	0759	0.4 12	F	0643	0.7 21	Sa	0825	0.5 15	Su	0719	0.4 12	Tu	0921	0.7 21
	1354	4.5 137		1249	4.2 128		1423	4.7 143		1325	4.8 146		1528	4.8 146
	2011	0.8 24	O	1852	1.1 34		2043	1.0 30		●	1951	0.9 27		2154	0.9 27
15 F	0212	4.8 146	30	0104	4.8 146	15	0234	4.5 137	30	0142	5.0 152	15	0340	4.2 128
	0901	0.4 12	Sa	0751	0.6 18	Su	0918	0.5 15	M	0822	0.2 6	W	1005	0.6 18
	1452	4.5 137		1346	4.4 134		1517	4.7 143		1422	5.0 152		1618	4.9 149
	2114	0.8 24		2014	1.0 30		2139	0.9 27		2102	0.6 18		2242	0.7 21
												31	0244	5.0 152
												Tu	0921	0.0 0
												1523	5.4 165	9
												2204	0.3 9	0

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Sandy Hook, New Jersey, 2016

Times and Heights of High and Low Waters

July					August					September				
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time
1 F 0432 4.9 149 1049 -0.2 -6 1702 6.0 183 2342 -0.2 -6	16 Sa 0448 4.1 125 1057 0.7 21 1714 5.2 158 2343 0.5 15	1 M 0020 -0.2 -6 0615 5.1 155 1222 -0.1 -3 1835 6.0 183	16 Tu 0554 4.6 140 1204 0.4 12 1813 5.6 171	1 Th 0131 -0.2 -6 0730 5.4 165 1340 0.0 0 ● 1943 5.7 174	16 O 0057 -0.4 -12 0656 5.7 174 1319 -0.3 -9 1916 6.1 186									
2 Sa 0533 5.1 155 1143 -0.3 -9 1758 6.1 186	17 Su 0539 4.3 131 1144 0.6 18 1759 5.4 165 ● 1922 6.0 183	2 Tu 0110 -0.3 -9 0705 5.3 162 1313 -0.1 -3 1922 6.0 183	17 W 0044 0.0 0 0639 5.0 152 1252 0.1 3 1856 5.9 180	2 F 0211 -0.1 -3 0812 5.4 165 1423 0.1 3 2023 5.5 168	17 Sa 0143 -0.6 -18 0741 6.0 183 1409 -0.5 -15 2003 6.1 186									
3 Su 0037 -0.4 -12 0630 5.2 158 1237 -0.4 -12 1850 6.2 189	18 M 0029 0.3 9 0624 4.5 137 1230 0.4 12 1841 5.6 171	3 W 0157 -0.4 -12 0753 5.3 162 1401 -0.1 -3 2007 5.9 180	18 Th 0129 -0.2 -6 0722 5.2 158 1340 0.0 0 ● 1939 6.0 183	3 Sa 0249 0.0 0 0853 5.4 165 1504 0.2 6 2103 5.2 158	18 Su 0229 -0.7 -21 0827 6.1 186 1459 -0.5 -15 2052 5.9 180									
4 M 0130 -0.5 -15 0722 5.3 162 1330 -0.3 -9 ● 1940 6.2 189	19 Tu 0114 0.1 3 0707 4.6 140 1316 0.3 9 ● 1921 5.7 174	4 Th 0241 -0.3 -9 0839 5.3 162 1447 0.0 0 2051 5.7 174	19 F 0213 -0.4 -12 0805 5.4 165 1428 -0.2 -6 2024 6.0 183	4 Su 0325 0.2 6 0934 5.2 158 1543 0.4 12 2144 5.0 152	19 M 0314 -0.6 -18 0917 6.1 186 1549 -0.4 -12 2146 5.7 174									
5 Tu 0220 -0.6 -18 0813 5.3 162 1421 -0.2 -6 2028 6.0 183	20 W 0158 -0.1 -3 0748 4.8 146 1402 0.2 6 2002 5.8 177	5 F 0322 -0.2 -6 0925 5.2 158 1530 0.2 6 2135 5.4 165	20 Sa 0256 -0.5 -15 0851 5.6 171 1515 -0.2 -6 2111 5.9 180	5 M 0359 0.4 12 1015 5.1 155 1622 0.6 18 2227 4.7 143	20 Tu 0400 -0.5 -15 1011 6.0 183 1641 -0.2 -6 2243 5.4 165									
6 W 0307 -0.5 -15 0904 5.2 158 1509 -0.1 -3 2116 5.8 177	21 Th 0240 -0.2 -6 0830 4.9 149 1447 0.1 3 2044 5.8 177	6 Sa 0400 0.0 0 1012 5.1 155 1612 0.4 12 2219 5.1 155	21 Su 0339 -0.5 -15 0941 5.6 171 1604 -0.1 -3 2203 5.7 174	6 Tu 0432 0.6 18 1058 4.9 149 1702 0.9 27 2311 4.4 134	21 W 0450 -0.2 -6 1109 5.8 177 1739 0.1 3 2343 5.1 155									
7 Th 0351 -0.4 -12 0955 5.1 155 1555 0.2 6 2205 5.5 168	22 F 0322 -0.3 -9 0915 5.0 152 1531 0.1 3 2130 5.7 174	7 Su 0437 0.2 6 1057 4.9 149 1654 0.7 21 2304 4.8 146	22 M 0423 -0.4 -12 1034 5.7 174 1655 0.1 3 2259 5.4 165	22 W 0506 0.9 27 1141 4.8 146 1747 1.1 34 2357 4.2 128	22 Th 0545 0.2 6 1209 5.6 171 1844 0.4 12									
8 F 0434 -0.1 -3 1046 5.0 152 1641 0.5 15 2254 5.2 158	23 Sa 0403 -0.3 -9 1004 5.1 155 1617 0.2 6 2221 5.5 168	8 M 0515 0.5 15 1143 4.8 146 1738 1.0 30 2350 4.5 137	23 Tu 0510 -0.2 -6 1130 5.6 171 1753 0.3 9 2357 5.2 158	23 Th 0545 1.1 34 1225 4.7 143 1843 1.3 40	23 F 0044 4.9 149 0650 0.5 15 1308 5.5 168 ● 1955 0.5 15									
9 Sa 0516 0.2 6 1136 4.9 149 1728 0.8 24 2342 4.9 149	24 Su 0446 -0.2 -6 1057 5.2 158 1708 0.3 9 2315 5.3 162	9 Tu 0554 0.8 24 1227 4.7 143 1831 1.2 37	24 W 0605 0.1 3 1227 5.6 171 1901 0.5 15	9 F 0045 4.0 122 0639 1.3 40 1312 4.6 140 ● 1949 1.3 40	24 Sa 0145 4.7 143 0802 0.6 18 1409 5.3 162 2101 0.5 15									
10 Su 0600 0.4 12 1224 4.8 146 1820 1.0 30	25 M 0532 -0.1 -3 1151 5.3 162 1807 0.5 15	10 W 0036 4.3 131 0641 1.0 30 1312 4.7 143 ● 1932 1.3 40	25 Th 0056 4.9 149 0709 0.3 9 1325 5.5 168 2012 0.6 18	10 Sa 0137 4.0 122 0751 1.4 43 1403 4.7 143 2053 1.2 37	25 Su 0247 4.7 143 0908 0.6 18 1510 5.2 158 2159 0.3 9									
11 M 0029 4.6 140 0648 0.7 21 1310 4.7 143 ● 1918 1.2 37	26 Tu 0011 5.2 158 0627 0.0 0 1246 5.4 165 ● 1916 0.6 18	11 Th 0123 4.1 125 0738 1.1 34 1358 4.7 143 2035 1.3 40	26 F 0157 4.8 146 0818 0.4 12 1426 5.4 165 2119 0.5 15	11 Su 0233 4.0 122 0858 1.2 37 1459 4.8 146 2148 0.9 27	26 M 0349 4.8 146 1007 0.5 15 1611 5.2 158 2250 0.2 6									
12 Tu 0115 4.3 131 0739 0.8 24 1356 4.7 143 2019 1.2 37	27 W 0108 5.0 152 0729 0.2 6 1342 5.4 165 2027 0.6 18	12 F 0215 4.0 122 0838 1.2 37 1448 4.7 143 2131 1.1 34	27 Sa 0300 4.7 143 0922 0.4 12 1529 5.4 165 2217 0.3 9	12 M 0332 4.2 128 0956 1.0 30 1557 5.0 152 2237 0.6 18	27 Tu 0447 5.0 152 1059 0.4 12 1706 5.3 162 2336 0.1 3									
13 W 0204 4.2 128 0832 0.9 27 1444 4.7 143 2116 1.1 34	28 Th 0208 4.8 146 0834 0.2 6 1442 5.5 168 2133 0.4 12	13 Sa 0311 4.0 122 0934 1.0 30 1543 4.8 146 2223 0.9 27	28 Su 0405 4.8 146 1021 0.3 9 1631 5.5 168 2311 0.1 3	13 Tu 0430 4.5 137 1048 0.6 18 1652 5.3 162 2325 0.2 6	28 W 0538 5.2 158 1147 0.2 6 1755 5.4 165 ● 1917 5.3 162									
14 Th 0256 4.0 122 0923 0.9 27 1534														

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to mean lower low water which is the chart datum of soundings.

Sandy Hook, New Jersey, 2016

Times and Heights of High and Low Waters

October			November			December											
Time	Height																
h m	ft	cm															
1 Sa 0138 0743 1358 1956	0.0	0	16 Su 0114 0717 1351 1943	-0.8	-24	1 Tu 0219 0825 1453 2044	0.2	6	16 W 0231 0838 1518 2112	-0.9	-27	1 Th 0229 0833 1509 2058	0.2	6	16 F 0304 0913 1551 2151	-0.8	-24
	5.5	168		6.3	192		5.3	162		5.1	155		5.9	180			
	0.1	3		-0.7	-21		0.1	3		-0.1	-3		-0.9	-27			
	5.2	158		5.9	180		4.5	137		4.2	128		4.9	149			
2 Su 0215 0820 1438 2033	0.1	3	17 M 0203 0805 1442 2034	-0.8	-24	2 W 0254 0900 1531 2122	0.4	12	17 Th 0321 0932 1610 2210	-0.7	-21	2 F 0306 0908 1547 2138	0.3	9	17 Sa 0354 1007 1640 2247	-0.5	-15
	5.5	168		6.4	195		5.2	158		5.0	152		5.5	168			
	0.2	6		-0.8	-24		0.2	6		0.0	0		-0.7	-21			
	5.0	152		5.8	177		4.3	131		4.0	122		4.8	146			
3 M 0250 0857 1517 2112	0.3	9	18 Tu 0251 0856 1534 2129	-0.8	-24	3 Th 0327 0935 1608 2203	0.6	18	18 F 0413 1029 1703 2310	-0.4	-12	3 Sa 0342 0946 1624 2221	0.4	12	18 Su 0445 1102 1729 2343	-0.2	-6
	5.3	162		6.4	195		5.0	152		4.9	149		5.2	158			
	0.3	9		-0.7	-21		0.4	12		0.1	3		-0.4	-12			
	4.8	146		5.5	168		4.1	125		4.0	122		4.6	140			
4 Tu 0324 0934 1554 2152	0.5	15	19 W 0340 0951 1626 2227	-0.5	-15	4 F 0400 1013 1646 2248	0.8	24	19 Sa 0507 1127 1759	0.0	0	4 Su 0418 1030 1704 2310	0.6	18	19 M 0538 1155 1822	0.2	6
	5.2	158		6.2	189		5.4	165		-0.1	-3		4.8	146			
	0.5	15		-0.4	-15		0.6	18		0.2	6		-0.1	-3			
	4.5	137		5.2	158		4.0	122		4.0	122		4.0	122			
5 W 0356 1012 1632 2234	0.7	21	20 Th 0431 1049 1722 2329	-0.2	-6	5 Sa 0435 1058 1729 2338	0.9	27	20 Su 0009 0607 1224 1901	4.7	143	5 M 0501 1121 1750	0.7	21	20 Tu 0036 0638 1247 1918	4.5	137
	5.0	152		5.9	180		4.7	143		0.4	12		0.5	15			
	0.7	21		-0.1	-3		0.7	21		5.1	155		4.5	137			
	4.3	131		5.0	152		3.9	119		0.1	3		0.2	6			
6 Th 0428 1053 1712 2321	0.9	27	21 F 0527 1149 1824	0.2	6	6 Su 0519 1149 1822	1.1	34	21 M 0106 0713 1320	4.6	140	6 Tu 0002 0557 1215	4.1	125	21 W 0128 0742 1338	4.4	134
	4.8	146		5.6	171		4.6	140		0.6	18		0.7	21			
	0.9	27		0.2	6		0.8	24		4.8	146		4.2	128			
	4.1	125								0.2	6		0.3	9			
7 F 0503 1138 1801	1.1	34	22 Sa 0029 0631 1249 1932	4.8	146	7 M 0031 0622 1244 1927	4.0	122	22 Tu 0202 0820 1414 2059	4.6	140	7 W 0056 0712 1312 1950	4.3	131	22 Th 0219 0844 1430 2106	4.4	134
	4.7	143		0.5	15		1.2	37		0.7	21		0.7	21			
	1.1	34		5.3	162		4.6	140		4.5	137		4.0	122			
				0.4	12		0.7	21		0.3	9		0.3	9			
8 Sa 0010 0549 1227 1903	4.0	122	23 Su 0129 0741 1347 2037	4.7	143	8 Tu 0125 0745 1342 2030	4.1	125	23 W 0257 0920 1509 2148	4.6	140	8 Th 0152 0828 1412 2052	4.5	137	23 F 0311 0939 1524 2153	4.4	134
	1.3	40		0.7	21		1.1	34		0.7	21		0.6	18			
	4.6	140		5.1	155		4.7	143		4.4	134		3.9	119			
	1.2	37		0.4	12		0.5	15		0.2	6		0.3	9			
9 Su 0102 0702 1320 2011	4.0	122	24 M 0228 0849 1446 2133	4.7	143	9 W 0222 0856 1442 2127	4.4	134	24 Th 0350 1012 1604 2232	4.7	143	9 F 0251 0934 1515 2148	4.8	146	24 Sa 0403 1028 1618 2237	4.5	137
	1.4	43		0.7	21		0.8	24		0.5	15		0.4	12			
	4.7	143		4.9	149		4.8	146		4.3	131		3.9	119			
	1.1	34		0.3	9		0.2	6		0.2	6		0.2	6			
10 M 0157 0821 1418 2110	4.1	125	25 Tu 0327 0947 1544 2222	4.8	146	10 Th 0321 0957 1544 2218	4.8	146	25 F 0441 1059 1655 2313	4.9	149	10 Sa 0352 1033 1619 2242	5.2	158	25 Su 0452 1114 1710 2320	4.7	143
	1.3	40		0.6	18		0.4	12		0.4	12		0.2	6			
	4.8	146		4.8	146		5.0	152		4.4	134		4.0	122			
	0.8	24		0.2	6		-0.2	-6		0.1	3		-0.6	-18			
11 Tu 0256 0926 1518 2202	4.3	131	26 W 0423 1039 1638 2306	4.9	149	11 F 0420 1052 1644 2308	5.2	158	26 Sa 0527 1143 1742 2353	5.0	152	11 M 0451 1129 1720 2335	5.6	171	26 M 0538 1159 1758	4.8	146
	1.0	30		0.5	15		0.0	0		0.2	6		0.1	3			
	5.0	152		4.9	149		5.2	158		4.4	134		0.1	3			
	0.4	12		0.1	3		-0.5	-15		0.1	3		-0.8	-24			
12 W 0355 1022 1617 2251	4.7	143	27 Th 0513 1125 1727 2347	5.1	155	12 Sa 0515 1147 1740 2358	5.7	174	27 Su 0608 1226 1825 2002	5.2	158	12 M 0547 1224 1816 2002	5.9	180	27 Tu 0002 0620 1243 1840	0.1	3
	0.6	18		0.3	9		-0.4	-12		0.1	3		5.0	152			
	5.2	158		4.9	149		5.4	165		4.5	137		-0.1	-3			
	0.1	3					-0.8	-24		4.4	134		4.1	125			
13 Th 0450 1115 1713 2338	5.1	155	28 F 0557 1209 1811	5.3	162	13 Su 0607 1240 1833	6.1	186	28 M 0032 0647 1309 1905	0.1	3	13 Tu 0028 0640 1318 1910	-1.0	-30	28 W 0045 0658 1326 1920	0.0	0
	0.1	3		0.2	6		-0.7	-21		5.3	162		5.1	155			
	5.5	168		4.9	149		5.6	171		0.0	0		-0.2	-6			
	-0.3	-9					-0.9	-27		4.4	134		4.2	128			
14 F 0542 1207 1804	5.6	171	29 Sa 0026 0637 1252	0.0	0	14 M 0049 0657 1334	-0.9	-27	29 Tu 0112 0723 1350	0.1	3	14 W 0121 0730 1411	-1.0	-30	29 Th 0127 0735 1408	0.0	0
	-0.2	-6		5.4	165		6.4	195		5.3	162		5.1	155			
	5.8	177		0.1	3		-0.9	-27		-0.1	-3		-0.3	-9			
				4.9	149		5.6	171		4.4	134		4.2	128			
15 Sa 0026 0630 1259 1854	-0.6	-18	30 Su 0105 0715 1334 1929	0.1	3	15 Tu 0140 0746 1426 2017	-1.0	-30	30 W 0151 0759 1431 2021	0.1	3	15 Th 0213 0821 1502 2056	-1.0	-30	30 F 0208 0811 1447 2036	0.0	0
	6.0	183		5.5	168		6.5	198		5.2	158		5.1	155			
	-0.5	-15		0.1	3		-1.0	-30		-0.1	-3		-0.3	-9			
	5.9	180		4.9	149		-30			4.3	131		4.2	128			
31 M 0142 0750 1414 2007	0.1	3	31 M 0142 0750 1414 2007	0.0	0												
	5.5	168		5.5	168												
	0.1	3		4.7	143												
	4.7	143		4.7	143												

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Atlantic City, New Jersey, 2016

Times and Heights of High and Low Waters

January				February				March			
Time	Height	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 F 0014	3.3	101	16 Sa 0611	0.0	0	1 M 0103	3.4	104	16 Tu 0147	4.2	128
0613	0.7	21	1215	4.0	122	0718	0.7	21	0006	3.6	110
1214	3.5	107	Sa 1837	-0.4	-12	0815	0.1	3	0630	0.7	21
1849	0.3	9	●			1417	3.4	104	1218	3.0	91
						2020	-0.1	-3	1828	0.6	18
2 Sa 0108	3.3	101	17 Su 0100	4.0	122	2 Tu 0201	3.5	107	2 W 0255	4.2	128
0711	0.8	24	0720	0.0	0	0820	0.7	21	0731	0.8	24
1308	3.2	98	1321	3.7	113	1410	2.9	88	1320	2.9	88
● 1937	0.4	12	1937	-0.4	-12	2018	0.4	12	1927	0.6	18
						2124	-0.1	-3			
3 Su 0202	3.4	104	18 M 0207	4.1	125	3 W 0257	3.7	113	18 Th 0358	4.3	131
0810	0.8	21	0830	0.0	0	0919	0.6	21	1023	-0.1	-3
1405	3.1	94	1430	3.6	110	1512	2.9	88	1627	3.5	107
2024	0.4	12	2039	-0.4	-12	2113	0.3	9	2223	-0.1	-3
4 M 0255	3.6	110	19 Tu 0312	4.3	131	4 Th 0351	3.9	119	19 F 0454	4.4	134
0908	0.7	21	0936	-0.1	-3	1013	0.4	12	1117	-0.2	-6
1502	3.1	94	1536	3.5	107	1609	3.0	91	1721	3.6	110
2112	0.3	9	2139	-0.4	-12	2206	0.1	3	2316	-0.2	-6
5 Tu 0344	3.8	116	20 W 0413	4.5	137	5 F 0441	4.2	128	20 Sa 0543	4.5	137
1001	0.5	15	1037	-0.3	-9	1103	0.1	3	1205	-0.3	-9
1555	3.1	94	1637	3.6	110	1700	3.3	101	1808	3.8	116
2157	0.2	6	2236	-0.5	-15	2256	-0.1	-3			
6 W 0431	4.0	122	21 Th 0507	4.6	140	6 Sa 0528	4.5	137	21 Su 0004	-0.3	-9
1050	0.3	9	1133	-0.4	-12	1149	-0.2	-6	0626	4.6	140
1644	3.2	98	1733	3.7	113	1748	3.5	107	1249	-0.4	-12
2242	0.0	0	2329	-0.5	-15	2345	-0.4	-12	1851	3.9	119
7 Th 0515	4.3	131	22 F 0557	4.8	146	7 Su 0613	4.8	146	22 M 0049	-0.4	-12
1135	0.0	0	1223	-0.5	-15	1234	-0.5	-15	0706	4.5	137
1731	3.3	101	1823	3.7	113	1834	3.8	116	1328	-0.4	-12
2325	-0.1	-3				● 1930	3.9	119	1930	3.9	119
8 F 0557	4.5	137	23 Sa 0019	-0.6	-18	8 M 0034	-0.6	-18	23 Tu 0131	-0.3	-9
1218	-0.2	-6	0643	4.8	146	0657	5.0	152	0744	4.5	137
1814	3.4	104	1310	-0.6	-18	1318	-0.7	-21	1406	-0.3	-9
● 1857	3.6	110	● 1909	3.8	116	● 1920	4.0	122	2008	4.0	122
9 Sa 0009	-0.3	-9	24 Su 0105	-0.5	-15	9 Tu 0122	-0.8	-24	24 W 0210	-0.3	-9
0638	4.7	143	0726	4.8	146	0742	5.1	155	0820	4.4	134
1301	-0.4	-12	1354	-0.6	-18	1402	-0.9	-27	1441	-0.2	-6
● 1857	3.6	110	1953	3.8	116	2006	4.2	128	2044	4.0	122
10 Su 0052	-0.4	-12	25 M 0150	-0.5	-15	10 W 0211	-0.8	-24	25 Th 0249	-0.1	-3
0719	4.9	149	0807	4.7	143	0828	5.0	152	0855	4.2	128
1343	-0.5	-15	1435	-0.5	-15	1447	-1.0	-30	1515	-0.1	-3
1940	3.7	113	2035	3.8	116	2053	4.4	134	2121	3.9	119
11 M 0137	-0.5	-15	26 Tu 0232	-0.3	-9	11 Th 0302	-0.8	-24	26 F 0327	0.0	0
0801	4.9	149	0846	4.5	137	0915	4.9	149	0930	3.9	119
1426	-0.7	-21	1515	-0.4	-12	1534	-0.9	-27	1548	0.1	3
2025	3.8	116	2116	3.7	113	2143	4.4	134	2157	3.8	116
12 Tu 0224	-0.5	-15	27 W 0314	-0.1	-3	12 F 0356	-0.6	-18	27 Sa 0407	0.2	6
0845	4.9	149	0924	4.2	128	1005	4.6	140	1006	3.7	113
1511	-0.7	-21	1553	-0.2	-6	1623	-0.8	-24	1621	0.2	6
2111	3.8	116	2156	3.6	110	2236	4.4	134	2235	3.7	113
13 W 0314	-0.5	-15	28 Th 0356	0.1	3	13 Sa 0454	-0.4	-12	28 Su 0449	0.4	12
0931	4.8	146	1003	4.0	122	1059	4.2	128	1044	3.4	104
1557	-0.7	-21	1631	0.0	0	1716	-0.6	-18	1657	0.4	12
2201	3.9	119	2238	3.5	107	2334	4.3	131	2318	3.7	113
14 Th 0407	-0.3	-9	29 F 0440	0.3	9	14 Su 0557	-0.2	-6	29 M 0536	0.6	18
1020	4.5	137	1042	3.7	113	1159	3.9	119	1127	3.2	98
1647	-0.6	-18	1710	0.2	6	1813	-0.4	-12	1738	0.5	15
2256	3.9	119	2322	3.4	104						
15 F 0506	-0.2	-6	30 Sa 0527	0.5	15	15 M 0038	4.2	128	15 Tu 0016	4.4	134
1114	4.3	131	1125	3.4	104	0705	0.0	0	0649	0.0	0
1740	-0.5	-15	1750	0.3	9	1306	3.6	110	1252	3.6	110
2356	3.9	119	● 1916	-0.2	-6	● 1916	-0.2	-6	● 1856	0.1	3
			31 Su 0010	3.4	104						
			0620	0.7	21						
			1213	3.1	94						
			● 1834	0.4	12						

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Atlantic City, New Jersey, 2016

Times and Heights of High and Low Waters

April				May				June			
Time	Height	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 F 0119	3.9	119	16 Sa 0308	4.0	122	1 Su 0148	4.2	128	1 W 0323	3.8	116
0753	0.6	18	0934	0.3	9	0818	0.3	9	0943	0.4	12
1353	3.2	98	1548	3.7	113	1431	3.8	116	1602	4.0	122
1956	0.6	18	2145	0.5	15	2039	0.4	12	2208	0.7	21
2 Sa 0225	4.1	125	17 Su 0403	4.0	122	2 M 0253	4.3	131	17 Th 0413	3.8	116
0854	0.4	12	1023	0.3	9	0916	0.0	0	1027	0.4	12
1500	3.4	104	1637	3.9	119	1533	4.2	128	1646	4.2	128
2103	0.4	12	2238	0.4	12	2144	0.1	3	2256	0.5	15
3 Su 0328	4.3	131	18 M 0451	4.1	125	3 Tu 0355	4.5	137	18 W 0457	3.8	116
0950	0.1	3	1107	0.2	6	1010	-0.3	-9	1107	0.3	9
1600	3.8	116	1720	4.1	125	1629	4.6	140	1726	4.4	134
2206	0.1	3	2324	0.3	9	2244	-0.2	-6	2340	0.4	12
4 M 0425	4.6	140	19 Tu 0533	4.1	125	4 W 0452	4.6	140	19 Th 0539	3.8	116
1043	-0.2	-6	1146	0.2	6	1102	-0.5	-15	1144	0.3	9
1655	4.3	131	1758	4.3	131	1722	5.1	155	1804	4.5	137
2303	-0.3	-9				2341	-0.5	-15			
5 Tu 0519	4.8	146	20 W 0007	0.2	6	5 Th 0547	4.7	143	20 F 0021	0.2	6
1133	-0.6	-18	0612	4.1	125	1153	-0.7	-21	0620	3.8	116
1746	4.7	143	1222	0.1	3	1813	5.4	165	1220	0.3	9
2358	-0.6	-18	1835	4.4	134				1841	4.7	143
6 W 0610	5.0	152	21 Th 0046	0.1	3	6 F 0036	-0.8	-24	21 O 0101	0.2	6
1221	-0.8	-24	0650	4.1	125	0640	4.8	146	0658	3.8	116
1835	5.1	155	1257	0.1	3	1244	-0.8	-24	1255	0.3	9
			1910	4.5	137				1917	4.7	143
7 Th 0051	-0.9	-27	22 F 0125	0.0	0	7 Sa 0129	-0.9	-27	22 Su 0139	0.1	3
0700	5.0	152	0726	4.0	122	0732	4.7	143	0736	3.7	113
1309	-0.9	-27	1329	0.2	6	1334	-0.8	-24	1329	0.3	9
● 1924	5.3	162	1945	4.6	140	1954	5.7	174	1953	4.8	146
8 F 0143	-1.0	-30	23 Sa 0202	0.1	3	8 Su 0223	-0.8	-24	23 M 0217	0.1	3
0750	5.0	152	0801	3.9	119	0825	4.6	140	0814	3.7	113
1357	-0.9	-27	1401	0.2	6	1425	-0.6	-18	1405	0.3	9
2013	5.4	165	2019	4.6	140	2045	5.5	168	2029	4.7	143
9 Sa 0236	-0.9	-27	24 Su 0239	0.1	3	9 M 0316	-0.7	-21	24 Tu 0256	0.2	6
0841	4.8	146	0837	3.8	116	0919	4.4	134	0851	3.6	110
1446	-0.8	-24	1433	0.3	9	1517	-0.4	-12	1442	0.4	12
2103	5.4	165	2053	4.5	137	2137	5.3	162	2105	4.7	143
10 Su 0331	-0.8	-24	25 M 0317	0.2	6	10 Tu 0411	-0.5	-15	25 W 0336	0.2	6
0934	4.5	137	0912	3.6	110	1014	4.1	125	0930	3.5	107
1538	-0.6	-18	1507	0.4	12	1612	-0.1	-3	1522	0.5	15
2156	5.2	158	2128	4.4	134	2231	5.0	152	2144	4.6	140
11 M 0427	-0.5	-15	26 Tu 0356	0.3	9	11 W 0508	-0.2	-6	26 Th 0418	0.2	6
1030	4.2	128	0949	3.5	107	1113	3.9	119	1013	3.5	107
1632	-0.2	-6	1544	0.6	18	1709	0.2	6	1608	0.6	18
2252	4.9	149	2206	4.3	131	2328	4.6	140	2228	4.5	137
12 Tu 0527	-0.2	-6	27 W 0438	0.4	12	12 Th 0606	0.1	3	27 F 0505	0.3	9
1131	3.9	119	1030	3.4	104	1215	3.7	113	1103	3.5	107
1731	0.1	3	1627	0.7	21	1810	0.5	15	1701	0.6	18
2353	4.6	140	2250	4.2	128				2318	4.4	134
13 W 0630	0.1	3	28 Th 0526	0.5	15	13 F 0028	4.3	131	28 Sa 0555	0.2	6
1237	3.7	113	1119	3.3	101	0704	0.3	9	1159	3.6	110
1835	0.4	12	1719	0.7	21	1318	3.7	113	1803	0.7	21
●			2342	4.2	128	● 1914	0.7	21			
14 Th 0059	4.3	131	29 F 0621	0.5	15	14 Sa 0129	4.0	122	29 M 0015	4.3	131
0734	0.3	9	1218	3.3	101	0802	0.4	12	0650	0.2	6
1345	3.6	110	1821	0.8	24	1418	3.7	113	1302	3.8	116
1941	0.5	15	●			2016	0.8	24	● 1910	0.6	18
15 F 0206	4.1	125	30 Sa 0042	4.2	128	15 M 0228	3.9	119	30 W 0119	4.2	128
0837	0.3	9	0719	0.4	12	0855	0.4	12	0747	0.1	3
1450	3.6	110	1325	3.5	107	1513	3.8	116	1406	4.1	125
2046	0.6	18	1930	0.7	21	2115	0.8	24	2019	0.4	12
16 W 0224	4.2	128							31 Tu 0224	4.2	128
1108	-0.1	-3							0845	-0.1	-3
1508	4.5	137							1508	4.5	137
2125	0.2	6							2125	0.2	6

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Atlantic City, New Jersey, 2016

Times and Heights of High and Low Waters

July				August				September			
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height
1 F 0412 4.1 125 1015 -0.3 -9 1646 5.2 158 2313 -0.2 -6	h m ft cm	16 Sa 0429 3.4 104 1025 0.6 18 1658 4.5 137 2321 0.6 18	h m ft cm	1 M 0556 4.2 128 1152 -0.1 -3 1818 5.3 162	h m ft cm	16 Tu 0531 3.9 119 1126 0.3 9 1753 5.0 152	h m ft cm	1 Th 0106 0.0 0 0711 4.5 137 1312 0.1 3 ● 1925 5.0 152	h m ft cm	16 F 0024 -0.2 -6 0632 4.9 149 1240 -0.2 -6 ○ 1854 5.4 165	
	h m ft cm	17 Su 0517 3.5 107 1110 0.4 12 1741 4.8 146	h m ft cm	2 Tu 0045 -0.2 -6 0646 4.3 131 1242 -0.2 -6 ● 1904 5.3 162	h m ft cm	17 W 0014 0.2 6 0616 4.1 125 1213 0.1 3 1836 5.2 158	h m ft cm	2 F 0146 0.0 0 0751 4.6 140 1354 0.2 6 2003 4.9 149	h m ft cm	17 Sa 0108 -0.4 -12 0718 5.1 155 1330 -0.4 -12 1940 5.3 162	
	h m ft cm	18 M 0005 0.4 12 0601 3.6 110 1153 0.3 9 1823 4.9 149	h m ft cm	3 W 0131 -0.2 -6 0733 4.4 134 1330 -0.1 -3 1948 5.2 158	h m ft cm	18 Th 0056 -0.1 -3 0659 4.4 134 1300 -0.1 -3 ○ 1919 5.3 162	h m ft cm	3 Sa 0223 0.1 3 0829 4.6 140 1435 0.3 9 2040 4.6 140	h m ft cm	18 Su 0153 -0.5 -15 0805 5.3 162 1421 -0.4 -12 2028 5.2 158	
	h m ft cm	19 M 0101 -0.5 -15 0701 4.3 131 1257 -0.4 -12 ● 1921 5.5 168	h m ft cm	4 Th 0046 0.2 6 0644 3.8 116 1236 0.2 6 ○ 1903 5.1 155	h m ft cm	19 F 0215 -0.2 -6 0818 4.4 134 1416 0.0 0 2030 5.0 152	h m ft cm	4 Su 0138 -0.2 -6 0743 4.6 140 1347 -0.1 -3 2003 5.3 162	h m ft cm	19 M 0300 0.3 9 0907 4.5 137 1516 0.5 15 2117 4.4 134	
5 Tu 0152 -0.5 -15 0752 4.3 131 1348 -0.3 -9 2009 5.4 165	h m ft cm	20 W 0127 0.0 0 0726 3.9 119	h m ft cm	5 F 0258 -0.1 -3 0901 4.3 131 1501 0.2 6 2111 4.8 146	h m ft cm	20 Sa 0221 -0.3 -9 0828 4.8 146 1437 -0.2 -6 2048 5.2 158	h m ft cm	5 M 0335 0.5 15 0945 4.4 134 1558 0.7 21 2155 4.1 125	h m ft cm	20 Tu 0329 -0.3 -9 0945 5.3 162 1611 -0.1 -3 2213 4.6 140	
	h m ft cm	21 W 0240 -0.4 -12 0842 4.2 128 1438 -0.1 -3 2055 5.2 158	h m ft cm	6 Th 0208 -0.1 -3 0808 4.1 125 1404 0.1 3 2025 5.1 155	h m ft cm	21 Sa 0338 0.1 3 0944 4.2 128 1546 0.4 12 2151 4.5 137	h m ft cm	6 Tu 0306 -0.4 -12 0915 4.9 149 1528 -0.1 -3 2136 5.0 152	h m ft cm	21 W 0421 -0.1 -3 1041 5.2 158 1712 0.1 3 2313 4.3 131	
	h m ft cm	22 Th 0327 -0.3 -9 0930 4.1 125 1527 0.1 3 2141 4.9 149	h m ft cm	7 F 0249 -0.2 -6 0851 4.2 128 1451 0.1 3 2108 5.1 155	h m ft cm	22 Su 0418 0.3 9 1026 4.1 125 1631 0.7 21 2232 4.2 128	h m ft cm	7 W 0353 -0.3 -9 1006 4.9 149 1624 0.1 3 2227 4.7 143	h m ft cm	22 Th 0447 0.9 27 1108 4.2 128 1729 1.1 34 2320 3.6 110	
	h m ft cm	23 F 0414 -0.1 -3 1019 4.0 122 1616 0.4 12 2226 4.6 140	h m ft cm	8 M 0333 -0.2 -6 0937 4.3 131 1542 0.1 3 2153 4.9 149	h m ft cm	23 M 0458 0.5 15 1110 4.1 125 1719 0.9 27 2315 3.9 119	h m ft cm	8 Th 0444 -0.1 -3 1101 4.9 149 1725 0.3 9 2325 4.4 134	h m ft cm	23 F 0528 1.0 30 1157 4.1 125 1823 1.2 37 ○ 1925 0.5 15	
9 Sa 0459 0.1 3 1108 3.9 119 1707 0.6 18 2312 4.2 128	h m ft cm	24 M 0418 -0.2 -6 1027 4.4 134 1637 0.2 6 2243 4.7 143	h m ft cm	9 Tu 0539 0.7 21 1158 4.0 122 1811 1.1 34	h m ft cm	24 W 0539 0.0 0 1202 4.8 146 1830 0.4 12	h m ft cm	9 F 0012 3.4 104 0617 1.1 34 1252 4.1 125 ○ 1922 1.2 37	h m ft cm	24 Sa 0020 4.1 125 0622 0.4 12 1251 4.8 146 ○ 1925 0.5 15	
	h m ft cm	10 Su 0545 0.4 12 1158 3.9 119 1800 0.8 24	h m ft cm	25 M 0507 -0.1 -3 1121 4.4 134 1737 0.4 12 ○ 1907 4.4 134	h m ft cm	10 W 0003 3.6 110 0622 0.9 27 1249 4.0 122 ○ 1907 1.2 37	h m ft cm	25 Th 0029 4.1 125 0639 0.2 6 1308 4.8 146 1939 0.5 15	h m ft cm	25 Su 0113 3.3 101 0714 1.2 37 1352 4.2 128 2021 1.1 34	
	h m ft cm	11 M 0000 3.9 119 0631 0.5 15 1249 3.8 116 ○ 1856 1.0 30	h m ft cm	26 Tu 0057 3.4 104 1221 4.5 137 1842 0.4 12 ○ 1907 1.2 37	h m ft cm	26 F 0139 3.9 119 0710 1.0 30 1344 4.0 122 2006 1.2 37	h m ft cm	11 Sa 0218 3.4 104 0815 1.1 34 1451 4.3 131 2117 1.0 30	h m ft cm	26 M 0343 4.1 125 0939 0.5 15 1605 4.7 143 2227 0.3 9	
	h m ft cm	12 Tu 0051 3.7 113 0717 0.7 21 1342 3.9 119 1953 1.1 34	h m ft cm	27 W 0040 4.2 128 0658 0.0 0 1326 4.6 140 1951 0.5 15	h m ft cm	27 F 0156 3.3 101 0803 1.0 30 1440 4.1 125 2104 1.1 34	h m ft cm	12 M 0250 3.9 119 0848 0.3 9 1522 4.9 149 2150 0.4 12	h m ft cm	27 Tu 0318 3.5 107 0914 0.9 27 1545 4.5 137 2208 0.7 21	
13 W 0146 3.5 107 0805 0.7 21 1434 4.0 122 2051 1.0 30	h m ft cm	28 Th 0148 4.0 122 0759 0.1 3 1431 4.8 146 2058 0.4 12	h m ft cm	13 M 0257 3.3 101 0856 0.9 27 1533 4.3 131 2158 0.9 27	h m ft cm	28 Su 0354 4.0 122 0950 0.3 9 1621 5.0 152 2247 0.2 6	h m ft cm	13 Tu 0412 3.8 116 1009 0.6 18 1635 4.8 146 2255 0.4 12	h m ft cm	28 W 0525 4.4 134 1124 0.3 9 1740 4.8 146 2358 0.2 6	
	h m ft cm	14 Th 0242 3.4 104 0852 0.7 21 1525 4.1 125 2145 0.9 27	h m ft cm	29 F 0257 3.9 119 0901 0.0 0 1535 4.9 149 2202 0.2 6	h m ft cm	29 M 0353 3.4 104 0948 0.7 21 1623 4.6 140 2246 0.7 21	h m ft cm	14 W 0452 4.1 125 1047 0.2 6 1714 5.1 155 2338 0.1 3	h m ft cm	29 Th 0501 4.1 125 1101 0.3 9 1722 5.1 155 2339 0.1 3	
	h m ft cm	15 F 0337 3.4 104 0939 0.7 21 1613 4.3 131 2235 0.8 24	h m ft cm	30 Sa 0402 4.0 122 1001 0.0 0 1633 5.1 155 2301 0.0 0	h m ft cm	30 M 0444 3.6 110 1038 0.5 15 1709 4.8 146 2331 0.4 12	h m ft cm	15 Tu 0543 4.3 131 1139 0.1 3 1801 5.1 155	h m ft cm	30 Th 0547 4.5 137 1151 0.0 0 1808 5.3 162	
	h m ft cm	31 Su 0502 4.1 125 1058 -0.1 -3 1728 5.2 158 2355 -0.1 -3	h m ft cm	31 W 0024 0.0 0 0629 4.4 134 1227 0.1 3 1844 5.1 155	h m ft cm						

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Atlantic City, New Jersey, 2016

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 1331 1935	0.2	6	16 Su 0039 0655 1314 1919	-0.6	-18	1 Tu 0145 0803 1425 2020	0.3	9	16 W 0154 0816 1447 2047	-0.8	-24	1 Th 0150 0814 1441 2034	0.2	6
	4.7	143		5.5	168		4.7	143	5.7	174		4.6	140	
	0.2	6		-0.6	-18		0.3	9	-0.7	-21		0.1	3	
	4.6	140		5.1	155		3.9	119	4.4	134		3.5	107	
2 Su 1410 2011	0.3	9	17 M 0126 0743 1407 2010	-0.7	-21	2 W 0218 0838 1503 2056	0.4	12	17 Th 0247 0908 1542 2144	-0.6	-18	2 F 0225 0850 1519 2112	0.3	9
	4.7	143		5.7	174		4.7	143	5.5	168		4.5	137	
	0.4	12		-0.6	-18		0.4	12	-0.6	-18		0.1	3	
	4.4	134		5.0	152		3.7	113	4.2	128		3.4	104	
3 M 1449 2046	0.4	12	18 Tu 0215 0833 1501 2102	-0.6	-18	3 Th 0251 0914 1542 2134	0.6	18	18 F 0342 1003 1640 2243	-0.3	-9	3 Sa 0303 0927 1559 2152	0.4	12
	4.7	143		5.7	174		4.5	137	5.2	158		4.4	134	
	0.4	12		-0.5	-15		0.5	15	-0.3	-9		0.2	6	
	4.2	128		4.7	143		3.5	107	4.0	122		3.3	101	
4 Tu 1528 2123	0.6	18	19 W 0306 0926 1558 2159	-0.4	-12	4 F 0327 0952 1625 2215	0.7	21	19 Sa 0440 1101 1739 2347	0.0	0	4 Su 0345 1008 1643 2238	0.5	15
	4.6	140		5.5	168		4.4	134	4.8	146		4.3	131	
	0.6	18		-0.3	-9		0.6	18	-0.1	-3		0.2	6	
	4.0	122		4.4	134		3.4	104	3.8	116		3.3	101	
5 W 1609 2201	0.7	21	20 Th 0401 1022 1657 2300	-0.1	-3	5 Sa 0408 1034 1711 2303	0.8	24	20 Su 0543 1202 1839	0.3	9	5 M 0434 1053 1730 2331	0.6	18
	4.5	137		5.3	162		4.3	131	4.5	137		4.2	128	
	0.8	24		-0.1	-3		0.7	21	0.1	3		0.2	6	
	3.7	113		4.2	128		3.3	101				0.1	3	
6 Th 1654 2243	0.9	27	21 F 0500 1124 1801	0.2	6	6 Su 0458 1123 1803	0.9	27	21 M 0052 0648 1305	3.7	113	6 Tu 0532 1146 1822	0.6	18
	4.4	134		5.0	152		4.2	128	0.5	15		4.1	125	
	0.9	27		0.2	6		0.7	21	0.2	6		0.2	6	
	3.5	107							0.2	6				
7 F 1744 2333	1.0	30	22 Sa 0007 0605 1230 1906	3.9	119	7 M 0000 0557 1220 1958	3.3	101	22 Tu 0156 0753 1407 2034	3.7	113	7 W 0031 0637 1246 1917	3.5	107
	4.2	128		0.4	12		1.0	30	0.6	18		0.6	18	
	1.0	30		4.7	143		4.1	125	4.0	122		4.0	122	
	3.4	104		0.3	9		0.6	18	0.3	9		0.0	0	
8 Sa 1840 ●	1.1	34	23 Su 0117 0712 1338 2010	3.8	116	8 Tu 0104 0704 1323 1955	3.4	104	23 W 0254 0855 1504 2125	3.8	116	8 Th 0135 0746 1351 2014	3.7	113
	4.2	128		0.6	18		0.9	27	0.6	18		0.5	15	
	1.1	34		4.5	137		4.1	125	3.8	116		3.9	119	
	1.1	34		0.4	12		0.5	15	0.3	9		-0.1	-3	
9 Su 1304 1938	3.3	101	24 M 0224 0819 1442 2108	3.9	119	9 W 0208 0812 1426 2050	3.7	113	24 Th 0346 0950 1556 2210	4.0	122	9 F 0238 0853 1455 2111	4.1	125
	1.2	37		0.7	21		0.7	21	0.5	15		0.2	6	
	4.2	128		4.4	134		4.2	128	3.8	116		4.0	122	
	1.0	30		0.4	12		0.2	6	0.2	6		-0.4	-12	
10 M 1406 2035	3.4	104	25 Tu 0324 0921 1539 2200	4.0	122	10 Th 0307 0916 1526 2142	4.1	125	25 F 0431 1040 1641 2251	4.2	128	10 Sa 0337 0957 1557 2206	4.5	137
	1.1	34		0.6	18		0.4	12	0.4	12		-0.1	-3	
	4.3	131		4.3	131		4.4	134	3.8	116		4.1	125	
	0.8	24		0.3	9		-0.1	-3	0.2	6		-0.6	-18	
11 Tu 1505 2128	3.6	110	26 W 0416 1016 1629 2246	4.2	128	11 F 0402 1016 1622 2233	4.5	137	26 Sa 0512 1125 1724 2330	4.3	131	11 Su 0433 1056 1756 2300	4.9	149
	0.9	27		0.5	15		0.0	0	0.3	9		-0.4	-12	
	4.5	137		4.3	131		4.5	137	3.7	113		4.2	128	
	0.5	15		0.2	6		-0.4	-12	0.1	3		-0.8	-24	
12 W 1600 2218	4.0	122	27 Th 0501 1105 1713 2326	4.4	134	12 Sa 0454 1112 1716 2323	5.0	152	27 Su 0550 1207 1804 2323	4.5	137	12 M 0526 1152 1752 2353	5.2	158
	0.6	18		0.4	12		-0.3	-9	0.2	6		-0.7	-21	
	4.7	143		4.3	131		4.7	143	3.7	113		4.3	131	
	0.2	6		0.2	6		-0.7	-21	0.1	3		-0.9	-27	
13 Th 1651 2305	4.4	134	28 F 0541 1149 1753	4.5	137	13 Su 0545 1206 1809	5.4	165	28 M 0006 0627 1246 1842	0.1	3	13 Tu 0619 1246 1846 1908	5.5	168
	0.2	6		0.3	9		-0.6	-18	4.6	140		-0.9	-27	
	4.9	149		4.3	131		4.7	143	0.1	3		4.3	131	
	-0.1	-3							3.7	113				
14 F 1741 2352	4.8	146	29 Sa 0004 0618 1230 1831	0.2	6	14 M 0013 0635 1300 1901	-0.8	-24	29 Tu 0041 0703 1325 1920	0.1	3	14 W 0045 0703 1339 1939	-1.0	-30
	-0.1	-3		4.7	143		5.6	171	4.7	143		5.6	171	
	5.1	155		0.2	6		-0.8	-24	0.0	0		-1.0	-30	
	-0.4	-12		4.2	128		4.7	143	3.6	110		4.3	131	
15 Sa 1830	5.2	158	30 Su 0039 0653 1309 1908	0.2	6	15 Tu 0103 0725 1353 1953	-0.9	-27	30 W 0115 0739 1403 1957	0.1	3	15 Th 0137 0801 1432 2032	-0.9	-27
	-0.4	-12		4.7	143		5.7	174	4.7	143		5.5	168	
	5.2	158		0.2	6		-0.8	-24	0.1	3		-0.9	-27	
	5.2	158		4.2	128		4.6	140	3.6	110		4.2	128	
31 Sa 1830	0.2	6	31 M 0112 0728 1347 1944	0.2	6									
	4.8	146		4.8	146									
	0.2	6		0.2	6									
	4.0	122		4.0	122									

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Breakwater Harbor, Delaware, 2016

Times and Heights of High and Low Waters

January				February				March							
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height				
h m	ft	cm		h m	ft	cm		h m	ft	cm					
1 F	0115	3.5	107	16	0109	4.1	125	1	0208	3.6	110	16	0121	3.8	116
0712	0.5	15	Sa	0711	-0.1	-3	M	0819	0.7	21	Tu	0915	0.1	3	
1325	3.7	113	Sa	1331	4.1	125		1421	3.2	98		1528	3.5	107	
1947	0.3	9	O	1940	-0.4	-12		2029	0.4	12		2123	0.0	0	
2	0208	3.5	107	17	0212	4.2	128	2	0306	3.7	113	2	0217	3.9	119
Sa	0810	0.7	21	Su	0819	0.0	0	2	0920	0.7	21	2	0833	0.7	21
1417	3.4	104	Su	1434	3.8	116	Tu	1520	3.1	94	W	1025	0.1	3	
O	2036	0.4	12	Su	2040	-0.3	-9		1638	3.5	107		1437	3.2	98
3	0303	3.6	110	18	0318	4.3	131	3	0404	3.8	116	3	0318	3.9	119
Su	0911	0.7	21	M	0929	0.0	0	3	1021	0.6	21	3	0936	0.6	21
1512	3.3	101	M	1541	3.6	110		1620	3.1	94	Th	1129	0.1	3	
2126	0.4	12	M	2141	-0.3	-9		2219	0.3	9		1742	3.6	110	
4	0358	3.7	113	19	0423	4.4	134	4	0501	4.1	125	4	0420	4.1	125
M	1011	0.6	18	Tu	1038	0.0	0	4	1117	0.4	12	4	1037	0.4	12
1609	3.2	98	Tu	1649	3.6	110		1718	3.2	98	F	1224	-0.1	-3	
2215	0.3	9	Tu	2242	-0.3	-9		1836	3.7	113		1836	3.4	104	
5	0451	3.9	119	20	0526	4.6	140	5	0554	4.4	134	5	0518	4.4	134
Tu	1106	0.5	15	W	1141	-0.2	-6	5	1208	0.1	3	5	0700	4.6	140
1704	3.2	98	W	1751	3.6	110		1812	3.4	104	Sa	1312	-0.2	-6	
2303	0.2	6	W	2340	-0.4	-12			1923	3.9	119	Sa	1741	3.7	113
6	0541	4.2	128	21	0622	4.8	146	6	0003	-0.2	-6	6	0612	4.7	143
W	1156	0.3	9	Th	1237	-0.3	-9	6	0643	4.6	140	Th	0744	4.7	143
1755	3.3	101	Th	1847	3.7	113		1255	-0.2	-6		1354	-0.2	-6	
2348	0.0	0						1901	3.7	113		2004	4.0	122	
7	0627	4.4	134	22	0033	-0.5	-15	7	0052	-0.4	-12	7	0029	-0.4	-12
Th	1242	0.1	3	F	0713	4.9	149	7	0729	4.9	149	7	0750	5.0	152
1843	3.4	104	F	1328	-0.4	-12		1340	-0.4	-12	M	0823	4.7	143	
			F	1937	3.8	116		1949	4.0	122	M	1432	-0.3	-9	
8	0033	-0.2	-6	23	0123	-0.5	-15	8	0140	-0.7	-21	8	0121	-0.7	-21
F	0711	4.6	140	Sa	0759	4.9	149	8	0815	5.1	155	8	0751	5.1	155
1325	-0.1	-3	Sa	1413	-0.5	-15	8	1424	-0.7	-21	Tu	1508	-0.2	-6	
1928	3.6	110	Sa	2022	3.9	119	8	2035	4.2	128		2118	4.1	125	
9	0116	-0.3	-9	24	0209	-0.5	-15	9	0228	-0.8	-24	9	0211	-0.9	-27
Sa	0754	4.8	146	Su	0842	4.9	149	9	0900	5.2	158	9	0839	5.2	158
1407	-0.3	-9	Su	1456	-0.5	-15	9	1508	-0.8	-24	W	1542	-0.2	-6	
●	2012	3.7	113	Su	2104	3.9	119	9	2121	4.4	134	●	2012	4.7	143
10	0200	-0.5	-15	25	0253	-0.5	-15	10	0317	-0.9	-27	10	0302	-1.0	-30
Su	0837	5.0	152	M	0922	4.8	146	10	0946	5.1	155	10	0926	5.1	155
1449	-0.5	-15	M	1536	-0.4	-12		1553	-0.9	-27	Th	1008	4.3	131	
2056	3.8	116	M	2144	3.9	119		2209	4.5	137		1616	-0.1	-3	
11	0245	-0.6	-18	26	0335	-0.4	-12	11	0407	-0.9	-27	26	0353	-0.9	-27
M	0920	5.0	152	Tu	1000	4.6	140	11	1033	5.0	152	26	0405	0.0	0
1532	-0.6	-18	Tu	1615	-0.3	-9	11	1639	-0.8	-24	Tu	1015	5.0	152	
2142	3.9	119	Tu	2223	3.8	116		2258	4.6	140	F	1615	-0.8	-24	
12	0331	-0.6	-18	27	0416	-0.2	-6	12	0459	-0.7	-21	12	0446	-0.8	-24
Tu	1004	5.0	152	W	1037	4.4	134	12	1122	4.7	143	27	0443	0.2	6
1616	-0.7	-21	W	1652	-0.2	-6	12	1728	-0.7	-21	Sa	1105	4.7	143	
2228	4.0	122	W	2302	3.8	116		2351	4.6	140	Sa	1725	0.2	6	
13	0420	-0.6	-18	28	0458	0.0	0	13	0556	-0.5	-15	28	0524	0.3	9
W	1051	4.9	149	Th	1116	4.1	125	13	1215	4.3	131	W	1132	3.7	113
1703	-0.7	-21	Th	1730	0.0	0	13	1820	-0.5	-15	●	1726	0.4	12	
2318	4.1	125	Th	2343	3.7	113					2355	4.2	128		
14	0513	-0.5	-15	29	0542	0.2	6	14	0048	4.5	137	14	0027	4.8	146
Th	1140	4.7	143	F	1156	3.9	119	14	0657	-0.2	-6	29	0608	0.5	15
1752	-0.6	-18	F	1810	0.1	3	14	1313	4.0	122	F	0640	0.5	15	
			F				14	1916	-0.3	-9		1247	3.4	104	
15	0012	4.1	125	30	0027	3.6	110	15	0150	4.4	134	15	0128	4.6	140
F	0609	-0.3	-9	Sa	0629	0.4	12	15	0804	0.0	0	30	0043	4.2	128
1233	4.4	134	Sa	1239	3.6	110	15	1417	3.7	113	W	0659	0.6	18	
1844	-0.5	-15	Sa	1852	0.3	9	15	2017	-0.2	-6	●	1403	3.7	104	
			Sa				15				●	1957	0.1	3	
31	0115	3.6	110	31	0115	3.6	110					31	0137	4.1	125
Su	0721	0.6	18	Su	1327	3.4	104					Th	0756	0.6	18
●	1938	0.4	12	●	1938	0.4	12					●	1404	3.4	104
												●	2000	0.6	18

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Breakwater Harbor, Delaware, 2016

Times and Heights of High and Low Waters

April				May				June			
Time	Height	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 F 0237	4.1	125	16 Sa 0422	4.2	128	1 Su 0306	4.4	134	1 W 0436	3.9	119
0857	0.6	18	1039	0.4	12	0923	0.2	6	1047	0.4	12
1507	3.5	107	1700	3.9	119	1543	4.0	122	1712	4.1	125
2105	0.5	15	2253	0.5	15	2143	0.3	9	2316	0.6	18
2 Sa 0341	4.3	131	17 Su 0519	4.2	128	2 M 0408	4.5	137	17 Th 0527	3.9	119
0958	0.4	12	1130	0.3	9	1020	0.0	0	1131	0.4	12
1611	3.7	113	1750	4.0	122	1643	4.4	134	1757	4.3	131
2209	0.3	9	2346	0.4	12	2247	0.1	3	2329	-0.1	-3
3 Su 0442	4.5	137	18 M 0608	4.2	128	3 Tu 0509	4.6	140	18 W 0004	0.5	15
1055	0.1	3	1213	0.3	9	1115	-0.2	-6	0612	3.9	119
1711	4.0	122	1833	4.2	128	1740	4.8	146	1211	0.3	9
2310	0.0	0				2347	-0.2	-6	1837	4.5	137
4 M 0540	4.7	143	19 Tu 0033	0.3	9	4 W 0606	4.7	143	19 Th 0048	0.4	12
1148	-0.2	-6	0651	4.2	128	1207	-0.5	-15	0654	3.9	119
1806	4.4	134	1252	0.2	6	1834	5.2	158	1248	0.3	9
			1912	4.4	134				1915	4.6	140
5 Tu 0007	-0.3	-9	20 W 0115	0.2	6	5 Th 0044	-0.5	-15	20 F 0129	0.3	9
0634	4.9	149	0729	4.2	128	0701	4.8	146	0733	3.9	119
1238	-0.5	-15	1327	0.2	6	1258	-0.7	-21	1324	0.3	9
1858	4.9	149	1947	4.5	137	1927	5.5	168	1952	4.7	143
6 W 0102	-0.6	-18	21 Th 0154	0.1	3	6 F 0139	-0.7	-21	21 Sa 0207	0.2	6
0726	5.0	152	0805	4.2	128	0755	4.8	146	0812	3.8	116
1326	-0.7	-21	1401	0.2	6	1348	-0.7	-21	1400	0.2	6
1949	5.2	158	2021	4.6	140				2029	4.8	146
7 Th 0155	-0.9	-27	22 F 0231	0.1	3	7 Sa 0232	-0.8	-24	22 W 0245	0.1	3
0816	5.1	155	0840	4.1	125	0847	4.7	143	0850	3.8	116
1414	-0.8	-24	1433	0.2	6	1438	-0.7	-21	1435	0.3	9
2038	5.4	165	2056	4.7	143	2108	5.7	174	2107	4.8	146
8 F 0247	-0.9	-27	23 Sa 0307	0.1	3	8 Su 0325	-0.8	-24	23 M 0322	0.1	3
0906	5.0	152	0915	4.0	122	0939	4.6	140	0928	3.8	116
1502	-0.8	-24	1506	0.2	6	1528	-0.6	-18	1512	0.3	9
2128	5.6	171	2131	4.7	143	2159	5.6	171	2145	4.8	146
9 Sa 0339	-0.9	-27	24 Su 0343	0.1	3	9 M 0418	-0.6	-18	24 Tu 0400	0.1	3
0957	4.8	146	0951	3.9	119	1032	4.4	134	1008	3.7	113
1550	-0.7	-21	1540	0.3	9	1620	-0.4	-12	1551	0.3	9
2218	5.5	168	2207	4.7	143	2251	5.4	165	2225	4.8	146
10 Su 0432	-0.7	-21	25 M 0421	0.2	6	10 Tu 0512	-0.4	-12	25 W 0441	0.1	3
1048	4.6	140	1029	3.8	116	1126	4.2	128	1050	3.7	113
1641	-0.5	-15	1617	0.4	12	1713	-0.1	-3	1634	0.3	9
2310	5.3	162	2246	4.6	140	2345	5.1	155	2307	4.7	143
11 M 0528	-0.5	-15	26 Tu 0501	0.3	9	11 W 0607	-0.2	-6	26 Th 0524	0.2	6
1143	4.3	131	1109	3.7	113	1223	4.0	122	1135	3.7	113
1734	-0.2	-6	1656	0.5	15	1810	0.2	6	1721	0.4	12
			2328	4.5	137				2353	4.6	140
12 Tu 0006	5.1	155	27 W 0545	0.4	12	12 F 0041	4.8	146	27 Th 0611	0.2	6
0626	-0.2	-6	1153	3.6	110	0705	0.1	3	1225	3.7	113
1242	4.0	122	1742	0.5	15	1323	3.9	119	1814	0.4	12
1832	0.1	3				1911	0.5	15			
13 W 0106	4.7	143	28 Th 0015	4.4	134	13 F 0139	4.5	137	28 M 0043	4.6	140
0729	0.1	3	0633	0.4	12	0804	0.3	9	0702	0.1	3
1346	3.8	116	1243	3.5	107	1425	3.8	116	1319	3.8	116
1936	0.4	12	1834	0.6	18	2015	0.6	18	1912	0.5	15
14 Th 0210	4.5	137	29 F 0107	4.4	134	14 Sa 0240	4.2	128	29 W 0138	4.5	137
0835	0.3	9	0727	0.4	12	0903	0.4	12	0757	0.1	3
1454	3.7	113	1340	3.6	110	1526	3.8	116	1418	4.0	122
2043	0.5	15	1933	0.6	18	2120	0.7	21	2016	0.4	12
15 F 0318	4.3	131	30 Sa 0205	4.3	131	15 Su 0340	4.0	122	30 M 0238	4.4	134
0940	0.4	12	0824	0.4	12	0958	0.4	12	0853	0.0	0
1600	3.7	113	1441	3.7	113	1622	3.9	119	1518	4.3	131
2151	0.6	18	2037	0.5	15	2221	0.7	21	2122	0.3	9
									31 Tu 0339	4.3	131
									0949	-0.2	-6
									1619	4.6	140
									2227	0.1	3

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Breakwater Harbor, Delaware, 2016

Times and Heights of High and Low Waters

July				August				September			
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height
h m	ft	cm		h m	ft	cm		h m	ft	cm	
1 F 0523	4.1	125		16 Sa 0535	3.5	107		1 Th 0057	-0.1	-3	
1118	-0.3	-9		1129	0.5	15		16 Tu 0035	0.4	12	
1757	5.2	158	Sa	1807	4.6	140	M	0708	4.1	125	1 Th 0209
								1231	0.2	6	0.0 0
								1907	5.0	152	16 Tu 0823
										1415	0.0 0
										2040	4.9 149
											16 0129 -0.2 -6
											16 0746 4.9 149
											F 1345 -0.3 -9
											O 2011 5.3 162
2 Sa 0014	-0.2	-6		17 Su 0026	0.5	15		2 Tu 0147	-0.2	-6	
0624	4.1	125		0625	3.5	107		17 W 0119	0.1	3	
1213	-0.4	-12	Su	1214	0.3	9	Tu	0759	4.2	128	2 F 0248
1853	5.4	165		1853	4.8	146		1318	0.0	0	0.0 0
								1952	5.2	158	17 Sa 0902
										1457	0.1 3
										2118	4.8 146
											17 0214 -0.4 -12
											Sa 0834 5.1 155
											1435 -0.5 -15
											2058 5.3 162
3 Su 0111	-0.3	-9		18 M 0110	0.3	9		3 W 0234	-0.2	-6	
0721	4.1	125		0712	3.7	113		18 Th 0202	-0.1	-3	
1307	-0.4	-12	M	1258	0.2	6		0813	4.4	134	3 Sa 0325
1945	5.5	168		1936	4.9	149		1405	-0.2	-6	0.1 3
								2037	5.3	162	18 Su 0940
										1538	0.2 6
										2155	4.6 140
											2147 5.1 155
4 M 0203	-0.4	-12		19 Tu 0151	0.2	6		4 Th 0317	-0.2	-6	
0814	4.2	128		0756	3.8	116		19 F 0245	-0.3	-9	
1359	-0.4	-12	Tu	1342	0.1	3		0859	4.6	140	4 Su 0401
2036	5.5	168		2019	5.1	155		1453	-0.3	-9	0.2 6
								2122	5.3	162	19 M 1012
								2232	4.4	134	1619 -0.4 -12
											2237 4.9 149
5 Tu 0254	-0.4	-12		20 W 0232	0.0	0		5 F 0359	-0.1	-3	
0905	4.2	128		0840	4.0	122		20 Sa 0328	-0.4	-12	
1450	-0.3	-9		1426	0.0	0		1046	4.8	146	5 M 0437
2124	5.4	165		2101	5.1	155		1543	-0.3	-9	0.4 12
								2208	5.2	158	20 Tu 1104
										1701	0.5 15
										2310	4.2 128
											2331 4.6 140
6 W 0342	-0.4	-12		21 Th 0314	-0.1	-3		6 Sa 0439	0.1	3	
0954	4.2	128		0924	4.1	125		1053	4.3	131	21 W 0527
1539	-0.2	-6		1512	-0.1	-3		1648	0.3	9	0.2 -6
2210	5.2	158		2144	5.1	155		2305	4.5	137	W 1159 5.3 162
								2256	5.0	152	1814 0.0 0
7 Th 0428	-0.3	-9		22 F 0356	-0.2	-6		7 Su 0519	0.2	6	
1041	4.1	125		1010	4.2	128		1135	4.2	128	22 Th 0028
1628	0.0	0		1559	-0.1	-3		1734	0.5	15	4.3 131
2255	4.9	149		2229	5.1	155		2346	4.3	131	0623 0.0 0
								2347	4.7	143	1259 5.1 155
										1918 0.2 6	
8 F 0514	-0.1	-3		23 Sa 0440	-0.3	-9		8 M 0559	0.4	12	
1128	4.1	125		1057	4.4	134		1219	4.2	128	23 M 0637
1718	0.2	6		1649	0.0	0		1822	0.7	21	0.8 24
2340	4.6	140		2315	4.9	149				1310	4.3 131
										1925	1.0 30
											2026 0.4 12
9 Sa 0559	0.1	3		24 Su 0526	-0.3	-9		9 Tu 0029	4.0	122	
1215	4.0	122		1147	4.5	137		0641	0.5	15	24 F 0240
1808	0.5	15		1743	0.0	0		1305	4.1	125	0.2 122
								1913	0.8	24	0831 0.4 12
										1403	4.2 128
										2022	1.0 30
											2134 0.4 12
10 Su 0025	4.3	131		25 M 0005	4.7	143		10 W 0116	3.7	113	
0644	0.3	9		0615	-0.2	-6		0726	0.7	21	25 Th 0144
1303	4.0	122		1240	4.6	140		1355	4.1	125	4.1 125
1901	0.7	21		1841	0.2	6		2008	1.0	30	0938 0.5 15
										1500	4.3 131
										2121	1.0 30
											2236 0.4 12
11 M 0112	4.0	122		26 Tu 0059	4.5	137		11 Th 0207	3.6	110	
0730	0.4	12		0707	-0.2	-6		0814	0.7	21	26 F 0250
1353	4.0	122		1337	4.6	140		1449	4.2	128	4.0 122
1957	0.8	24		1944	0.3	9		2107	1.0	30	0919 0.8 24
										1558	4.4 134
										2218	0.8 24
											2332 0.3 9
12 Tu 0201	3.8	116		27 W 0157	4.2	128		12 F 0303	3.4	104	
0817	0.5	15		0803	-0.1	-3		0906	0.8	24	27 M 0422
1445	4.0	122		1438	4.7	143		1544	4.2	128	3.6 128
2055	0.9	27		2051	0.3	9		2205	0.9	27	0.7 21
										1633	4.9 149
										2252	0.3 9
										2310	0.6 18
13 W 0253	3.6	110		28 Th 0300	4.0	122		13 F 0401	3.4	104	
0906	0.6	18		0902	-0.1	-3		0959	0.7	21	28 M 0518
1537	4.1	125		1542	4.9	149		1639	4.4	134	3.9 119
2153	0.9	27		2158	0.3	9		2259	0.8	24	0637 4.4 134
										2350	0.2 6
										2359	0.3 9
										1856	4.8 146
14 Th 0348	3.5	107		29 F 0406	3.9	119		14 M 0457	3.5	107	
0954	0.6	18		1002	-0.1	-3		1052	0.6	18	29 W 0637
1630	4.2	128		1645	5.0	152		1731	4.6	140	4.4 137
2249	0.8	24		2303	0.2	6		2349	0.6	18	1315 0.2 6
										1937	4.7 143
15 F 0442	3.4	104		30 Sa 0512	3.9	119		15 M 0551	3.7	113	
1042	0.5	15		1102	-0.1	-3		1142	0.4	12	29 Th 0720
1720	4.4	134		1745	5.1	155		1820	4.8	146	4.5 137
2340	0.7	21								1242	0.1 3
										1916	5.1 155
										1924	5.2 158
16 F 0003	0.0	0		31 Su 0613	4.0	122		16 W 0127	0.1	3	
1200	-0.1	-3		1200	-0.1	-3		0741	4.4	134	29 F 0720
				1841	5.2	158		1330	0.0	0	4.6 140
								2000	5.0	152	1315 0.2 6
										1924	5.2 158

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.

Heights are referred to mean lower low water which is the chart datum of soundings.

Breakwater Harbor, Delaware, 2016

Times and Heights of High and Low Waters

October				November				December			
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height
1 Sa 0216 0.2 6 0834 4.7 143 1436 0.2 6 2049 4.5 137	16 Su 0145 -0.6 -18 0810 5.5 168 1418 -0.6 -18 2036 5.0 152	1 Tu 0250 0.3 9 0916 4.8 146 1529 0.2 6 2134 3.9 119	16 W 0259 -0.8 -24 0932 5.7 174 1549 -0.7 -21 2202 4.4 134	1 Th 0257 0.1 3 0930 4.7 143 1545 0.1 3 2149 3.6 110	16 F 0333 -0.8 -24 1007 5.4 165 1625 -0.7 -21 2237 4.1 125						
2 Su 0250 0.2 6 0909 4.7 143 1514 0.2 6 2125 4.4 134	17 M 0232 -0.7 -21 0900 5.7 174 1511 -0.6 -18 2126 4.9 149	2 W 0324 0.3 9 0953 4.7 143 1607 0.3 9 2212 3.8 116	17 Th 0351 -0.6 -18 1024 5.6 171 1644 -0.5 -15 2257 4.2 128	2 F 0334 0.2 6 1008 4.6 140 1623 0.1 3 2229 3.5 107	17 Sa 0425 -0.5 -15 1057 5.1 155 1717 -0.5 -15 2330 3.9 119						
3 M 0324 0.3 9 0944 4.7 143 1553 0.3 9 2201 4.2 128	18 Tu 0321 -0.6 -18 0950 5.7 174 1604 -0.5 -15 2219 4.7 143	3 Th 0400 0.4 12 1031 4.6 140 1647 0.4 12 2252 3.6 110	18 F 0445 -0.4 -12 1119 5.3 162 1740 -0.3 -9 2354 4.0 122	3 Sa 0414 0.2 6 1048 4.6 140 1704 0.1 3 2312 3.5 107	18 Su 0519 -0.3 -9 1148 4.7 143 1809 -0.3 -9						
4 Tu 0358 0.4 12 1021 4.7 143 1632 0.5 15 2238 4.0 122	19 W 0411 -0.5 -15 1043 5.6 171 1700 -0.4 -15 2314 4.4 134	4 F 0439 0.5 15 1113 4.5 137 1730 0.5 15 2336 3.5 107	19 Sa 0542 -0.1 -3 1215 4.9 149 1838 -0.1 -3	4 Su 0458 0.3 9 1131 4.5 137 1748 0.1 3 2359 3.5 107	19 M 0025 3.8 116 0615 0.0 0 1241 4.4 134 1903 -0.1 -3						
5 W 0434 0.6 18 1101 4.6 140 1714 0.6 18 2319 3.8 116	20 Th 0505 -0.2 -6 1139 5.4 165 1759 -0.1 -3	5 Sa 0523 0.6 18 1158 4.4 134 1816 0.6 18 1939 0.1 3	20 Su 0055 3.9 119 0643 0.2 6 1315 4.6 140 1929 0.1 3	5 M 0547 0.4 12 1218 4.3 131 1837 0.1 3	20 Tu 0122 3.7 113 0715 0.3 9 1335 4.0 122 O 1957 0.1 3						
6 Th 0513 0.7 21 1143 4.5 137 1759 0.8 24	21 F 0013 4.2 128 0603 0.1 3 1239 5.1 155 1901 0.1 3	6 Su 0025 3.5 107 0612 0.7 21 1248 4.3 131 1908 0.6 18	21 M 0159 3.8 116 0748 0.4 12 1417 4.3 131 O 2040 0.2 6	6 Tu 0051 3.5 107 0642 0.4 12 1310 4.2 128 1929 0.1 3	21 W 0220 3.7 113 0818 0.5 15 1432 3.7 113 2052 0.2 6						
7 F 0004 3.6 110 0556 0.8 24 1230 4.4 134 1848 0.9 27	22 Sa 0117 4.0 122 0706 0.3 9 1343 4.8 146 O 2007 0.3 9	7 M 0119 3.5 107 0709 0.7 21 1342 4.3 131 O 2003 0.5 15	22 Tu 0303 3.8 116 0855 0.5 15 1518 4.1 125 2137 0.3 9	7 W 0148 3.7 113 0743 0.4 12 1407 4.1 125 O 2024 0.0 0	22 Th 0319 3.7 113 0922 0.6 18 1530 3.5 107 2144 0.3 9						
8 Sa 0054 3.5 107 0645 0.9 27 1323 4.3 131 O 1943 0.9 27	23 Su 0225 3.9 119 0813 0.5 15 1449 4.6 140 2112 0.4 12	8 Tu 0218 3.6 110 0811 0.7 21 1441 4.3 131 2059 0.3 9	23 W 0403 3.9 119 0959 0.5 15 1617 4.0 122 2229 0.3 9	8 Th 0248 3.9 119 0849 0.3 9 1508 4.1 125 2120 -0.2 -6	23 F 0415 3.8 116 1023 0.5 15 1626 3.4 104 2233 0.2 6						
9 Su 0149 3.5 107 0742 0.9 27 1419 4.3 131 2040 0.8 24	24 M 0333 3.9 119 0922 0.6 18 1554 4.5 137 2212 0.4 12	9 W 0318 3.9 119 0915 0.5 15 1540 4.4 134 2154 0.1 3	24 Th 0457 4.1 125 1057 0.5 15 1710 3.9 119 2316 0.2 6	9 F 0349 4.2 128 0955 0.1 3 1610 4.1 125 2216 -0.4 -12	24 Sa 0506 4.0 122 1118 0.4 12 1718 3.3 101 2319 0.2 6						
10 M 0249 3.6 110 0843 0.8 24 1518 4.4 134 2137 0.7 21	25 Tu 0434 4.1 125 1025 0.5 15 1653 4.4 134 2305 0.3 9	10 Th 0417 4.2 128 1018 0.3 9 1639 4.5 137 2248 -0.1 -3	25 F 0543 4.2 128 1148 0.4 12 1757 3.8 116 2357 0.2 6	10 Sa 0448 4.6 140 1058 -0.1 -3 1710 4.1 125 2311 -0.6 -18	25 Su 0552 4.1 125 1207 0.3 9 1806 3.4 104						
11 Tu 0349 3.8 116 0945 0.6 18 1617 4.6 140 2231 0.4 12	26 W 0528 4.2 128 1122 0.4 12 1744 4.4 134 2351 0.2 6	11 F 0513 4.6 140 1118 -0.1 -3 1736 4.6 140 2339 -0.4 -12	26 Sa 0625 4.4 134 1234 0.3 9 1839 3.8 116	11 Su 0545 5.0 152 1158 -0.4 -12 1809 4.2 128	26 M 0001 0.1 3 0634 4.3 131 1251 0.2 6 1849 3.4 104						
12 W 0447 4.1 125 1044 0.4 12 1712 4.7 143 2322 0.1 3	27 Th 0614 4.4 134 1212 0.3 9 1829 4.3 131	12 Sa 0607 5.0 152 1215 -0.4 -12 1830 4.7 143	27 Su 0035 0.1 3 0703 4.5 137 1315 0.2 6 1918 3.8 116	12 M 0005 -0.8 -24 0640 5.3 162 1255 -0.7 -21 1906 4.2 128	27 Tu 0041 0.0 0 0714 4.5 137 1331 0.1 3						
13 Th 0540 4.5 137 1140 0.1 3 1805 4.9 149	28 F 0032 0.2 6 0654 4.5 137 1256 0.2 6 1909 4.3 131	13 Su 0029 -0.6 -18 0658 5.4 165 1310 -0.6 -18 1923 4.7 143	28 M 0111 0.1 3 0740 4.6 140 1354 0.1 3 1956 3.7 113	13 Tu 0058 -0.9 -27 0733 5.5 168 1349 -0.8 -24 O 2000 4.3 131	28 W 0119 0.0 0 0753 4.6 140 1409 0.0 0 2010 3.5 107						
14 F 0011 -0.2 -6 0631 4.9 149 1234 -0.2 -6 1856 5.0 152	29 Sa 0108 0.2 6 0731 4.7 143 1337 0.2 6 1946 4.2 128	14 M 0119 -0.8 -24 0750 5.7 174 1403 -0.8 -24 O 2016 4.7 143	29 Tu 0146 0.1 3 0816 4.7 143 1431 0.1 3 ● 2033 3.7 113	14 W 0150 -0.9 -27 0825 5.6 171 1442 -0.9 -27 2053 4.3 131	29 Th 0157 -0.1 -3 0831 4.7 143 1446 -0.1 -3 ● 2048 3.5 107						
15 Sa 0058 -0.4 -12 0721 5.2 158 1327 -0.5 -15 O 1946 5.1 155	30 Su 0143 0.2 6 0806 4.7 143 1415 0.2 6 ● 2022 4.1 125	15 Tu 0209 -0.8 -24 0841 5.8 177 1456 -0.8 -24 2108 4.6 140	30 W 0221 0.1 3 0853 4.7 143 1508 0.1 3 2110 3.6 110	15 Th 0241 -0.9 -27 0916 5.5 168 1534 -0.8 -24 2145 4.2 128	30 F 0234 -0.2 -6 0909 4.7 143 1522 -0.2 -6 2127 3.6 110						
	31 M 0217 0.2 6 0841 4.8 146 1452 0.2 6 2057 4.0 122				31 Sa 0313 -0.2 -6 0947 4.7 143 1600 -0.2 -6 2207 3.6 110						

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Reedy Point, Delaware, 2016

Times and Heights of High and Low Waters

January				February				March							
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height				
h m	ft	cm		h m	ft	cm		h m	ft	cm					
1 F	0359	4.8	146	16	0340	5.2	158	1	0450	4.9	149	16	0526	5.4	165
1026	0.2	6	Sa	1039	-0.2	-6	M	1131	0.3	9	Tu	1227	-0.1	-3	
1617	4.9	149	1608	5.3	162		1719	4.7	143		1800	5.0	152		
2258	0.0	0	●	2306	-0.4	-12		2342	0.1	3					
2	0451	4.8	146	17	0443	5.2	158	2	0544	5.0	152	17	0040	-0.2	-6
Sa	1119	0.3	9	Su	1141	-0.2	-6	W	1229	0.3	9	W	0630	5.4	165
1711	4.8	146	1712	5.1	155	Tu	1816	4.6	140		1328	-0.1	-3		
●	2345	0.0	0						1902	5.0	152				
3	0544	4.9	149	18	0003	-0.4	-12	3	0036	0.1	3	18	0139	-0.2	-6
Su	1214	0.2	6	M	0546	5.3	162	W	0638	5.1	155	Th	0731	5.5	168
1806	4.8	146	1245	-0.2	-6		1328	0.2	6		1427	-0.2	-6		
			1817	5.0	152		1911	4.6	140		2001	5.1	155		
4	0034	0.0	0	19	0101	-0.4	-12	4	0132	0.0	0	19	0236	-0.3	-9
M	0636	5.0	152	Tu	0649	5.4	165	Th	0732	5.2	158	F	0828	5.5	168
1310	0.2	6	1347	-0.3	-9		1425	0.1	3		1521	-0.3	-9		
1900	4.8	146	1918	5.0	152		2003	4.7	143		2055	5.2	158		
5	0124	0.0	0	20	0200	-0.4	-12	5	0228	-0.1	-3	20	0330	-0.3	-9
Tu	0726	5.2	158	W	0749	5.5	168	W	0823	5.4	165	Sa	0920	5.6	171
1406	0.1	3	1447	-0.4	-12		1520	-0.1	-3		1612	-0.4	-12		
1951	4.8	146	2017	5.0	152		2053	4.8	146		2145	5.3	162		
6	0214	-0.1	-3	21	0256	-0.5	-15	6	0322	-0.3	-9	21	0420	-0.4	-12
W	0814	5.3	162	Th	0845	5.6	171	Sa	0911	5.6	171	Su	1007	5.7	174
1459	0.0	0	1543	-0.5	-15		1611	-0.2	-6		1659	-0.4	-12		
2040	4.8	146	2112	5.1	155		2140	5.0	152		2231	5.4	165		
7	0304	-0.2	-6	22	0349	-0.6	-18	7	0415	-0.4	-12	22	0506	-0.4	-12
Th	0900	5.4	165	F	0937	5.7	174	Su	0958	5.8	177	M	1051	5.7	174
1551	-0.2	-6	1635	-0.6	-18		1700	-0.4	-12		1742	-0.3	-9		
2126	4.8	146	2203	5.1	155		2226	5.1	155	○	2314	5.4	165		
8	0352	-0.3	-9	23	0440	-0.6	-18	8	0505	-0.6	-18	23	0550	-0.3	-9
F	0943	5.6	171	Sa	1026	5.7	174	M	1044	5.9	180	Tu	1133	5.6	171
1640	-0.3	-9	1724	-0.6	-18		1748	-0.5	-15		1822	-0.2	-6		
2209	4.8	146	○	2251	5.1	155		2310	5.3	162		2355	5.4	165	
9	0439	-0.4	-12	24	0528	-0.5	-15	9	0555	-0.7	-21	24	0631	-0.2	-6
Sa	1024	5.7	174	Su	1111	5.7	174	Tu	1129	6.0	183	W	1213	5.5	168
1727	-0.4	-12	1809	-0.5	-15		1834	-0.6	-18		1859	-0.1	-3		
●	2251	4.9	149	2337	5.1	155		2355	5.4	165	●	2246	5.8	177	
10	0526	-0.5	-15	25	0613	-0.4	-12	10	0645	-0.7	-21	25	0630	-0.7	-21
Su	1105	5.8	177	M	1155	5.6	171	W	1216	6.0	183	Th	0711	-0.1	-3
1813	-0.4	-12	1852	-0.4	-12		1920	-0.6	-18		1251	5.4	165		
2333	5.0	152							1934	0.0	0				
11	0612	-0.5	-15	26	0021	5.1	155	11	0041	5.5	168	11	0021	6.1	186
M	1147	5.9	180	Tu	0655	-0.3	-9	Th	0736	-0.7	-21	F	0750	0.0	0
1858	-0.5	-15	1237	5.5	168		1305	5.9	180		1330	5.3	162		
			1932	-0.3	-9		2007	-0.6	-18		2008	0.1	3		
12	0015	5.0	152	27	0103	5.0	152	12	0130	5.6	171	12	0111	6.1	186
Tu	0700	-0.5	-15	W	0737	-0.2	-6	F	0830	-0.6	-18	Sa	0829	0.1	3
1230	5.9	180	1319	5.4	165		1357	5.7	174		1409	5.1	155		
1944	-0.5	-15	2011	-0.2	-6		2056	-0.5	-15		2042	0.2	6		
13	0100	5.1	155	28	0145	5.0	152	13	0223	5.6	171	13	0224	5.2	158
W	0749	-0.5	-15	Th	0818	-0.1	-3	Sa	0925	-0.4	-12	Su	0911	0.2	6
1318	5.8	177	1401	5.2	158		1453	5.5	168		1451	5.0	152		
2030	-0.5	-15	2049	0.0	0		2148	-0.4	-12		2117	0.3	9		
14	0148	5.1	155	29	0228	4.9	149	14	0320	5.5	168	14	0304	5.2	158
Th	0842	-0.4	-12	F	0901	0.1	3	Su	1024	-0.3	-9	M	1007	-0.2	-6
1409	5.7	174	1445	5.1	155		1553	5.3	162		1538	4.9	149		
2119	-0.5	-15	2127	0.0	0		2243	-0.3	-9		2159	0.3	9		
15	0242	5.2	158	30	0312	4.9	149	15	0422	5.4	165	15	0401	5.7	174
F	0938	-0.3	-9	Sa	0946	0.2	6	M	1125	-0.2	-6	Tu	1106	0.0	0
1506	5.5	168	1533	4.9	149		1657	5.1	155		1640	5.2	158		
2211	-0.4	-12	2207	0.1	3	●	2340	-0.2	-6	●	2318	0.1	3		
31	0359	4.9	149	31	0359	4.9	149					31	0353	5.6	171
Su	1036	0.2	6	Su	1624	4.8	146					Th	1113	0.6	18
●	2252	0.1	3	●	2252	0.1	3					●	2311	0.6	18

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Reedy Point, Delaware, 2016

Times and Heights of High and Low Waters

April				May				June			
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height
h m	ft	cm		h m	ft	cm		h m	ft	cm	
1 F 0457	5.6	171		16 Sa 0050	0.5	15		16 M 0531	5.8	177	
1214	0.6	18		0643	5.6	171		0114	0.6	18	
1750	5.1	155		Sa 1330	0.2	6		0705	5.6	171	
				1917	5.6	171		1241	0.4	12	
								1343	0.3	9	
								1937	5.9	180	
2 Sa 0019	0.5	15		17 Su 0146	0.4	12		2 M 0101	0.5	15	
0604	5.6	171		0738	5.6	171		0208	0.5	15	
1314	0.5	15		Su 1421	0.2	6		0756	5.6	171	
1850	5.2	158		2008	5.8	177		1430	0.3	9	
								2025	6.1	186	
3 Su 0126	0.4	12		18 M 0240	0.3	9		18 Tu 0206	0.4	12	
0709	5.7	174		0829	5.7	174		0259	0.4	12	
1412	0.3	9		M 1509	0.1	3		0845	5.6	171	
1947	5.5	168		2056	5.9	180		1515	0.3	9	
								2110	6.2	189	
4 M 0229	0.2	6		19 Tu 0330	0.2	6		19 W 0308	0.1	3	
0808	5.9	180		0917	5.7	174		0348	0.3	9	
1508	0.1	3		1554	0.2	6		0931	5.6	171	
2041	5.8	177		2141	6.0	183		1558	0.3	9	
								2152	6.2	189	
5 Tu 0328	-0.1	-3		20 W 0417	0.1	3		20 Th 0406	-0.2	-6	
0904	6.1	186		1001	5.7	174		0434	0.2	6	
1600	-0.1	-3		1635	0.2	6		1014	5.5	168	
2133	6.1	186		2222	6.1	186		1623	-0.1	-3	
								2230	6.2	189	
6 W 0425	-0.3	-9		21 Th 0501	0.1	3		21 F 0502	-0.3	-9	
0957	6.2	189		1043	5.6	171		0518	0.2	6	
1651	-0.3	-9		1714	0.3	9		1055	5.4	165	
2222	6.4	195		2300	6.1	186		1715	-0.2	-6	
								● 2250	6.8	207	
7 Th 0520	-0.5	-15		22 F 0543	0.1	3		22 Sa 0557	-0.4	-12	
1049	6.2	189		1122	5.5	168		0601	0.3	9	
1740	-0.3	-9		1751	0.4	12		1134	5.3	162	
● 2311	6.5	198		○ 2335	6.0	183		1805	-0.1	-3	
								2340	6.8	207	
8 F 0613	-0.6	-18		23 Sa 0624	0.2	6		23 Su 0650	-0.4	-12	
1140	6.1	186		1159	5.4	165		0643	0.3	9	
1830	-0.3	-9		1826	0.5	15		1210	5.2	158	
								1834	0.6	18	
9 Sa 0000	6.6	201		24 Su 0007	6.0	183		24 M 0031	6.7	204	
0706	-0.5	-15		0704	0.3	9		0010	6.2	189	
1232	6.0	183		1235	5.3	162		0723	0.4	12	
1919	-0.2	-6		1859	0.6	18		1246	5.2	158	
								1911	0.7	21	
10 Su 0051	6.5	198		25 M 0037	6.0	183		25 Tu 0123	6.5	198	
0800	-0.4	-12		0743	0.4	12		0834	-0.2	-6	
1325	5.8	177		1310	5.2	158		1402	5.6	171	
2010	-0.1	-3		1932	0.6	18		2039	0.3	9	
11 M 0143	6.3	192		26 Tu 0107	6.0	183		26 W 0217	6.2	189	
0854	-0.3	-9		0823	0.5	15		0926	0.0	0	
1421	5.6	171		1347	5.2	158		1459	5.5	168	
2102	0.1	3		2007	0.7	21		2133	0.5	15	
12 Tu 0239	6.1	186		27 W 0142	6.0	183		27 Th 0314	6.0	183	
0948	-0.1	-3		0905	0.5	15		1019	0.1	3	
1520	5.5	168		1428	5.2	158		1557	5.5	168	
2157	0.3	9		2050	0.7	21		2227	0.6	18	
13 W 0339	5.9	180		28 Th 0226	6.0	183		28 F 0413	5.8	177	
1044	0.1	3		0953	0.6	18		1111	0.2	6	
1621	5.4	165		1518	5.2	158		1655	5.5	168	
● 2254	0.4	12		2142	0.7	21		○ 2323	0.7	21	
14 Th 0441	5.7	174		29 F 0319	5.9	180		29 Sa 0512	5.7	174	
1141	0.2	6		1045	0.6	18		1203	0.3	9	
1722	5.4	165		1615	5.2	158		1752	5.6	171	
2352	0.5	15		● 2245	0.7	21					
15 F 0543	5.6	171		30 Sa 0422	5.9	180		30 Su 0019	0.7	21	
1237	0.2	6		1142	0.5	15		0610	5.6	171	
1821	5.5	168		1717	5.4	165		1253	0.3	9	
				2353	0.7	21		1846	5.8	177	
								31 Tu 0042	0.6	18	
								0613	5.8	177	
								1310	0.2	6	
								1853	6.1	186	

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Reedy Point, Delaware, 2016

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 0233 0.3 9 0759 5.6 171 1441 0.0 0 2028 6.5 198	16 Sa 0242 0.6 18 0824 5.2 158 1442 0.5 15 2044 6.1 186	1 M 0410 0.0 0 0936 5.7 174 1613 0.1 3 2159 6.5 198	16 Tu 0351 0.4 12 0924 5.4 165 1551 0.4 12 2139 6.4 195	1 Th 0522 0.1 3 1054 5.9 180 1730 0.2 6 2311 6.3 192	16 F 0455 0.0 0 1023 6.1 186 1710 0.0 0 2243 6.5 198						
2 Sa 0332 0.1 3 0857 5.7 174 1537 0.0 0 2122 6.6 201	17 Su 0334 0.5 15 0911 5.2 158 1531 0.4 12 2128 6.2 189	2 Tu 0501 0.0 0 1027 5.7 174 1704 0.1 3 2247 6.5 198	17 W 0439 0.3 9 1008 5.6 171 1641 0.3 9 2222 6.5 198	2 F 0604 0.1 3 1137 5.9 180 1814 0.4 12 2353 6.1 186	17 Sa 0541 -0.1 -3 1108 6.3 192 1802 -0.1 -3 2330 6.5 198						
3 Su 0429 -0.1 -3 0952 5.7 174 1631 0.0 0 2214 6.7 204	18 M 0423 0.4 12 0956 5.3 162 1619 0.4 12 2209 6.3 192	3 W 0549 -0.1 -3 1116 5.7 174 1752 0.2 6 2333 6.4 195	18 Th 0525 0.1 3 1051 5.7 174 1731 0.2 6 2305 6.5 198	3 Sa 0643 0.3 9 1218 5.9 180 1857 0.5 15	18 Su 0628 -0.1 -3 1154 6.4 195 1854 0.0 0						
4 M 0522 -0.2 -6 1045 5.7 174 1723 0.1 3 ● 2304 6.6 201	19 Tu 0509 0.3 9 1038 5.3 162 1705 0.4 12 O 2248 6.4 195	4 Th 0633 0.0 0 1202 5.7 174 1838 0.3 9	19 F 0610 0.0 0 1134 5.9 180 1820 0.2 6 2349 6.5 198	4 Su 0033 6.0 183 0720 0.4 12 1257 5.8 177 1938 0.6 18	19 M 0018 6.4 195 0715 -0.1 -3 1242 6.5 198 1948 0.0 0						
5 Tu 0612 -0.2 -6 1136 5.7 174 1813 0.2 6 2353 6.5 198	20 W 0554 0.2 6 1119 5.4 165 1751 0.4 12 2327 6.4 195	5 F 0017 6.2 189 0716 0.1 3 1247 5.7 174 1923 0.5 15	20 Sa 0655 0.0 0 1218 6.0 183 1910 0.2 6	5 M 0113 5.8 177 0756 0.5 15 1336 5.8 177 2019 0.8 24	20 Tu 0109 6.2 189 0803 0.0 0 1334 6.4 195 2043 0.2 6						
6 W 0700 -0.1 -3 1226 5.6 171 1902 0.3 9	21 Th 0638 0.1 3 1159 5.5 168 1837 0.4 12	6 Sa 0101 6.1 186 0756 0.3 9 1331 5.7 174 2007 0.6 18	21 Su 0035 6.5 198 0740 0.0 0 1304 6.1 186 2002 0.2 6	6 Tu 0155 5.6 171 0830 0.6 174 1416 5.7 174 2102 0.9 27	21 W 0204 6.0 183 0855 0.1 3 1429 6.3 192 2140 0.3 9						
7 Th 0040 6.3 192 0746 0.0 0 1315 5.6 171 1949 0.4 12	22 F 0007 6.4 195 0721 0.1 3 1240 5.6 171 1925 0.4 12	7 Su 0144 5.9 180 0835 0.4 12 1415 5.6 171 2051 0.8 24	22 M 0124 6.3 192 0827 0.0 0 1354 6.2 189 2057 0.3 9	7 W 0238 5.4 165 0907 0.7 21 1458 5.7 174 2149 1.0 30	22 Th 0303 5.7 174 0950 0.2 6 1530 6.2 189 2239 0.4 12						
8 F 0128 6.1 186 0830 0.1 3 1404 5.5 168 2037 0.6 18	23 Sa 0051 6.4 195 0805 0.1 3 1325 5.7 174 2015 0.4 12	8 M 0229 5.7 174 0914 0.5 15 1501 5.6 171 2137 0.9 27	23 Tu 0218 6.1 186 0917 0.1 3 1449 6.2 189 2155 0.4 12	8 Th 0326 5.3 162 0948 0.8 24 1545 5.7 174 2240 1.0 30	23 F 0406 5.5 168 1048 0.3 9 1634 6.1 186 O 2340 0.4 12						
9 Sa 0216 5.9 180 0913 0.2 6 1453 5.5 168 2124 0.7 21	24 Su 0138 6.3 192 0850 0.1 3 1414 5.8 177 2109 0.5 15	9 Tu 0317 5.5 168 0954 0.6 18 1548 5.6 171 2226 0.9 27	24 W 0317 5.8 177 1010 0.2 6 1548 6.1 186 O 2256 0.5 15	9 F 0419 5.1 155 1036 0.8 24 1638 5.7 174 O 2336 1.0 30	24 Sa 0511 5.4 165 1148 0.4 12 1740 6.0 183						
10 Su 0305 5.7 174 0957 0.4 12 1544 5.5 168 2214 0.8 24	25 M 0231 6.1 186 0939 0.1 3 1508 5.9 180 2208 0.5 15	10 W 0409 5.3 162 1037 0.6 18 1639 5.6 171 O 2319 1.0 30	25 Th 0420 5.6 171 1107 0.3 9 1652 6.1 186 2357 0.5 15	10 Sa 0516 5.1 155 1131 0.8 24 1735 5.7 174	25 Su 0039 0.4 12 0614 5.5 168 1247 0.4 12 1842 6.0 183						
11 M 0357 5.6 171 1040 0.4 12 1635 5.6 171 ● 2305 0.9 27	26 Tu 0330 5.9 180 1030 0.1 3 1608 6.0 183 O 2309 0.6 18	11 Th 0504 5.2 158 1124 0.7 21 1732 5.7 174	26 F 0525 5.5 168 1206 0.3 9 1757 6.1 186	11 Sa 0033 1.0 30 0614 5.1 155 1230 0.7 21 1833 5.9 180	26 M 0137 0.3 9 0714 5.6 171 1346 0.3 9 1940 6.1 186						
12 Tu 0451 5.4 165 1126 0.5 15 1727 5.7 174 2359 0.9 27	27 W 0433 5.7 174 1126 0.2 6 1710 6.1 186	12 F 0015 1.0 30 0559 5.1 155 1216 0.7 21 1825 5.8 177	27 Sa 0059 0.5 15 0629 5.5 168 1306 0.3 9 1859 6.2 189	12 M 0130 0.8 24 0709 5.2 158 1330 0.6 18 1928 6.0 183	27 Tu 0231 0.2 6 0809 5.8 177 1441 0.2 6 2032 6.2 189						
13 W 0546 5.3 162 1213 0.5 15 1819 5.8 177	28 Th 0013 0.6 18 0538 5.6 171 1224 0.2 6 1813 6.2 189	13 Sa 0112 0.9 27 0655 5.1 155 1310 0.6 18 1917 5.9 180	28 Su 0159 0.4 12 0730 5.6 171 1405 0.3 9 1958 6.3 192	13 Tu 0225 0.6 18 0802 5.4 165 1428 0.5 15 2019 6.2 189	28 W 0321 0.1 3 0900 5.9 180 1533 0.2 6 2121 6.2 189						
14 Th 0054 0.8 24 0641 5.3 162 1302 0.5 15 1909 5.9 180	29 F 0116 0.5 15 0643 5.5 168 1324 0.2 6 1914 6.3 192	14 Su 0207 0.8 24 0747 5.2 158 1405 0.6 18 2007 6.1 186	29 M 0255 0.2 6 0827 5.7 174 1501 0.2 6 2052 6.4 195	14 W 0317 0.4 12 0851 5.6 171 1524 0.3 9 2109 6.4 195	29 Th 0408 0.0 0 0947 6.0 183 1622 0.2 6 2206 6.2 189						
15 F 0149 0.7 21 0733 5.2 158 1352 0.5 15 1958 6.0 183	30 Sa 0217 0.3 9 0744 5.5 168 1422 0.2 6 2012 6.4 195	15 M 0300 0.6 18 0837 5.3 162 1459 0.5 15 2054 6.2 189	30 Tu 0348 0.1 3 0919 5.8 177 1554 0.2 6 2142 6.4 195	15 Th 0407 0.2 6 0938 5.9 180 1618 0.1 3 2156 6.5 198	30 F 0451 0.1 3 1030 6.0 183 1707 0.2 6 ● 2248 6.1 186						
31 Su 0315 0.2 6 0842 5.6 171 1519 0.1 3 2107 6.5 198	31 W 0437 0.0 0 1008 5.9 180 1644 0.2 6 2228 6.4 195	31 W 0437 0.0 0 1008 5.9 180 1644 0.2 6 2228 6.4 195									

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Reedy Point, Delaware, 2016

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	0531	0.2 6		16 Su	0512	-0.3 6.5	-9 198	1 Tu	0611	0.3 5.9	9 180	16 W	0628	-0.5 6.5	-15 198	
	1111	6.0 183			1044	-0.3 6.6	-9 201		1155	0.3 5.8	9 177		1204	-0.5 6.3	-15 192	
	1750	0.3 9			1745	-0.3 6.3	-9 192		1848	0.3 5.4	9 177		1915	-0.5 6.0	-15 192	
	2328	5.9 180			2310	6.3	192						1906	0.1 5.7	3 174	
2 Su	0609	0.3 9		17 M	0601	-0.3 1132	-9 201	2 W	0019	5.3 0.4	162 12	17 Th	0036	5.6 -0.4	171 -12	
	1149	6.0 183			1838	-0.3 -9			0645	5.8 12			0720	5.6 -12		
	1831	0.4 12							1228	0.4 12			1256	6.3 -12		
									1927	0.4 12			2009	0.4 -12		
3 M	0007	5.8 12	177	18 Tu	0000	6.1 0.3	186 -9	3 Th	0055	5.1 0.5	155 177	18 F	0131	5.4 -0.2	165 186	
	0644	0.4 12			0650	-0.3 1222	-9 201		1259	0.5 5.8	155 177		0813	5.6 -1.2	171 177	
	1225	5.9 180			1932	-0.2 -6			2008	0.5 5.4	155 177		1351	6.1 -6	171 177	
	1911	0.5 15											2102	0.2 -6	171 177	
4 Tu	0045	5.6 18	171	19 W	0053	5.9 0.7	180 -6	4 F	0131	5.0 0.5	152 15	19 Sa	0228	5.3 -0.1	162 -3	
	0718	0.6 18			0741	-0.2 1314	-6 198		0752	5.7 1332	152 174		0907	5.8 1449	146 177	
	1300	5.9 180			2027	-0.1 -3			2049	0.6 5.7	180 174		0812	5.6 2156	146 177	
	1951	0.7 21											2109	0.2 -1	146 177	
5 W	0123	5.4 18	165	20 Th	0148	5.7 0.0	174 0	5 Sa	0210	4.9 0.5	149 15	20 Su	0327	5.2 0.1	158 171	
	0750	0.6 18			0834	-0.1 1410	-0.1 192		1412	5.7 0.6	149 174		1003	5.6 2249	146 171	
	1334	5.8 177			2123	0.1 3			2135	0.6 0.0	149 171		0859	5.6 0.0	146 171	
	2032	0.8 24											1435	5.6 2156	146 171	
6 Th	0202	5.3 21	162	21 F	0247	5.5 0.1	168 3	6 Su	0256	4.9 0.6	149 18	21 M	0427	5.1 0.2	155 168	
	0824	0.7 21			0929	-0.1 1510	-6 186		1502	5.7 5.7	149 174		1100	5.5 2343	149 174	
	1410	5.8 177			2220	0.2 6			2225	0.6 0.0	149 171		0956	5.6 0.0	149 171	
	2116	0.9 27											1531	5.5 2247	149 171	
7 F	0245	5.1 21	155	22 Sa	0349	5.4 0.3	165 9	7 M	0350	4.9 0.6	149 18	22 Tu	0526	5.2 0.2	158 165	
	0903	0.7 21			1027	-0.3 1614	-9 180		1018	5.6 0.5	149 171		1157	5.4 2342	149 171	
	1452	5.7 174			2317	0.2 6			1601	5.6 0.5	149 171		1748	5.4 0.0	149 171	
	2205	0.9 27							2320	0.5 0.5	149 171				0415	5.0 0.0	152 152
8 Sa	0335	5.0 24	152	23 Su	0452	5.3 0.3	162 9	8 Tu	0450	5.0 0.5	152 15	23 W	0035	0.0 0.2	0 6	
	0952	0.8 24			1126	-0.3 1718	-9 177		1123	0.5 5.6	152 171		0623	5.3 1253	155 165	
	1544	5.7 174							1707	5.6 5.7	152 171		1207	0.2 1845	155 165	
	2259	0.9 27											1741	0.2 5.4	155 165	
9 Su	0431	5.0 24	152	24 M	0014	0.2 0.5	6	9 W	0016	0.4 5.2	12	24 Th	0125	-0.1 5.5	-3 168	
	1050	0.8 24			0554	-0.1 1225	-6 9		1230	0.4 0.4	12 12		0717	0.1 1348	133 1314	
	1644	5.7 174			1819	0.8 5.8	177		1812	5.7 5.7	12 174		1937	5.4 1846	133 1954	
	2356	0.8 24											1937	5.4 5.4	133 1954	
10 M	0531	5.1 21	155	25 Tu	0109	0.1 0.6	3	10 Th	0113	0.2 5.4	6	25 F	0214	-0.1 5.6	-3 171	
	1154	0.7 21			0652	5.5 1322	168 9		1335	0.2 0.2	6 6		0806	5.6 1440	146 2026	
	1747	5.8 177			1915	5.8 5.8	177		1913	5.8 5.8	177		0651	5.4 0.0	146 165	
													0719	5.6 1417	146 2047	
11 Tu	0053	0.7 21	21	26 W	0201	0.1 5.7	3	11 F	0208	0.0 5.8	0	26 Sa	0300	-0.1 5.7	-3 174	
	0630	5.2 180			0746	-0.1 1417	-6 6		0747	5.8 0.2	0		0853	5.7 1529	146 2113	
	1258	0.6 18			2008	5.8 5.8	177		1437	0.0 5.9	0		1529	-0.1 5.4	146 165	
	1848	5.9 180							2011	5.9 5.9	180		2113	5.4 165	146 165	
12 W	0149	0.5 168	15	27 Th	0250	0.0 0.1	0	12 Sa	0302	-0.2 6.1	-6	27 M	0343	-0.1 5.8	-3 177	
	0726	5.5 168			0836	5.9 1508	180 3		1536	-0.2 -0.2	-6 -6		0936	5.8 1701	146 2157	
	1400	0.4 12			2056	5.9 5.8	180		2106	5.9 5.9	180		1616	-0.1 5.3	146 168	
	1945	6.1 186											2157	5.3 5.3	146 168	
13 Th	0242	0.2 177	6	28 F	0336	0.0 0.9	0	13 Su	0355	-0.4 6.3	-12	28 M	0425	-0.1 5.8	-3 177	
	0818	5.8 177			0921	6.0 1557	183 3		1633	-0.4 -0.4	-12 -12		1017	5.8 1701	146 2238	
	1459	0.2 6			2141	5.8 5.8	177		2159	5.9 5.9	180		1701	-0.1 5.2	146 168	
	2039	6.2 189											2238	5.2 5.2	146 168	
14 F	0334	0.0 186	0	29 Sa	0418	0.0 6.0	0	14 M	0446	-0.5 6.5	-15	29 W	0505	0.0 5.8	0	
	0908	6.1 186			1004	6.0 1642	183 3		1023	6.5 1728	198 -15		1054	5.8 1744	146 2318	
	1556	0.0 0			2223	5.7 5.7	174		1642	0.1 0.1	198 190		1805	-0.1 5.1	146 155	
	2130	6.3 192											1805	0.0 5.1	146 155	
15 Sa	0424	-0.2 192	-6	30 Su	0458	0.1 6.0	3	15 Tu	0537	-0.5 1113	-15	30 W	0543	0.0 5.7	0	
	0956	6.3 192			1044	6.0 1726	183 3		1113	6.5 1822	198 -15		1147	6.2 1825	146 2343	
	1651	-0.2 -6			1807	0.2 0.2	6		1822	-0.5 0.0	-15 0		1857	0.0 4.9	146 149	
	2220	6.3 192			2342	5.4 5.4	165		2343	5.8 5.8	177				0007	4.7 143
31 Sa	0536	0.2 180	6	31 M	1121	5.9 5.9	180							0637	-0.2 1213	-6
	1807	0.2 180			1807	0.2 0.2	6							1213	5.6 1923	171 -6
	2342	5.4 165													0637	-0.2 1213	-6

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Philadelphia, Pennsylvania, 2016

Times and Heights of High and Low Waters

January				February				March			
Time	Height	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 F 0049	-0.4	-12	16 Sa 0050	-0.8	-24	1 M 0137	-0.4	-12	16 Tu 0217	-0.5	-15
0633	5.3	162	0621	5.6	171	0732	5.3	162	0645	5.7	174
1306	-0.2	-6	1317	-0.6	-18	1413	-0.2	-6	1336	0.1	3
1853	5.4	165	● 1847	5.7	174	2001	5.0	152	1922	5.2	158
2 Sa 0135	-0.4	-12	17 Su 0144	-0.7	-21	2 Tu 0227	-0.4	-12	17 W 0314	-0.5	-15
0724	5.3	162	0720	5.7	174	0824	5.4	165	0738	5.7	174
1358	-0.2	-6	1418	-0.5	-15	1509	-0.2	-6	1432	0.2	6
● 1946	5.3	162	1948	5.5	168	2054	4.9	149	2016	5.2	158
3 Su 0223	-0.4	-12	18 M 0240	-0.7	-21	3 W 0320	-0.4	-12	18 Th 0412	-0.5	-15
0816	5.4	165	0820	5.8	177	0917	5.5	168	0957	6.0	183
1452	-0.2	-6	1519	-0.5	-15	1606	-0.2	-6	1656	-0.5	-15
2040	5.2	158	2049	5.4	165	2148	5.0	152	2227	5.5	168
4 M 0313	-0.4	-12	19 Tu 0338	-0.7	-21	4 Th 0415	-0.4	-12	19 F 0508	-0.5	-15
0908	5.5	168	0919	5.9	174	1008	5.7	174	1053	6.0	183
1547	-0.2	-6	1619	-0.6	-18	1702	-0.2	-6	1751	-0.5	-15
2133	5.1	155	2148	5.4	165	2239	5.1	155	2320	5.6	171
5 Tu 0403	-0.5	-15	20 W 0435	-0.7	-21	5 F 0509	-0.5	-15	20 Sa 0602	-0.5	-15
0959	5.6	171	1017	6.0	183	1058	5.8	177	1144	6.1	186
1642	-0.3	-9	1718	-0.6	-18	1755	-0.3	-9	1842	-0.6	-18
2224	5.1	155	2244	5.4	165	2328	5.2	158	2256	5.7	174
6 W 0454	-0.5	-15	21 Th 0530	-0.8	-24	6 Sa 0602	-0.6	-18	21 Su 0011	5.7	174
1047	5.8	177	1111	6.1	186	1147	6.0	183	0652	-0.5	-15
1735	-0.4	-12	1813	-0.7	-21	1846	-0.4	-12	1233	6.1	186
2313	5.2	158	2338	5.4	165	1929	-0.5	-15	1929	-0.5	-15
7 Th 0543	-0.5	-15	22 F 0623	-0.8	-24	7 Su 0015	5.3	162	22 M 0057	5.8	177
1133	5.9	180	1203	6.1	186	0654	-0.7	-21	0740	-0.5	-15
1826	-0.4	-12	1905	-0.8	-24	1233	6.2	189	1318	6.1	186
8 F 0000	5.2	158	23 Sa 0029	5.5	168	8 M 0101	5.5	168	23 Tu 0142	5.8	177
0632	-0.6	-18	0714	-0.8	-24	0745	-0.8	-24	0825	-0.4	-12
1218	6.0	183	1252	6.1	186	1319	6.3	192	1401	6.1	186
1915	-0.5	-15	● 1954	-0.8	-24	● 2024	-0.6	-18	2055	-0.4	-12
9 Sa 0045	5.2	158	24 Su 0118	5.5	168	9 Tu 0147	5.6	171	24 W 0225	5.8	177
0719	-0.6	-18	0802	-0.7	-21	0835	-0.8	-24	0908	-0.4	-12
1300	6.1	186	1338	6.1	186	1406	6.4	195	1444	6.0	183
● 2003	-0.5	-15	2041	-0.7	-21	2111	-0.7	-21	2135	-0.3	-9
10 Su 0128	5.2	158	25 M 0205	5.5	168	10 W 0233	5.8	177	25 Th 0306	5.8	177
0807	-0.7	-21	0848	-0.6	-18	0925	-0.9	-27	0950	-0.3	-9
1343	6.2	189	1424	6.0	183	1453	6.4	195	1526	5.9	180
2049	-0.6	-18	2124	-0.7	-21	2158	-0.8	-24	2213	-0.2	-6
11 M 0212	5.3	162	26 Tu 0250	5.4	165	11 Th 0320	5.9	180	26 F 0347	5.8	177
0854	-0.7	-21	0932	-0.6	-18	1017	-0.9	-27	1031	-0.2	-6
1426	6.3	192	1508	5.9	180	1543	6.3	192	1609	5.7	174
2135	-0.6	-18	2207	-0.6	-18	2246	-0.8	-24	2251	-0.1	-3
12 Tu 0256	5.3	162	27 W 0335	5.4	165	12 F 0410	6.0	183	27 Sa 0429	5.8	177
0942	-0.7	-21	1016	-0.5	-15	1109	-0.8	-24	1113	-0.2	-6
1511	6.3	192	1553	5.7	174	1636	6.1	186	1653	5.6	171
2222	-0.7	-21	2247	-0.5	-15	2335	-0.8	-24	2329	-0.1	-3
13 W 0342	5.4	165	28 Th 0420	5.3	162	13 Sa 0503	6.0	183	28 Su 0511	5.7	174
1032	-0.7	-21	1059	-0.4	-12	1204	-0.7	-21	1157	-0.1	-3
1559	6.2	189	1639	5.6	171	1732	5.9	180	1740	5.4	165
2310	-0.7	-21	2328	-0.5	-15	1830	5.7	174	1829	5.3	162
14 Th 0431	5.5	168	29 F 0505	5.3	162	14 Su 0027	-0.7	-21	29 M 0008	-0.1	-3
1125	-0.7	-21	1143	-0.4	-12	0600	6.0	183	0556	5.7	174
1652	6.1	186	1726	5.4	165	1300	-0.6	-18	1244	0.0	0
2359	-0.8	-24	1815	5.2	158	1830	5.7	174	1829	5.3	162
15 F 0525	5.5	168	30 Sa 0008	-0.5	-15	15 M 0120	-0.6	-18	15 Tu 0057	-0.1	-3
1219	-0.7	-21	0552	5.3	162	0658	5.9	180	0636	6.4	195
1748	5.9	180	1230	-0.3	-9	1359	-0.5	-15	1339	-0.2	-6
● 1907	5.1	155	1815	5.2	158	● 1930	5.5	168	● 1912	5.9	180
31 Su 0051	-0.4	-12	31 W 0641	5.3	162				31 Th 0106	0.5	15
1320	-0.3	-9	1320	-0.3	-9				0652	6.3	192
● 1907	5.1	155	● 1907	5.1	155				1359	0.5	15
									● 1939	5.7	174

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Philadelphia, Pennsylvania, 2016

Times and Heights of High and Low Waters

April				May				June			
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height
1 F 0204 0.5 15 0751 6.4 195 1456 0.6 18 2035 5.8 177	16 Sa 0322 0.6 18 0908 6.5 198 1600 0.3 9 2142 6.5 198	1 Su 0241 0.9 27 0818 6.8 207 1523 0.7 21 2100 6.5 198	16 M 0347 0.8 24 0931 6.5 198 1615 0.4 12 2203 6.9 210	1 W 0426 0.7 21 0953 6.8 207 1647 0.4 12 2225 7.4 226	16 Th 0500 0.6 18 1040 6.2 189 1711 0.5 15 2304 7.0 213						
2 Sa 0306 0.5 15 0851 6.5 198 1554 0.5 15 2131 6.0 183	17 Su 0418 0.5 15 1003 6.5 198 1652 0.3 9 2234 6.7 204	2 M 0344 0.8 24 0919 6.9 210 1620 0.6 18 2156 6.9 210	17 Tu 0441 0.7 21 1023 6.5 198 1704 0.5 15 2252 7.0 213	2 Th 0526 0.5 15 1050 6.8 207 1742 0.4 12 2318 7.6 232	17 F 0550 0.6 18 1128 6.2 189 1758 0.5 15 2349 7.1 216						
3 Su 0409 0.5 15 0949 6.6 201 1651 0.4 12 2225 6.3 192	18 M 0511 0.5 15 1055 6.6 201 1741 0.3 9 2322 6.8 207	3 Tu 0446 0.6 18 1017 7.0 213 1715 0.5 15 2249 7.2 219	18 W 0532 0.6 18 1112 6.5 198 1750 0.5 15 2337 7.2 219	3 F 0624 0.4 12 1145 6.8 207 1836 0.4 12	18 Sa 0639 0.5 15 1215 6.1 186 1843 0.6 18						
4 M 0509 0.3 9 1045 6.8 207 1745 0.3 9 2316 6.7 204	19 Tu 0602 0.4 12 1143 6.6 201 1826 0.3 9	4 W 0545 0.4 12 1113 7.0 213 1809 0.4 12 2341 7.5 229	19 Th 0621 0.5 15 1159 6.5 198 1834 0.6 18	4 Sa 0010 7.8 238 0719 0.2 6 1239 6.8 207 ● 1929 0.4 12	19 Su 0032 7.1 216 0726 0.5 15 1259 6.1 186 1928 0.7 21						
5 Tu 0607 0.1 3 1138 6.9 210 1838 0.2 6	20 W 0007 7.0 213 0650 0.4 12 1228 6.6 201 1910 0.4 12	5 Th 0643 0.3 9 1207 7.1 216 1901 0.4 12	20 F 0020 7.2 219 0708 0.5 15 1244 6.4 195 1917 0.7 21	5 Su 0101 7.8 238 0813 0.2 6 1332 6.7 204 2020 0.4 12	20 M 0112 7.1 216 0811 0.5 15 1342 6.0 183 ○ 2011 0.7 21						
6 W 0007 7.0 213 0702 0.0 0 1230 7.0 213 1928 0.1 3	21 Th 0050 7.0 213 0735 0.4 12 1312 6.5 198 1950 0.6 18	6 F 0032 7.7 235 0738 0.1 3 1300 7.0 213 ● 1953 0.3 9	21 Sa 0101 7.2 219 0753 0.5 15 1327 6.3 192 ○ 1958 0.8 24	6 M 0152 7.8 238 0904 0.1 3 1425 6.6 201 2111 0.5 15	21 Tu 0151 7.1 216 0856 0.5 15 1423 6.0 183 2055 0.7 21						
7 Th 0056 7.2 219 0756 -0.2 -6 1322 7.0 213 ● 2018 0.1 3	22 F 0130 7.0 213 0819 0.4 12 1354 6.4 195 ○ 2030 0.7 21	7 Sa 0122 7.8 238 0831 0.1 3 1352 6.9 210 2043 0.4 12	22 Su 0140 7.2 219 0837 0.6 18 1409 6.2 189 2039 0.9 27	7 Tu 0243 7.6 232 0955 0.2 6 1518 6.5 198 2201 0.6 18	22 W 0229 7.1 216 0939 0.5 15 1505 6.0 183 2139 0.7 21						
8 F 0145 7.4 226 0850 -0.2 -6 1413 7.0 213 2108 0.1 3	23 Sa 0209 7.0 213 0901 0.5 15 1435 6.3 192 2108 0.8 24	8 Su 0213 7.8 238 0924 0.1 3 1445 6.8 207 2134 0.4 12	23 M 0218 7.1 216 0920 0.6 18 1449 6.1 186 2119 0.9 27	8 W 0334 7.4 226 1044 0.2 6 1611 6.4 195 2251 0.7 21	23 Th 0308 7.1 216 1023 0.4 12 1547 6.0 183 2225 0.7 21						
9 Sa 0235 7.5 229 0942 -0.2 -6 1506 6.8 207 2157 0.1 3	24 Su 0246 6.9 210 0943 0.5 15 1515 6.1 186 2146 0.8 24	9 M 0304 7.7 235 1016 0.1 3 1539 6.7 204 2225 0.5 15	24 Tu 0254 7.1 216 1002 0.6 18 1530 6.0 183 2200 0.9 27	9 Th 0426 7.2 219 1133 0.2 6 1704 6.4 195 2342 0.7 21	24 F 0350 7.1 216 1108 0.4 12 1632 6.1 186 2314 0.7 21						
10 Su 0326 7.4 226 1035 -0.1 -3 1600 6.7 204 2248 0.2 6	25 M 0322 6.9 210 1024 0.6 18 1556 6.1 186 2224 0.8 24	10 Tu 0357 7.5 229 1107 0.2 6 1634 6.6 201 2316 0.6 18	25 W 0330 7.1 216 1045 0.6 18 1612 6.0 183 2243 0.9 27	10 F 0519 6.9 210 1221 0.3 9 1758 6.4 195	25 Sa 0437 7.0 213 1154 0.3 9 1721 6.3 192						
11 M 0419 7.3 223 1128 0.0 0 1655 6.5 198 2340 0.3 9	26 Tu 0358 6.9 210 1106 0.6 18 1638 6.0 183 2304 0.8 24	11 W 0451 7.3 223 1159 0.2 6 1730 6.5 198	26 Th 0409 7.1 216 1129 0.6 18 1657 6.1 186 2330 0.9 27	11 Sa 0033 0.8 24 0613 6.7 204 1309 0.3 9 1851 6.4 195	26 Su 0007 0.7 21 0531 6.9 210 1243 0.3 9 1815 6.4 195						
12 Tu 0515 7.1 216 1222 0.1 3 1753 6.3 192	27 W 0435 6.9 210 1151 0.6 18 1723 6.0 183 2349 0.8 24	12 Th 0008 0.7 21 0547 7.0 213 1250 0.3 9 1827 6.5 198	27 F 0454 7.1 216 1216 0.6 18 1746 6.2 189	12 Su 0125 0.8 24 0708 6.5 198 1357 0.3 9 ● 1945 6.5 198	27 M 0103 0.7 21 0629 6.8 207 1335 0.2 6 ● 1911 6.6 201						
13 W 0033 0.4 12 0612 6.9 210 1316 0.2 6 ● 1851 6.3 192	28 Th 0519 6.9 210 1239 0.7 21 1813 6.0 183	13 F 0102 0.8 24 0644 6.8 207 1342 0.4 12 ● 1923 6.5 198	28 Sa 0022 0.9 27 0548 7.0 213 1306 0.5 15 1839 6.3 192	13 M 0219 0.8 24 0802 6.4 195 1446 0.4 12 2037 6.6 201	28 Tu 0204 0.7 21 0731 6.6 201 1429 0.3 9 2009 6.8 207						
14 Th 0129 0.5 15 0712 6.7 204 1411 0.3 9 1950 6.3 192	29 F 0040 0.8 24 0614 6.8 207 1331 0.7 21 ● 1907 6.1 186	14 Sa 0157 0.8 24 0741 6.7 204 1434 0.4 12 2018 6.6 201	29 Su 0119 0.9 27 0649 6.9 210 1359 0.5 15 ● 1936 6.5 198	14 Tu 0313 0.8 24 0856 6.3 192 1535 0.4 12 2128 6.8 207	29 W 0305 0.7 21 0832 6.5 198 1526 0.3 9 2107 7.1 216						
15 F 0225 0.6 18 0811 6.6 201 1507 0.3 9 2047 6.4 195	30 Sa 0138 0.9 27 0715 6.8 207 1426 0.7 21 2004 6.3 192	15 Su 0252 0.8 24 0837 6.6 201 1525 0.4 12 2112 6.7 204	30 M 0221 0.9 27 0752 6.8 207 1455 0.5 15 2033 6.8 207	15 W 0407 0.7 21 0949 6.3 192 1624 0.4 12 2217 6.9 210	30 Th 0407 0.6 18 0932 6.5 198 1623 0.3 9 2203 7.3 223						
			31 Tu 0324 0.8 24 0853 6.8 207 1551 0.5 15 2130 7.1 216								

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Philadelphia, Pennsylvania, 2016

Times and Heights of High and Low Waters

July				August				September			
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height
1 F 0508 0.4 12 1030 6.4 195 1719 0.3 9 2258 7.4 226	h m ft cm	16 Sa 0517 0.6 18 1056 5.9 180 1722 0.4 12 2316 6.9 210	h m ft cm	1 M 0640 0.2 6 1203 6.4 195 1847 0.3 9	h m ft cm	16 Tu 0626 0.5 15 1158 6.1 186 1831 0.4 12	h m ft cm	1 Th 0054 7.2 219 0753 0.2 6 1321 6.7 204 2005 0.5 15	h m ft cm	16 F 0031 7.4 226 0732 0.3 9 1259 6.9 210 1949 0.3 9	
	h m ft cm	17 Su 0608 0.5 15 1144 5.9 180 1811 0.5 15	h m ft cm	2 Tu 0025 7.3 223 0731 0.1 3 1254 6.4 195 1938 0.3 9	h m ft cm	17 W 0014 7.2 219 0714 0.4 12 1244 6.3 192 1921 0.4 12	h m ft cm	2 F 0139 7.1 216 0836 0.3 9 1405 6.7 204 2050 0.6 18	h m ft cm	17 Sa 0118 7.4 226 0819 0.3 9 1345 7.1 216 2041 0.3 9	
	h m ft cm	18 M 0001 7.0 213 0657 0.4 12 1229 6.0 183 1858 0.5 15	h m ft cm	3 W 0114 7.3 223 0820 0.1 3 1343 6.4 195 2027 0.4 12	h m ft cm	18 Th 0058 7.3 223 0801 0.3 9 1328 6.4 195 2011 0.4 12	h m ft cm	3 Sa 0222 6.9 210 0918 0.4 12 1448 6.7 204 2134 0.7 21	h m ft cm	18 Su 0206 7.4 226 0907 0.2 6 1432 7.3 223 2133 0.3 9	
	h m ft cm	19 Tu 0043 7.6 232 0753 0.1 3 1313 6.4 195 1959 0.3 9	h m ft cm	4 Th 0201 7.1 216 0905 0.2 6 1430 6.4 195 1946 0.5 15	h m ft cm	19 F 0142 7.3 223 0847 0.2 6 1412 6.5 198 2100 0.3 9	h m ft cm	4 Su 0306 6.8 207 0957 0.5 15 1531 6.6 201 2217 0.7 21	h m ft cm	19 M 0255 7.2 219 0955 0.2 6 1521 7.3 223 2226 0.3 9	
5 Tu 0133 7.5 229 0843 0.1 3 1404 6.4 195 2049 0.4 12	h m ft cm	20 W 0125 7.1 216 0830 0.3 9 1356 6.0 183 2032 0.5 15	h m ft cm	5 F 0247 7.0 213 0949 0.2 6 1517 6.4 195 2200 0.6 18	h m ft cm	20 Sa 0227 7.3 223 0933 0.2 6 1457 6.7 204 2151 0.3 9	h m ft cm	5 M 0350 6.6 201 1036 0.6 18 1614 6.6 201 2300 0.8 24	h m ft cm	20 Tu 0347 7.0 213 1044 0.2 6 1613 7.3 223 2320 0.4 12	
	h m ft cm	21 W 0222 7.3 223 0931 0.1 3 1455 6.3 192 2138 0.5 15	h m ft cm	6 Th 0206 7.1 216 0914 0.3 9 1439 6.1 186 2120 0.5 15	h m ft cm	21 Sa 0333 6.8 207 1031 0.3 9 1603 6.4 195 2245 0.7 21	h m ft cm	6 Tu 0314 7.2 219 1020 0.1 3 1544 6.8 207 2243 0.4 12	h m ft cm	21 W 0442 6.8 207 1135 0.3 9 1708 7.2 219	
	h m ft cm	22 Th 0311 7.1 216 1018 0.1 3 1545 6.3 192 2226 0.6 18	h m ft cm	7 F 0248 7.1 216 0959 0.2 6 1522 6.2 189 2208 0.5 15	h m ft cm	22 Su 0419 6.6 201 1112 0.3 9 1650 6.4 195 2331 0.7 21	h m ft cm	7 W 0405 7.0 213 1107 0.1 3 1635 6.9 210 2337 0.4 12	h m ft cm	22 Th 0522 6.2 189 1154 0.6 18 1744 6.5 198 2187 7.1 216	
	h m ft cm	23 F 0400 6.9 210 1103 0.2 6 1635 6.3 192 2314 0.7 21	h m ft cm	8 Sa 0333 7.1 216 1045 0.2 6 1608 6.4 195 2259 0.5 15	h m ft cm	23 M 0507 6.4 195 1153 0.4 12 1737 6.4 195	h m ft cm	8 Th 0459 6.8 207 1157 0.1 3 1730 6.9 210	h m ft cm	23 F 0015 0.5 15 0540 6.6 201 1228 0.4 12 1807 7.1 216	
9 Sa 0449 6.7 204 1148 0.2 6 1725 6.3 192	h m ft cm	24 Su 0422 7.0 213 1131 0.1 3 1658 6.5 198 2352 0.5 15	h m ft cm	9 Tu 0018 0.8 24 0557 6.2 189 1236 0.4 12 1826 6.4 195	h m ft cm	24 W 0033 0.5 15 0557 6.6 201 1250 0.2 6 1828 7.0 213	h m ft cm	9 F 0122 1.0 30 0705 5.9 180 1325 0.7 21 1925 6.6 201	h m ft cm	24 Sa 0211 0.6 18 0741 6.3 192 1422 0.5 15 2009 7.0 213	
	h m ft cm	10 Su 0002 0.7 21 0540 6.5 198 1232 0.3 9 1816 6.3 192	h m ft cm	25 M 0515 6.8 207 1220 0.1 3 1752 6.6 201	h m ft cm	10 W 0107 0.8 24 0649 6.0 183 1320 0.4 12 1917 6.4 195	h m ft cm	10 Th 0131 0.6 18 0657 6.4 195 1345 0.3 9 1928 7.0 213	h m ft cm	25 Su 0216 1.0 30 0759 5.8 177 1419 0.7 21 2019 6.6 201	
	h m ft cm	11 M 0052 0.7 21 0633 6.3 192 1317 0.3 9 1907 6.4 195	h m ft cm	11 Tu 0048 0.5 15 0613 6.6 201	h m ft cm	11 W 0159 0.8 24 0742 5.9 180 1408 0.5 15 2009 6.5 198	h m ft cm	11 F 0231 0.6 18 0758 6.3 192 1443 0.4 12 2028 7.0 213	h m ft cm	26 M 0309 0.5 15 0842 6.3 192 1521 0.5 15 2109 7.0 213	
	h m ft cm	12 Tu 0143 0.8 24 0726 6.2 189 1404 0.3 9 1958 6.5 198	h m ft cm	12 W 0147 0.6 18 0713 6.4 195 1406 0.2 6 1948 6.9 210	h m ft cm	12 F 0253 0.8 24 0836 5.8 177 1500 0.5 15 2101 6.6 201	h m ft cm	12 Sa 0331 0.5 15 0859 6.2 189 1541 0.4 12 2128 7.1 216	h m ft cm	27 Tu 0408 0.9 27 0947 6.0 183 1613 0.7 21 2206 6.9 210	
13 W 0236 0.7 21 0820 6.0 183 1452 0.4 12 2050 6.6 201	h m ft cm	13 Th 0248 0.6 18 0814 6.3 192 1503 0.2 6 2047 7.0 213	h m ft cm	13 Sa 0348 0.8 24 0930 5.8 177 1553 0.5 15 2152 6.7 204	h m ft cm	13 W 0429 0.5 15 0958 6.3 192 1639 0.4 12 2224 7.1 216	h m ft cm	13 Tu 0502 0.7 21 1038 6.2 189 1709 0.6 18 2256 7.1 216	h m ft cm	28 W 0552 0.3 9 1126 6.8 207 1806 0.4 12 2347 7.1 216	
	h m ft cm	14 Th 0330 0.7 21 0913 6.0 183 1542 0.4 12 2140 6.7 204	h m ft cm	14 F 0349 0.5 15 0915 6.2 189 1601 0.2 6 2145 7.1 216	h m ft cm	14 Su 0443 0.7 21 1022 5.9 180 1647 0.5 15 2241 6.9 210	h m ft cm	14 W 0525 0.3 9 1053 6.4 195 1735 0.3 9 2318 7.2 219	h m ft cm	29 Th 0554 0.6 18 1126 6.4 195 1804 0.5 15 2344 7.3 223	
	h m ft cm	15 F 0425 0.6 18 1005 5.9 180 1632 0.4 12 2229 6.8 207	h m ft cm	15 Sa 0449 0.4 12 1014 6.3 192 1659 0.2 6 2241 7.2 219	h m ft cm	15 M 0536 0.6 18 1111 6.0 183 1739 0.5 15 2329 7.0 213	h m ft cm	15 Tu 0618 0.2 6 1146 6.5 198 1827 0.3 9 1917 0.4 12	h m ft cm	30 F 0032 7.0 213 0724 0.3 9 1257 6.9 210 1941 0.5 15	
	h m ft cm	31 Su 0546 0.3 9 1110 6.3 192 1754 0.2 6 2334 7.3 223	h m ft cm	31 W 0007 7.2 219 0707 0.2 6 1235 6.6 201 1917 0.4 12	h m ft cm	31 W 0007 7.2 219 0707 0.2 6 1235 6.6 201 1917 0.4 12	h m ft cm				

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Philadelphia, Pennsylvania, 2016

Times and Heights of High and Low Waters

October				November				December			
	Time	Height			Time	Height			Time	Height	
1 Sa 0116 7.0 213 0805 0.4 12 1339 6.9 210 2026 0.6 18	16 Su 0054 7.3 223 0751 0.2 6 1319 7.5 229 2022 0.1 3	1 Tu 0215 6.2 189 0852 0.5 15 1431 6.8 207 2126 0.5 15	16 W 0216 6.5 198 0907 -0.2 -6 1438 7.3 223 2150 -0.2 -6	1 Th 0232 5.5 168 0903 0.1 3 1442 6.3 192 2144 0.1 3	16 F 0249 5.9 180 0937 -0.6 -18 1510 6.7 204 2220 -0.6 -18						
	2 Su 0158 6.8 207 0845 0.6 18 1420 6.9 210 2109 0.7 21	17 M 0144 7.2 219 0841 0.1 3 1408 7.6 232 2115 0.1 3	2 W 0256 6.1 186 0930 0.6 18 1509 6.7 204 2208 0.6 18	17 Th 0309 6.4 195 0959 -0.1 -3 1530 7.2 219 2242 -0.2 -6	2 F 0312 5.4 165 0942 0.1 3 1519 6.3 192 2226 0.1 3	17 Sa 0342 5.7 174 1028 -0.5 -15 1603 6.4 195 2310 -0.6 -18					
	3 M 0240 6.6 201 0924 0.7 19 1500 6.8 207 2151 0.8 24	18 Tu 0235 7.0 213 0930 0.1 3 1458 7.5 229 2208 0.2 6	3 Th 0337 5.9 180 1008 0.6 18 1547 6.6 201 2250 0.6 18	18 F 0404 6.2 189 1050 -0.1 -3 1625 6.9 210 2334 -0.1 -3	3 Sa 0352 5.3 162 1023 0.1 3 1557 6.3 192 2308 0.1 3	18 Su 0436 5.6 171 1119 -0.4 -12 1657 6.2 189 2359 -0.5 -15					
	4 Tu 0322 6.4 195 1001 0.7 21 1539 6.8 207 2233 0.8 24	19 W 0328 6.8 207 1021 0.2 6 1551 7.4 226 2302 0.2 6	4 F 0419 5.8 177 1046 0.6 18 1626 6.6 201 2333 0.6 18	19 Sa 0500 6.0 183 1143 0.0 0 1722 6.7 204	4 Su 0434 5.3 162 1107 0.1 3 1722 6.7 204	19 M 0530 5.6 171 1211 -0.3 -9 1751 6.0 183					
5 W 0405 6.2 189 1038 0.8 24 1620 6.7 204 2315 0.9 27	20 Th 0424 6.6 201 1113 0.3 9 1647 7.2 219 2356 0.3 9	5 Sa 0504 5.7 174 1129 0.5 15 1709 6.5 198	20 Su 0027 -0.1 -3 0558 5.9 180 1238 0.1 3 1820 6.5 198	5 M 0519 5.3 162 1155 0.0 0 1727 6.2 189	20 Tu 0048 -0.5 -15 0625 5.5 168 1304 -0.3 -9 1846 5.8 177						
6 Th 0450 6.1 186 1117 0.8 24 1703 6.7 204	21 F 0521 6.4 195 1206 0.3 9 1745 7.0 213	6 Su 0019 0.6 18 0552 5.6 171 1217 0.5 15 1759 6.5 198	21 M 0120 -0.1 -3 0656 5.9 180 1333 0.2 6 1918 6.3 192	6 Tu 0040 0.0 0 0610 5.4 165 1249 0.1 3 1823 6.1 186	21 W 0138 -0.5 -15 0720 5.5 168 1358 -0.2 -6 1942 5.6 171						
7 F 0000 0.9 27 0537 5.9 180 1159 0.8 24 1749 6.6 201	22 Sa 0052 0.4 12 0621 6.3 192 1302 0.4 12 1846 6.9 210	7 M 0109 0.6 18 0644 5.7 174 1312 0.5 15 1856 6.5 198	22 Tu 0213 -0.1 -3 0753 5.9 180 1429 0.2 6 2015 6.2 189	7 W 0131 -0.1 -3 0705 5.5 168 1349 0.1 3 1924 6.1 186	22 Th 0228 -0.5 -15 0814 5.6 171 1453 -0.2 -6 2037 5.5 168						
8 Sa 0049 0.9 27 0627 5.8 177 1247 0.8 24 1841 6.6 201	23 Su 0147 0.4 12 0721 6.2 189 1359 0.5 15 1946 6.8 207	8 Tu 0202 0.5 15 0740 5.8 177 1412 0.5 15 1956 6.5 198	23 W 0305 -0.1 -3 0849 6.0 183 1525 0.1 3 2111 6.1 186	8 Th 0226 -0.1 -3 0802 5.8 177 1451 0.0 0 2025 6.0 183	23 F 0318 -0.5 -15 0907 5.7 174 1547 -0.2 -6 2130 5.4 165						
9 Su 0141 0.9 27 0721 5.8 177 1342 0.8 24 1937 6.6 201	24 M 0243 0.3 9 0821 6.3 192 1457 0.5 15 2045 6.7 204	9 W 0258 0.4 12 0836 6.0 183 1515 0.5 15 2055 6.6 201	24 Th 0357 -0.2 -6 0942 6.2 189 1620 0.1 3 2203 6.1 186	9 F 0322 -0.2 -6 0900 6.0 183 1554 0.0 0 2125 6.0 183	24 Sa 0408 -0.5 -15 0958 5.8 177 1641 -0.3 -9 2222 5.4 165						
10 M 0236 0.9 27 0816 5.9 180 1441 0.8 24 2034 6.7 204	25 Tu 0338 0.3 9 0918 6.4 195 1554 0.4 12 2141 6.7 204	10 Th 0353 0.3 9 0931 6.3 192 1616 0.4 12 2152 6.7 204	25 F 0446 -0.2 -6 1032 6.3 192 1713 0.0 0 2253 6.1 186	10 Sa 0419 -0.3 -9 0956 6.3 192 1655 -0.2 -6 2222 6.1 186	25 Su 0456 -0.5 -15 1047 5.9 180 1732 -0.4 -12 2312 5.4 165						
11 Tu 0332 0.8 24 0911 6.1 186 1542 0.7 21 2129 6.9 210	26 W 0431 0.2 6 1011 6.6 201 1649 0.4 12 2233 6.7 204	11 F 0448 0.2 6 1024 6.6 201 1716 0.2 6 2247 6.7 204	26 Sa 0533 -0.2 -6 1119 6.5 198 1803 -0.1 -3 2341 6.0 183	11 Su 0515 -0.4 -12 1051 6.6 201 1754 -0.3 -9 2318 6.1 186	26 M 0544 -0.5 -15 1134 6.0 183 1822 -0.4 -12 2359 5.4 165						
12 W 0427 0.7 21 1004 6.4 195 1642 0.6 18 2223 7.0 213	27 Th 0521 0.1 3 1101 6.7 204 1741 0.3 9 2322 6.7 204	12 Sa 0542 0.0 0 1116 7.0 213 1814 0.0 0 2340 6.8 207	27 Su 0618 -0.2 -6 1204 6.5 198 1850 -0.1 -3	12 M 0609 -0.5 -15 1144 6.8 207 1851 -0.5 -15	27 Tu 0629 -0.5 -15 1218 6.1 186 1908 -0.4 -12						
13 Th 0521 0.5 15 1055 6.7 204 1739 0.4 12 2315 7.2 219	28 F 0608 0.1 3 1148 6.8 207 1830 0.3 9	13 Su 0634 -0.1 -3 1206 7.2 219 1910 -0.1 -3	28 M 0026 6.0 183 0701 -0.1 -3 1246 6.5 198 1936 -0.1 -3	13 Tu 0011 6.1 186 0702 -0.6 -18 1236 6.9 210 1945 -0.6 -18	28 W 0043 5.3 162 0713 -0.4 -12 1300 6.1 186 1953 -0.4 -12						
14 F 0612 0.3 9 1144 7.0 213 1835 0.3 9	29 Sa 0008 6.7 204 0652 0.2 6 1231 6.9 210 1917 0.3 9	14 M 0032 6.8 207 0725 -0.2 -6 1256 7.4 226 2004 -0.2 -6	29 Tu 0109 5.8 177 0743 0.0 0 1326 6.5 198 2019 0.0 0	14 W 0104 6.0 183 0755 -0.6 -18 1327 6.9 210 2038 -0.6 -18	29 Th 0126 5.2 158 0756 -0.4 -12 1340 6.0 183 2037 -0.4 -12						
15 Sa 0005 7.3 223 0702 0.2 6 1231 7.3 223 1929 0.2 6	30 Su 0052 6.6 201 0734 0.3 9 1313 6.9 210 2001 0.4 12	15 Tu 0123 6.7 204 0816 -0.2 -6 1346 7.4 226 2057 -0.2 -6	30 W 0151 5.7 174 0823 0.1 3 1405 6.4 195 2102 0.1 3	15 Th 0157 6.0 183 0846 -0.6 -18 1418 6.8 207 2130 -0.6 -18	30 F 0207 5.1 155 0839 -0.4 -12 1418 6.0 183 2120 -0.4 -12						
	31 M 0134 6.4 195 0814 0.4 12 1352 6.8 207 2044 0.4 12				31 Sa 0247 5.1 155 0921 -0.4 -12 1456 6.0 183 2202 -0.4 -12						

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Ocean City, Maryland, 2016

Times and Heights of High and Low Waters

January				February				March							
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height				
h m	ft	cm		h m	ft	cm		h m	ft	cm					
1 F 0614	0.4	12		16 Sa 0617	-0.2	-6		1 M 0101	2.9	88		16 W 0144	3.5	107	
1219	3.0	91		1219	3.4	104		0719	0.6	18		0640	0.6	18	
1847	0.3	9	Sa	1846	-0.4	-12		1317	2.6	79	Tu	0813	0.0	0	
			O					1932	0.3	9		1405	2.7	82	
								2020	-0.2	-6		2020			
2 Sa 0054	2.8	85	17 Su 0059	3.4	104	2 Tu 0158	3.0	91	17 W 0253	3.5	107	2 W 0112	3.1	94	
1311	2.8	85	0721	-0.1	-3	0815	0.6	18	0921	0.1	3	0735	0.7	21	
1933	0.3	9	1319	3.1	94	1413	2.5	76	1512	2.6	79	1332	2.6	79	
			1942	-0.4	-12	2023	0.3	9	2123	-0.2	-6	1943	0.4	12	
3 Su 0150	2.9	88	18 M 0205	3.5	107	3 W 0255	3.1	94	18 Th 0357	3.5	107	3 Th 0212	3.2	98	
0804	0.6	18	0827	0.0	0	0913	0.6	18	1027	0.0	0	0834	0.6	18	
1405	2.7	82	1423	2.9	88	1510	2.6	79	1613	2.7	82	1432	2.7	82	
2020	0.3	9	2040	-0.4	-12	2117	0.2	6	2223	-0.3	-9	2040	0.3	9	
4 M 0246	3.0	91	19 Tu 0310	3.6	110	4 Th 0349	3.4	104	19 F 0454	3.6	110	4 F 0311	3.4	104	
0900	0.6	18	0934	0.0	0	1010	0.4	12	1124	-0.1	-3	0932	0.5	15	
1459	2.7	82	1527	2.8	85	1604	2.7	82	1707	2.8	85	1531	2.8	85	
2108	0.3	9	2139	-0.4	-12	2210	0.0	0	2319	-0.4	-12	2138	0.1	3	
5 Tu 0338	3.2	98	20 W 1041	3.7	113	5 F 1040	3.6	110	20 Sa 1211	3.6	110	5 Sa 1047	3.7	113	
0955	0.5	15	1039	-0.1	-3	1103	0.2	6	1755	2.9	88	1029	0.3	9	
1550	2.7	82	1626	2.8	85	1655	2.9	88				1625	3.1	94	
2157	0.2	6	2237	-0.5	-15	2303	-0.2	-6				2236	-0.2	-6	
6 W 0426	3.5	107	21 Th 1137	3.8	116	6 Sa 1153	3.9	119	21 Su 1252	-0.5	-15	6 Su 1121	4.0	122	
1048	0.4	12	1720	2.8	85	1744	3.1	94	1252	-0.2	-6	1211	0.0	0	
1639	2.8	85	2332	-0.6	-18	2353	-0.5	-15	1839	3.0	91	1718	3.4	104	
2245	0.0	0										2330	-0.5	-15	
7 Th 0512	3.7	113	22 F 1228	3.9	119	7 Su 1811	4.1	125	22 M 1239	-0.5	-15	7 M 1921	4.2	128	
1136	0.2	6	1228	-0.4	-12	1833	3.3	101	1239	-0.3	-9	1808	3.7	113	
1725	2.9	88													
2332	-0.2	-6													
8 F 0557	4.0	122	23 Sa 0645	-0.7	-21	8 M 0704	-0.7	-21	23 Tu 0748	-0.5	-15	8 Tu 0639	-0.7	-21	
1222	0.0	0	Sa	1313	-0.4	-12	M	1325	-0.5	-15	1404	-0.2	-6		
1811	3.0	91	O	1858	3.0	91	1921	3.5	107						
9 Sa 0018	-0.4	-12	24 Su 0730	-0.7	-21	9 Tu 0751	-0.9	-27	24 W 0826	-0.4	-12	9 W 0728	-0.9	-27	
0642	4.1	125	1355	3.9	119	1410	4.4	134	1440	3.6	110	1340	4.4	134	
1306	-0.2	-6							2041	3.3	101	1949	4.2	128	
1857	3.2	98	1944	3.0	91										
10 Su 0103	-0.5	-15	25 M 0152	-0.7	-21	10 W 0220	-0.9	-27	25 Th 0904	-0.3	-9	10 Th 0205	-1.0	-30	
0727	4.3	131	0813	3.9	119	0838	4.3	131	0904	3.5	107	0817	4.3	131	
1350	-0.3	-9	1435	-0.4	-12	1456	-0.7	-21	1516	-0.1	-3	1430	-0.8	-24	
1944	3.3	101				2059	3.8	116	2120	3.3	101	2039	4.3	131	
11 M 0148	-0.6	-18	26 Tu 0234	-0.5	-15	11 Th 0311	-0.9	-27	26 F 0942	-0.1	-3	11 F 0257	-0.9	-27	
0813	4.3	131	0854	3.7	113	0926	4.2	128	1544	-0.7	-21	0906	4.1	125	
1435	-0.4	-12	1514	-0.3	-9	1544	-0.7	-21	2150	3.8	116	1553	0.0	0	
2031	3.3	101						2201	3.3	101					
12 Tu 0236	-0.6	-18	27 W 0934	-0.4	-12	12 F 1014	-0.7	-21	27 Sa 1021	0.1	3	12 Sa 0351	-0.8	-24	
0858	4.3	131	1553	-0.2	-6	1633	-0.6	-18	1632	0.2	6	0955	3.8	116	
1521	-0.4	-12						2242	3.2	98					
2119	3.4	104	2152	3.0	91										
13 W 0325	-0.6	-18	28 Th 1014	-0.2	-6	13 Sa 1105	-0.5	-15	28 Su 1101	0.3	9	13 Su 0447	-0.5	-15	
0945	4.2	128	1633	0.0	0	1726	-0.5	-15	1713	0.3	9	1047	3.5	107	
1608	-0.5	-15				2337	3.7	113	2326	3.2	98	1701	-0.5	-15	
2209	3.4	104	2319	2.9	88				2317	4.0	122	2252	3.5	107	
14 Th 0419	-0.4	-12	29 F 1055	0.1	3	14 Su 1159	-0.3	-9	29 M 1821	0.4	12	14 M 1759	-0.3	-9	
1033	4.0	122	1715	0.1	3	1159	3.2	98				1141	3.2	98	
1659	-0.4	-12						1821	-0.4	-12	1758	-0.3	-9		
2301	3.4	104	2319	2.9	88										
15 F 0516	-0.3	-9	30 Sa 1138	0.3	9	15 M 1758	0.2	6	15 W 1920	-0.3	-9	15 Tu 1859	-0.1	-3	
1124	3.7	113	1225	2.7	82	0706	-0.1	-3	0706	0.0	0	0650	0.0	0	
1751	-0.4	-12				1300	2.9	88	1242	2.9	88	1242	2.9	88	
2358	3.4	104	2319	2.9	88										
			31 Su 0625	0.5	15	16 O	0008	2.9	88	31 W 1843	0.3	9	31 Th 0702	0.7	21
			1225	2.7	82	0706	-0.1	-3	1184	0.4	12	1184	0.6	18	
						1920	-0.3	-9				0702	0.7	21	

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Ocean City, Maryland, 2016

Times and Heights of High and Low Waters

April				May				June			
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height
1 F 0132 3.4 104 0759 0.6 18 1359 2.9 88 2009 0.4 12	16 Sa 0309 3.3 101 0934 0.3 9 1538 2.9 88 2147 0.3 9	1 Su 0200 3.7 113 0826 0.3 9 1434 3.4 104 2045 0.3 9	16 M 0322 3.1 94 0938 0.4 12 1554 3.2 98 2210 0.5 15	1 W 0332 3.6 110 0947 -0.2 -6 1607 4.2 128 2231 -0.1 -3	16 Th 0413 2.9 88 1019 0.4 12 1644 3.7 113 2310 0.5 15						
2 Sa 0234 3.6 110 0857 0.5 15 1501 3.1 94 2110 0.2 6	17 Su 0405 3.3 101 1025 0.3 9 1628 3.1 94 2242 0.2 6	2 M 0301 3.8 116 0921 0.1 3 1533 3.7 113 2148 0.0 0	17 Tu 0410 3.1 94 1022 0.4 12 1637 3.4 104 2300 0.4 12	2 Th 0429 3.6 110 1042 -0.4 -12 1702 4.5 137 2330 -0.3 -9	17 F 0458 3.0 91 1103 0.3 9 1726 3.9 119 2354 0.4 12						
3 Su 0333 3.8 116 0954 0.2 6 1558 3.4 104 2211 -0.1 -3	18 M 0451 3.3 101 1107 0.3 9 1709 3.3 101 2329 0.2 6	3 Tu 0359 3.9 119 1016 -0.1 -3 1629 4.1 125 2249 -0.2 -6	18 W 0453 3.1 94 1102 0.3 9 1717 3.6 110 2343 0.3 9	3 F 0524 3.6 110 1135 -0.6 -18 1756 4.7 143	18 Sa 0542 3.0 91 1145 0.2 6 1809 4.0 122						
4 M 0429 4.0 122 1048 -0.1 -3 1652 3.8 116 2309 -0.4 -12	19 Tu 0531 3.3 101 1145 0.2 6 1748 3.5 107	4 W 0454 3.9 119 1109 -0.4 -12 1722 4.4 134 2346 -0.5 -15	19 Th 0534 3.1 94 1141 0.2 6 1757 3.8 116	4 Sa 0026 -0.5 -15 0618 3.6 110 1227 -0.7 -21 ● 1849 4.8 146	19 Su 0036 0.3 9 0625 3.1 94 1227 0.1 3 1851 4.2 128						
5 Tu 0522 4.1 125 1139 -0.4 -12 1744 4.1 125	20 W 0011 0.1 3 0610 3.3 101 1220 0.1 3 1827 3.7 113	5 Th 0547 4.0 122 1200 -0.6 -18 1815 4.7 143	20 F 0023 0.2 6 0615 3.2 98 1219 0.2 6 1837 4.0 122	5 Su 0120 -0.6 -18 0711 3.6 110 1318 -0.7 -21 1941 4.8 146	20 M 0116 0.2 6 0709 3.2 98 1309 0.1 3 1933 4.3 131						
6 W 0004 -0.7 -21 0613 4.2 128 1228 -0.6 -18 1836 4.4 134	21 Th 0049 0.0 0 0648 3.4 104 1255 0.1 3 1905 3.8 116	6 F 0041 -0.7 -21 0640 3.9 119 1250 -0.7 -21 ● 1907 4.9 149	21 Sa 0102 0.2 6 0656 3.2 98 1257 0.2 6 ● 1917 4.1 125	6 M 0211 -0.6 -18 0804 3.5 107 1409 -0.6 -18 2032 4.7 143	21 Tu 0157 0.1 3 0752 3.2 98 1351 0.1 3 2015 4.3 131						
7 Th 0057 -0.9 -27 0704 4.2 128 1316 -0.8 -24 ● 1927 4.6 140	22 F 0127 0.0 0 0727 3.4 104 1330 0.1 3 ○ 1944 3.9 119	7 Sa 0134 -0.8 -24 0732 3.9 119 1340 -0.8 -24 1959 4.9 149	22 Su 0141 0.1 3 0737 3.2 98 1336 0.2 6 1957 4.1 125	7 Tu 0302 -0.5 -15 0856 3.4 104 1500 -0.5 -15 2123 4.5 137	22 W 0239 0.1 3 0836 3.3 101 1434 0.1 3 2058 4.3 131						
8 F 0149 -0.9 -27 0754 4.1 125 1404 -0.8 -24 2018 4.7 143	23 Sa 0204 0.0 0 0806 3.3 101 1406 0.2 6 2023 4.0 122	8 Su 0227 -0.8 -24 0824 3.7 113 1430 -0.7 -21 2051 4.8 146	23 M 0220 0.2 6 0818 3.2 98 1415 0.2 6 2038 4.1 125	8 W 0353 -0.3 -9 0947 3.3 101 1552 -0.2 -6 2212 4.2 128	23 Th 0322 0.1 3 0920 3.3 101 1520 0.1 3 2141 4.2 128						
9 Sa 0242 -0.9 -27 0845 4.0 122 1453 -0.8 -24 2110 4.7 143	24 Su 0243 0.1 3 0845 3.3 101 1443 0.2 6 2102 3.9 119	9 M 0320 -0.6 -18 0917 3.5 107 1521 -0.5 -15 2143 4.6 140	24 Tu 0301 0.2 6 0900 3.2 98 1456 0.3 9 2119 4.1 125	9 Th 0445 -0.1 -3 1039 3.2 98 1647 0.0 0 2301 3.9 119	24 F 0408 0.1 3 1006 3.3 101 1610 0.2 6 2227 4.1 125						
10 Su 0336 -0.7 -21 0936 3.7 113 1544 -0.6 -18 2202 4.5 137	25 M 0323 0.2 6 0924 3.2 98 1522 0.4 12 2142 3.9 119	10 Tu 0414 -0.4 -12 1009 3.3 101 1615 -0.3 -9 2235 4.2 128	25 W 0344 0.3 9 0942 3.1 94 1540 0.4 12 2202 4.1 125	10 F 0537 0.0 0 1131 3.1 94 1743 0.3 9 2352 3.5 107	25 Sa 0455 0.1 3 1055 3.4 104 1704 0.3 9 2315 4.0 122						
11 M 0432 -0.5 -15 1028 3.4 104 1638 -0.4 -12 2256 4.2 128	26 Tu 0406 0.3 9 1005 3.1 94 1604 0.5 15 2225 3.8 116	11 W 0510 -0.2 -6 1103 3.1 94 1713 0.0 0 2329 3.9 119	26 Th 0430 0.3 9 1027 3.1 94 1628 0.4 12 2247 4.0 122	11 Sa 0627 0.2 6 1226 3.0 91 1840 0.5 15	26 Su 0545 0.1 3 1148 3.5 107 1803 0.3 9						
12 Tu 0530 -0.2 -6 1123 3.2 98 1736 -0.1 -3 2354 3.9 119	27 W 0452 0.5 15 1048 3.0 91 1651 0.6 18 2310 3.7 113	12 Th 0608 0.1 3 1200 3.0 91 1812 0.2 6	27 F 0519 0.3 9 1115 3.1 94 1722 0.5 15 2337 3.9 119	12 Su 0044 3.3 101 0716 0.3 9 1323 3.0 91 ● 1937 0.6 18	27 M 0008 3.8 116 0637 0.0 0 1246 3.6 110 ● 1904 0.3 9						
13 W 0632 0.0 0 1223 2.9 88 ● 1837 0.1 3	28 Th 0542 0.5 15 1136 2.9 88 1744 0.6 18	13 F 0026 3.6 110 0705 0.2 6 1301 2.9 88 ● 1914 0.4 12	28 Sa 0610 0.3 9 1209 3.2 98 1820 0.5 15	13 M 0139 3.1 94 0803 0.4 12 1420 3.1 94 2034 0.7 21	28 Tu 0105 3.6 110 0730 0.0 0 1348 3.8 116 2007 0.3 9						
14 Th 0057 3.6 110 0734 0.2 6 1329 2.8 85 1941 0.3 9	29 F 0001 3.7 113 0635 0.5 15 1231 3.0 91 ● 1842 0.6 18	14 Sa 0127 3.3 101 0759 0.3 9 1405 2.9 88 2015 0.5 15	29 Su 0031 3.8 116 0703 0.2 6 1308 3.3 101 ● 1922 0.4 12	14 Tu 0233 2.9 88 0849 0.4 12 1512 3.3 101 2130 0.7 21	29 W 0207 3.4 104 0826 -0.1 -3 1450 4.0 122 2112 0.2 6						
15 F 0204 3.4 104 0836 0.3 9 1437 2.8 85 2045 0.3 9	30 Sa 0059 3.6 110 0730 0.5 15 1332 3.1 94 1943 0.5 15	15 Su 0227 3.2 98 0851 0.4 12 1504 3.0 91 2115 0.5 15	30 M 0131 3.7 113 0757 0.1 3 1410 3.6 110 2025 0.3 9	15 W 0325 2.9 88 0934 0.4 12 1600 3.5 107 2222 0.6 18	30 Th 0308 3.3 101 0922 -0.2 -6 1549 4.2 128 2216 0.0 0						
			31 Tu 0232 3.6 110 0852 0.0 0 1510 3.9 119 2128 0.1 3								

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Ocean City, Maryland, 2016

Times and Heights of High and Low Waters

July				August				September			
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height
1 F 0408 1019 1646 2317	h m 3.3 -0.4 4.4 -0.1	ft 101	cm 12	16 Sa 0422 1026 1655 2321	h m 2.9 0.4 3.9 0.6	ft 88	cm 12	1 M 0000 0545 1155 1818	h m 0.0 3.3 -0.3 4.4	ft 101	cm 0
	1026	0.4	12		0635	3.4	104		0526	3.4	104
	1655	3.9	119		1245	-0.4	-12		1133	0.2	6
	2321	0.6	18		1906	4.4	134		1756	4.4	134
2 Sa 0505 1115 1740	0509	3.0	91	2 Tu 0049 0635 1245 ● 1906	049 0635 1245 4.4	-0.1 3.4 -0.4 4.4	-3 104 -12 134	17 W 0019 0613 1221 1841	0019 0613 1221 4.5	0.3 3.6 0.0 137	9
	1113	0.3	9		1308	-0.2	-6		1841	4.5	137
	1740	4.6	140		1927	4.6	140		2006	4.0	122
	0013	-0.3	-9		2036	4.2	128		2022	0.1	3
3 Su 0600 1209 1833	0555	3.2	98	3 W 0006 0724 1332 1951	0133 0724 1332 4.3	-0.2 3.5 -0.4 4.3	-6 107 -12 131	18 Th 0103 0700 1308 ○ 1927	0103 0700 1308 4.6	0.0 3.9 -6 140	0
	1159	0.1	3		1951	4.3	131		1927	4.6	140
	1824	4.3	131		2046	3.9	119		2046	3.9	119
	0105	-0.4	-12		2059	4.5	137		2059	4.5	137
4 M 0653 1300 ● 1924	0049	0.2	6	4 Th 0215 0810 1418 ○ 1908	0215 0810 1418 4.4	-0.2 3.5 -0.2 134	-6 107 -6 134	19 F 0146 0747 1356 2012	0146 0747 1356 4.6	-0.1 4.1 -0.3 140	-3
	0641	3.3	101		2035	4.2	128		2012	4.6	140
	1244	0.0	0		2125	3.7	113		2125	3.7	113
	1908	4.4	134		2217	3.5	119		2217	3.9	119
5 Tu 0744 1350 2013	0131	0.1	3	5 F 0256 0854 1502 2116	0256 0854 1502 4.0	-0.1 3.5 -0.1 122	-3 107 -3 122	20 Sa 0230 0835 1446 2059	0230 0835 1446 4.5	-0.2 4.2 -0.3 137	-6
	0726	3.4	104		2116	4.0	122		2059	4.5	137
	1329	-0.1	-3		2205	3.5	107		2205	3.5	107
	1952	4.5	137		2217	3.9	119		2217	3.9	119
6 W 0834 1439 2100	0214	0.0	0	6 Sa 0336 0938 1548 2158	0336 0938 1548 3.7	0.0 3.5 0.1 113	0	21 Tu 0415 1028 1647 2246	0415 1028 1647 4.3	0.5 3.7 0.7 113	15
	0812	3.6	110		2158	3.7	113		2246	3.3	101
	1415	-0.1	-3		2231	3.5	107		2231	3.6	110
	2036	4.5	137		2231	3.1	94		2231	3.6	110
7 Th 0923 1528 2146	0257	-0.1	-3	7 Su 0417 1021 1634 2239	0417 1021 1634 3.5	0.2 3.5 0.4 107	6	22 W 0403 1014 1633 2235	0403 1014 1633 4.0	-0.2 4.3 0.0 122	21
	0858	3.7	113		2239	3.5	107		2235	4.0	122
	1502	-0.1	-3		2331	3.1	94		2331	3.1	94
	2121	4.4	134		2331	3.1	94		2331	3.1	94
8 F 1010 1618 2230	0342	-0.1	-3	8 M 0459 1106 1723 2322	0459 1106 1723 3.3	0.4 3.4 0.6 104	12	23 Th 0454 1108 1732 2328	0454 1108 1732 3.7	-0.1 4.3 0.2 113	24
	0945	3.8	116		2322	3.3	101		2328	3.7	113
	1553	0.0	0		2328	3.7	113		2328	3.7	113
	2207	4.2	128		2328	3.7	113		2328	3.7	113
9 Sa 1057 1709 2315	0430	-0.1	-3	9 Tu 0542 1153 1814 2255	0542 1153 1814 0.8	0.5 3.4 0.1 24	15	24 F 0020 1205 1835 ○ 1923	0020 1205 1835 0.3	3.0 4.2 0.3 134	91
	1035	3.8	116		2255	4.0	122		2255	4.0	122
	1648	0.1	3		2255	4.0	122		2255	4.0	122
	2255	4.0	122		2255	4.0	122		2255	4.0	122
10 Su 1146 1802	0520	-0.1	-3	10 M 0009 0627 1245 ○ 1907	0009 0627 1245 0.9	3.0 0.6 3.4 27	91	25 Su 0026 0646 1309 1940	0026 0646 1309 0.4	3.4 0.1 4.1 12	104
	1128	3.9	119		1907	3.7	113		1940	4.0	12
	1747	0.2	6		1907	0.9	27		1940	0.4	12
	2347	3.7	113		2047	0.5	15		2047	0.5	15
11 M 0629 1238 ● 1856	0612	0.0	0	11 Th 0101 0715 1341 2002	0101 0715 1341 1.0	2.9 0.7 3.4 30	88	26 M 0116 0725 1355 2019	0116 0725 1355 1.1	2.9 0.9 3.6 34	98
	1225	3.9	119		2002	1.0	30		2019	1.1	34
	1849	0.3	9		2047	0.5	15		2047	0.5	15
	0	9	21		2115	1.0	30		2115	1.0	30
12 Tu 1332 1950	0044	3.5	107	12 F 0157 0805 1438 2059	0157 0805 1438 1.0	2.8 0.7 3.5 30	85	27 M 0314 0918 1547 2153	0314 0918 1547 0.4	3.1 0.7 4.0 27	101
	0707	0.0	0		2059	1.0	30		2153	0.4	12
	1328	3.9	119		2153	0.4	12		2153	0.4	12
	1953	0.3	9		2153	0.4	12		2153	0.4	12
13 W 0801 1427 2046	0146	3.3	101	13 Sa 0253 0858 1532 2154	0253 0858 1532 0.9	2.9 0.7 3.7 27	88	28 Tu 0343 1013 1622 2252	0343 1013 1622 0.3	3.1 0.5 4.2 25	107
	0804	0.0	0		2154	0.9	27		2252	0.3	15
	1432	4.0	122		2252	0.3	9		2252	0.5	15
	2059	0.3	9		2259	0.5	15		2259	0.5	15
14 Th 1520 2141	0251	3.2	98	14 Su 0347 1051 1622 2246	0347 1051 1622 0.7	3.0 0.6 3.9 21	98	29 W 0441 1049 1714 2344	0441 1049 1714 0.2	3.2 0.0 4.2 6	113
	0903	-0.1	-3		2246	0.7	21		2344	0.2	6
	1535	4.2	128		2344	0.2	6		2344	0.2	6
	2204	0.2	6		2344	0.2	6		2344	0.2	6
15 F 0937 1609 2233	0353	3.1	94	15 M 0438 1043 1710 2334	0438 1043 1710 0.5	3.2 0.4 4.2 15	98	30 Th 1142 1802 1813	0532 1142 1802 4.2	3.4 -0.1 4.2 128	104
	1002	-0.2	-6		2334	0.5	15		1813	4.6	140
	1633	4.3	131		2334	0.5	15		1813	4.6	140
	2305	0.1	3		2334	0.5	15		1813	4.6	140
31 Su	0451	3.2	98	31 W 1100 1727	0028 0618 1230 1845	0.1 3.5 -0.1 4.2	3	30 F 1159 1813	0028 0618 1230 4.2	0.1 3.5 -3 128	119
	1100	-0.3	-9		1727	4.4	134		1813	4.6	134

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Ocean City, Maryland, 2016

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	0112	0.2 6	16	0048	-0.4 -12	1	0149	0.2 6	16	0201	-0.8 -24
	0717	4.0 122	Su	0700	4.9 149	Tu	0808	4.1 125	W	0824	5.0 152
	1334	0.1 3		1322	-0.5 -15		1428	0.3 9		1452	-0.6 -18
	1937	3.8 116		1924	4.4 134		2026	3.4 104		2047	3.7 113
2 Su	0147	0.2 6	17	0135	-0.5 -15	2	0225	0.3 9	17	0253	-0.6 -18
	0756	4.0 122	M	0751	5.1 155	W	0847	4.1 125	Th	0917	4.8 146
	1413	0.2 6		1414	-0.5 -15		1508	0.4 12		1546	-0.4 -12
	2015	3.7 113		2015	4.2 128		2105	3.3 101		2140	3.5 107
3 M	0222	0.3 9	18	0223	-0.5 -15	3	0304	0.4 12	18	0346	-0.4 -12
	0835	4.1 125	Tu	0842	5.1 155	Th	0927	4.0 122	F	1010	4.5 137
	1452	0.3 9		1507	-0.4 -12		1550	0.6 18		1643	-0.2 -6
	2054	3.6 110		2106	4.0 122		2146	3.2 98		2235	3.3 101
4 Tu	0258	0.4 12	19	0314	-0.4 -12	4	0345	0.6 18	19	0444	-0.2 -6
	0915	4.0 122	W	0935	4.9 149	F	1009	4.0 122	Sa	1105	4.2 128
	1533	0.5 15		1603	-0.2 -6		1635	0.7 0		1742	0.0 0
	2133	3.4 104		2158	3.7 113		2229	3.1 94		2332	3.1 94
5 W	0336	0.6 18	20	0407	-0.2 -6	5	0430	0.7 21	20	0544	0.1 3
	0955	4.0 122	Th	1029	4.7 143	Sa	1053	3.9 119	Su	1201	3.8 116
	1616	0.7 21		1702	0.0 0		1724	0.8 24		1841	0.1 3
	2214	3.3 101		2254	3.5 107		2316	3.0 91			
6 Th	0417	0.7 21	21	0505	0.0 0	6	0521	0.8 24	21	0034	3.0 91
	1038	3.9 119	F	1126	4.4 134	Su	1142	3.8 116	M	0647	0.3 9
	1703	0.9 27		1804	0.2 6		1815	0.8 24	M	1302	3.5 107
	2257	3.1 94		2353	3.2 98				O	1938	0.3 9
7 F	0503	0.9 27	22	0607	0.2 6	7	0009	3.0 91	22	0141	3.0 91
	1124	3.8 116	Sa	1228	4.1 125	M	0617	0.8 24	Tu	0750	0.4 12
	1754	1.0 30		1908	0.4 12		1236	3.7 113		1404	3.3 101
	2345	3.0 91					O	1908		2033	0.3 9
8 Sa	0553	1.0 30	23	0100	3.1 94	8	0108	3.1 94	23	0246	3.1 94
	1216	3.7 113	Su	0711	0.4 12	Tu	0716	0.7 21	W	0853	0.5 15
	1847	1.1 34		1335	3.8 116		1334	3.7 113		1502	3.2 98
				2011	0.4 12		2002	0.6 18		2123	0.3 9
9 Su	0040	3.0 91	24	0211	3.1 94	9	0209	3.3 101	24	0341	3.2 98
	0649	1.0 30	M	0817	0.5 15	W	0818	0.6 18	Th	0952	0.5 15
	1313	3.7 113		1442	3.7 113		1434	3.8 116		1553	3.1 94
	1942	1.0 30		2111	0.4 12		2056	0.4 12		2208	0.3 9
10 M	0141	3.1 94	25	0317	3.2 98	10	0308	3.6 110	25	0426	3.4 104
	0747	0.9 27	Tu	0921	0.5 15	Th	0919	0.4 12	Sa	1045	0.4 12
	1413	3.8 116		1541	3.6 110		1531	3.9 119		1637	3.1 94
	2038	0.9 27		2204	0.4 12		2149	0.1 3		2250	0.2 6
11 Tu	0241	3.3 101	26	0411	3.4 104	11	0404	4.0 122	11	0339	4.0 122
	0846	0.7 21	W	1020	0.4 12	Tu	1020	0.1 3	Sa	0959	0.0 0
	1510	4.0 122		1630	3.6 110		1625	4.0 122		1558	3.5 107
	2132	0.6 18		2249	0.3 9		2241	-0.2 -6		2213	-0.4 -12
12 W	0338	3.6 110	27	0455	3.6 110	12	0456	4.4 134	12	0529	4.6 140
	0945	0.5 15	Th	1111	0.4 12	Sa	1118	-0.2 -6	M	1157	-0.5 -15
	1604	4.2 128		1711	3.6 110		1718	4.0 122	M	1748	3.6 110
	2223	0.4 12		2328	0.3 9		2332	-0.5 -15			
13 Th	0430	3.9 119	28	0534	3.7 113	13	0548	4.8 146	28	0006	0.1 3
	1043	0.2 6	F	1155	0.3 9	Su	1213	-0.4 -12	M	0624	3.9 119
	1655	4.3 131		1750	3.6 110		1810	4.0 122	M	1252	-0.7 -21
	2313	0.1 3							O	1842	3.5 107
14 F	0520	4.3 131	29	0004	0.2 6	14	0022	-0.7 -21	29	0043	0.0 0
	1137	-0.1 -3	Sa	0612	3.9 119	M	0640	5.0 152	Th	0703	4.0 122
	1745	4.4 134		1234	0.2 6		1306	-0.6 -18		1327	0.2 6
				1828	3.5 107		O	1902		● 1919	3.2 98
15 Sa	0001	-0.2 -6	30	0039	0.2 6	15	0111	-0.8 -24	30	0121	0.0 0
	0610	4.7 143	Su	0650	4.0 122	Tu	0732	5.1 155	W	0743	4.1 125
	1230	-0.4 -12		1312	0.2 6		1359	-0.6 -18		1405	0.2 6
	O 1834	4.5 137		● 1907	3.5 107		1954	3.9 119		1959	3.1 94
			31	0113	0.2 6						
			M	0728	4.1 125						
				1350	0.2 6						
				1946	3.5 107						

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Baltimore, Maryland, 2016

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 F 0600 0.1 -3 1147 0.8 24 1758 0.1 3 2353 0.9 27	16 Sa 0543 -0.3 -9 1139 1.0 30 1818 -0.1 -3 2350 0.9 27		1 M 0617 -0.2 -6 1248 0.9 27 1934 0.1 3			16 Tu 0030 0.8 24 0659 -0.3 -9 1330 1.2 37 2040 0.0 0		
						16 O 0524 -0.1 -3 1153 1.0 30 1854 0.2 6		
						16 W 0016 1.0 30 0638 0.0 0 1307 1.3 40 2019 0.2 6		
						17 Th 0007 0.8 24 0614 -0.1 -3 1247 1.1 34 1959 0.2 6		
2 Sa 1245 0.8 24 1906 0.1 3	17 Su 0632 -0.4 -12 1243 1.0 30 1936 -0.1 -3		2 Tu 0041 0.7 21 0703 -0.2 -6 1344 0.9 27 2042 0.1 3			2 W 0131 0.8 24 0800 -0.3 -9 1438 1.2 37 2144 0.0 0		
						2 W 0007 0.8 24 0614 -0.1 -3 1247 1.1 34 1959 0.2 6		
						17 Th 0119 1.0 30 0747 0.0 0 1416 1.3 40 2118 0.2 6		
						17 O 0119 1.0 30 0747 0.0 0 1416 1.3 40 2118 0.2 6		
3 Su 0038 0.8 24 0718 -0.2 -6 1344 0.9 27 2016 0.2 6	18 M 0046 0.8 24 0724 -0.4 -12 1349 1.1 34 2051 0.0 0		3 W 0134 0.6 18 0753 -0.3 -9 1438 1.0 30 2144 0.1 3			3 Th 0232 0.8 24 0902 -0.3 -9 1543 1.2 37 2241 0.0 0		
						3 Th 0101 0.8 24 0711 -0.1 -3 1345 1.1 34 2059 0.2 6		
						18 F 0221 1.0 30 0855 0.0 0 1522 1.2 37 2211 0.2 6		
						18 F 0320 1.0 30 0956 0.0 0 1619 1.2 37 2258 0.2 6		
4 M 0126 0.7 21 0759 -0.2 -6 1439 0.9 27 2123 0.2 6	19 Tu 0145 0.7 21 0819 -0.4 -12 1454 1.2 37 2159 -0.1 -3		4 Th 0229 0.6 18 0845 -0.3 -9 1531 1.0 30 2238 0.1 3			4 F 0332 0.8 24 1002 -0.3 -9 1641 1.2 37 2332 0.0 0		
						4 F 0159 0.8 24 0813 -0.1 -3 1444 1.1 34 2153 0.2 6		
						19 Sa 0320 1.0 30 0956 0.0 0 1619 1.2 37 2258 0.2 6		
						19 Sa 0413 1.1 34 1051 0.0 0 1708 1.2 37 2338 0.2 6		
5 Tu 0216 0.7 21 0841 -0.3 -9 1530 1.0 30 2222 0.1 3	20 W 0245 0.7 21 0914 -0.5 -15 1556 1.2 37 2301 -0.1 -3		5 F 0324 0.6 18 0938 -0.3 -9 1621 1.1 34 2326 0.0 0			5 Sa 0427 0.8 24 1057 -0.3 -9 1731 1.2 37 2241 0.1 3		
						5 Sa 0255 0.8 24 0914 -0.1 -3 1541 1.2 37 2241 0.1 3		
						20 Su 0413 1.1 34 1051 0.0 0 1708 1.2 37 2338 0.2 6		
						20 M 0502 1.2 37 1141 0.0 0 1749 1.2 37		
6 W 0306 0.6 18 0925 -0.3 -6 1616 1.1 34 2315 0.1 3	21 Th 0344 0.7 21 1008 -0.5 -15 1653 1.2 37 2355 -0.1 -3		6 Sa 0417 0.7 21 1031 -0.4 -12 1709 1.2 37			6 Su 0016 0.0 0 0518 0.9 27 1147 -0.3 -9 1816 1.2 37		
						6 Su 0350 0.9 27 1014 -0.2 -6 1635 1.2 37 2326 0.1 3		
						21 M 0502 1.2 37 1141 0.0 0 1749 1.2 37		
						21 M 0502 1.2 37 1141 0.0 0 1749 1.2 37		
7 Th 0357 0.6 18 1009 -0.3 -9 1659 1.1 34	22 F 0440 0.7 21 1101 -0.5 -15 1745 1.2 37		7 Su 0010 -0.1 -3 0507 0.7 21 1123 -0.4 -12 1755 1.2 37			7 M 0056 0.0 0 0604 0.9 27 1233 -0.3 -9 1855 1.1 34		
						7 M 0442 1.0 30 1111 -0.2 -6 1726 1.3 40		
						22 Tu 0014 0.2 6 0546 1.2 37 1225 0.0 0 1826 1.2 37		
						22 Tu 0014 0.2 6 0546 1.2 37 1225 0.0 0 1826 1.2 37		
8 F 0003 0.0 0 0446 0.6 18 1053 -0.4 -12 1740 1.2 37	23 Sa 0044 -0.1 -3 0532 0.7 21 1151 -0.5 -15 1832 1.2 37		8 M 0051 -0.1 -3 0557 0.8 24 1214 -0.4 -12 1840 1.2 37			8 Tu 0131 0.0 0 0648 0.9 27 1315 -0.3 -9 1931 1.1 34		
						8 Tu 0008 0.0 0 0534 1.1 34 1207 -0.2 -6 1815 1.3 40		
						23 W 0044 0.2 6 0627 1.3 40 1307 0.0 0 1901 1.2 37		
						23 O 0044 0.2 6 0627 1.3 40 1307 0.0 0 1901 1.2 37		
9 Sa 0046 0.0 0 0534 0.6 18 1138 -0.4 -12 1821 1.2 37	24 Su 0129 -0.1 -3 0621 0.7 21 1239 -0.4 -12 1916 1.2 37		9 Tu 0131 -0.2 -6 0646 0.9 27 1307 -0.4 -12 1926 1.2 37			9 W 0048 0.0 0 0624 1.2 37 1302 -0.3 -9 1902 1.3 40		
						9 W 0048 0.0 0 0624 1.2 37 1302 -0.3 -9 1902 1.3 40		
						24 Th 0111 0.2 6 0706 1.3 40 1347 0.1 3 1934 1.1 34		
						24 Th 0111 0.2 6 0706 1.3 40 1347 0.1 3 1934 1.1 34		
10 Su 0128 -0.1 -3 0621 0.6 18 1225 -0.4 -12 1902 1.3 40	25 M 0209 -0.1 -3 0708 0.7 21 1324 -0.4 -12 1957 1.1 34		10 W 0211 -0.2 -6 0735 0.9 27 1400 -0.4 -12 2011 1.2 37			10 Th 0230 0.0 0 0811 1.0 30 1437 -0.1 -3 2040 1.0 30		
						10 Th 0129 -0.1 -3 0715 1.3 40 1359 -0.2 -6 1949 1.3 40		
						25 F 0138 0.2 6 0743 1.3 40 1427 0.1 3 2009 1.1 34		
						25 F 0138 0.2 6 0743 1.3 40 1427 0.1 3 2009 1.1 34		
11 M 0209 -0.1 -3 0708 0.7 21 1313 -0.4 -12 1946 1.3 40	26 Tu 0246 -0.1 -3 0754 0.8 24 1408 -0.3 -9 2035 1.1 34		11 Th 0252 -0.2 -6 0827 1.0 30 1457 -0.3 -9 2058 1.2 37			11 F 0257 0.0 0 0852 1.0 30 1519 0.0 0 2115 1.0 30		
						11 F 0211 -0.1 -3 0807 1.4 43 1457 -0.2 -6 2037 1.2 37		
						26 Sa 0206 0.1 3 0820 1.4 43 1507 0.2 6 2044 1.1 34		
						26 Sa 0206 0.1 3 0820 1.4 43 1507 0.2 6 2044 1.1 34		
12 Tu 0249 -0.2 -6 0756 0.7 21 1403 -0.4 -12 2031 1.3 40	27 W 0320 -0.1 -3 0839 0.8 24 1452 -0.3 -9 2112 1.0 30		12 F 0334 -0.3 -9 0921 1.1 34 1558 -0.3 -9 2147 1.1 34			12 Sa 0327 -0.1 -3 0933 1.0 30 1604 0.0 0 2152 0.9 27		
						12 Sa 0255 -0.1 -3 0901 1.5 46 1557 -0.1 -3 2127 1.1 34		
						27 Su 0238 0.1 3 0857 1.4 43 1550 0.2 6 2123 1.0 30		
						27 Su 0238 0.1 3 0857 1.4 43 1550 0.2 6 2123 1.0 30		
13 W 0330 -0.2 -6 0847 0.8 24 1458 -0.3 -9 2117 1.2 37	28 Th 0352 -0.1 -3 0925 0.8 24 1537 -0.2 -6 2149 1.0 30		13 Sa 0419 -0.3 -9 1018 1.1 34 1704 -0.2 -6 2237 1.0 30			13 Su 0401 -0.1 -3 1017 1.0 30 1654 0.1 3 2232 0.9 27		
						13 Su 0343 -0.1 -3 0957 1.5 46 1701 0.0 0 2220 1.1 34		
						28 M 0313 0.1 3 0936 1.4 43 1636 0.3 9 2204 1.0 30		
						28 M 0313 0.1 3 0936 1.4 43 1636 0.3 9 2204 1.0 30		
14 Th 0413 -0.3 -9 0940 0.8 24 1557 -0.3 -9 2206 1.1 34	29 F 0423 -0.1 -3 1012 0.8 24 1626 -0.1 -3 2228 0.9 27		14 Su 0508 -0.3 -9 1118 1.1 34 1816 -0.1 -3 2332 0.9 27			14 M 0439 -0.1 -3 1103 1.0 30 1751 0.2 6 2317 0.8 24		
						14 M 0435 -0.1 -3 1056 1.4 43 1808 0.1 3 2316 1.0 30		
						29 Tu 0353 0.2 6 1019 1.4 43 1726 0.3 9 2251 1.0 30		
						29 Tu 0353 0.2 6 1019 1.4 43 1726 0.3 9 2251 1.0 30		
15 F 0457 -0.3 -9 1038 0.9 27 1704 -0.2 -6 2256 1.0 30	30 Sa 0457 -0.2 -6 1102 0.8 24 1721 0.0 0 2308 0.8 24		15 M 0601 -0.3 -9 1223 1.2 37 1929 0.0 0 ● 0			15 Tu 0533 -0.1 -3 1159 1.4 43 1821 0.1 3 2342 1.0 30		
						30 W 0440 0.2 6 1107 1.3 40 1821 0.3 9 2342 1.0 30		
						30 O 0535 0.2 6 1200 1.3 40 1918 0.3 9 ● 0		
						31 Th 0535 0.2 6 1200 1.3 40 1918 0.3 9 ● 0		

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Baltimore, Maryland, 2016

Times and Heights of High and Low Waters

April				May				June										
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height							
1 F 0037 0639 1300 2014	h m 1.0 0.2 1.3 0.3	ft 30 6 40 9	cm 16 Sa 1447 2132	h m 0206 0843 1325 2020	ft 1.3 0.3 1.3 0.4	cm 40 9 46 12	1 Su 0112 0730 1325 2121	h m 1.3 0.4 1.5 0.4	ft 40 12 46 12	cm 46 15 43 12	1 W 0241 0926 1452 2114	h m 1.5 0.5 1.3 0.2	ft 46 15 43 6	cm 55 15 43 12	16 Th 0351 1054 1537 2137	h m 1.8 0.6 1.2 0.4	ft 55 18 37 12	cm 55 18 37 12
2 Sa 0134 0748 1402 2105	1.1 0.2 1.3 0.3	34 6 40 9	17 Su 0303 0945 1542 2214	2 M 0209 0843 1426 2107	1.5 0.4 1.4 0.3	46 12 43 9	2 Tu 0333 1023 1541 2156	1.6 0.5 1.3 0.4	49 15 40 12	2 Th 0344 1054 1552 2202	2.0 0.4 1.3 0.2	61 12 40 6	17 F 0433 1143 1627 2216	1.8 0.6 1.2 0.4	55 18 37 12			
3 Su 0231 0856 1503 2153	1.2 0.2 1.3 0.3	37 6 40 9	18 M 0356 1041 1630 2251	3 Tu 0306 0953 1525 2153	1.4 0.3 1.3 0.4	43 9 43 12	18 W 0420 1115 1626 2229	1.7 0.5 1.2 0.4	52 15 37 12	3 F 0439 1154 1650 2251	2.1 0.4 1.3 0.2	64 12 40 6	18 Sa 0512 1227 1714 2256	1.9 0.6 1.1 0.4	58 18 34 12			
4 M 0326 1001 1600 2238	1.3 0.1 1.4 0.2	40 3 43 6	19 Tu 0443 1130 1711 2323	4 W 0401 1057 1622 2238	1.5 0.3 1.2 0.3	46 9 43 9	19 Th 0502 1202 1708 2302	1.7 0.5 1.2 0.4	52 15 37 12	4 Sa 0532 1251 1746 2342	2.1 0.3 1.3 0.2	64 9 40 6	19 Su 0548 1307 1800 2337	1.9 0.5 1.2 0.4	58 15 37 12			
5 Tu 0420 1103 1654 2322	1.4 0.0 1.4 0.1	43 0 43 3	20 W 0526 1216 1750 2353	5 Th 0455 1158 1716 2324	1.5 0.3 1.2 0.3	46 9 43 9	20 F 0541 1246 1750 2335	1.8 0.5 1.2 0.4	55 15 37 12	5 Su 0623 1344 1842	2.2 0.3 1.3	67 9 40	20 M 0623 1346 1845 O	1.9 0.5 1.2 37	58 15 37 O			
6 W 0513 1202 1746	1.6 0.0 1.4	49 0 43	21 Th 0605 1258 1826	6 F 0547 1256 1809	1.6 0.3 1.2	49 9 40	21 Sa 0616 1327 1831	1.8 0.5 1.2	55 15 37	6 M 0033 0714 1435 O	0.2 2.1 0.3	6 64 9 40	21 Tu 0019 0659 1423 1929	0.4 1.9 0.4 37	12 58 12 37			
7 Th 0004 0605 1259 ● 1836	0.1 1.7 0.0 1.3	3 52 0 40	22 F 0021 0642 1339 O 1902	7 Sa 0010 0639 1352 1902	0.3 1.6 0.3 1.2	9 49 9 37	22 Su 0009 0650 1406 1912	0.4 1.8 0.4 1.2	12 55 12 37	7 Tu 0127 0804 1524 2031	0.3 2.1 0.3 1.3	9 64 9 40	22 W 0103 0737 1500 2013	0.4 1.9 0.4 37	12 58 12 37			
8 F 0047 0656 1356 1926	0.0 1.8 0.0 1.3	0 55 0 40	23 Sa 0050 0716 1418 1939	8 Su 0058 0730 1447 1956	0.3 1.6 0.3 1.2	9 49 6 37	23 M 0045 0723 1445 1954	0.4 1.8 0.4 1.2	12 55 12 37	8 W 0223 0854 1612 2126	0.3 1.9 0.4 1.4	9 58 12 43	23 Th 0149 0817 1537 2059	0.5 1.9 0.4 40	15 58 12 40			
9 Sa 0132 0748 1454 2016	0.0 1.8 0.0 1.3	0 55 0 40	24 Su 0122 0750 1458 2018	9 M 0149 0822 1542 2050	0.3 1.7 0.4 1.2	9 52 6 37	24 Tu 0124 0759 1523 2037	0.4 1.8 0.4 1.2	12 55 12 37	9 Th 0321 0944 1658 2221	0.4 1.8 0.4 1.4	12 55 12 43	24 F 0240 0901 1615 2148	0.5 1.9 0.4 43	15 58 12 43			
10 Su 0219 0841 1552 2109	0.0 1.8 0.1 1.2	0 55 3 37	25 M 0156 0825 1538 2059	10 Tu 0243 0915 1636 2146	0.3 1.7 0.4 1.1	9 52 12 34	25 W 0206 0838 1603 2122	0.5 1.8 0.4 1.2	15 55 12 37	10 F 0424 1034 1742 2318	0.5 1.7 0.4 1.4	15 52 12 43	25 Sa 0338 0948 1654 2240	0.6 1.8 0.3 46	18 55 9 46			
11 M 0310 0936 1652 2204	0.1 1.8 0.2 1.2	3 55 6 37	26 Tu 0234 0903 1621 2142	11 W 0342 1009 1729 2244	0.4 1.7 0.4 1.1	12 52 12 34	26 Th 0254 0921 1643 2209	0.5 1.8 0.4 1.3	15 55 12 40	11 Sa 0531 1124 1825	0.6 1.6 0.4	18 49 12	26 Su 0443 1038 1735 2335	0.6 1.7 0.3 49	18 52 9 49			
12 Tu 0406 1033 1752 2302	0.1 1.7 0.2 1.2	3 52 6 37	27 W 0318 0945 1706 2230	12 Th 0448 1105 1821 2344	0.4 1.6 0.4 1.2	12 49 12 37	27 F 0348 1008 1725 2301	0.5 1.7 0.4 1.3	15 52 12 40	12 Su 0016 0641 1215 O 1906	1.5 0.7 1.5 0.4	46 21 46 12	27 M 0557 1131 1818 O	0.6 1.6 0.3 6	18 49 9 6			
13 W 0510 1134 1852 ● O	0.2 1.6 0.3 0	6 49 9 37	28 Th 0408 1033 1753 2321	13 F 0559 1204 1912 O 2321	0.4 1.5 0.4 1.2	15 46 12 37	28 Sa 0450 1100 1809 2355	0.6 1.7 0.4 1.4	18 52 12 43	13 M 0114 0752 1306 1944	1.5 0.7 1.4 0.4	46 21 43 12	28 Tu 0033 0715 1227 1904	1.7 0.7 1.5 0.2	52 21 46 6			
14 Th 0003 0620 1238 1950	1.2 0.3 1.5 0.3	37 9 46 9	29 F 0507 1126 1842 O 29	14 Sa 0045 0712 1303 1959	0.4 0.5 1.4 0.4	12 49 15 12	29 Su 0602 1155 1854 O 29	0.6 1.6 0.4 12	18 49 12 12	14 Tu 0211 0859 1357 2022	1.6 0.7 1.3 0.4	49 21 40 12	29 W 0132 0833 1326 1953	1.8 0.6 1.4 0.2	55 18 43 6			
15 F 0105 0733 1344 2043	1.2 0.3 1.4 0.4	37 9 43 12	30 Sa 0015 0616 1224 1932	15 Su 0144 0822 1359 2042	1.3 0.5 1.5 0.4	40 15 46 12	30 M 0052 0720 1254 1940	1.5 0.6 1.5 0.3	46 18 46 9	15 W 0303 1000 1447 2059	1.7 0.7 1.2 0.4	52 21 37 12	30 Th 0231 0944 1428 2044	1.9 0.6 1.3 0.2	58 18 40 6			
							31 Tu 0150 0836 1353 2026	1.7 0.6 1.4 0.3	52 18 43 9									

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Baltimore, Maryland, 2016

Times and Heights of High and Low Waters

July				August				September			
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height
1 F 0329 2.0 61 1049 0.5 15 1529 1.3 40 2136 0.2 6	h m ft cm	16 Sa 1114 0.7 21 1548 1.1 34 2138 0.4 12	h m ft cm	1 M 1222 0.5 15 1713 1.3 40 2318 0.3 9	h m ft cm	16 Tu 1158 0.6 18 1659 1.3 40 2255 0.5 15	h m ft cm	1 Th 0008 0.4 12 0621 1.9 58 1311 0.5 15 ● 1839 1.6 49	h m ft cm	16 F 0540 1.9 58 1226 0.4 12 1809 1.7 52	O
	h m ft cm	17 Su 1158 0.6 18 1640 1.2 37 2225 0.4 12	h m ft cm	2 Tu 1306 0.5 15 1807 1.4 43	h m ft cm	17 W 1235 0.5 15 1748 1.4 43 2348 0.5 15	h m ft cm	2 F 0700 1.8 55 1343 0.5 15 1923 1.6 49	h m ft cm	17 Sa 0034 0.4 12 0626 1.8 55 1304 0.3 9 1859 1.8 55	O
	h m ft cm	18 M 1237 0.5 15 1730 1.2 37 2313 0.4 12	h m ft cm	3 W 0012 0.3 9 0642 2.0 61 1347 0.4 12 1858 1.4 43	h m ft cm	18 Th 1311 0.5 15 1835 1.5 46	h m ft cm	3 Sa 0142 0.6 18 0736 1.7 55 1411 0.5 15 2006 1.7 52	h m ft cm	18 Su 0132 0.5 15 0711 1.8 55 1342 0.3 9 1949 1.9 58	O
	h m ft cm	19 Tu 1315 0.5 15 1817 1.2 37	h m ft cm	4 Th 0104 0.4 12 0725 1.9 58 1424 0.5 15 1946 1.5 46	h m ft cm	19 F 0041 0.5 15 0652 1.9 58 1347 0.4 12 1922 1.6 49	h m ft cm	4 Su 0228 0.6 18 0812 1.7 52 1438 0.5 15 2049 1.7 52	h m ft cm	19 M 0231 0.5 15 0758 1.7 52 1422 0.2 6 2041 2.0 61	O
5 ● Tu 0019 0.3 9 0659 2.1 64 1415 0.4 12 1917 1.3 40	h m ft cm	20 W 0000 0.4 12 0635 1.9 58 1351 0.4 12 1902 1.3 40	h m ft cm	5 F 0154 0.5 15 0806 1.8 55 1459 0.5 15 2034 1.5 46	h m ft cm	20 Sa 0135 0.5 15 0736 1.9 58 1423 0.4 12 2011 1.7 52	h m ft cm	5 M 0315 0.7 21 0847 1.6 49 1506 0.4 12 2132 1.7 52	h m ft cm	20 Tu 0333 0.5 15 0848 1.6 49 1506 0.2 6 2135 2.0 61	O
	h m ft cm	21 W 0049 0.4 12 0716 1.9 58 1427 0.4 12 1948 1.4 43	h m ft cm	6 Sa 0243 0.6 18 0845 1.7 52 1530 0.4 12 2121 1.6 49	h m ft cm	21 Su 0232 0.5 15 0821 1.8 55 1501 0.3 9 2102 1.8 55	h m ft cm	6 Tu 0405 0.8 24 0925 1.5 46 1537 0.4 12 2215 1.7 52	h m ft cm	21 W 0439 0.6 18 0940 1.5 46 1555 0.2 6 2232 2.0 61	O
	h m ft cm	22 Th 0140 0.5 15 0758 1.9 58 1503 0.4 12 2035 1.5 46	h m ft cm	7 Su 0334 0.7 21 0923 1.6 49 1600 0.4 12 2209 1.6 49	h m ft cm	22 M 0334 0.6 18 0908 1.7 52 1542 0.3 9 2156 1.9 58	h m ft cm	7 W 0500 0.8 24 1005 1.4 43 1613 0.4 12 2301 1.7 52	h m ft cm	22 Th 0548 0.6 18 1037 1.4 43 1649 0.3 9 2333 2.0 61	O
	h m ft cm	23 F 0235 0.5 15 0842 1.9 58 1540 0.3 9 2125 1.6 49	h m ft cm	8 M 0428 0.7 21 1002 1.5 46 1632 0.4 12 2259 1.6 49	h m ft cm	23 Tu 0442 0.6 18 0958 1.6 49 1626 0.3 9 2253 1.9 58	h m ft cm	8 Th 0600 0.9 27 1051 1.3 40 1655 0.5 15 2349 1.7 52	h m ft cm	23 F 0656 0.6 18 1139 1.3 40 1751 0.3 9 O	O
9 Sa 0358 0.6 18 0959 1.7 52 1655 0.4 12 2246 1.5 46	h m ft cm	24 Sa 0335 0.6 18 0928 1.8 55 1619 0.3 9 2218 1.7 52	h m ft cm	9 Tu 0529 0.8 24 1043 1.4 43 1706 0.4 12 2349 1.7 52	h m ft cm	24 W 0554 0.7 21 1052 1.5 46 1715 0.3 9 O 2354 2.0 61	h m ft cm	9 F 0704 0.9 27 1143 1.3 40 1743 0.5 15	h m ft cm	24 Sa 0037 1.9 58 0801 0.6 18 1244 1.3 40 1900 0.4 12	O
	h m ft cm	25 Su 0442 0.6 18 1017 1.7 52 1700 0.3 9 2314 1.8 55	h m ft cm	10 M 0636 0.9 27 1128 1.4 43 1745 0.4 12	h m ft cm	25 Th 0708 0.7 21 1150 1.4 43 1810 0.3 9	h m ft cm	10 Sa 0039 1.7 52 0805 0.8 24 1241 1.2 37 1838 0.5 15	h m ft cm	25 Su 0142 1.9 58 0900 0.6 18 1352 1.3 40 2011 0.4 12	O
	h m ft cm	26 M 0556 0.7 21 1109 1.5 46 1745 0.3 9	h m ft cm	11 Th 0041 1.7 52 0746 0.9 27 1218 1.3 40 1830 0.4 12	h m ft cm	26 F 0057 2.0 61 0819 0.7 21 1254 1.3 40 1911 0.3 9	h m ft cm	11 Su 0132 1.8 55 0900 0.8 24 1342 1.2 37 1939 0.5 15	h m ft cm	26 M 0245 1.8 55 0953 0.5 15 1456 1.4 43 2117 0.4 12	O
	h m ft cm	27 O 0013 1.9 58 0713 0.7 21 1206 1.4 43 1834 0.2 6	h m ft cm	12 F 0133 1.7 52 0850 0.8 24 1315 1.2 37 1919 0.4 12	h m ft cm	27 Sa 0201 2.0 61 0923 0.6 18 1400 1.3 40 2015 0.4 12	h m ft cm	12 M 0226 1.8 55 0949 0.7 21 1442 1.3 40 2041 0.5 15	h m ft cm	27 Tu 0342 1.8 55 1040 0.5 15 1555 1.5 46 2218 0.4 12	O
13 W 0131 1.7 52 0825 0.8 24 1304 1.3 40 1923 0.4 12	h m ft cm	28 Th 0115 1.9 58 0829 0.7 21 1307 1.3 40 1927 0.2 6	h m ft cm	13 Sa 0224 1.8 55 0947 0.8 24 1414 1.2 37 2012 0.5 15	h m ft cm	28 Su 0303 2.0 61 1020 0.6 18 1505 1.3 40 2120 0.4 12	h m ft cm	13 Tu 0318 1.8 55 1032 0.6 18 1538 1.4 43 2142 0.5 15	h m ft cm	28 W 0431 1.8 55 1121 0.5 15 1648 1.5 46 2313 0.5 15	O
	h m ft cm	29 Th 0216 2.0 61 0937 0.6 18 1410 1.3 40 2024 0.2 6	h m ft cm	14 F 0313 1.8 55 1035 0.7 21 1513 1.2 37 2107 0.5 15	h m ft cm	29 M 0401 2.0 61 1110 0.6 18 1605 1.4 43 2220 0.4 12	h m ft cm	14 W 0407 1.8 55 1112 0.6 18 1630 1.5 46 2241 0.5 15	h m ft cm	29 Th 0514 1.7 52 1158 0.5 15 1736 1.6 49	O
	h m ft cm	30 F 0316 2.0 61 1038 0.6 18 1514 1.3 40 2123 0.3 9	h m ft cm	15 M 0359 1.9 58 1118 0.6 18 1608 1.3 40 2201 0.5 15	h m ft cm	30 Tu 0453 2.0 61 1155 0.5 15 1701 1.5 46 2317 0.4 12	h m ft cm	15 Th 0454 1.9 58 1149 0.5 15 1720 1.6 49 2338 0.5 15	h m ft cm	30 F 0003 0.5 15 0553 1.7 52 1229 0.4 12 1820 1.7 52	O
	h m ft cm	31 Su 0414 2.1 64 1133 0.5 15 1616 1.3 40 2222 0.3 9	h m ft cm		h m ft cm	31 W 0540 1.9 58 1235 0.5 15 1751 1.5 46	h m ft cm		h m ft cm		O

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
 Heights are referred to mean lower low water which is the chart datum of soundings.

Baltimore, Maryland, 2016

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		h m	ft cm						
1 Sa	0049	0.5 15		16 Su	0029 0558	0.4 1.6	1 Tu	0207 0709	0.5 1.2	16 W	0221 0716	0.2 1.1	1 Th	0231 0723	0.2 0.8					
	0629	1.6 49		1222	0.1 3	49	1308	0.2 6	34	1322	-0.2 -6	-6	1313	-0.1 -3	34					
	1257	0.4 12		1837	1.9 58		1950	1.6 49		2003	1.9 58		1959	1.4 43	46					
	1901	1.7 52																		
2 Su	0133	0.6 18		17 M	0128 0646	0.4 1.5	2 W	0248 0747	0.5 1.1	17 Th	0317 0810	0.2 1.1	2 F	0311 0805	0.2 0.8	17 Sa	0349 0847	-0.1 0.8	24	
	0704	1.5 46		1304	0.1 3	3	1341	0.2 6	34	1414	-0.1 -3	-3	1352	-0.1 -3	-3	1456	-0.3 -9	-9		
	1323	0.4 12		1929	2.0 61		2025	1.6 49		2057	1.8 55		2035	1.4 43		2131	1.4 43			
	1940	1.7 52																		
3 M	0217	0.6 18		18 Tu	0228 0736	0.4 1.4	3 Th	0331 0827	0.5 1.1	18 F	0414 0906	0.2 1.0	3 Sa	0350 0848	0.2 0.8	18 Su	0439 0943	-0.1 0.8	24	
	0739	1.5 46		1348	0.1 3	3	1416	0.2 6	34	1510	-0.1 -3	-3	1434	0.0 0	0	1554	-0.2 -6	-6		
	1349	0.4 12		2021	2.0 61		2101	1.6 49		2152	1.7 52		2114	1.4 43		2221	1.3 40			
	2018	1.7 52																		
4 Tu	0301	0.7 21		19 W	0328 0828	0.4 1.4	4 F	0415 0911	0.5 1.1	19 Sa	0510 1005	0.2 1.0	4 Su	0431 0935	0.1 0.8	19 M	0527 1042	-0.1 0.8	24	
	0815	1.4 43		1436	0.1 3	3	1456	0.2 6	34	1612	0.0 0	0	1520	0.0 0	0	1657	-0.1 -3	-3		
	1418	0.4 12		2115	2.0 61		2141	1.6 49		2248	1.6 49		2157	1.4 43		2312	1.2 37			
	2056	1.7 52																		
5 W	0347	0.7 21		20 Th	0430 0923	0.4 1.3	5 Sa	0501 0958	0.5 1.0	20 Su	0605 1107	0.2 1.0	5 M	0512 1025	0.1 0.8	20 Tu	0615 1143	-0.1 0.9	27	
	0853	1.3 40		1529	0.1 3	3	1541	0.3 9	9	1719	0.1 3	3	1614	0.1 3	3	1804	0.0 0	0		
	1452	0.4 12		2212	1.9 58		2225	1.6 49		2345	1.5 46		2244	1.3 40		●				
	2135	1.7 52																		
6 Th	0436	0.7 21		21 F	0533 1022	0.4 1.2	6 Su	0548 1049	0.4 1.0	21 M	0659 1212	0.2 1.0	6 Tu	0555 1119	0.1 0.9	21 W	0002 0700	1.0 -0.1	30	
	0935	1.3 40		1629	0.2 6	6	1634	0.3 9	9	1831	0.2 6	6	1716	0.1 3	3	1246	0.9 27	27		
	1529	0.4 12		2311	1.8 55		2313	1.5 46		●			2334	1.3 40		1914	0.1 3			
	2216	1.7 52																		
7 F	0529	0.7 21		22 Sa	0635 1126	0.4 1.2	7 M	0637 1145	0.4 1.0	22 Tu	0042 0749	1.3 0.1	7 W	0639 1218	0.0 1.0	22 Th	0051 0743	0.9 -0.1	27	
	1022	1.2 37		1736	0.3 9	9	1735	0.3 9	9	1943	0.2 6	6	●			1349	0.9 27			
	1613	0.4 12		●												2024	0.1 3			
	2301	1.7 52																		
8 Sa	0625	0.7 21		23 Su	0014 0734	1.8 0.4	8 Tu	0006 0724	1.5 0.3	23 W	0137 0836	1.3 0.1	8 Th	0028 0724	1.2 -0.1	23 F	0140 0823	0.8 -0.2	24	
	1115	1.2 37		1232	1.2 37	37	1244	1.1 34	34	1420	1.1 34	34	1947	0.1 3	3	1449	1.0 30			
	1704	0.5 15		1849	0.3 9	9	1846	0.4 12	12	2051	0.3 9	9	2103	0.1 3	3	2129	0.1 3			
	●	2351	1.7 52																	
9 Su	0720	0.7 21		24 M	0117 0829	1.7 0.4	9 W	0101 0810	1.5 0.3	24 Th	0228 0917	1.2 0.1	9 F	0123 0809	1.1 -0.2	24 Sa	0229 0902	0.8 -0.2	24	
	1212	1.2 37		1339	1.3 40	40	1344	1.2 37	37	2153	0.3 9	9	2103	0.1 3	3	1543	1.0 30			
	1803	0.5 15		2001	0.4 12	12	2000	0.4 12	12	2250	0.3 9	9	2213	0.1 3	3	2228	0.1 3			
	●																			
10 M	0045	1.7 52		25 Tu	0217 0919	1.6 0.4	10 F	0157 0854	1.4 0.2	25 Th	0316 0954	1.1 0.0	10 Sa	0220 0855	1.0 -0.2	25 Su	0317 0940	0.7 -0.2	21	
	0812	0.6 18		1442	1.3 40	40	1443	1.3 40	40	1611	1.3 40	40	1518	1.3 40	40	1631	1.1 34			
	1312	1.2 37		2109	0.4 12	12	2112	0.3 9	9	2250	0.3 9	9	2213	0.1 3	3	2320	0.1 3			
	1910	0.5 15																		
11 Tu	0141	1.7 52		26 W	0311 1002	1.5 0.3	11 F	0252 0936	1.4 0.1	26 Sa	0400 1027	1.0 0.0	11 Su	0316 0943	1.0 -0.3	26 M	0404 1018	0.7 -0.3	21	
	0859	0.6 18		1540	1.4 43	43	1539	1.5 46	46	1658	1.3 40	40	2318	0.0 0	0	1713	1.1 34			
	1412	1.3 40		2209	0.4 12	12	2220	0.3 9	9	2341	0.3 9	9	2318	0.0 0	0	●				
	2018	0.5 15																		
12 W	0236	1.7 52		27 Th	0358 1041	1.5 0.3	12 Sa	0346 1019	1.3 0.0	27 Su	0442 1059	1.0 0.0	12 M	0413 1031	0.9 -0.4	27 Tu	0007 0450	0.1 0.7	21	
	0942	0.5 15		1632	1.5 46	46	1634	1.6 49	49	1739	1.4 43	43	1710	1.6 49	49	1057	-0.3 -9	-9		
	1509	1.4 43		2304	0.4 12	12	2324	0.2 6	6	●			1751	1.2 37						
	2125	0.5 15																		
13 Th	0329	1.7 52		28 F	0440 1114	1.4 0.3	13 Su	0439 1102	1.3 -0.1	28 M	0028 0522	0.3 0.9	13 Tu	0018 0508	0.0 0.9	28 W	0049 0535	0.0 0.6	18	
	1023	0.4 12		1718	1.5 46	46	1727	1.8 55	55	1130	-0.1 -3	-3	1121	-0.4 -12	-12	1136	-0.3 -9	-9		
	1603	1.5 46		2354	0.4 12	12	●	1819	1.8 55	55	1816	1.4 43	43	●	1804	1.6 49	49	1827	1.2 37	
	2229	0.4 12																		
14 F	0420	1.7 52		29 Sa	0519 1144	1.4 0.2	14 M	0025 0531	0.2 1.2	29 Tu	0111 0602	0.2 0.9	14 W	0114 0603	-0.1 -27	29 Th	0128 0618	0.0 0.6	18	
	1102	0.3 9		1800	1.6 49	49	1146	-0.2 -6	-6	1203	-0.1 -3	-3	1213	-0.4 -12	-12	●	1851	1.4 43	43	
	1655	1.7 52		●	1839	1.6 49	49	●	1839	1.8 55	55	●	1851	1.4 43	43	●	1901	1.2 37	37	
	2330	0.4 12																		
15 Sa	0509	1.6 49		30 Su	0040 0556	0.4 1.3	15 Tu	0123 0623	0.2 1.2	30 W	0152 0643	0.2 0.9	15 Th	0207 0658	-0.1 -27	30 F	0206 0700	0.0 0.6	18	
	1142	0.2 6		1211	0.2 6	6	1233	-0.2 -6	-6	1237	-0.1 -3	-3	1305	-0.4 -12	-12	●	1948	1.6 49	49	
	1746	1.8 55		●	1839	1.6 49	49	1911	1.9 58	58	1925	1.4 43	43	1948	1.6 49	49	●	1936	1.2 37	37
	○			31 M	0124 0632	0.5 1.2	31 M	0124 0632	0.5 1.2	31 M	0124 0632</									

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Times and Heights of High and Low Waters

January				February				March											
Time	Height	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 F 0043	2.4	73	16 0021	2.7	82	1 M 0140	2.3	70	16 0211	2.6	79								
0734 -0.1	-3	Sa 0730	-0.4	-12	0754 0.0	0	Tu 0903	-0.2	-6	0051 2.5	76	16 0155	2.8	85					
1311 2.4	73	Sa 1249	2.8	85	1351 2.5	76	Tu 1432	2.9	88	0710 0.2	6	W 0845	0.1	3					
2002 0.1	3	● 2013	-0.3	-9	2058 0.2	6	2200 -0.1	-3	● 2007	0.3	9	1253 2.8	85	1413 3.0	91				
2 Sa 0136	2.3	70	17 0122	2.6	79	2 Tu 0233	2.2	67	17 W 0315	2.6	79	0142 2.5	76	17 0258	2.8	85			
0814 0.0	0	Su 0824	-0.3	-9	0844 0.0	0	W 1006	-0.1	-3	0800 0.2	6	Th 0948	0.1	3					
1403 2.4	73	Su 1350	2.8	85	1443 2.5	76	1536 2.9	88	1344 2.7	82	1519 2.9	88	2106 0.3	9	2236 0.1	3			
● 2055 0.1	3	2116 -0.2	-6	2157 0.2	6	2300 -0.1	-3	● 2007	0.3	9	2211 0.3	9	2332 0.1	3					
3 Su 0230	2.2	67	18 0227	2.5	76	3 W 0329	2.2	67	18 Th 0416	2.6	79	0239 2.5	76	18 0358	2.8	85			
0857 0.0	0	M 0923	-0.3	-9	0940 0.1	3	Th 1108	-0.1	-3	0858 0.3	9	F 1049	0.1	3					
1454 2.4	73	M 1452	2.8	85	1537 2.5	76	1638 2.8	85	1444 2.7	82	1621 2.9	88	2211 0.3	9	2332 0.1	3			
2151 0.1	3	2219 -0.3	-9	2258 0.2	6	2358 -0.2	-6	● 2007	0.3	9	2211 0.3	9	2332 0.1	3					
4 M 0325	2.2	67	19 0331	2.5	76	4 Th 0423	2.3	70	19 F 0514	2.6	79	0338 2.5	76	19 0455	2.9	88			
0945 0.0	0	Tu 1024	-0.3	-9	1043 0.0	0	F 1207	-0.1	-3	1005 0.3	9	Sa 1148	0.1	3					
1545 2.4	73	Tu 1554	2.8	85	1632 2.6	79	1736 2.9	88	1547 2.8	85	1718 2.9	88	2315 0.3	9	2332 0.1	3			
2247 0.1	3	2320 -0.3	-9	2356 0.1	3	● 2007	0.3	9	2315 0.3	9	2332 0.1	3	1811 3.0	91					
5 Tu 0417	2.2	67	20 0432	2.5	76	5 F 0515	2.3	70	20 Sa 0052	-0.2	-6	0435 2.6	79	20 0025	0.1	3			
1037 0.0	0	W 1125	-0.3	-9	1147 0.0	0	Sa 0607	2.7	82	1116 0.2	6	Su 0547	2.9	88					
1633 2.5	76	W 1654	2.9	88	1725 2.6	79	1302 -0.2	-6	1648 2.8	85	1242 0.1	3	1859 3.0	91					
2342 0.0	0	● 2007	0.3	9	● 1815	2.7	82	1829 2.9	88	1746 2.9	88	1859 3.0	91	1811 3.0	91				
6 W 0508	2.2	67	21 0019	-0.4	-12	6 Sa 0050	0.0	0	21 Su 0142	-0.2	-6	0013 0.2	6	21 M 0113	0.1	3			
1130 -0.1	-3	Th 0530	2.5	76	0604 2.4	73	Su 0657	2.8	85	0528 2.7	82	W 0636	3.0	91					
1720 2.5	76	Th 1223	-0.3	-9	1248 -0.1	-3	1354 -0.2	-6	1222 0.1	3	1333 0.0	0	1859 3.0	91					
● 1751 2.9	88	● 1751	2.9	88	● 1815	2.7	82	1919 2.9	88	● 1746	2.9	88	● 1859	3.0	91				
7 Th 0034	0.0	0	22 0114	-0.4	-12	7 F 0141	-0.1	-3	22 M 0228	-0.2	-6	0106 0.1	3	22 Tu 0158	0.1	3			
0555 2.3	70	F 0624	2.6	79	0651 2.5	76	Th 0744	2.8	85	0619 2.9	88	W 0720	3.1	94					
1224 -0.1	-3	Su 1319	-0.4	-12	1344 -0.2	-6	M 1441	-0.2	-3	1322 0.0	0	Th 1420	0.0	0					
1804 2.6	79	Su 1844	2.9	88	1904 2.8	85	O 2005	2.9	88	1839 3.0	91	W 1944	3.0	91					
8 F 0124	-0.1	-3	23 0205	-0.4	-12	8 M 0229	-0.2	-6	23 Tu 0310	-0.2	-6	0157 -0.1	-3	23 O 2338	0.1	3			
0640 2.3	70	Sa 0716	2.6	79	0736 2.7	82	Tu 0827	2.8	85	0707 3.0	91	W 0801	3.1	94					
1315 -0.2	-6	Sa 1411	-0.4	-12	1437 -0.3	-9	1526 -0.2	-6	1418 0.1	-3	1503 0.0	0	● 1931 3.1	94					
1846 2.7	82	● 1935	2.9	88	● 1952	2.9	88	2049 2.9	88	● 1931	3.1	94	● 2025 3.0	91					
9 Sa 0211	-0.2	-6	24 0254	-0.4	-12	9 Tu 0315	-0.3	-9	24 W 0349	-0.1	-3	0245 -0.2	-6	24 Th 0315	0.2	6			
0722 2.4	73	Su 0804	2.6	79	0820 2.8	85	Tu 0908	2.8	85	0755 3.2	98	W 0839	3.1	94					
1405 -0.2	-6	Su 1501	-0.4	-12	1528 -0.3	-9	1608 -0.1	-6	1511 0.2	-6	1544 0.1	3	● 2025 3.0	91					
● 1928 2.8	85	2023 2.8	85	2040 3.0	91	2130 2.8	85	2021 3.2	98	2105 2.9	88	● 1931 3.1	94	● 2025 3.0	91				
10 Su 0257	-0.3	-9	25 0338	-0.4	-12	10 W 0400	-0.4	-12	25 Th 0425	0.0	0	0332 -0.2	-6	25 F 0348	0.2	6			
0803 2.4	73	M 0850	2.6	79	0906 2.9	88	0946 2.8	85	0946 0.0	0	0842 3.3	101	W 1622	0.2	6				
1454 -0.3	-9	M 1547	-0.4	-12	1619 -0.4	-12	1647 0.0	0	1647 0.0	0	1604 -0.3	-9	2142 2.9	88	2142 2.9	88			
2111 2.8	85	2109 2.8	85	2128 3.0	91	2209 2.8	85	2209 2.8	85	2112 3.2	98	● 1931 3.1	94	● 2025 3.0	91				
11 M 0341	-0.3	-9	26 0420	-0.3	-9	11 Th 0445	-0.4	-12	26 F 0456	0.0	0	0419 -0.2	-6	26 Sa 0418	0.3	9			
0844 2.5	76	Tu 0934	2.6	79	0952 3.0	91	1711 -0.4	-12	1022 2.8	85	0930 3.4	104	W 1658	0.2	6				
1542 -0.3	-9	Tu 1631	-0.3	-9	1725 0.0	0	2218 3.0	91	1725 0.0	0	1656 -0.3	-9	2218 2.8	88	2218 2.8	88			
2055 2.9	88	2153 2.7	82	2218 3.0	91	2248 2.7	82	2248 2.7	82	2203 3.1	94	● 1931 3.1	94	● 2025 3.0	91				
12 Tu 0425	-0.4	-12	27 0459	-0.2	-6	12 F 0530	-0.4	-12	27 Sa 0523	0.1	3	0506 -0.2	-6	27 Su 0446	0.3	9			
0927 2.6	79	W 1017	2.6	79	1041 3.0	91	1804 -0.4	-12	1056 2.8	85	1020 3.4	104	W 1733	0.3	9				
1631 -0.3	-9	Th 1713	-0.2	-6	2311 2.9	88	2326 2.6	79	1801 0.1	3	1749 -0.3	-9	2253 2.8	85	2253 2.8	85			
2142 2.9	88	2236 2.6	79	2311 2.9	88	● 1815	2.9	88	● 1815	2.9	88	● 1815	2.9	88	● 1815	2.9	88		
13 W 0509	-0.4	-12	28 0535	-0.2	-6	13 F 0618	-0.4	-12	28 Su 0552	0.1	3	0556 -0.2	-6	28 M 0517	0.3	9			
1012 2.7	82	Th 1058	2.6	79	1133 3.0	91	1859 -0.3	-9	1130 2.8	85	1112 3.3	101	W 1048	3.1	94				
1722 -0.3	-9	Th 1754	-0.1	-3	● 1859	0.0	0	1837 0.2	6	1843 -0.2	-6	1807 0.3	9	● 2039 0.0	0	● 2039 0.0	0		
2231 2.9	88	2319 2.5	76	● 2058	-0.2	-6	● 1918	0.3	9	2353 3.0	91	2330 2.8	85	● 1931 3.1	94	● 2025 3.0	91		
14 Th 0554	-0.4	-12	29 0608	-0.1	-3	14 Su 0008	2.8	85	29 M 0007	2.6	79	0649 -0.1	-3	29 Tu 0555	0.3	9			
1100 2.7	82	F 1139	2.6	79	0709 -0.3	-9	0627 0.1	3	1208 2.8	85	1208 3.2	98	W 1846	0.4	12				
1815 -0.3	-9	F 1835	0.0	0	1229 3.0	91	1958 -0.2	-6	1918 0.3	9	1940 -0.1	-3	● 2039 0.0	0	● 2039 0.0	0			
2324 2.8	85	1917 0.1	3	● 2058	-0.2	-6	● 1918	0.3	9	● 1918	0.3	9	● 1931 3.1	94	● 1931 3.1	94			
15 F 0640	-0.4	-12	30 0003	2.5	76	15 M 0108	2.7	82	15 Su 0053	2.9	88	0745 0.0	0	30 W 0012	2.7	82			
1153 2.8	85	Sa 0639	-0.1	-3	0804 -0.2	-6	1329 2.9	88	1309 3.1	94	1309 3.1	94	● 2039 0.0	0	● 2039 0.0	0			
1912 -0.3	-9	1220 2.5	76	1917 0.1	3	● 2058	-0.2	-6	● 2058	0.0	0	● 2039 0.0	0	● 2039 0.0	0	● 2039 0.0	0		
● 2004 0.1	3	● 2004	0.1	3	● 2004	0.1	3	● 2004	0.1	3	● 2004	0.1	3	● 2004	0.1	3	● 2004	0.1	3

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

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Times and Heights of High and Low Waters

April					May					June						
	Time	Height														
	h m	ft cm														
1 <i>F</i>	0157	2.7 82	16 <i>Sa</i>	0336	3.0 91	1 <i>Su</i>	0226	3.0 91	16 <i>M</i>	0402	3.1 94	1 <i>W</i>	0400	3.4 104	16 <i>Th</i>	0503 3.1 94
	0829	0.5 15		1027	0.4 12		0920	0.5 15		1055	0.5 15		1123	0.3 9		1207 0.4 12
	1405	3.0 91		1559	3.0 91		1443	3.1 94		1625	2.9 88		1632	3.1 94		1731 2.7 82
	2129	0.5 15		2301	0.3 9		2156	0.4 12		2312	0.4 12		2325	0.2 6		2358 0.4 12
2 <i>Sa</i>	0258	2.8 85	17 <i>Su</i>	0431	3.1 94	2 <i>M</i>	0327	3.2 98	17 <i>Tu</i>	0452	3.2 98	2 <i>Th</i>	0457	3.6 110	17 <i>F</i>	0547 3.2 98
	0937	0.4 12		1124	0.3 9		1032	0.4 12		1149	0.4 12		1225	0.1 3		1255 0.4 12
	1511	3.0 91		1655	3.0 91		1550	3.1 94		1716	2.9 88		1732	3.1 94		1818 2.8 85
	2233	0.4 12		2352	0.3 9		2257	0.3 9		2358	0.4 12					
3 <i>Su</i>	0358	2.9 88	18 <i>M</i>	0522	3.1 94	3 <i>Tu</i>	0426	3.3 101	18 <i>W</i>	0539	3.2 98	3 <i>F</i>	0024	0.1 3	18 <i>Sa</i>	0043 0.4 12
	1051	0.4 12		1218	0.3 9		1140	0.3 9		1239	0.4 12		0552	3.7 113		0628 3.2 98
	1616	3.0 91		1746	3.0 91		1653	3.2 98		1804	2.9 88		1323	0.0 0		1341 0.3 9
	2334	0.3 9					2355	0.2 6					1828	3.1 94		1902 2.8 85
4 <i>M</i>	0455	3.1 94	19 <i>Tu</i>	0039	0.3 9	4 <i>W</i>	0521	3.5 107	19 <i>Th</i>	0042	0.4 12	4 <i>Sa</i>	0121	0.1 3	19 <i>Su</i>	0128 0.4 12
	1159	0.3 9		0610	3.2 98		1242	0.2 6		0622	3.3 101		0645	3.8 116		0706 3.2 98
	1718	3.1 94		1308	0.2 6		1752	3.2 98		1327	0.3 9		1417	-0.1 -3		1425 0.3 9
				1834	3.0 91				1849	2.9 88		1923	3.2 98	1942 2.8 85		
5 <i>Tu</i>	0030	0.2 6	20 <i>W</i>	0122	0.3 9	5 <i>Th</i>	0051	0.2 6	20 <i>F</i>	0123	0.4 12	5 <i>Su</i>	0216	0.1 3	20 <i>M</i>	0211 0.4 12
	0549	3.2 98		0653	3.2 98		0614	3.7 113		0702	3.3 101		0737	3.8 116		0741 3.3 101
	1301	0.1 3		1355	0.2 6		1340	0.0 0		1411	0.3 9		1510	-0.1 -3		1507 0.2 6
	1815	3.2 98		1918	3.0 91		1848	3.3 101		1932	2.9 88		2016	3.2 98		2021 2.8 85
6 <i>W</i>	0123	0.1 3	21 <i>Th</i>	0202	0.3 9	6 <i>F</i>	0145	0.1 3	21 <i>Sa</i>	0202	0.4 12	6 <i>M</i>	0310	0.1 3	21 <i>Tu</i>	0254 0.4 12
	0640	3.4 104		0733	3.3 101		0706	3.8 116		0738	3.3 101		0828	3.7 113		0816 3.3 101
	1359	0.0 0		1438	0.2 6		1435	-0.1 -3		1453	0.3 9		1601	-0.1 -3		1548 0.2 6
	1909	3.3 101		1959	3.0 91		● 1941	3.3 101		2011	2.9 88		2108	3.2 98		2057 2.9 88
7 <i>Th</i>	0214	0.0 0	22 <i>F</i>	0239	0.4 12	7 <i>Sa</i>	0237	0.1 3	22 <i>Su</i>	0240	0.4 12	7 <i>Tu</i>	0403	0.1 3	22 <i>W</i>	0337 0.4 12
	0730	3.6 110		0809	3.3 101		0756	3.8 116		0811	3.3 101		0919	3.6 110		0852 3.3 101
	1453	-0.1 -3		1519	0.2 6		1529	-0.1 -3		1533	0.3 9		1651	-0.1 -3		1627 0.2 6
	● 2001	3.3 101		2038	3.0 91		2034	3.3 101		2048	2.9 88		2200	3.1 94		2133 2.9 88
8 <i>F</i>	0303	0.0 0	23 <i>Sa</i>	0313	0.4 12	8 <i>Su</i>	0330	0.1 3	23 <i>M</i>	0317	0.5 15	8 <i>W</i>	0455	0.2 6	23 <i>Th</i>	0421 0.4 12
	0819	3.7 113		0842	3.3 101		0847	3.8 116		0842	3.3 101		1011	3.5 107		0932 3.3 101
	1546	-0.2 -6		1558	0.3 9		1621	-0.1 -3		1612	0.3 9		1740	0.0 0		1707 0.2 6
	2053	3.3 101		2115	2.9 88		2127	3.2 98		2123	2.9 88		2253	3.1 94		2212 3.0 91
9 <i>Sa</i>	0353	0.0 0	24 <i>Su</i>	0345	0.4 12	9 <i>M</i>	0422	0.1 3	24 <i>Tu</i>	0354	0.5 15	9 <i>Th</i>	0547	0.3 9	24 <i>F</i>	0507 0.4 12
	0908	3.7 113		0912	3.3 101		0938	3.7 113		0914	3.3 101		1105	3.3 101		1016 3.3 101
	1639	-0.2 -6		1635	0.3 9		1712	-0.1 -3		1650	0.3 9		1828	0.1 3		1747 0.2 6
	2146	3.2 98		2150	2.9 88		2221	3.2 98		2158	2.9 88		2346	3.1 94		2256 3.0 91
10 <i>Su</i>	0443	0.0 0	25 <i>M</i>	0416	0.4 12	10 <i>Tu</i>	0515	0.2 6	25 <i>W</i>	0434	0.5 15	10 <i>F</i>	0640	0.4 12	25 <i>Sa</i>	0556 0.4 12
	0959	3.6 110		0942	3.3 101		1031	3.6 110		0951	3.3 101		1200	3.1 94		1105 3.3 101
	1732	-0.1 -3		1710	0.4 12		1804	0.0 0		1727	0.3 9		1915	0.2 6		1830 0.2 6
	2239	3.2 98		2224	2.9 88		2316	3.1 94		2235	2.9 88					2344 3.1 94
11 <i>M</i>	0535	0.1 3	26 <i>Tu</i>	0452	0.5 15	11 <i>W</i>	0609	0.3 9	26 <i>Th</i>	0517	0.5 15	11 <i>Sa</i>	0041	3.0 91	26 <i>Su</i>	0651 0.4 12
	1051	3.5 107		1016	3.3 101		1127	3.4 104		1034	3.3 101		0734	0.4 12		1159 3.2 98
	1825	-0.1 -3		1746	0.4 12		1856	0.1 3		1807	0.3 9		1257	3.0 91		2003 0.3 9
	2336	3.1 94		2301	2.9 88				2318	3.0 91		2003	0.3 9			
12 <i>Tu</i>	0629	0.2 6	27 <i>W</i>	0532	0.5 15	12 <i>Th</i>	0013	3.1 94	27 <i>F</i>	0605	0.5 15	12 <i>Su</i>	0137	3.0 91	27 <i>M</i>	0038 3.2 98
	1148	3.4 104		1056	3.3 101		0705	0.4 12		1122	3.3 101		0830	0.5 15		0752 0.4 12
	1920	0.1 3		1825	0.4 12		1226	3.2 98		1850	0.3 9		1356	2.9 88		1258 3.1 94
				2342	2.9 88		1948	0.2 6					● 2050	0.4 12		2006 0.2 6
13 <i>W</i>	0035	3.0 91	28 <i>Th</i>	0618	0.5 15	13 <i>F</i>	0112	3.0 91	28 <i>Sa</i>	0006	3.0 91	13 <i>M</i>	0232	3.0 91	28 <i>Tu</i>	0136 3.3 101
	0726	0.3 9		1143	3.2 98		0803	0.4 12		0659	0.5 15		0926	0.5 15		0857 0.4 12
	1249	3.2 98		1909	0.4 12		1328	3.1 94		1216	3.2 98		1453	2.8 85		1403 3.0 91
	● 2015	0.2 6		● 2040	0.3 9		● 2040	0.3 9		1937	0.3 9		2137	0.4 12		2102 0.2 6
14 <i>Th</i>	0136	3.0 91	29 <i>F</i>	0031	2.9 88	14 <i>Sa</i>	0211	3.0 91	29 <i>Su</i>	0101	3.1 94	14 <i>Tu</i>	0325	3.1 94	29 <i>W</i>	0237 3.4 104
	0826	0.3 9		0711	0.5 15		0901	0.5 15		0800	0.5 15		1021	0.5 15		1003 0.3 9
	1353	3.1 94		1237	3.2 98		1430	3.0 91		1316	3.1 94		1549	2.8 85		1510 3.0 91
	2112	0.2 6		● 1959	0.4 12		2132	0.4 12		● 2030	0.3 9		2225	0.4 12		2202 0.2 6
15 <i>F</i>	0237	3.0 91	30 <i>Sa</i>	0126	3.0 91	15 <i>Su</i>	0308	3.1 94								

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Times and Heights of High and Low Waters

July				August				September						
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height			
h m	ft	cm		h m	ft	cm		h m	ft	cm				
1 F 0438	3.5	107		16 Sa 0509	3.1	94		1 M 0050	0.1	3		16 Th 0218	0.1	3
1208	0.1	3		1221	0.5	15		0016	3.5	107		0741	3.4	104
1715	3.0	91	Sa	1744	2.7	82	M	1340	0.0	0	Tu	1322	0.3	9
								1850	3.1	94		1448	0.1	3
								1838	2.9	88	●	2006	3.3	101
2 Sa 0005	0.1	3	17 Su 0005	0.4	12	2 Tu 0144	0.1	3	17 W 0121	0.4	12	2 F 0305	0.2	6
0534	3.6	110	0553	3.1	94	0708	3.5	107	0647	3.3	101	0825	3.4	104
1305	0.0	0	1309	0.4	12	1429	0.0	0	1407	0.2	6	1529	0.1	3
1812	3.0	91	1829	2.7	82	● 1940	3.2	98	1920	3.0	91	2048	3.3	101
3 Su 0103	0.1	3	18 M 0056	0.4	12	3 W 0236	0.1	3	18 Th 0212	0.3	9	3 Sa 0349	0.2	6
0629	3.6	110	0634	3.2	98	0757	3.5	107	0731	3.4	104	0907	3.3	101
1359	-0.1	-3	1355	0.3	9	1516	0.0	0	1451	0.1	3	1606	0.2	6
1906	3.1	94	1912	2.8	85	2028	3.2	98	○ 2001	3.2	98	2128	3.3	101
4 M 0159	0.1	3	19 Tu 0145	0.4	12	4 Th 0325	0.1	3	19 F 0302	0.2	6	4 Su 0431	0.3	9
0721	3.6	110	0714	3.3	101	0844	3.4	104	0814	3.4	104	0947	3.2	98
1451	-0.1	-3	1439	0.2	6	1559	0.0	0	1533	0.1	3	1639	0.3	9
● 1958	3.1	94	○ 1951	2.9	88	2113	3.2	98	2042	3.3	101	2205	3.2	98
5 Tu 0253	0.1	3	20 W 0233	0.3	9	5 F 0412	0.2	6	20 Sa 0351	0.2	6	5 M 0511	0.4	12
0812	3.6	110	0753	3.3	101	0930	3.3	101	0859	3.4	104	1027	3.1	94
1540	-0.1	-3	1521	0.1	3	1640	0.1	3	1615	0.0	0	1708	0.4	12
2048	3.1	94	2029	3.0	91	2158	3.2	98	2125	3.4	104	2242	3.2	98
6 W 0344	0.1	3	21 Th 0320	0.3	9	6 Sa 0457	0.3	9	21 Su 0441	0.2	6	6 Tu 0550	0.5	15
0902	3.5	107	0834	3.3	101	1014	3.2	98	0946	3.4	104	1107	2.9	88
1627	0.0	0	1602	0.1	3	1718	0.2	6	1658	0.0	0	1736	0.4	12
2138	3.1	94	2108	3.1	94	2241	3.1	94	2211	3.5	107	2318	3.1	94
7 Th 0434	0.2	6	22 F 0407	0.3	9	7 Su 0541	0.4	12	22 M 0534	0.2	6	7 W 0630	0.6	18
0951	3.4	104	0916	3.4	104	1058	3.1	94	1035	3.3	101	1149	2.8	85
1712	0.0	0	1643	0.1	3	1754	0.3	9	1744	0.1	3	1809	0.5	15
2226	3.1	94	2149	3.1	94	2324	3.1	94	2300	3.5	107	2357	3.1	94
8 F 0523	0.3	9	23 Sa 0455	0.3	9	8 M 0626	0.5	15	23 Tu 0629	0.3	9	8 Th 0714	0.7	21
1040	3.2	98	1001	3.3	101	1144	2.9	88	1129	3.2	98	1235	2.7	82
1755	0.1	3	1724	0.1	3	1827	0.4	12	1833	0.1	3	1852	0.5	15
2315	3.1	94	2234	3.2	98	2354	3.5	107	○ 1942	0.6	18	23 O 02014	0.3	9
9 Sa 0612	0.4	12	24 Su 0547	0.3	9	9 Tu 0008	3.1	94	24 W 0728	0.3	9	9 F 0042	3.0	91
1130	3.1	94	1050	3.3	101	0712	0.6	18	1229	3.1	94	0805	0.8	24
1837	0.2	6	1807	0.1	3	1232	2.8	85	1928	0.2	6	1329	2.7	82
			2322	3.3	101	1900	0.4	12	○ 1942	0.6	18	24 O 1426	2.9	88
10 Su 0005	3.0	91	25 M 0642	0.3	9	10 W 0054	3.0	91	25 Th 0053	3.4	104	10 Sa 0135	3.0	91
0702	0.5	15	1144	3.2	98	0801	0.7	21	0830	0.3	9	0903	0.8	24
1222	2.9	88	1854	0.1	3	1325	2.7	82	1334	3.0	91	1429	2.6	79
1918	0.3	9	○ 1940	0.5	15	2028	0.3	9	2041	0.6	18	2041	0.6	18
11 M 0056	3.0	91	26 Tu 0016	3.3	101	11 Th 0144	3.0	91	26 F 0158	3.4	104	11 Su 0236	3.0	91
0753	0.5	15	0741	0.4	12	0855	0.7	21	0932	0.3	9	1003	0.7	21
1316	2.8	85	1243	3.1	94	1421	2.6	79	1441	2.9	88	1529	2.7	82
● 1959	0.4	12	○ 1945	0.1	3	2029	0.5	15	2133	0.3	9	2148	0.6	18
12 Tu 0148	3.0	91	27 W 0114	3.4	104	12 F 0238	3.0	91	27 Sa 0305	3.3	101	12 M 0339	3.0	91
0846	0.6	18	0845	0.4	12	0952	0.7	21	1034	0.3	9	1101	0.6	18
1412	2.7	82	1348	3.0	91	1519	2.6	79	1546	2.9	88	1625	2.8	85
2042	0.4	12	2043	0.2	6	2126	0.6	18	2237	0.3	9	2257	0.5	15
13 W 0240	3.0	91	28 Th 0216	3.4	104	13 Sa 0332	3.0	91	28 Tu 0409	3.3	101	13 M 0437	3.1	94
0941	0.6	18	0949	0.3	9	1049	0.7	21	1132	0.2	6	1155	0.5	15
1508	2.6	79	1455	2.9	88	1615	2.6	79	1647	3.0	91	1716	2.9	88
2128	0.5	15	2145	0.2	6	2228	0.6	18	2338	0.2	6	1815	3.2	98
14 Th 0332	3.0	91	29 F 0320	3.4	104	14 Su 0426	3.0	91	29 W 0509	3.4	104	14 Th 0000	0.4	12
1036	0.6	18	1052	0.2	6	1143	0.6	18	1227	0.1	3	0530	3.2	98
1603	2.6	79	1600	2.9	88	1707	2.7	82	1743	3.1	94	1245	0.3	9
2219	0.5	15	2249	0.2	6	2329	0.5	15	1804	3.1	94	1804	3.1	94
15 F 0422	3.0	91	30 Sa 0422	3.4	104	15 M 0516	3.1	94	30 Tu 0035	0.2	6	15 Th 0057	0.3	9
1130	0.5	15	1151	0.1	3	1234	0.4	12	0604	3.4	104	0620	3.3	101
1655	2.6	79	1701	3.0	91	1754	2.8	85	1318	0.1	3	1333	0.2	6
2312	0.5	15	2351	0.2	6	1834	3.2	98	1848	3.2	98	1848	3.2	98
31 Su 0521	3.5	107	31 W 1247	0.1	3				31 W 1757	3.0	91			

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Washington, D.C., 2016

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 0243 0.2 6 0803 3.2 98 1456 0.2 6 2021 3.3 101	16 Su 0224 0.0 0 0733 3.3 101 1433 -0.1 -3 1952 3.6 110	1 Tu 0341 0.2 6 0857 2.8 85 1530 0.2 6 2101 3.1 94	16 W 0352 -0.3 -9 0855 3.0 91 1552 -0.3 -9 2111 3.5 107	1 Th 0356 0.0 0 0908 2.5 76 1540 0.0 0 2106 2.9 88	16 F 0425 -0.5 -15 0931 2.8 85 1630 -0.4 -12 2148 3.1 94						
	2 Su 0326 0.2 6 0843 3.2 98 1531 0.2 6 2058 3.3 101	17 M 0317 -0.1 -3 0822 3.3 101 1521 -0.1 -3 2039 3.7 113	2 W 0419 0.2 6 0932 2.8 85 1600 0.2 6 2131 3.1 94	17 Th 0445 -0.3 -9 0948 2.9 88 1646 -0.2 -6 2203 3.3 101	2 F 0433 0.0 0 0941 2.5 76 1617 0.0 0 2140 2.9 88	17 Sa 0515 -0.5 -15 1023 2.7 82 1723 -0.4 -12 2242 2.9 88					
	3 M 0406 0.3 9 0921 3.1 94 1601 0.3 9 2132 3.3 101	18 Tu 0409 -0.1 -3 0912 3.3 101 1611 -0.1 -3 2128 3.6 110	3 Th 0454 0.3 9 1006 2.7 82 1632 0.2 6 2203 3.0 91	18 F 0537 -0.3 -9 1042 2.9 88 1741 -0.2 -6 2259 3.2 98	3 Sa 0509 0.0 0 1015 2.5 76 1656 0.0 0 2218 2.8 85	18 Su 0605 -0.4 -12 1117 2.7 82 1817 -0.3 -9 2338 2.8 85					
	4 Tu 0443 0.4 12 0958 3.0 91 1628 0.3 9 2203 3.2 98	19 W 0502 -0.1 -3 1004 3.2 98 1703 0.0 0 2220 3.6 110	4 F 0529 0.3 9 1040 2.7 82 1710 0.3 9 2240 3.0 91	19 Sa 0630 -0.2 -6 1140 2.8 85 1838 -0.1 -3 2359 3.0 91	4 Su 0546 0.0 0 1054 2.5 76 1740 0.1 3 2302 2.8 85	19 M 0654 -0.3 -9 1212 2.6 79 1911 -0.2 -6					
5 W 0519 0.5 15 1034 2.9 88 1657 0.4 12 2236 3.2 98	20 Th 0557 0.0 0 1059 3.0 91 1758 0.0 0 2316 3.4 104	5 Sa 0607 0.3 9 1119 2.6 79 1754 0.3 9 2324 3.0 91	20 Su 0724 -0.1 -3 1240 2.7 82 1937 0.0 0	5 M 0626 0.0 0 1138 2.5 76 1829 0.1 3 2352 2.8 85	20 Tu 0035 2.6 79 0743 -0.2 -6 1309 2.6 79 2007 -0.1 -3						
6 Th 1111 2.8 85 1733 0.4 12 2312 3.1 94	21 F 0653 0.1 3 1159 2.9 88 1856 0.1 3	6 Su 0650 0.4 12 1205 2.6 79 1845 0.3 9	21 M 0102 2.8 85 0818 0.0 0 1341 2.7 82 O 0203 0.0 0	6 Tu 0711 0.0 0 1228 2.6 79 1925 0.1 3	21 W 0134 2.5 76 0832 -0.1 -3 1406 2.5 76 2103 0.0 0						
7 F 1152 2.7 82 1817 0.5 15 2356 3.1 94	22 Sa 0017 3.2 98 0750 0.1 3 1302 2.9 88 O 1958 0.2 6	7 M 0015 2.9 88 0739 0.3 9 1258 2.6 79 O 1943 0.4 12	22 Tu 0205 2.7 82 0912 0.0 0 1442 2.7 82 2136 0.1 3	7 W 0048 2.7 82 0800 0.0 0 1325 2.7 82 O 2029 0.1 3	22 Th 0232 2.4 73 0921 -0.1 -3 1502 2.5 76 2200 0.0 0						
8 Sa 1241 2.7 82 1909 0.5 15 O	23 Su 0123 3.1 94 0848 0.2 6 1407 2.8 85 2100 0.2 6	8 Tu 0113 2.9 88 0835 0.3 9 1358 2.7 82 2049 0.3 9	23 W 0307 2.7 82 1004 0.0 0 1539 2.7 82 2234 0.1 3	8 Th 0150 2.7 82 0855 -0.1 -3 1425 2.7 82 2138 0.0 0	23 F 0329 2.4 73 1010 -0.1 -3 1555 2.6 79 2255 0.0 0						
9 Su 0047 3.0 91 0816 0.6 18 1338 2.7 82 2008 0.6 18	24 M 0231 3.0 91 0945 0.2 6 1510 2.9 88 2202 0.2 6	9 W 0218 2.8 85 0933 0.2 6 1500 2.8 85 2200 0.3 9	24 Th 0404 2.6 79 1055 0.0 0 1632 2.8 85 2329 0.0 0	9 F 0255 2.6 79 0953 -0.1 -3 1526 2.9 88 2247 -0.1 -3	24 Sa 0423 2.3 70 1059 -0.1 -3 1645 2.6 79 2348 0.0 0						
10 M 0148 3.0 91 0917 0.6 18 1440 2.7 82 2115 0.5 15	25 Tu 0335 3.0 91 1040 0.1 3 1609 2.9 88 2301 0.2 6	10 Th 0324 2.9 88 1031 0.1 3 1600 2.9 88 2309 0.2 6	25 F 0457 2.6 79 1143 0.0 0 1721 2.8 85	10 Sa 0400 2.6 79 1053 -0.2 -6 1626 3.0 91 2352 -0.2 -6	25 Su 0513 2.3 70 1147 -0.1 -3 1733 2.6 79						
11 Tu 1017 0.5 15 1541 2.8 85 2226 0.5 15	26 W 0433 3.0 91 1132 0.1 3 1702 3.0 91 2356 0.1 3	11 F 0427 2.9 88 1128 0.0 0 1655 3.1 94	26 Sa 0020 0.0 0 0546 2.6 79 1228 0.0 0 1806 2.9 88	11 Su 0501 2.7 82 1153 -0.3 -9 1722 3.1 94	26 M 0038 -0.1 -3 0601 2.3 70 1233 -0.1 -3 1817 2.6 79						
12 W 1114 0.4 12 1637 3.0 91 2333 0.4 12	27 Th 0525 3.0 91 1220 0.1 3 1751 3.1 94	12 Sa 0012 0.0 0 0525 3.0 91 1222 -0.1 -3 1748 3.3 101	27 Su 0109 0.0 0 0631 2.6 79 1310 0.0 0 1848 2.9 88	12 M 0052 -0.3 -9 0558 2.7 82 1251 -0.4 -12 1817 3.2 98	27 Tu 0125 -0.1 -3 0646 2.4 73 1318 -0.1 -3 1858 2.7 82						
13 Th 1207 0.2 6 1729 3.2 98	28 F 0048 0.1 3 0613 3.0 91 1304 0.1 3 1835 3.1 94	13 Su 0110 -0.1 -3 0619 3.0 91 1315 -0.2 -6 1839 3.4 104	28 M 0154 -0.1 -3 0714 2.6 79 1350 0.0 0 1927 2.9 88	13 Tu 0148 -0.4 -12 0653 2.8 85 1348 -0.4 -12 O 1910 3.3 101	28 W 0209 -0.1 -3 0728 2.4 73 1401 -0.1 -3 1936 2.7 82						
14 F 0034 0.2 6 0552 3.2 98 1257 0.1 3 1817 3.3 101	29 Sa 0135 0.1 3 0658 3.0 91 1345 0.1 3 1916 3.2 98	14 M 0206 -0.2 -6 0712 3.0 91 1408 -0.3 -9 O 1929 3.5 107	29 Tu 0237 -0.1 -3 0755 2.6 79 1428 0.0 0 O 2002 2.9 88	14 W 0242 -0.5 -15 0746 2.8 85 1443 -0.5 -15 2003 3.2 98	29 Th 0251 -0.2 -6 0807 2.4 73 1443 -0.2 -6 O 2011 2.7 82						
15 Sa 0130 0.1 3 0643 3.3 101 1345 0.0 0 O 1905 3.5 107	30 Su 0220 0.1 3 0740 2.9 88 1423 0.1 3 O 1954 3.2 98	15 Tu 0300 -0.3 -9 0804 3.0 91 1500 -0.3 -9 2020 3.5 107	30 W 0317 0.0 0 0833 2.5 76 1505 0.0 0 2035 2.9 88	15 Th 0335 -0.5 -15 0839 2.8 85 1537 -0.5 -15 2055 3.2 98	30 F 0331 -0.2 -6 0843 2.4 73 1524 -0.2 -6 2046 2.7 82						
	31 M 0302 0.1 3 0819 2.9 88 1458 0.1 3 2029 3.1 94				31 Sa 0410 -0.2 -6 0918 2.4 73 1605 -0.2 -6 2122 2.7 82						

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Chesapeake Bay Bridge Tunnel, Virginia, 2016

Times and Heights of High and Low Waters

January				February				March			
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height
h m	ft	cm		h m	ft	cm		h m	ft	cm	
1 F	0050	2.1	64	16	0043	2.6	79	1	0139	2.2	67
0700	0.3	9		Sa	0656	-0.1	-3	M	0758	0.4	12
1259	2.1	64		Sa	1258	2.4	73		1349	1.9	58
1923	0.1	3		●	1921	-0.4	-12		2004	0.2	6
									2109	-0.1	-3
2 Sa	0142	2.1	64	17	0146	2.6	79	2	0234	2.2	67
0757	0.4	12		Su	0805	0.0	0	Tu	0856	0.4	12
1349	2.0	61		Su	1401	2.2	67		1446	1.8	55
●	2010	0.2	6		2022	-0.3	-9		2059	0.1	3
									2215	-0.1	-3
3 Su	0237	2.2	67	18	0254	2.6	79	3	0333	2.3	70
0855	0.4	12		M	0915	0.0	0	W	0955	0.3	9
1443	1.9	58		M	1510	2.1	64		1546	1.8	55
2059	0.1	3			2124	-0.3	-9		2154	0.1	3
									2315	-0.2	-6
4 M	0333	2.2	67	19	0403	2.7	82	4	0431	2.4	73
0952	0.4	12		Tu	1023	-0.1	-3	Th	1050	0.2	6
1540	1.9	58		Tu	1621	2.1	64		1646	1.9	58
2148	0.1	3			2226	-0.3	-9		2248	-0.1	-3
5 Tu	0426	2.3	70	20	0507	2.8	85	5	0525	2.5	76
1044	0.3	9		W	1125	-0.2	-6	F	1140	0.0	0
1635	1.9	58		W	1727	2.2	67		1741	2.1	64
2236	0.0	0			2325	-0.4	-12		2340	-0.2	-6
									1902	2.4	73
6 W	0515	2.5	76	21	0605	2.9	88	6	0615	2.7	82
1131	0.1	3		Th	1221	-0.2	-6	Sa	1228	-0.1	-3
1727	2.0	61		Th	1825	2.2	67		1832	2.3	70
2323	-0.1	-3							1943	2.5	76
7 Th	0601	2.6	79	22	0019	-0.4	-12	7	0030	-0.4	-12
1216	0.0	0		F	0656	2.9	88	Su	0702	2.9	88
1815	2.0	61		F	1311	-0.3	-9		1314	-0.3	-9
					1916	2.3	70		1920	2.4	73
									2021	2.5	76
8 F	0008	-0.2	-6	23	0109	-0.4	-12	8	0119	-0.5	-15
0644	2.7	82		Sa	0743	2.9	88	M	0748	3.0	91
1258	-0.1	-3		Sa	1357	-0.3	-9		1359	-0.4	-12
1900	2.2	67		○	2001	2.3	70		2008	2.6	79
									2057	2.6	79
9 Sa	0053	-0.3	-9	24	0156	-0.4	-12	9	0208	-0.6	-18
0727	2.9	88		Su	0825	2.9	88	Tu	0833	3.1	94
1341	-0.3	-9		Su	1439	-0.3	-9		1444	-0.6	-18
●	1944	2.3	70		2043	2.4	73		2055	2.8	85
									2132	2.6	79
10 Su	0138	-0.4	-12	25	0239	-0.4	-12	10	0258	-0.6	-18
0809	2.9	88		M	0904	2.8	85	Th	0919	3.0	91
1424	-0.4	-12			1519	-0.3	-9		1530	-0.6	-18
2028	2.4	73			2123	2.4	73		2144	2.8	85
									2207	2.5	76
11 M	0224	-0.5	-15	26	0321	-0.3	-9	11	0349	-0.6	-18
0852	3.0	91		Tu	0942	2.7	82		1005	2.9	88
1507	-0.4	-12			1556	-0.2	-6		1618	-0.6	-18
2114	2.4	73			2202	2.3	70		2234	2.9	88
									2243	2.5	76
12 Tu	0312	-0.5	-15	27	0402	-0.2	-6	12	0443	-0.5	-15
0936	2.9	88		W	1018	2.5	76	Th	1054	2.8	85
1552	-0.5	-15			1633	-0.1	-3		1708	-0.5	-15
2201	2.5	76			2240	2.3	70		2327	2.9	88
									2321	2.4	73
13 W	0402	-0.4	-12	28	0443	0.0	0	13	0540	-0.3	-9
1021	2.9	88		Th	1055	2.4	73	Sa	1146	2.6	79
1640	-0.5	-15			1709	-0.1	-3		1801	-0.4	-12
2251	2.5	76			2320	2.3	70		2359	-0.3	-9
									2387	0.3	3
14 Th	0455	-0.3	-9	29	0526	0.1	3	14	0024	2.8	85
1110	2.7	82		F	1132	2.2	67	Su	0642	-0.1	-3
1730	-0.5	-15			1747	0.0	0		1242	2.4	73
2344	2.5	76							1859	-0.3	-9
15 F	0553	-0.2	-6	30	0002	2.2	67	15	0127	2.7	82
1202	2.6	79		Sa	0612	0.2	6	M	0750	0.0	0
1823	-0.4	-12			1213	2.1	64		1346	2.2	67
					1828	0.1	3		2002	-0.2	-6
	31	0048	2.2	67							
	Su	0702	0.3	9							
	1258	1.9	58								
	●	1914	0.2	6							

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Chesapeake Bay Bridge Tunnel, Virginia, 2016

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	0202	2.5 76	16	0409	2.5 76	1	0232	2.6 79	16	0422	2.3 70	1	0413	2.6 79	
	0828	0.4 12	Sa	1019	0.4 12	Su	0856	0.2 6	M	1024	0.4 12	W	1023	-0.2 -6	
	1430	2.2 67	1637	2.5 76	1508	2.6 79	1650	2.6 79	1651	3.1 94	1651	-0.1 -3	Th	1101 1735	0.3 2.7
	2044	0.3 9	2243	0.3 9	2125	0.2 6	2305	0.4 12	2313	-0.1 -3	2357	0.3 9			
2 Sa	0306	2.6 79	17	0506	2.5 76	2	0337	2.7 82	17	0511	2.3 70	2	0516	2.6 79	
	0929	0.3 9	Su	1109	0.3 9	M	0955	0.1 3	Tu	1107	0.3 9	Th	1120 1750	-0.3 3.3	
	1535	2.4 73	1728	2.6 79	1612	2.8 85	1734	2.7 82		2350	0.3 9		1817	2.8 85	
	2149	0.2 6	2335	0.2 6	2229	0.0 0									
3 Su	0410	2.7 82	18	0553	2.5 76	3	0440	2.8 85	18	0555	2.3 70	3	0011	-0.3 -9	
	1028	0.2 6	M	1151	0.3 9	Tu	1051	-0.1 -3	W	1146	0.3 85	F	0616 1215	2.7 -0.4	
	1638	2.6 79	1811	2.7 82	1712	3.1 94	1814	2.8 85		1846	3.5 107	Sa	0639 1225	2.2 0.2	
	2250	0.0 0			2329	-0.2 -6							1857	2.9 88	
4 M	0511	2.8 85	19	0020	0.2 6	4	0540	2.8 85	19	0031	0.2 6	4	0107	-0.4 -12	
	1122	0.0 0	Tu	0634	2.6 79	W	1145	-0.3 -9	Th	0636	2.4 73	Sa	0713 1308	2.7 -0.4	
	1737	2.9 88	1229	0.2 6	1809	3.3 101	1224	0.2 6		1852	2.9 88	●	1939	3.5 107	
	2348	-0.2 -6	1849	2.8 85											
5 Tu	0607	3.0 91	20	0100	0.1 3	5	0026	-0.3 -9	20	0109	0.2 6	5	0200	-0.4 -12	
	1214	-0.2 -6	W	0711	2.6 79	Th	0636	2.9 88	F	0714	2.4 73	Su	0807 1402	2.8 -0.4	
	1832	3.1 94	1304	0.2 6	1237	-0.4 -12	1300	0.2 6		1928	2.9 88		2031	3.5 107	
			1925	2.9 88	1903	3.5 107							O	2015	3.0 91
6 W	0043	-0.4 -12	21	0137	0.1 3	6	0121	-0.5 -15	21	0145	0.1 3	6	0253	-0.4 -12	
	0700	3.1 94	Th	0746	2.6 79	F	0731	3.0 91	Sa	0751	2.4 73	M	0900 1455	2.8 -0.3	
	1304	-0.4 -12	1337	0.2 6	1329	-0.5 -15	1337	0.2 6		2004	2.9 88		2122	3.4 104	
	1924	3.4 104	1959	2.9 88	●	1956	3.6 110	O	2004	2.9 88		2054	3.0 91		
7 Th	0137	-0.5 -15	22	0211	0.1 3	7	0215	-0.5 -15	22	0220	0.1 3	7	0344	-0.3 -9	
	0751	3.1 94	F	0820	2.6 79	Sa	0823	3.0 91	Su	0827	2.4 73	Tu	0951 1548	2.7 -0.2	
	1353	-0.5 -15	1410	0.2 6	1421	-0.4 -12	1414	0.2 6		2040	2.9 88		2212	3.2 98	
	● 2015	3.5 107	O	2032	2.9 88	2047	3.6 110						2134	2.9 88	
8 F	0230	-0.6 -18	23	0246	0.1 3	8	0308	-0.5 -15	23	0256	0.1 3	8	0435	-0.2 -6	
	0841	3.1 94	Sa	0854	2.5 76	Su	0915	2.9 88	M	0904	2.4 73	W	1042 1642	2.6 0.0	
	1443	-0.5 -15	1444	0.2 6	1513	-0.4 -12	1452	0.2 6		2117	2.9 88		2302	3.0 91	
	2106	3.5 107	2106	2.9 88	2139	3.5 107								2216	2.9 88
9 Sa	0322	-0.5 -15	24	0320	0.1 3	9	0401	-0.4 -12	24	0334	0.1 3	9	0526	-0.1 -3	
	0932	3.0 91	Su	0928	2.5 76	M	1008	2.8 85	Tu	0941	2.4 73	Th	1134 1737	2.6 0.1	
	1533	-0.4 -12	1519	0.2 6	1606	-0.2 -6	1532	0.2 6		2155	2.9 88		2352	2.8 85	
	2157	3.5 107	2141	2.9 88	2231	3.3 101								2301	2.8 85
10 Su	0416	-0.4 -12	25	0356	0.2 6	10	0455	-0.2 -6	25	0413	0.1 3	10	0617	0.1 3	
	1023	2.9 88	M	1004	2.4 73	Tu	1101	2.7 82	W	1021	2.4 73	F	1227 1835	2.5 0.3	
	1625	-0.3 -9	1556	0.3 9	1702	0.0 0	1615	0.3 9		2235	2.8 85		1135 1740	2.6 0.2	
	2250	3.3 101	2218	2.8 85	2325	3.1 94								2350	2.7 82
11 M	0512	-0.2 -6	26	0435	0.2 6	11	0551	0.0 0	26	0456	0.1 3	11	0043	2.6 79	
	1117	2.7 82	Tu	1042	2.4 73	W	1157	2.6 79	Th	1104	2.4 73	Sa	0707 1321	0.2 2.5	
	1721	-0.1 -3	1637	0.3 9	1801	0.1 3				2320	2.8 85		1935	0.4 12	
	2345	3.1 94	2258	2.7 82										26	0611	0.0 0
12 Tu	0611	0.0 0	27	0517	0.3 9	12	0021	2.9 88	27	0543	0.2 6	12	0136	2.4 73	
	1214	2.6 79	W	1123	2.3 70	Th	0649	0.1 3	F	1152	2.4 73	Su	0757 1417	0.3 2.4	
	1821	0.1 3	1723	0.4 12	1256	2.5 76	1755	0.3 9				O	2036	0.5 15	
			2342	2.7 82	1905	0.3 9							●	1943	0.2 6
13 W	0045	2.9 88	28	0605	0.3 9	13	0121	2.7 82	28	0009	2.7 82	13	0231	2.2 67	
	0714	0.2 6	Th	1210	2.3 70	F	0747	0.3 9	Sa	0634	0.1 3	M	0846 1511	0.3 2.5	
	1318	2.4 73	1815	0.4 12	1359	2.4 73	1855	0.3 9		2133	0.5 15		2133	0.5 15	
	● 1927	0.2 6	O	1914	0.4 12	2115	0.4 12							2050	0.1 3
14 Th	0152	2.7 82	29	0033	2.6 79	14	0223	2.5 76	29	0104	2.6 79	14	0326	2.1 64	
	0819	0.3 9	F	0658	0.4 12	Sa	0844	0.3 9	Su	0729	0.1 3	Tu	0933 1603	0.3 2.5	
	1427	2.4 73	1304	2.3 70	1502	2.4 73	1344	2.6 79		2226	0.4 12		1531	3.0 91	
	2037	0.3 9	O	1914	0.4 12	2115	0.4 12	O	1959	0.3 9		2156	0.1 3		
15 F	0302	2.6 79	30	0130	2.6 79	15	0325	2.4 73	30	0204	2.6 79	15	0420	2.1 64	
	0922	0.4 12	Sa	0756	0.3 9	Su	0937	0.4 12	M	0827	0.0 0	W	1018 1651	0.3 2.6	
	1536	2.4 73	1404	2.4 73	1600	2.5 76	1446	2.7 82		2313	0.4 12		2156	0.1 3	
	2144	0.3 9	2019	0.3 9	2213	0.4 12							2259	-0.1 -3	
31	0045	2.9 88							31	0308	2.6 79				
	0714	0.2 6							Tu	0926	-0.1 -3				
	1318	2.4 73							1550	2.9 88					
	● 1927	0.2 6							2211	0.0 0					

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Chesapeake Bay Bridge Tunnel, Virginia, 2016

Times and Heights of High and Low Waters

July				August				September															
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height												
1 F 0459 1100 1735 2358	2.5 -0.2 3.3 -0.2	ft -6 101 -6	cm 76 9 101 85	16 Sa 0514 1105 1741	2.2 0.3 2.8 85	ft 67 9 85	cm 0 9 -3 101	1 M 0040 0649 1242 1914	0.0 2.7 -0.1 3.3	ft 82 82 -3 101	cm 0 79 6 94	16 Th 0008 0616 1210 1839	0.3 2.6 0.2 3.1	ft 9 79 6 94	cm 9 1 6 94	16 F 0150 0804 1404 2021	0.1 3.0 0.2 3.1	ft 3 91 6 94	cm 0 91 6 94	16 O 0104 0722 1327 1942	0.0 3.3 0.0 3.4	ft 0 101 0 104	cm 0 101 0 104
2 Sa 0602 1158 1832	2.5 -0.3 3.3	ft -9 101	cm 76 70 101	17 Su 0001 0603 1152 1826	0.3 2.3 0.2 2.9	ft 9 70 6 88	cm 9 85 -3 101	2 Tu 0130 0740 1333 2001	-0.1 2.8 -0.1 3.3	ft 85 85 -3 101	cm -3 85 3 98	17 W 0052 0703 1258 1923	0.1 2.8 0.1 3.2	ft 3 85 3 98	cm 3 85 3 91	2 F 0227 0842 1445 2057	0.2 3.1 0.2 3.0	ft 6 94 6 91	cm 6 94 6 91	17 Sa 0149 0809 1417 2029	-0.1 3.5 -0.1 3.4	ft -3 107 -3 104	cm -3 107 -3 104
3 Su 0054 0700 1253 1926	-0.3 2.6 -0.3 3.4	ft 79 73 104	cm -9 79 -9 104	18 M 0043 0649 1237 1908	0.2 2.4 0.1 3.0	ft 6 73 3 91	cm 6 73 0 91	3 W 0215 0826 1422 2044	-0.1 2.8 0.0 3.2	ft -3 85 0 98	cm -3 88 0 101	18 Th 0135 0748 1346 2007	0.0 2.9 0.0 3.3	ft 0 88 0 101	cm 0 88 0 101	3 Sa 0303 0919 1525 2133	0.2 3.1 0.3 2.9	ft 6 94 9 88	cm 6 94 9 88	18 Su 0235 0857 1509 2117	-0.2 3.6 -0.1 3.3	ft -6 110 -3 101	cm -6 110 -3 101
4 M 0146 0753 1346 ● 2016	-0.3 2.7 -0.3 3.3	ft 82 82 -9 101	cm 76 76 -9 101	19 Tu 0124 0732 1322 1950	0.1 2.5 0.1 3.0	ft 3 76 3 91	cm 3 76 0 91	4 Th 0258 0909 1508 2125	-0.1 2.8 0.0 3.1	ft -3 85 0 94	cm -3 85 0 94	19 F 0218 0833 1435 2052	-0.1 3.1 -0.1 3.3	ft -3 94 101 101	cm -3 94 101 101	4 Su 0337 0955 1604 2208	0.3 3.0 0.4 2.8	ft 9 91 12 85	cm 9 91 12 85	19 M 0322 0947 1602 2207	-0.2 3.7 0.0 3.2	ft -6 113 0 98	cm -6 113 0 98
5 Tu 0236 0844 1438 2104	-0.3 2.7 -0.2 3.2	ft 82 82 -6 98	cm 79 79 -6 98	20 W 0204 0814 1406 2031	0.0 2.6 0.0 3.1	ft 0 79 0 94	cm 0 79 0 94	5 F 0338 0950 1552 2204	0.0 2.8 0.2 2.9	ft 0 85 6 88	cm 0 85 6 88	20 Sa 0302 0919 1524 2137	-0.2 3.2 -0.1 3.2	ft -6 98 -3 98	cm -6 98 -3 98	5 M 0411 1031 1644 2245	0.4 3.0 0.5 2.6	ft 12 91 15 79	cm 12 91 15 79	20 Tu 0412 1038 1658 2300	-0.1 3.6 0.1 3.0	ft -3 110 3 91	cm -3 110 3 91
6 W 0324 0932 1528 2150	-0.2 2.7 -0.1 3.1	ft 82 82 -3 94	cm 76 76 -3 94	21 Th 0245 0857 1452 2114	-0.1 2.7 0.0 3.1	ft -3 82 0 94	cm -3 82 0 94	6 Sa 0417 1030 1636 2243	0.1 2.8 0.3 2.7	ft 3 85 9 82	cm 3 85 9 82	21 Su 0347 1007 1617 2225	-0.2 3.3 0.0 3.1	ft -6 101 0 94	cm -6 101 0 94	6 Tu 0447 1110 1726 2324	0.5 2.9 0.6 2.5	ft 15 88 18 76	cm 15 88 18 76	21 W 0506 1133 1758 2357	0.0 3.5 0.2 2.8	ft 0 107 6 85	cm 0 107 6 85
7 Th 0410 1019 1618 2235	-0.1 2.7 0.0 2.9	ft 82 82 0 88	cm 79 79 0 88	22 F 0328 0941 1540 2157	-0.1 2.8 0.0 3.0	ft -3 85 0 91	cm -3 85 0 91	7 Su 0454 1110 1721 2322	0.2 2.8 0.4 2.6	ft 6 85 12 79	cm 6 85 12 79	22 M 0435 1058 1712 2315	-0.1 3.3 0.1 2.9	ft -3 101 3 88	cm -3 101 3 88	7 W 0527 1152 1812 1903	0.6 2.8 0.7 0.4	ft 18 85 21 12	cm 18 85 21 12	22 Th 0604 1233 1903	0.2 3.3 0.4	ft 6 101 12 12	cm 6 101 12 12
8 F 0454 1104 1708 2318	0.0 2.6 0.2 2.7	ft 79 79 6 82	cm 0 79 6 82	23 Sa 0412 1028 1631 2243	-0.2 2.9 0.0 2.9	ft -6 88 0 88	cm -6 88 0 88	8 M 0533 1152 1808 1812	0.3 2.7 0.6 0.2	ft 9 82 18 6	cm 9 82 18 6	23 Tu 0527 1152 1812 1903	0.0 2.8 0.2 0.8	ft 0 85 21 24	0 85 21 24	23 F 0101 0709 1340 2012	2.7 0.4 3.2 0.4	ft 82 12 98 12	cm 82 12 98 12				
9 Sa 0538 1150 1800	0.1 2.6 0.3	ft 79 79 9	cm 0 79 9	24 Su 0459 1117 1726 2332	-0.1 2.9 0.1 2.8	ft -3 88 3 85	cm -3 88 3 85	9 Tu 0003 0613 1237 1858	2.4 0.4 2.7 0.7	ft 73 12 82 21	cm 73 12 82 21	24 W 0010 0622 1251 1917	2.8 0.1 3.2 0.3	ft 85 24 24 24	cm 85 24 24 24	24 F 0214 0819 1451 2120	2.6 0.5 3.1 0.5	ft 79 15 94 15	cm 79 15 94 15				
10 Su 0002 0621 1237 1853	2.5 0.2 2.5 0.5	ft 76 6 76 15	cm 76 6 76 15	25 M 0549 1210 1825 1952	-0.1 3.0 0.2 0.7	ft -3 91 6 21	cm -3 91 6 21	10 W 0049 0658 1325 1952	2.3 0.5 2.6 0.7	ft 70 15 79 21	cm 70 15 79 21	25 Th 0112 0724 1355 2025	2.6 0.2 3.2 0.4	ft 79 6 98 12	cm 79 6 98 12	25 Sa 0153 0758 1426 2057	2.3 0.8 2.7 0.8	ft 70 24 82 24	cm 70 24 82 24	25 Su 0330 0929 1601 2221	2.6 0.5 3.1 0.4	ft 79 15 94 12	cm 79 15 94 12
11 M 0048 0705 1326 ● 1948	2.3 0.3 2.5 0.5	ft 70 9 76 15	cm 76 9 76 15	26 Tu 0026 0643 1308 1929	2.7 -0.1 3.0 0.2	ft 82 -3 91 6	cm 82 -3 91 6	11 Th 0139 0748 1418 2048	2.2 0.6 2.6 0.7	ft 67 18 79 21	cm 67 18 79 21	26 F 0221 0830 1505 2134	2.5 0.3 3.1 0.4	ft 76 9 94 12	cm 76 9 94 12	26 Su 0253 0858 1526 2152	2.3 0.7 2.8 0.7	ft 70 21 85 21	cm 70 21 85 21	26 M 0437 1034 1702 2315	2.7 0.4 3.1 0.4	ft 82 12 94 12	cm 82 12 94 12
12 Tu 0136 0751 1417 2044	2.2 0.4 2.5 0.6	ft 67 12 76 18	cm 76 0 76 6	27 W 0125 0741 1410 2037	2.5 0.0 3.0 0.2	ft 76 0 91 6	cm 76 0 91 6	12 F 0235 0841 1514 2143	2.1 0.6 2.7 0.7	ft 64 18 82 21	cm 64 18 82 21	27 Sa 0335 0937 1614 2237	2.5 0.3 3.1 0.3	ft 76 9 94 9	cm 76 9 94 9	27 M 0355 0957 1624 2244	2.4 0.6 2.9 0.5	ft 73 18 88 15	cm 73 18 88 15	27 Tu 0534 1130 1754 2315	2.8 0.4 3.1 0.4	ft 85 12 94 12	cm 85 12 94 12
13 W 0229 0839 1510 2139	2.1 0.4 2.5 0.6	ft 64 12 76 18	cm 0 0 76 6	28 Th 0230 0843 1517 2144	2.5 0.0 3.1 0.2	ft 76 0 94 6	cm 76 0 94 6	13 Sa 0335 0936 1610 2235	2.2 0.6 2.7 0.6	ft 67 18 78 18	cm 67 18 78 18	28 Tu 0446 1041 1717 2334	2.6 0.3 3.2 0.3	ft 79 9 98 9	cm 79 9 98 9	13 W 0452 1053 1717 2332	2.6 0.4 3.1 0.3	ft 79 12 94 9	cm 79 12 94 9	28 F 0002 0621 1220 1839	0.3 3.0 0.3 3.1	ft 9 91 9 94	cm 9 91 9 94
14 Th 0325 0928 1603 2230	2.1 0.4 2.6 0.5	ft 64 12 76 15	cm 0 0 76 6	29 F 0340 0946 1623 2248	2.4 0.0 3.1 0.1	ft 73 0 94 3	cm 73 0 94 3	14 Su 0433 1030 1703 2323	2.3 0.5 2.8 0.5	ft 70 15 85 15	cm 70 15 85 15	29 M 0546 1140 1811 1807	2.7 0.2 3.2 0.3	ft 82 6 98 98	cm 82 6 98 98	14 W 0545 1146 1807 1855	2.8 0.3 3.2 3.3	ft 85 9 98 101	cm 85 9 98 101	29 Th 0043 0702 1304 1918	0.3 3.1 0.3 3.0	ft 9 94 9 91	cm 9 94 9 91
15 F 0421 1017 1654 2317	2.1 0.4 2.7 0.4	ft 64 12 76 12	cm 0 0 76 0	30 Sa 0450 1048 1725 2347	2.5 0.0 3.2 0.0	ft 76 0 98 0	cm 76 0 98 0	15 M 0527 1121 1752 1954	2.4 0.3 3.0 0.0	ft 73 9 91 101	cm 73 9 91 101	30 Tu 0024 0638 1232 1859	0.2 2.8 0.2 3.2	ft 6 85 6 98	cm 6 85 6 98	15 Th 0019 0634 1237 1855	0.2 3.1 0.1 3.3	ft 6 94 3 101	cm 6 94 3 101	30 F 0120 0739 1344 1954	0.3 3.2 0.3 3.0	ft 9 98 9 91	cm 9 98 9 91
31 Su 0553 1147 1822	2.6 0.0 3.3	ft 79 0 101	cm 79 0 101	31 W 0109 0723 1320 1942	0.1 2.9 0.2 3.2	ft 3 88 6 98	cm 3 88 6 98	31 W 0109 0723 1320 1942	0.1 2.9 0.2 3.2	ft 3 88 6 98	cm 3 88 6 98	31 W 0109 0723 1320 1942	0.1 2.9 0.2 3.2	ft 3 88 6 98	cm 3 88 6 98	31 F 0120 0739 1344 1954	0.3 3.2 0.3 3.0	ft 9 98 9 91	cm 9 98 9 91				

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Chesapeake Bay Bridge Tunnel, Virginia, 2016

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	0154	0.3	9	16 Su	0122	-0.3	-9	1 Tu	0226	0.3	9	16 W	0240	-0.5	-15
	0814	3.2	98		0747	3.7	113		0853	3.1	94		0911	3.7	113
	1422	0.3	9		1401	-0.2	-6		1508	0.3	9		1532	-0.4	-12
	2028	2.9	88		2008	3.2	98		2109	2.5	76		2135	2.8	85
2 Su	0226	0.3	9	17 M	0210	-0.3	-9	2 W	0301	0.3	9	17 Th	0334	-0.4	-12
	0847	3.2	98		0837	3.8	116		0927	3.0	91		1003	3.5	107
	1459	0.4	12		1453	-0.2	-6		1544	0.4	12		1627	-0.2	-6
	2102	2.8	85		2058	3.2	98		2146	2.5	76		2230	2.7	82
3 M	0259	0.4	12	18 Tu	0300	-0.3	-9	3 Th	0337	0.4	12	18 F	0429	-0.2	-6
	0921	3.2	98		0927	3.8	116		1004	3.0	91		1057	3.3	101
	1535	0.4	12		1547	-0.2	-6		1622	0.4	12		1724	-0.1	-3
	2137	2.7	82		2150	3.1	94		2224	2.4	73		2328	2.6	79
4 Tu	0333	0.4	12	19 W	0352	-0.2	-6	4 F	0416	0.5	15	19 Sa	0529	0.0	0
	0956	3.1	94		1020	3.7	113		1042	2.9	88		1154	3.1	94
	1612	0.5	15		1643	0.0	0		1703	0.5	15		1824	0.0	0
	2213	2.6	79		2245	2.9	88		2306	2.3	70				
5 W	0408	0.5	15	20 Th	0447	0.0	0	5 Sa	0500	0.5	15	20 Su	0030	2.5	76
	1033	3.0	91		1115	3.5	107		1125	2.8	85		0633	0.2	6
	1651	0.6	18		1743	0.1	3		1749	0.5	15		1254	2.8	85
	2251	2.5	76		2344	2.8	85		2352	2.3	70		1925	0.1	3
6 Th	0447	0.6	18	21 F	0547	0.2	6	6 Su	0550	0.6	18	21 M	0136	2.4	73
	1113	2.9	88		1215	3.3	101		1212	2.7	82		0742	0.3	9
	1734	0.7	21		1847	0.3	9		1841	0.5	15		1357	2.6	79
	2334	2.4	73									O	2025	0.2	6
7 F	0531	0.7	21	22 Sa	0049	2.6	79	7 M	0045	2.3	70	22 Tu	0244	2.4	73
	1157	2.8	85		0654	0.4	12		0648	0.6	18		0850	0.4	12
	1822	0.8	24		1320	3.1	94		1306	2.7	82		1501	2.5	76
				O	1953	0.4	12	O	1936	0.5	15	O	1958	0.0	0
8 Sa	0022	2.3	70	23 Su	0201	2.6	79	8 Tu	0144	2.4	73	23 W	0346	2.5	76
	0622	0.8	24		0805	0.5	15		0751	0.6	18		0953	0.4	12
	1247	2.8	85		1430	2.9	88		1404	2.7	82		1600	2.4	73
	O	1916	0.8		2058	0.4	12		2033	0.3	9		2210	0.2	6
9 Su	0116	2.3	70	24 M	0314	2.6	79	9 W	0246	2.5	76	24 Th	0440	2.6	79
	0720	0.8	24		0915	0.5	15		0857	0.4	12		1048	0.4	12
	1343	2.8	85		1538	2.8	85		1506	2.7	82		1652	2.3	70
	2014	0.7	21		2156	0.4	12		2129	0.2	6		2254	0.2	6
10 M	0216	2.4	73	25 Tu	0418	2.7	82	10 Th	0348	2.8	85	25 F	0526	2.7	82
	0823	0.7	21		1019	0.5	15		1000	0.3	9		1137	0.3	9
	1443	2.8	85		1638	2.8	85		1607	2.7	82		1737	2.3	70
	2111	0.6	18		2248	0.3	9		2223	0.0	0		2334	0.1	3
11 Tu	0319	2.5	76	26 W	0512	2.8	85	11 F	0447	3.0	91	26 Sa	0606	2.8	85
	0926	0.6	18		1114	0.4	12		1100	0.1	3		1219	0.2	6
	1544	2.9	88		1728	2.8	85		1706	2.8	85		1818	2.3	70
	2206	0.4	12		2332	0.3	9		2316	-0.2	-6				
12 W	0419	2.8	85	27 Th	0557	2.9	88	12 Sa	0542	3.3	101	27 M	0011	0.1	3
	1026	0.4	12		1202	0.4	12		1157	-0.1	-3		0643	2.9	88
	1642	3.0	91		1812	2.7	82		1802	2.9	88		1258	0.2	6
	2257	0.2	6										1856	2.3	70
13 Th	0515	3.0	91	28 F	0011	0.2	6	13 Su	0007	-0.4	-12	28 W	0047	0.0	0
	1122	0.2	6		0636	3.0	91		0636	3.5	107		0719	2.9	88
	1736	3.1	94		1244	0.3	9		1252	-0.3	-9		1334	0.1	3
	2346	0.0	0		1850	2.7	82		1856	3.0	91		1933	2.3	70
14 F	0607	3.3	101	29 Sa	0046	0.2	6	14 M	0058	-0.5	-15	29 Tu	0122	0.0	0
	1216	0.0	0		0712	3.1	94		0727	3.7	113		0754	2.9	88
	1828	3.2	98		1322	0.3	9		1345	-0.4	-12		1409	0.1	3
					1925	2.7	82		O	1949	3.0	91		2009	2.3	70
15 Sa	0034	-0.2	-6	30 Su	0120	0.2	6	15 Tu	0149	-0.5	-15	30 W	0158	0.0	0
	0657	3.5	107		0746	3.1	94		0819	3.7	113		0828	2.9	88
	1309	-0.1	-3		1358	0.3	9		1439	-0.4	-12		1444	0.1	3
	O	1918	3.3		2000	2.7	82		2042	2.9	88		2046	2.3	70
31 Sa	0152	0.2	6	31 M	0152	0.2	6					31 Th	0225	-0.6	-18
	0819	3.1	94		0819	3.1	94						0805	3.5	107
	1433	0.3	9		1433	0.3	9						1425	-0.6	-18
	2034	2.6	79		2034	2.6	79						2028	2.7	82

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Hampton Roads (Sewells Pt.), Virginia, 2016

Times and Heights of High and Low Waters

January				February				March													
Time	Height	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 F	0144 0755 1358 2019	2.1 0.3 2.0 0.1	64 9 61 3	16 Sa 1403 ●	0138 0759 2.3 -0.3	2.5 -0.1 70 -9	1 M	0235 0857 1446 2105	2.1 0.4 1.8 0.2	64 12 55 6	16 Tu 1555 2202	0328 0956 2.1 -0.1	2.6 0.1 64 -3	1 O	0145 0811 1400 2016	2.3 0.4 2.0 0.3	70 12 61 9	16 W	0309 0936 1538 2144	2.6 0.2 2.2 0.1	79 6 67 3
2 Sa	0237 0851 1449 ●	2.1 0.3 1.9 0.1	64 9 58 3	17 Su 1506 2118	0240 0905 2.2 -0.3	2.5 -0.1 67 -9	2 Tu	0332 0957 1545 2201	2.1 0.4 1.8 0.2	64 12 55 6	2 W	0241 0910 1701 2306	2.2 0.4 1.9 -0.1	67 12 58 -3	17 Th	0418 1041 1644 2250	2.6 0.2 2.2 0.1	79 6 67 3			
3 Su	0331 0949 1543 2159	2.1 0.3 1.8 0.1	64 9 55 3	18 M	0346 1013 1612 2219	2.5 0.0 2.1 -0.3	3 W	0431 1057 1645 2258	2.2 0.3 1.8 0.1	67 9 55 3	3 Th	0343 1012 1802 2217	2.3 0.4 2.2 0.2	70 12 61 6	18 F	0522 1140 1744 2350	2.5 0.2 2.3 0.1	76 6 70 3			
4 M	0427 1047 1639 2250	2.1 0.3 1.8 0.1	64 9 55 3	19 Tu	0452 1119 1716 2320	2.6 -0.1 2.1 -0.3	4 Th	0529 1154 1743 2353	2.3 0.2 1.9 0.0	70 6 58 0	19 F	0006 0638 1257 1857	-0.1 2.6 0.0 2.3	-3 79 0 70	19 Sa	0619 1232 1837	2.6 0.2 2.4	79 6 73			
5 Tu	0520 1141 1732 2340	2.2 0.2 1.9 0.0	67 6 58 0	20 W	0554 1220 1816	2.7 -0.2 2.2	5 F	0622 1245 1837	2.5 0.0 2.1	76 0 64	20 Sa	0100 0729 1345 1946	-0.2 2.7 -0.1 2.4	-6 82 -3 73	20 Su	0044 0708 1317 1924	0.0 2.6 0.1 2.5	0 79 3 76			
6 W	0609 1232 1823	2.4 0.1 1.9	73 3 58	21 Th	0019 0651 1315 1912	-0.4 2.7 -0.2 2.2	6 Sa	0046 0712 1334 1928	-0.2 2.6 -0.1 2.2	-6 79 -3 67	21 Su	0018 0642 1427 2029	0.0 2.7 -0.2 2.4	0 82 -3 73	21 M	0131 0751 1358 2005	0.0 2.6 0.0 2.6	0 79 0 79			
7 Th	0028 0656 1319 1910	-0.1 2.5 0.0 2.0	-3 76 0 61	22 F	0113 0743 1404 2002	-0.4 2.8 -0.3 2.3	7 Su	0136 0800 1419 2016	-0.3 2.8 -0.3 2.4	-9 85 -9 73	22 M	0234 0854 1506 ○	-0.3 2.7 -0.2 2.5	-9 82 -6 76	22 Tu	0215 0829 1436 2044	0.0 2.6 0.0 2.7	0 79 0 82			
8 F	0115 0741 1404 1955	-0.2 2.6 -0.1 2.1	-6 79 -3 64	23 Sa	0203 0831 1450 ○	-0.4 2.8 -0.3 2.3	8 M	0225 0846 1504 2103	-0.4 2.9 -0.4 2.6	-12 88 -12 79	23 Tu	0316 0932 1543 2147	-0.2 2.6 -0.2 2.5	-6 79 -6 76	23 W	0255 0905 1511 2120	-0.1 2.6 0.0 2.7	-3 79 0 82			
9 Sa	0200 0824 1447 ●	-0.3 2.7 -0.3 2.2	-9 82 -9 67	24 Su	0250 0914 1533 2132	-0.4 2.8 -0.3 2.4	9 Tu	0314 0932 1548 2151	-0.5 2.9 -0.5 2.7	-15 88 -15 82	24 ●	0356 1007 1618 2224	-0.2 2.6 -0.1 2.5	-6 79 -15 76	24 Th	0258 0911 1522 2130	-0.5 3.0 -0.5 3.1	-15 91 -15 94			
10 Su	0245 0907 1530 2124	-0.3 2.8 -0.4 2.3	-9 85 -12 70	25 M	0335 0955 1613 2214	-0.4 2.7 -0.3 2.3	10 W	0404 1018 1633 2239	-0.5 2.9 -0.6 2.8	-15 88 -18 85	25 Th	0434 1042 1653 2300	-0.1 2.5 -0.1 2.5	-3 76 -3 76	25 F	0333 0940 1546 2155	0.0 2.6 0.0 2.7	0 79 0 82			
11 M	0330 0951 1613 2209	-0.4 2.8 -0.4 2.4	-12 85 -12 73	26 Tu	0418 1034 1651 2254	-0.3 2.6 -0.2 2.3	11 Th	0454 1106 1720 2329	-0.5 2.8 -0.6 2.8	-15 85 -18 85	26 F	0512 1116 1728 2336	0.0 2.4 0.0 2.4	0 73 0 73	26 Sa	0447 1046 1653 2304	0.1 2.4 0.1 2.6	3 73 3 79			
12 Tu	0417 1036 1657 2257	-0.4 2.8 -0.5 2.4	-12 85 -15 73	27 W	0459 1112 1729 2333	-0.2 2.4 -0.2 2.3	12 F	0547 1155 1808 2333	-0.4 2.7 -0.5 -0.3	-12 82 -15 70	27 Sa	0552 1151 1803 ○	0.1 2.2 0.1 -12	3 76 3 79	27 Su	0524 1120 1728 2341	0.2 2.3 0.2 2.6	6 70 6 79			
13 W	0507 1122 1742 2346	-0.4 2.7 -0.5 2.5	-12 82 -15 76	28 Th	0541 1149 1806	-0.1 2.3 -0.1 -3	13 Sa	0022 0643 1248 1900	2.8 -0.3 2.5 -0.4	85 -9 76 -12	28 M	0015 0633 1228 1842	2.4 0.2 2.1 0.2	73 6 64 6	28 M	0604 1157 1806	0.3 2.3 0.3	9 70 9			
14 Th	0600 1212 1831	-0.3 2.6 -0.4	-9 79 -12	29 F	0014 0624 1227 1845	2.2 0.1 2.1 0.0	14 Su	0119 0744 1346 1956	2.7 -0.1 2.3 -0.3	82 -3 70 -9	29 M	0057 0719 1310 1926	2.3 0.3 2.0 0.2	70 9 61 6	29 Tu	0021 0647 1238 1849	2.5 0.4 2.2 0.3	76 12 67 9			
15 F	0040 0657 1305 1923	2.5 -0.2 2.5 -0.4	76 -6 76 -12	30 Sa	0056 0710 1308 1927	2.2 0.2 2.0 0.1	15 M	0221 0849 1448 2057	2.6 0.0 2.2 -0.2	79 0 67 -6	30 Tu	0202 0830 1431 2038	2.7 0.1 2.3 0.0	82 3 70 0	31 O	0107 0736 1327 2038	2.5 0.4 2.1 0.4	76 12 64 12			
				31 Su	0143 0801 1354 2013	2.1 0.3 1.9 0.1								31 Th	0201 0832 1424 2038	2.4 0.4 2.1 0.4	73 12 64 12				

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Hampton Roads (Sewells Pt.), Virginia, 2016

Times and Heights of High and Low Waters

April				May				June			
Time	Height	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 F 0303	2.4	73	16 Sa 0453	2.5	76	1 Su 0335	2.5	76	16 W 0508	2.3	70
0932	0.4	12	1107	0.3	9	0958	0.2	6	1115	0.3	9
1527	2.2	67	1718	2.4	73	1605	2.5	76	1735	2.5	76
2144	0.3	9	2328	0.3	9	2226	0.2	6	2350	0.3	9
2 Sa 0408	2.5	76	17 Su 0549	2.5	76	2 M 0439	2.6	79	17 Tu 0557	2.3	70
1033	0.3	9	1157	0.3	9	1055	0.1	3	1200	0.3	9
1632	2.3	70	1810	2.5	76	1707	2.7	82	1821	2.6	79
2250	0.2	6				2330	0.1	3			
3 Su 0511	2.6	79	18 M 0021	0.2	6	3 Tu 0540	2.7	82	18 W 0038	0.3	9
1131	0.2	6	0637	2.5	76	1151	-0.1	-3	0642	2.3	70
1734	2.5	76	1242	0.2	6	1806	3.0	91	1243	0.2	6
2353	0.0	0	1855	2.6	79				1904	2.7	82
4 M 0611	2.7	82	19 Tu 0108	0.2	6	4 W 0031	-0.1	-3	19 Th 0123	0.2	6
1225	0.0	0	0720	2.5	76	0638	2.8	85	0724	2.3	70
1832	2.8	85	1323	0.2	6	1245	-0.2	-6	1324	0.2	6
			1937	2.7	82	1903	3.2	98	1944	2.7	82
5 Tu 0052	-0.1	-3	20 W 0151	0.1	3	5 Th 0129	-0.3	-9	20 F 0204	0.1	3
0706	2.9	88	0759	2.5	76	0734	2.8	85	0804	2.3	70
1316	-0.2	-6	1401	0.1	3	1338	-0.3	-9	1403	0.1	3
1926	3.0	91	2015	2.8	85	1957	3.3	101	2023	2.8	85
6 W 0147	-0.3	-9	21 Th 0231	0.1	3	6 F 0223	-0.4	-12	21 Sa 0244	0.1	3
0758	3.0	91	0836	2.5	76	0827	2.9	88	0842	2.4	73
1406	-0.4	-12	1438	0.1	3	1429	-0.4	-12	1442	0.1	3
2018	3.2	98	2051	2.8	85	● 2050	3.4	104	○ 2100	2.8	85
7 Th 0241	-0.4	-12	22 F 0309	0.1	3	7 Sa 0317	-0.4	-12	22 Su 0323	0.1	3
0849	3.0	91	0911	2.5	76	0919	2.9	88	0919	2.3	70
1455	-0.4	-12	1513	0.1	3	1521	-0.4	-12	1520	0.1	3
● 2109	3.3	101	○ 2127	2.8	85	2142	3.4	104	2137	2.8	85
8 F 0333	-0.5	-15	23 Sa 0347	0.1	3	8 Su 0409	-0.4	-12	23 M 0402	0.1	3
0939	3.0	91	0946	2.5	76	1011	2.8	85	0957	2.3	70
1544	-0.5	-15	1548	0.1	3	1612	-0.4	-12	1557	0.2	6
2200	3.4	104	2202	2.8	85	2234	3.3	101	2214	2.8	85
9 Sa 0425	-0.4	-12	24 Su 0424	0.1	3	9 M 0501	-0.3	-9	24 Tu 0441	0.1	3
1029	2.9	88	1020	2.4	73	1103	2.7	82	1035	2.3	70
1634	-0.4	-12	1623	0.2	6	1705	-0.2	-6	1636	0.2	6
2252	3.3	101	2237	2.8	85	2327	3.2	98	2253	2.8	85
10 Su 0518	-0.3	-9	25 M 0501	0.2	6	10 Tu 0554	-0.2	-6	25 W 0521	0.1	3
1121	2.8	85	1056	2.4	73	1157	2.6	79	1115	2.3	70
1725	-0.3	-9	1659	0.3	9	1759	-0.1	-3	1718	0.2	6
2346	3.2	98	2314	2.7	82				2334	2.7	82
11 M 0612	-0.2	-6	26 Tu 0541	0.2	6	11 W 0021	3.0	91	26 Th 0603	0.1	3
1215	2.7	82	1134	2.3	70	0648	0.0	0	1158	2.3	70
1819	-0.1	-3	1738	0.3	9	1252	2.5	76	1804	0.3	9
			2355	2.6	79	1856	0.1	3			
12 Tu 0042	3.0	91	27 W 0623	0.3	9	12 Th 0117	2.8	85	27 F 0020	2.7	82
0709	0.0	0	1216	2.3	70	0743	0.1	3	0648	0.1	3
1312	2.5	76	1822	0.4	12	1350	2.4	73	1247	2.4	73
1917	0.0	0				1955	0.2	6	1856	0.3	9
13 W 0142	2.8	85	28 Th 0040	2.6	79	13 F 0216	2.6	79	28 M 0111	2.6	79
0809	0.2	6	0710	0.3	9	0838	0.2	6	0738	0.1	3
1413	2.4	73	1304	2.3	70	1449	2.4	73	1341	2.4	73
● 2019	0.2	6	1913	0.4	12	● 2057	0.3	9	1955	0.3	9
14 Th 0246	2.6	79	29 F 0132	2.5	76	14 Sa 0315	2.4	73	29 W 0207	2.5	76
0910	0.3	9	0802	0.3	9	0933	0.3	9	0831	0.1	3
1517	2.3	70	1400	2.3	70	1548	2.4	73	1440	2.5	76
2124	0.3	9	● 2013	0.4	12	2158	0.4	12	● 2059	0.2	6
15 F 0351	2.5	76	30 Sa 0231	2.5	76	15 Su 0414	2.3	70	30 M 0308	2.5	76
1011	0.3	9	0859	0.3	9	1025	0.3	9	0927	0.0	0
1620	2.4	73	1501	2.4	73	1644	2.4	73	1542	2.7	82
2228	0.3	9	2118	0.3	9	2256	0.4	12	2206	0.2	6
									31 Tu 0411	2.5	76
									1025	-0.1	-3
									1644	2.8	85
									2311	0.0	0

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Hampton Roads (Sewells Pt.), Virginia, 2016

Times and Heights of High and Low Waters

July				August				September								
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height					
h m 0555 F 1158 1827	ft 2.4 -0.2 3.1	cm 73 -6 94	16 Sa 0014 0606 1209 1838	0.4 2.1 0.3 2.7	12 M 0735 1336 1336 2003	0.0 2.6 -0.1 3.1	0 79 -3 94	16 Tu 0113 0709 1316 1937	0.3 2.5 0.2 3.0	9 76 6 91	1 Th 0243 0850 1457 2111	0.1 2.9 0.1 3.0	3 88 3 91	16 F 0208 0815 1431 2042	0.0 3.2 0.0 3.2	0 98 0 98
2 Sa 0057 0654 1255 1924	-0.1 2.5 -0.3 3.2	-3 76 -9 98	17 Su 0102 0655 1257 1923	0.3 2.2 0.2 2.8	2 Tu 0224 0826 1428 2051	-0.1 2.7 -0.1 3.1	-3 82 -3 94	17 W 0157 0756 1404 2022	0.1 2.7 0.1 3.1	3 82 3 94	2 F 0322 0930 1539 2149	0.1 2.9 0.2 2.9	3 88 6 88	17 Sa 0253 0903 1522 2129	-0.1 3.3 -0.1 3.2	-3 101 -3 98
3 Su 0152 0750 1350 2017	-0.2 2.6 -0.3 3.2	-6 79 -9 98	18 M 0147 0741 1343 2006	0.2 2.3 0.1 2.9	3 W 0310 0913 1516 2135	-0.1 2.7 -0.1 3.0	-3 82 -3 91	18 Th 0241 0842 1452 2107	0.0 2.8 0.0 3.1	0 85 0 94	3 Sa 0400 1009 1620 2226	0.2 2.9 0.2 2.8	6 88 6 85	18 Su 0339 0952 1613 2217	-0.2 3.4 -0.1 3.1	-6 104 -3 94
4 M 0243 0843 1443 ● 2108	-0.2 2.6 -0.3 3.2	-6 79 -9 98	19 Tu 0230 0825 1428 O 2049	0.1 2.4 0.1 2.9	4 Th 0353 0958 1602 2218	-0.1 2.8 0.0 2.9	-3 85 0 88	19 F 0323 0927 1540 2152	-0.1 3.0 0.0 3.1	-3 91 0 94	4 Su 0436 1047 1701 2302	0.2 2.9 0.3 2.7	6 88 9 82	19 M 0426 1042 1705 2308	-0.2 3.4 0.0 3.0	-6 104 0 91
5 Tu 0333 0934 1535 2157	-0.2 2.6 -0.2 3.1	-6 79 -6 94	20 W 0311 0908 1513 2131	0.0 2.5 0.0 3.0	5 F 0434 1041 1647 2258	0.0 2.7 0.1 2.8	0 82 3 85	20 Sa 0407 1014 1629 2238	-0.2 3.1 0.0 3.1	-6 94 0 94	5 M 0512 1125 1742 2339	0.3 2.8 0.5 2.5	9 85 15 76	20 Tu 0515 1134 1801	-0.1 3.4 0.1	-3 104 3 3
6 W 0420 1022 1624 2244	-0.2 2.6 -0.1 2.9	-6 79 -3 88	21 Th 0353 0951 1558 2214	-0.1 2.6 0.0 3.0	6 Sa 0513 1122 1732 2338	0.1 2.7 0.2 2.6	3 82 6 79	21 Su 0451 1102 1721 2327	-0.2 3.1 0.0 3.0	-6 94 0 91	6 Tu 0549 1205 1825 2190	0.4 2.7 0.6 18	12 82 18 6	21 W 0001 0608 1231 1900	2.9 0.0 3.3 0.2	88 0 101 6
7 Th 0505 1110 1713 2329	-0.1 2.6 0.0 2.8	-3 79 0 85	22 F 0434 1036 1646 2258	-0.1 2.7 0.0 2.9	7 Su 0552 1204 1816	0.2 2.6 0.4	6 79 12 12	22 M 0538 1153 1816	-0.1 3.1 0.1	-3 94 3 94	7 W 0018 0629 1248 1912	2.4 0.5 2.7 0.7	73 15 82 21	22 Th 0059 0705 1332 2002	2.7 0.1 3.1 0.3	82 3 94 9
8 F 0549 1157 1802	0.0 2.6 0.1	0 79 3	23 Sa 0517 1123 1736 2345	-0.1 2.8 0.0 2.8	8 M 0018 0632 1247 1903	2.5 0.3 2.6 0.5	76 9 79 15	23 Tu 0018 0629 1248 1914	2.8 -0.1 3.1 0.2	85 -3 94 6	8 Th 0101 0713 1336 2004	2.3 0.6 2.6 0.8	70 18 79 24	23 F 0202 0807 1437 ● 2108	2.6 0.3 3.0 0.4	79 9 91 12
9 Sa 0014 0633 1244 1852	2.6 0.1 2.5 0.3	79 3 76 9	24 Su 0603 1212 1830	-0.1 2.8 0.1	9 Tu 0059 0714 1334 1953	2.3 0.4 2.5 0.6	70 9 76 18	24 W 0114 0723 1348 ● 2017	2.7 0.0 3.1 0.3	82 0 94 9	9 F 0151 0803 1430 2100	2.2 0.7 2.6 0.8	67 21 79 24	24 Sa 0309 0913 1545 2212	2.6 0.4 3.0 0.4	79 12 91 12
10 Su 0059 0716 1332 1944	2.4 0.2 2.4 0.4	73 6 73 12	25 M 0035 0651 1306 ● 1928	2.7 -0.1 2.9 0.1	10 W 0145 0759 1424 ● 2047	2.2 0.5 2.5 0.7	67 15 76 21	25 Th 0215 0823 1452 2123	2.6 0.1 3.0 0.3	79 3 91 9	10 Sa 0247 0900 1529 2159	2.2 0.7 2.6 0.7	67 21 79 21	25 Su 0416 1020 1650 2312	2.6 0.4 2.9 0.4	79 12 88 12
11 M 0145 0801 1421 ● 2037	2.3 0.3 2.4 0.5	70 9 73 15	26 Tu 0130 0743 1404 ● 2031	2.6 -0.1 2.9 0.2	11 Th 0236 0849 1518 2144	2.1 0.5 2.5 0.7	64 15 76 21	26 F 0321 0926 1559 2229	2.5 0.2 3.0 0.3	76 6 91 9	11 Su 0349 1000 1628 2255	2.2 0.6 2.7 0.6	67 18 82 18	26 M 0518 1122 1748	2.6 0.4 2.9	79 12 88
12 Tu 0235 0848 1513 2133	2.1 0.3 2.4 0.5	64 9 73 15	27 W 0229 0840 1506 2136	2.5 0.0 2.9 0.2	12 F 0332 0943 1614 2241	2.1 0.5 2.5 0.6	64 15 76 18	27 Sa 0427 1031 1704 2331	2.5 0.2 3.0 0.3	76 6 91 9	12 M 0449 1100 1725 2348	2.4 0.5 2.8 0.5	73 15 85 15	27 Tu 0005 0613 1218 1839	0.3 2.8 0.3 2.9	9 85 9 88
13 W 0327 0938 1606 2229	2.1 0.4 2.4 0.5	64 12 73 15	28 Th 0333 0940 1611 2242	2.4 0.0 2.9 0.2	13 Sa 0430 1039 1710 2336	2.1 0.5 2.6 0.5	64 15 79 15	28 Su 0531 1133 1804	2.6 0.2 3.0	79 6 91	13 Tu 0545 1156 1817	2.5 0.4 2.9	76 12 88	28 W 0052 0702 1308 1925	0.3 2.9 0.3 2.9	9 88 9 88
14 Th 0421 1029 1659 2323	2.0 0.4 2.5 0.5	61 12 76 15	29 F 0438 1042 1715 2345	2.4 0.0 3.0 0.1	14 Su 0527 1134 1802	2.2 0.4 2.7	67 12 82	29 M 0026 0628 1231 1858	0.2 0.7 0.1 3.1	6 82 3 94	14 W 0037 0638 1250 1907	0.3 2.7 0.2 3.1	9 82 6 94	29 Th 0134 0745 1354 2006	0.2 2.9 0.2 2.9	6 88 6 88
15 F 0515 1120 1750	2.1 0.3 2.6	64 9 79	30 Sa 0541 1143 1815	2.4 0.0 3.1	15 M 0026 0620 1226 1851	0.4 2.3 0.3 2.9	12 70 9 88	30 Tu 0116 0720 1324 1946	0.2 2.8 0.1 3.1	6 85 3 94	15 Th 0123 0727 1341 1955	0.1 3.0 0.1 3.2	3 91 3 98	30 F 0213 0825 1436 ● 2044	0.2 3.0 0.2 2.9	6 91 6 88
31 Su 0042 0641 1242 1911	0.1 2.5 -0.1 3.1	3 76 -3 94	31 W 0202 0807 1412 2030	0.1 2.8 0.1 3.0	31 W 0202 0807 1412 2030	0.1 2.8 0.1 3.0	3 85 3 91	31 W 0202 0807 1412 2030	0.1 2.8 0.1 3.0	3 85 3 91						

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
 Heights are referred to mean lower low water which is the chart datum of soundings.

Hampton Roads (Sewells Pt.), Virginia, 2016

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 0250 0.2 6 0903 3.0 91 1516 0.2 6 2120 2.8 85	16 Su 0224 -0.3 -9 0840 3.5 107 1504 -0.2 -6 2107 3.1 94		1 Tu 0329 0.2 6 0947 2.9 88 1608 0.3 9 2201 2.5 76	16 W 0342 -0.4 -12 1005 3.4 104 1633 -0.3 -9 2232 2.8 85		1 Th 0340 0.0 0 1000 2.7 82 1624 0.1 3 2215 2.2 67		16 F 0417 -0.5 -15 1041 3.1 94 1706 -0.4 -12 2307 2.5 76					
			2 Su 0326 0.2 6 0939 3.0 91 1554 0.3 9 2155 2.7 82	17 M 0313 -0.3 -9 0931 3.6 110 1556 -0.2 -6 2157 3.1 94		2 W 0405 0.3 9 1023 2.9 88 1646 0.3 9 2237 2.4 73	17 Th 0435 -0.3 -9 1059 3.3 101 1727 -0.2 -6 2326 2.7 82		2 F 0417 0.1 3 1037 2.7 82 1703 0.1 3 2253 2.2 67		17 Sa 0510 -0.4 -12 1132 2.9 88 1757 -0.3 -9		
			3 M 0400 0.3 9 1015 3.0 91 1633 0.4 12 2229 2.6 79	18 Tu 0402 -0.3 -9 1022 3.5 107 1649 -0.1 -3 2249 2.9 88		3 Th 0441 0.3 9 1059 2.8 85 1726 0.4 12 2315 2.3 70	18 F 0529 -0.2 -6 1154 3.1 94 1822 -0.1 -3		3 Sa 0456 0.1 3 1115 2.6 79 1743 0.1 3 2335 2.2 67		18 Su 0000 2.4 73 0604 -0.2 -6 1224 2.7 82 1847 -0.2 -6		
			4 Tu 0436 0.4 12 1051 2.9 88 1712 0.5 15 2305 2.5 76	19 W 0453 -0.2 -6 1116 3.4 104 1745 0.0 0 2344 2.8 85		4 F 0519 0.4 12 1139 2.7 82 1808 0.4 12 2357 2.3 70	19 Sa 0023 2.5 76 0627 0.0 0 1251 2.9 88 1918 0.0 0		4 Su 0539 0.2 6 1157 2.5 76 1826 0.1 3		19 M 0055 2.3 70 0700 0.0 0 1317 2.4 73 1938 -0.1 -3		
5 W 0512 0.5 15 1128 2.8 85 1752 0.6 18 2343 2.4 73	20 Th 0548 0.0 0 1213 3.3 101 1843 0.1 3		5 Sa 0602 0.5 15 1222 2.6 79 1854 0.5 15	20 Su 0124 2.4 73 0728 0.1 3 1351 2.7 82 2016 0.1 3		5 M 0020 2.2 67 0628 0.2 6 1244 2.5 76 1913 0.1 3		20 Tu 0151 2.3 70 0759 0.1 3 1411 2.2 67 2030 0.0 0					
6 Th 0550 0.5 15 1209 2.7 82 1837 0.6 18	21 F 0043 2.7 82 0647 0.1 3 1313 3.1 94		6 Su 0044 2.2 67 0651 0.5 15 1312 2.6 79 1944 0.5 15	21 M 0226 2.4 73 0832 0.3 9 1452 2.5 76 2113 0.2 6		6 Tu 0112 2.2 67 0723 0.3 9 1337 2.4 73 2004 0.1 3		21 W 0248 2.2 67 0859 0.2 6 1507 2.1 64					
7 F 0025 2.3 70 0633 0.6 18 1255 2.7 82 1926 0.7 21	22 Sa 0146 2.6 79 0750 0.3 9 1418 2.9 88 2046 0.3 9		7 M 0138 2.2 67 0748 0.5 15 1408 2.5 76 2039 0.4 12	22 Tu 0328 2.4 73 0936 0.3 9 1552 2.4 73 2208 0.2 6		7 W 0210 2.3 70 0826 0.2 6 1436 2.4 73 2059 0.0 0		22 Th 0346 2.2 67 0959 0.3 9 1603 2.0 61					
8 Sa 0113 2.3 70 0723 0.7 21 1347 2.6 79 2020 0.7 21	23 Su 0252 2.5 76 0856 0.4 12 1524 2.8 85 2148 0.4 12		8 Tu 0238 2.3 70 0852 0.5 15 1509 2.5 76 2135 0.3 9	23 W 0427 2.4 73 1037 0.3 9 1649 2.3 70 2259 0.2 6		8 Th 0311 2.4 73 0933 0.2 6 1538 2.3 70 2156 -0.1 -3		23 F 0441 2.3 70 1057 0.3 9 1657 1.9 58 2304 0.1 3					
9 Su 0210 2.3 70 0821 0.7 21 1445 2.6 79 2117 0.7 21	24 M 0357 2.5 76 1003 0.4 12 1627 2.7 82 2245 0.3 9		9 W 0341 2.5 76 0959 0.4 12 1610 2.6 79 2230 0.2 6	24 Th 0521 2.5 76 1133 0.3 9 1739 2.3 70 2345 0.1 3		9 F 0414 2.6 79 1039 0.1 3 1641 2.4 73 2253 -0.2 -6		24 Sa 0533 2.3 70 1150 0.2 6 1747 1.9 58 2351 0.0 0					
10 M 0311 2.3 70 0924 0.7 21 1547 2.7 82 2214 0.6 18	25 Tu 0458 2.6 79 1104 0.4 12 1724 2.7 82 2336 0.3 9		10 Th 0442 2.7 82 1103 0.2 6 1710 2.6 79 2324 0.0 0	25 F 0608 2.6 79 1222 0.2 6 1825 2.3 70		10 Sa 0515 2.8 85 1143 -0.1 -3 1742 2.4 73 2349 -0.4 -12		25 Su 0620 2.4 73 1238 0.1 3 1833 2.0 61					
11 Tu 0414 2.5 76 1028 0.5 15 1647 2.7 82 2309 0.4 12	26 W 0551 2.7 82 1200 0.3 9 1814 2.7 82		11 F 0540 2.9 88 1203 0.0 0 1807 2.7 82	26 Sa 0028 0.1 3 0652 2.7 82 1307 0.2 6 1907 2.3 70		11 Su 0614 3.0 91 1242 -0.3 -9 1840 2.5 76		26 M 0036 0.0 0 0704 2.5 76 1323 0.1 3 1917 2.0 61					
12 W 0513 2.7 82 1128 0.4 18 1743 2.9 88	27 Th 0022 0.2 6 0638 2.8 85 1248 0.3 9 1858 2.7 82		12 Sa 0017 -0.2 -6 0635 3.1 94 1300 -0.1 -3 1902 2.8 85	27 Su 0109 0.1 3 0732 2.7 82 1349 0.1 3 1947 2.3 70		12 M 0045 -0.5 -15 0711 3.1 94 1338 -0.4 -12 1936 2.6 79		27 Tu 0119 -0.1 -3 0745 2.5 76 1405 0.0 0 1958 2.1 64					
13 Th 0000 0.2 6 0608 2.9 88 1225 0.2 6 1836 3.0 91	28 F 0103 0.2 6 0720 2.9 88 1332 0.2 6 1938 2.6 79		13 Su 0108 -0.3 -9 0729 3.3 101 1354 -0.3 -9 1955 2.9 88	28 M 0148 0.0 0 0810 2.8 85 1429 0.1 3 2024 2.3 70		13 Tu 0139 -0.6 -18 0805 3.2 98 1432 -0.5 -15 2030 2.6 79		28 W 0200 -0.1 -3 0824 2.6 79 1445 -0.1 -3 2038 2.1 64					
14 F 0049 0.0 0 0700 3.1 94 1320 0.0 0 1927 3.1 94	29 Sa 0141 0.2 6 0759 2.9 88 1413 0.2 6 2015 2.6 79		14 M 0159 -0.4 -12 0821 3.5 107 1447 -0.4 -12 2047 2.9 88	29 Tu 0226 0.0 0 0847 2.8 85 1508 0.0 0 2101 2.3 70		14 W 0232 -0.6 -18 0858 3.3 101 1524 -0.5 -15 2122 2.6 79		29 Th 0240 -0.1 -3 0902 2.6 79 1523 -0.1 -3 2116 2.1 64					
15 Sa 0137 -0.1 -3 0750 3.4 104 1412 -0.1 -3 2017 3.1 94	30 Su 0218 0.1 3 0836 3.0 91 1452 0.2 6 2051 2.6 79		15 Tu 0250 -0.5 -15 0913 3.5 107 1540 -0.4 -12 2139 2.8 85	30 W 0303 0.0 0 0924 2.8 85 1546 0.0 0 2138 2.3 70		15 Th 0325 -0.6 -18 0950 3.2 98 1616 -0.5 -15 2215 2.6 79		30 F 0319 -0.2 -6 0939 2.6 79 1602 -0.2 -6 2154 2.2 67					
			31 M 0254 0.2 6 0912 3.0 91 1530 0.2 6 2126 2.5 76					31 Sa 0358 -0.1 -3 1017 2.6 79 1640 -0.2 -6 2233 2.2 67					

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Duck Pier, North Carolina, 2016

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 F	0004	2.8	85	16	0610	-0.1	-3	1	0054	2.8	85	16	0140	3.5	107	1	0005	3.0	91	
	0608	0.6	18	Sa	1210	3.2	98	M	0709	0.6	18	Tu	0817	0.1	3	Tu	0623	0.6	18	
	1206	2.7	82		1831	-0.4	-12		1259	2.4	73		1405	2.7	82		1218	2.5	76	
	1834	0.3	9	O					1915	0.3	9		2017	-0.1	-3		1829	0.4	12	
2 Sa	0058	2.8	85	17	0054	3.4	104	2	0150	2.9	88	17	0252	3.4	104	2	0059	3.0	91	
	0706	0.7	21	Su	0719	0.0	0	2	0810	0.6	18	17	0928	0.1	3	W	0721	0.6	18	
	1257	2.6	79		1312	3.0	91	Tu	1357	2.3	70		1517	2.7	82	Th	1315	2.4	73	
	1921	0.3	9		1930	-0.3	-9		2010	0.3	9		2124	-0.1	-3		1927	0.4	12	
3 Su	0153	2.8	85	18	0200	3.5	107	3	0248	3.0	91	18	0359	3.5	107	3	0159	3.0	91	
	0807	0.7	21	M	0831	0.0	0	3	0911	0.5	15	18	1031	0.0	0	W	0823	0.5	15	
	1352	2.5	76		1419	2.8	85		1458	2.4	73		1623	2.8	85	In	1418	2.5	76	
	2011	0.3	9		2033	-0.3	-9		2107	0.2	6		2227	-0.1	-3		2029	0.3	9	
4 M	0247	3.0	91	19	0306	3.6	110	4	0343	3.2	98	19	0457	3.5	107	4	0300	3.2	98	
	0906	0.6	18	Tu	0940	0.0	0	4	1008	0.3	9	19	1125	-0.1	-3	F	0925	0.3	9	
	1448	2.4	73		1527	2.8	85		1556	2.5	76		1719	2.9	88		1520	2.7	82	
	2101	0.2	6		2135	-0.3	-9		2202	0.0	0		2322	-0.2	-6		2130	0.1	3	
5 Tu	0338	3.1	94	20	0409	3.7	113	5	0435	3.4	104	20	0547	3.6	110	5	0358	3.4	104	
	1001	0.5	15	W	1043	-0.1	-3	5	1059	0.1	3	20	1212	-0.2	-6	Sa	1021	0.1	3	
	1543	2.5	76		1630	2.8	85		1650	2.7	82		1806	3.0	91		1619	2.9	88	
	2149	0.1	3		2234	-0.4	-12		2255	-0.2	-6						2229	-0.1	-3	
6 W	0425	3.3	101	21	0506	3.8	116	6	0523	3.6	110	21	0010	-0.3	-9	6	0452	3.6	110	
	1049	0.3	9	Th	1139	-0.3	-9	6	1146	-0.2	-6	21	0630	3.6	110	W	1122	-0.2	-6	
	1634	2.6	79		1727	2.9	88		1741	2.9	88		1253	-0.2	-6	M	1713	3.2	98	
	2237	0.0	0		2329	-0.4	-12		2345	-0.4	-12		1848	3.2	98		2324	-0.4	-12	
7 Th	0510	3.5	107	22	0557	3.8	116	7	0610	3.8	116	22	0053	-0.3	-9	7	0543	3.8	116	
	1134	0.1	3	F	1229	-0.4	-12	7	1231	-0.4	-12	22	0708	3.6	110	W	0645	3.4	104	
	1722	2.7	82		1818	3.0	91		1828	3.2	98		M	1330	-0.2	-6	Tu	1258	0.0	0
	2323	-0.1	-3					O	1927	3.2	98						1902	3.4	104	
8 F	0552	3.7	113	23	0019	-0.5	-15	8	0035	-0.6	-18	23	0133	-0.3	-9	8	0017	-0.6	-18	
	1217	-0.1	-3	Sa	0644	3.8	116	8	0655	4.0	122	23	0744	3.5	107	W	0632	4.0	122	
	1808	2.8	85		1314	-0.4	-12	8	1316	-0.6	-18	23	1403	-0.2	-6	Tu	1329	0.0	0	
				O	1905	3.1	94	8	1916	3.4	104	23	2003	3.3	101	O	1936	3.5	107	
9 Sa	0008	-0.3	-9	24	0106	-0.4	-12	9	0124	-0.7	-21	24	0211	-0.2	-6	9	0108	-0.8	-24	
	0635	3.8	116	Su	0726	3.8	116	9	0741	4.0	122	24	0818	3.4	104	W	0720	4.1	125	
	1259	-0.3	-9		1355	-0.4	-12	9	1400	-0.7	-21	24	1435	-0.2	-6	Th	1333	-0.8	-24	
	1852	3.0	91		1948	3.1	94		2003	3.6	110		2039	3.3	101		1942	4.1	125	
10 Su	0053	-0.4	-12	25	0150	-0.4	-12	10	0213	-0.7	-21	25	0247	-0.1	-3	10	0159	-0.9	-27	
	0717	3.9	119	M	0806	3.7	113	10	0827	4.0	122	25	0852	3.3	101	W	0825	3.2	98	
	1341	-0.4	-12		1434	-0.3	-9	10	1445	-0.8	-24	25	1507	-0.1	-3	Th	1431	0.0	0	
	1937	3.1	94		2029	3.1	94		2051	3.7	113		2115	3.3	101		2044	3.5	107	
11 M	0139	-0.5	-15	26	0231	-0.3	-9	11	0304	-0.7	-21	26	0324	0.0	0	11	0251	-0.8	-24	
	0800	4.0	122	Tu	0844	3.5	107	11	0914	3.9	119	26	0927	3.1	94	W	0859	3.1	94	
	1424	-0.5	-15		1510	-0.3	-9		1532	-0.8	-24		1540	0.0	0	Sa	1504	0.1	3	
	2222	3.2	98		2109	3.1	94		2141	3.7	113		2153	3.2	98		2121	4.2	128	
12 Tu	0227	-0.5	-15	27	0312	-0.1	-3	12	0357	-0.6	-18	27	0403	0.2	6	12	0344	-0.7	-21	
	0845	3.9	119	W	0921	3.3	101	12	1003	3.7	113	27	0946	3.7	113	W	0935	3.0	91	
	1509	-0.6	-18		1545	-0.2	-6		1620	-0.7	-21		1615	0.1	3	Sa	1539	0.2	6	
	2110	3.3	101		2149	3.0	91		2234	3.7	113		2233	3.1	94		2158	3.4	104	
13 W	0317	-0.4	-12	28	0353	0.1	3	13	0454	-0.4	-12	28	0444	0.3	9	13	0440	-0.4	-12	
	0931	3.8	116	Th	0958	3.1	94	13	1055	3.4	104	28	1043	2.8	85	W	1014	2.8	85	
	1555	-0.6	-18		1621	0.0	0	13	1712	-0.5	-15	28	1654	0.2	6	Th	1618	0.3	9	
	2200	3.3	101		2231	2.9	88		2331	3.6	110		2316	3.0	91		2239	3.3	101	
14 Th	0410	-0.3	-9	29	0436	0.3	9	14	0556	-0.2	-6	29	0530	0.5	15	14	0541	-0.2	-6	
	1020	3.6	110	F	1038	2.9	88	14	1152	3.1	94	29	1127	2.6	79	W	1057	2.7	82	
	1644	-0.5	-15		1658	0.1	3	14	1808	-0.4	-12	29	1738	0.3	9	Th	1703	0.4	12	
	2253	3.4	104		2315	2.9	88										2325	3.2	98	
15 F	0507	-0.2	-6	30	0521	0.4	12	15	0032	3.5	107	15	0011	3.6	110	15	0548	0.5	15	
	1113	3.4	104	Sa	1120	2.7	82	15	0704	0.0	0	15	0647	0.0	0	W	1146	2.6	79	
	1735	-0.5	-15		1739	0.2	6	15	1255	2.9	88	15	1241	2.9	88	Th	1243	2.6	79	
	2351	3.4	104					15	1910	-0.2	-6	15	1852	0.0	0	O	1853	0.5	15	
31 O	0002	2.8	85	31	0012	0.5	15									31	0018	3.1	94	
	0612	0.5	15	Su	1207	2.5	76									31	0643	0.5	15	
					1207	2.5	76									31	1243	2.6	79	
					1824	0.3	9									31	1853	0.5	15	

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to mean lower low water which is the chart datum of soundings.

Duck Pier, North Carolina, 2016

Times and Heights of High and Low Waters

April				May				June			
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height
1 F 0117 3.2 98 0743 0.4 12 1345 2.7 82 1957 0.4 12	16 Sa 0312 3.1 94 0938 0.3 9 1547 3.1 94 2159 0.4 12	1 Su 0145 3.3 101 0809 0.1 3 1421 3.2 98 2038 0.2 6	1 M 0324 2.8 85 0941 0.3 9 1602 3.2 98 2223 0.5 15	1 W 0321 3.3 101 0933 0.3 9 1558 4.0 122 2228 0.2 6	16 Th 0413 2.6 79 1014 0.3 9 1647 3.4 104 2317 0.4 12						
2 Sa 0219 3.2 98 0844 0.3 9 1448 2.9 88 2102 0.2 6	17 Su 0410 3.1 94 1028 0.3 9 1638 3.2 98 2252 0.3 9	2 M 0248 3.4 104 0907 -0.1 -3 1522 3.5 107 2143 0.0 0	17 Tu 0415 2.8 85 1024 0.3 9 1646 3.4 104 2310 0.4 12	2 Th 0422 3.3 101 1029 -0.5 -15 1655 4.3 131 2328 -0.4 -12	17 F 0500 2.6 79 1056 0.3 9 1727 3.6 110 2357 0.2 6						
3 Su 0321 3.4 104 0942 0.1 3 1549 3.2 98 2205 0.0 0	18 M 0458 3.1 94 1110 0.2 6 1721 3.3 101 2338 0.2 6	3 Tu 0349 3.5 107 1003 -0.3 -9 1621 3.9 119 2245 -0.3 -9	18 W 0500 2.8 85 1102 0.3 9 1725 3.5 107 2350 0.3 9	3 F 0521 3.4 104 1125 -0.6 -134 1750 4.4 134	18 Sa 0544 2.7 82 1138 0.2 6 1807 3.7 113						
4 M 0420 3.6 110 1037 -0.2 -6 1646 3.6 110 2304 -0.3 -9	19 Tu 0539 3.1 94 1147 0.2 6 1759 3.5 107	4 W 0447 3.6 110 1057 -0.5 -15 1716 4.2 128 2342 -0.5 -15	19 Th 0540 2.8 85 1139 0.2 6 1802 3.6 110 ● 1843 4.5 137	4 Sa 0024 -0.6 -18 0618 3.4 104 1219 -0.6 -18 ● 1846 3.8 116	19 Su 0036 0.1 3 0627 2.8 85 1219 0.2 6 1846 3.8 116						
5 Tu 0515 3.8 116 1128 -0.4 -12 1739 4.0 122 2359 -0.6 -18	20 W 0017 0.1 3 0616 3.1 94 1220 0.1 3 1833 3.6 110	5 Th 0543 3.7 113 1149 -0.6 -18 1809 4.5 137	20 F 0028 0.2 6 0619 2.9 88 1214 0.2 6 1837 3.7 113	5 Su 0117 -0.7 -21 0712 3.5 107 1312 -0.6 -18 1934 4.5 137	20 M 0114 0.0 0 0708 2.9 88 1301 0.1 3 ○ 1925 3.8 116						
6 W 0607 3.9 119 1217 -0.6 -18 1830 4.3 131	21 Th 0053 0.1 3 0650 3.1 94 1252 0.1 3 1907 3.7 113 ● 1901 4.6 140	6 F 0038 -0.7 -21 0637 3.7 113 1241 -0.7 -21 ● 1901 4.6 140	21 Sa 0104 0.1 3 0656 2.9 88 1251 0.2 6 ○ 1913 3.7 113	6 M 0209 -0.7 -21 0805 3.4 104 1405 -0.5 -15 2025 4.4 134	21 Tu 0152 -0.1 -3 0748 2.9 88 1343 0.1 3 2004 3.8 116						
7 Th 0053 -0.8 -24 0658 4.0 122 1306 -0.8 -24 ● 1921 4.5 137	22 O 0128 0.0 0 0724 3.1 94 1324 0.1 3 ○ 1941 3.7 113	7 Sa 0131 -0.8 -24 0729 3.7 113 1332 -0.7 -21 1952 4.6 140	22 Tu 0139 0.0 0 0734 2.9 88 1328 0.2 6 1950 3.8 116	7 W 0300 -0.6 -18 0857 3.4 104 1457 -0.3 -98 2115 4.1 125	22 M 0231 -0.1 -3 0830 3.0 91 1426 0.1 3 2045 3.8 116						
8 F 0145 -0.8 -24 0748 3.9 119 1355 -0.8 -24 2011 4.5 137	23 Sa 0202 0.0 0 0759 3.1 94 1358 0.1 3 2016 3.7 113	8 Su 0224 -0.8 -24 0821 3.6 110 1423 -0.6 -18 2043 4.5 137	23 M 0215 0.0 0 0812 2.9 88 1406 0.2 6 2027 3.7 113	8 W 0350 -0.4 -12 0950 3.3 101 1550 -0.1 -3 2204 3.8 116	23 Th 0312 -0.2 -6 0913 3.1 94 1512 0.1 3 2128 3.8 116						
9 Sa 0237 -0.8 -24 0838 3.8 116 1444 -0.7 -21 2102 4.5 137	24 Su 0237 0.1 3 0834 3.0 91 1433 0.2 6 2051 3.6 110	9 M 0316 -0.6 -18 0914 3.5 107 1516 -0.4 -12 2135 4.3 131	24 Tu 0253 0.0 0 0851 2.9 88 1446 0.2 6 2106 3.7 113	9 Th 0440 -0.2 -6 1043 3.2 98 1645 0.1 3 2254 3.5 107	24 F 0354 -0.2 -6 0958 3.1 94 1601 0.1 3 2213 3.7 113						
10 Su 0331 -0.7 -21 0930 3.6 110 1536 -0.5 -15 2154 4.3 131	25 M 0313 0.1 3 0912 2.9 88 1510 0.3 9 2129 3.6 110	10 Tu 0410 -0.4 -12 1008 3.4 104 1610 -0.2 -6 2228 4.0 122	25 W 0333 0.0 0 0932 2.9 88 1529 0.3 9 2147 3.6 110	10 F 0530 -0.1 -3 1138 3.1 94 1741 0.4 12 2345 3.2 98	25 Sa 0439 -0.2 -6 1047 3.2 98 1654 0.2 6 2302 3.5 107						
11 M 0426 -0.4 -12 1024 3.4 104 1630 -0.3 -9 2249 4.0 122	26 Tu 0353 0.2 6 0951 2.9 88 1551 0.4 12 2210 3.5 107	11 W 0505 -0.2 -6 1105 3.2 98 1708 0.1 3 2323 3.6 110	26 Th 0415 0.0 0 1016 2.9 88 1616 0.3 9 2232 3.5 107	11 Sa 0619 0.1 3 1234 3.1 94 1842 0.5 15	26 Su 0527 -0.2 -6 1140 3.4 104 1752 0.2 6 2355 3.4 104						
12 Tu 0524 -0.2 -6 1122 3.2 98 1728 0.0 0 2348 3.7 113	27 W 0435 0.2 6 1035 2.8 85 1636 0.4 12 2255 3.4 104	12 Th 0602 0.0 0 1206 3.1 94 1811 0.3 9	27 F 0501 0.0 0 1105 3.0 91 1709 0.4 12 2322 3.4 104	12 Su 0037 3.0 91 0709 0.2 6 1330 3.1 94 ● 1944 0.6 18	27 M 0618 -0.2 -6 1237 3.5 107 1855 0.2 6 ● 0						
13 W 0627 0.0 0 1226 3.0 91 1833 0.2 6 ● 0	28 Th 0522 0.3 9 1124 2.8 85 1728 0.5 15 2346 3.3 101	13 F 0022 3.3 101 0700 0.2 6 1310 3.0 91 ● 1918 0.5 15	28 Sa 0550 0.0 0 1159 3.1 94 1808 0.4 12	13 M 0132 2.8 85 0757 0.3 9 1425 3.1 94 2046 0.7 21	28 Tu 0053 3.2 98 0713 -0.2 -6 1337 3.7 113 2002 0.2 6						
14 Th 0054 3.4 104 0734 0.2 6 1336 2.9 88 1945 0.4 12	29 F 0614 0.3 9 1218 2.8 85 1827 0.5 15 ● 0	14 Sa 0124 3.1 94 0758 0.3 9 1414 3.0 91 2026 0.5 15	29 Su 0017 3.3 101 0643 0.0 0 1257 3.2 98 ● 1911 0.3 9	14 Tu 0227 2.6 79 0844 0.4 12 1517 3.2 98 2143 0.6 18	29 W 0155 3.1 94 0810 -0.2 -6 1439 3.8 116 2110 0.1 3						
15 F 0204 3.2 98 0839 0.3 9 1446 3.0 91 2056 0.4 12	30 Sa 0043 3.3 101 0711 0.2 6 1319 3.0 91 1931 0.4 12	15 Su 0226 2.9 88 0853 0.3 9 1512 3.1 94 2129 0.5 15	30 M 0116 3.3 101 0739 -0.1 -3 1357 3.4 104 2018 0.2 6	15 W 0322 2.6 79 0930 0.4 12 1603 3.3 101 2233 0.5 15	30 Th 0259 3.1 94 0909 -0.3 -9 1540 4.0 122 2215 -0.1 -3						
			31 Tu 0218 3.2 98 0836 -0.2 -6 1459 3.7 113 2125 0.0 0								

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Duck Pier, North Carolina, 2016

Times and Heights of High and Low Waters

July				August				September				
	Time	Height			Time	Height			Time	Height		
	h m	ft cm			h m	ft cm			h m	ft cm		
1 <i>F</i>	0403	3.1	94	16 <i>Sa</i>	0419	2.6	79	1 <i>M</i>	0551	3.3	101	
	1008	-0.3	-9		1017	0.4	12		1151	-0.1	-3	
	1639	4.2	128		1651	3.6	110		1815	4.2	128	
	2316	-0.2	-6		2321	0.4	12					
2 <i>Sa</i>	0505	3.2	98	17 <i>Su</i>	0509	2.7	82	2 <i>Tu</i>	0048	-0.2	-6	
	1106	-0.4	-12		1104	0.3	9		0643	3.4	104	
	1735	4.3	131		1735	3.7	113		1243	-0.1	-3	
									1903	4.1	125	
3 <i>Su</i>	0012	-0.4	-12	18 <i>M</i>	0003	0.2	6	3 <i>W</i>	0133	-0.2	-6	
	0603	3.3	101		0555	2.9	88		0730	3.5	107	
	1202	-0.4	-12		1151	0.2	6		1332	-0.1	-3	
	1828	4.4	134		1817	3.9	119		1946	4.0	122	
4 <i>M</i>	0104	-0.5	-15	19 <i>Tu</i>	0044	0.0	0	4 <i>Th</i>	0215	-0.2	-6	
	0657	3.3	101		0640	3.0	91		0815	3.5	107	
	1256	-0.4	-12		1236	0.1	3		1418	0.0	0	
	● 1919	4.3	131		1859	4.0	122		2028	3.9	119	
5 <i>Tu</i>	0153	-0.5	-15	20 <i>W</i>	0125	-0.1	-3	5 <i>F</i>	0254	-0.1	-3	
	0749	3.4	104		0723	3.2	98		0858	3.5	107	
	1348	-0.3	-9		1322	0.0	0		1503	0.2	6	
	2007	4.2	128		1941	4.0	122		2107	3.7	113	
6 <i>W</i>	0240	-0.4	-12	21 <i>Th</i>	0206	-0.2	-6	6 <i>Sa</i>	0332	0.0	0	
	0838	3.4	104		0807	3.3	101		0940	3.5	107	
	1438	-0.2	-6		1408	0.0	0		1546	0.3	9	
	2053	4.0	122		2024	4.0	122		2147	3.5	107	
7 <i>Th</i>	0325	-0.3	-9	22 <i>F</i>	0247	-0.3	-9	7 <i>Su</i>	0409	0.2	6	
	0926	3.4	104		0851	3.5	107		1022	3.5	107	
	1528	0.0	0		1456	0.0	0		1630	0.5	15	
	2137	3.7	113		2108	3.9	119		2226	3.2	98	
8 <i>F</i>	0409	-0.2	-6	23 <i>Sa</i>	0330	-0.3	-9	8 <i>M</i>	0446	0.3	9	
	1014	3.3	101		0938	3.6	110		1105	3.4	104	
	1617	0.2	6		1546	0.0	0		1716	0.7	21	
	2221	3.5	107		2154	3.8	116		2309	3.0	91	
9 <i>Sa</i>	0451	0.0	0	24 <i>Su</i>	0416	-0.3	-9	9 <i>Tu</i>	0525	0.4	12	
	1102	3.2	98		1028	3.7	113		1151	3.3	101	
	1707	0.4	12		1640	0.1	3		1806	0.8	24	
	2305	3.2	98		2244	3.6	110		2354	2.8	85	
10 <i>Su</i>	0533	0.1	3	25 <i>M</i>	0504	-0.3	-9	10 <i>W</i>	0609	0.6	18	
	1150	3.2	98		1121	3.7	113		1241	3.3	101	
	1759	0.6	18		1739	0.2	6		1900	0.9	27	
	2351	2.9	88		2337	3.4	104		○			
11 <i>M</i>	0616	0.3	9	26 <i>Tu</i>	0555	-0.2	-6	11 <i>Th</i>	0045	2.7	82	
	1241	3.2	98		1218	3.8	116		0657	0.6	18	
	1855	0.7	21		1842	0.2	6		1334	3.3	101	
	●								1958	0.9	27	
12 <i>Tu</i>	0039	2.7	82	27 <i>W</i>	0035	3.2	98	12 <i>F</i>	0142	2.6	79	
	0700	0.4	12		0651	-0.1	-3		0750	0.7	21	
	1333	3.2	98		1319	3.9	119		1429	3.4	104	
	1953	0.8	24		1950	0.3	9		2057	0.8	24	
13 <i>W</i>	0132	2.6	79	28 <i>Th</i>	0138	3.1	94	13 <i>Sa</i>	0241	2.7	82	
	0747	0.5	15		0751	-0.1	-3		0846	0.6	18	
	1425	3.2	98		1422	3.9	119		1523	3.5	107	
	2052	0.8	24		2059	0.2	6		2152	0.7	21	
14 <i>Th</i>	0228	2.5	76	29 <i>F</i>	0245	3.0	91	14 <i>Su</i>	0340	2.8	85	
	0837	0.5	15		0853	-0.1	-3		0941	0.5	15	
	1517	3.3	101		1527	4.0	122		1614	3.6	110	
	2147	0.7	21		2205	0.1	3		2241	0.5	15	
15 <i>F</i>	0325	2.5	76	30 <i>Sa</i>	0352	3.1	94	15 <i>M</i>	0434	2.9	88	
	0927	0.4	12		0955	-0.1	-3		1034	0.4	12	
	1606	3.4	104		1628	4.1	125		1702	3.8	116	
	2236	0.5	15		2305	0.0	0		2327	0.3	9	
	31	0454	3.2	98	31 <i>Su</i>	1055	-0.1	-3	31 <i>W</i>	0027	0.1	3
					1724	4.2	128		0627	3.6	110	
					2359	-0.1	-3		1231	0.1	3	
									1844	4.0	122	

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Duck Pier, North Carolina, 2016

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 0109 0.3 9 0720 4.0 122 1335 0.4 12 1931 3.6 110	16 Su 0036 -0.4 -12 0653 4.7 143 1316 -0.4 -12 1916 4.2 128	1 Tu 0139 0.3 9 0801 3.9 119 1423 0.4 12 2015 3.2 98	16 W 0152 -0.6 -18 0815 4.8 146 1447 -0.5 -18 2042 3.7 113	1 Th 0148 0.2 6 0812 3.8 116 1437 0.1 3 2030 2.9 88	16 F 0229 -0.6 -18 0850 4.3 131 1523 -0.6 -18 2119 3.4 104						
	2 Su 0141 0.3 9 0755 4.0 122 1411 0.4 12 2006 3.5 107	17 M 0124 -0.5 -15 0742 4.8 146 1408 -0.4 -12 2006 4.1 125	2 W 0214 0.4 12 0837 3.9 119 1459 0.4 12 2053 3.1 94	17 Th 0245 -0.5 -15 0907 4.6 140 1542 -0.4 -12 2137 3.5 107	2 F 0227 0.3 9 0850 3.7 113 1515 0.2 6 2111 2.8 85						
	3 M 0213 0.4 12 0830 3.9 119 1447 0.5 15 2042 3.4 104	18 Tu 0213 -0.5 -15 0833 4.8 146 1502 -0.3 -9 2059 3.9 119	3 Th 0251 0.5 15 0915 3.8 116 1539 0.5 15 2133 3.0 91	18 F 0340 -0.2 -6 1002 4.3 131 1638 -0.2 -6 2236 3.4 104	3 Sa 0308 0.3 9 0929 3.6 110 1556 0.2 6 2154 2.8 85						
	4 Tu 0247 0.5 15 0907 3.9 119 1525 0.6 18 2119 3.2 98	19 W 0305 -0.3 -9 0926 4.7 143 1558 -0.1 -3 2153 3.7 113	4 F 0331 0.6 18 0955 3.7 113 1621 0.6 18 2217 2.9 88	19 Sa 0439 0.0 0 1058 4.0 122 1737 0.0 0 2339 3.2 98	4 Su 0352 0.4 12 1012 3.5 107 1640 0.2 6 2240 2.8 85						
5 W 0323 0.6 18 0945 3.8 116 1605 0.7 21 2159 3.1 94	20 Th 0359 -0.1 -3 1021 4.5 137 1657 0.0 0 2253 3.5 107	5 Sa 0416 0.7 21 1039 3.6 110 1707 0.6 18 2305 2.8 85	20 Su 0542 0.3 9 1158 3.7 113 1838 0.2 6	5 M 0442 0.4 12 1058 3.4 104 1727 0.2 6 2332 2.9 88	20 Tu 0010 3.0 91 0617 0.3 9 1219 3.1 94 ● 1853 0.1 3						
6 Th 0402 0.7 21 1027 3.6 110 1649 0.8 24 2244 3.0 91	21 F 0458 0.2 6 1121 4.2 128 1801 0.2 6 2358 3.3 101	6 Su 0506 0.8 24 1128 3.5 107 1757 0.6 18 2359 2.9 88	21 M 0046 3.2 98 0651 0.5 15 1301 3.4 104 ● 1939 0.3 9	6 Tu 0538 0.5 15 1150 3.3 101 1818 0.1 3	21 W 0111 3.0 91 0723 0.5 15 1315 2.8 85 1946 0.2 6						
7 F 0446 0.8 24 1113 3.6 110 1738 0.9 27 2333 2.9 88	22 Sa 0602 0.4 12 1226 3.9 119 1907 0.4 12	7 M 0603 0.8 24 1222 3.4 104 1851 0.5 15	22 Tu 0153 3.2 98 0801 0.6 18 1405 3.2 98 2036 0.3 9	7 W 0029 3.0 91 0639 0.4 12 1247 3.2 98 ● 1912 0.0 0	22 Th 0212 3.0 91 0829 0.6 18 1414 2.6 79 2037 0.2 6						
8 Sa 0536 0.9 27 1203 3.5 107 1832 0.9 27	23 Su 0109 3.3 101 0713 0.5 15 1334 3.7 113 2013 0.4 12	8 Tu 0058 3.0 91 0705 0.7 21 1320 3.4 104 1947 0.4 12	23 W 0255 3.3 101 0907 0.6 18 1505 3.1 94 2127 0.3 9	8 Th 0129 3.3 101 0745 0.3 9 1347 3.2 98 2008 -0.1 -3	23 F 0308 3.1 94 0930 0.5 15 1510 2.6 79 2125 0.2 6						
9 Su 0029 2.9 88 0633 1.0 30 1259 3.5 107 1929 0.8 24	24 M 0221 3.3 101 0825 0.6 18 1442 3.6 110 2113 0.4 12	9 W 0159 3.2 98 0810 0.6 18 1420 3.5 107 2042 0.2 6	24 Th 0348 3.4 104 1005 0.5 15 1557 3.0 91 2211 0.3 9	9 F 0230 3.5 107 0852 0.2 6 1449 3.2 98 2104 -0.3 -9	24 Sa 0357 3.2 98 1023 0.5 15 1602 2.5 76 2209 0.2 6						
10 M 0129 3.0 91 0735 0.9 27 1358 3.5 107 2026 0.7 21	25 Tu 0324 3.4 104 0931 0.6 18 1541 3.5 107 2204 0.4 12	10 Th 0258 3.5 107 0914 0.3 9 1519 3.6 110 2136 0.0 0	25 F 0434 3.5 107 1054 0.5 15 1642 3.0 91 2250 0.2 6	10 Sa 0330 3.8 116 0956 -0.1 -3 1549 3.3 101 2200 -0.5 -15	25 Su 0441 3.3 101 1108 0.3 9 1649 2.6 79 2250 0.1 3						
11 Tu 0230 3.2 98 0838 0.7 21 1456 3.7 113 2120 0.5 15	26 W 0418 3.5 107 1028 0.5 15 1632 3.5 107 2249 0.3 9	11 F 0354 3.9 119 1015 0.1 3 1615 3.7 113 2228 -0.3 -9	26 Sa 0514 3.6 110 1136 0.4 12 1722 3.0 91 2326 0.2 6	11 Su 0427 4.1 125 1056 -0.3 -9 1648 3.4 104 2255 -0.6 -18	26 M 0521 3.4 104 1148 0.2 6 1731 2.6 79 2330 0.1 3						
12 W 0328 3.4 104 0939 0.5 15 1552 3.8 116 2211 0.2 6	27 Th 0503 3.7 113 1116 0.5 15 1715 3.4 104 2327 0.3 9	12 Sa 0448 4.3 131 1112 -0.2 -6 1710 3.8 116 2319 -0.5 -15	27 Su 0550 3.7 113 1215 0.3 9 1800 3.0 91	12 M 0522 4.4 134 1153 -0.5 -15 1745 3.4 104 2349 -0.8 -24	27 Tu 0559 3.5 107 1226 0.1 3 1812 2.7 82						
13 Th 0422 3.8 116 1036 0.2 6 1645 4.0 122 2300 -0.1 -3	28 F 0542 3.8 116 1159 0.4 12 1753 3.4 104 ● 1903 3.3 101	13 Su 0541 4.6 140 1207 -0.4 -12 1803 3.8 116	28 M 0001 0.2 6 0625 3.8 116 1250 0.2 6 1837 3.0 91	13 Tu 0616 4.5 137 1247 -0.6 -18 1839 3.5 107 ● 1851 2.8 85	28 W 0009 0.0 0 0637 3.6 110 1302 0.0 0 1851 2.8 85						
14 F 0513 4.2 128 1130 0.0 0 1736 4.1 125 2348 -0.3 -9	29 Sa 0002 0.3 9 0618 3.9 119 1237 0.4 12 1829 3.4 104	14 M 0010 -0.6 -18 0632 4.8 146 1300 -0.5 -15 ● 1856 3.8 116	29 Tu 0036 0.1 3 0700 3.8 116 1325 0.2 6 ● 1914 3.0 91	14 W 0043 -0.8 -24 0708 4.6 140 1340 -0.7 -21 1933 3.5 107	29 Th 0048 -0.1 -3 0713 3.7 113 1337 -0.1 -3 ● 1930 2.8 85						
15 Sa 0603 4.5 137 1223 -0.3 -9 1826 4.2 128 ● 1903 3.3 101	30 Su 0034 0.3 9 0652 4.0 122 1313 0.3 9 ● 1903 3.3 101	15 Tu 0101 -0.7 -21 0723 4.8 146 1354 -0.6 -18 1948 3.8 116	30 W 0111 0.2 6 0736 3.8 116 1400 0.1 3 1952 2.9 88	15 Th 0136 -0.7 -21 0759 4.5 137 1431 -0.7 -21 2026 3.5 107	30 F 0127 -0.1 -3 0750 3.7 113 1414 -0.1 -3 2009 2.8 85						
	31 M 0106 0.3 9 0726 4.0 122 1347 0.3 9 1938 3.3 101				31 Sa 0207 -0.1 -3 0828 3.7 113 1452 -0.2 -6 2049 2.9 88						

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
 Heights are referred to mean lower low water which is the chart datum of soundings.

Oregon Inlet, North Carolina, 2016

Times and Heights of High and Low Waters

January				February				March			
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height
1 F 0058 0719 1240 1946	h m 0.7 0.1 0.7 0.0	ft 21 3 21 0	cm 21 3 27 0	16 Sa 0024 0723 1237 1940	h m 1.0 0.1 0.9 0.0	ft 30 3 27 0	cm 34 3 27 0	16 Tu 0130 0814 1338 2009	h m 0.7 0.1 0.6 0.0	ft 21 3 18 0	cm 34 3 24 0
	0153 0815 1338 2030	0.7 0.1 0.6 0.0	21 3 18 0		0224 Tu 0917 1444 2102	0.8 0.0 0.6 0.0	24 0 18 0		0214 Tu 0931 1448 2130	1.1 0.1 0.8 0.1	34 3 24 3
	0246 0913 1443 2115	0.7 0.1 0.6 0.0	21 3 18 0		0319 W 1019 1549 2156	0.8 0.1 0.6 0.0	24 0 18 0		0423 Th 1133 1658 2331	1.1 0.0 0.8 0.0	34 0 24 0
	0335 1009 1545 2201	0.8 0.0 0.6 0.0	24 0 18 0		0412 Th 1117 1644 2250	0.9 0.0 0.7 0.0	27 0 21 0		0518 F 1225 1751	1.1 0.0 0.9	34 0 27
5 Tu 0420 1103 1638 2247	0.8 0.0 0.6 0.0	24 0 18 0	20 W 1150 1707 2343	0.440 0.0 0.8 0.0	0501 F 1209 1733 2342	1.0 0.0 0.7 0.0	30 0 21 0	20 Sa 0421 1133 1704 2316	0.0 0.1 0.9 0.1	34 0 27 3	
	0501 1154 1723 2331	0.9 0.0 0.6 -0.1	27 0 18 -3	0548 Sa 1258 1819	1.1 -0.1 0.8 0.8	34 -3 24 27	0025 Sa 0607 1312 1839		0.0 1.1 0.0 0.9	0 34 0 27	
	0540 1242 1804	0.9 -0.1 0.7	27 -3 21	0113 Su 0651 1355	0.0 1.0 -0.1 -0.1	0 30 -3 -3	0421 Sa 1133 1704 2316		1.1 0.0 0.9 0.1	34 0 27 30	
	0037 0624 1334 1852	-0.1 1.1 -0.1 0.9	-3 34 -3 27	0034 Su 0633 1344 1904	-0.1 1.1 -0.1 0.9	-3 34 -3 27	0159 M 0732 1434 O		0.0 1.0 -0.1 0.9	0 30 -3 34	
8 F 0013 0619 1328 1845	-0.1 1.0 -0.1 0.7	-3 30 -3 21	22 F 0127 0711 1421 O	0037 Sa 0711 1421 1939	0.1 1.1 -0.1 0.9	-3 34 -3 27	22 M 0159 0732 1434 O	0016 M 0606 1309 1843	0.0 1.2 -0.1 1.1	0 37 0 34	
	0056 0659 1413 1926	-0.1 1.1 -0.1 0.8	-3 34 -3 24	0126 M 0719 1428 ●	-0.1 1.2 -0.1 1.0	-3 37 -3 30	0240 Tu 0811 1510 2044	0.0 1.0 -0.1 0.9	0 30 -3 27		
	0214 0754 1504 2025	-0.1 1.1 -0.1 0.9	-3 34 -3 27	0218 Tu 0804 1511 2036	-0.1 1.2 -0.1 1.1	-3 37 -3 34	0319 W 0847 1542 2121	0.0 0.9 -0.1 0.9	0 27 -3 27		
	0258 0835 1544 2109	-0.1 1.0 -0.1 0.9	-3 30 -3 27	0313 W 0851 1554 2124	-0.1 1.2 -0.1 1.1	-3 37 -3 34	0356 Th 0922 1611 2155	0.0 0.9 0.0 0.9	0 27 -3 27		
10 Su 0139 0741 1457 2009	-0.1 1.1 -0.1 0.8	-3 34 -3 24	25 M 0340 0914 1623 2151	0258 Tu 1.0 30 -0.1 -3	0409 Th 0939 1639 2214	-0.1 1.1 -0.1 1.2	-3 34 -3 37	10 Th 0308 0833 1524 2105	0.0 1.2 0.0 1.3	0 37 0 40	
	0225 0824 1540 2054	-0.1 1.2 -0.1 0.9	-3 37 -3 27	0431 F 0957 1637 2229	0.0 0.8 0.0 0.9	0 24 0 27	0404 F 0923 1611 2155		0.0 1.2 0.0 1.4	0 37 0 43	
	0314 0908 1623 2141	-0.1 1.2 -0.1 0.9	-3 37 -3 27	0508 F 1029 1728 2306	0.0 1.1 0.0 1.2	0 34 0 37	0502 Sa 1015 1704 2304		0.0 1.1 0.0 0.9	0 34 0 27	
	0420 0952 1658 2233	0.0 0.9 -0.1 0.8	0 27 -3 24	0506 Sa 1033 1704 2304	0.0 0.8 0.0 0.9	0 24 0 27	0502 Sa 1002 1615 2247		0.0 0.8 0.1 1.3	0 24 0 30	
13 W 0408 0954 1707 2232	0.0 1.1 -0.1 1.0	0 34 -3 30	28 Th 1030 1732 2314	0500 Th 0.8 24 0.8	0610 Sa 1123 1821 2314	0.0 1.0 0.0 0.9	0 30 0 27	13 Su 0546 1113 1739 2344	0.1 0.7 0.1 0.9	3 21 3 27	
	0541 1109 1805 2356	0.0 0.7 -0.1 0.8	0 21 -3 24	0610 Sa 1123 1821 2314	0.0 1.0 0.0 0.9	0 30 0 27	0602 Su 1110 1759 2343		0.0 1.0 0.1 1.3	0 30 0 40	
	0541 1109 1805 2356	0.0 0.7 -0.1 0.8	0 21 -3 24	0003 Su 0716 1224 1920	1.2 0.1 0.9 0.1	37 3 27 3	0632 M 1159 1822 ●		0.1 0.7 0.1 0.1	3 21 3 6	
	0613 1137 1844	0.0 1.0 0.0	0 30 0	0106 M 0824 1332 2025	1.1 0.1 0.8 0.1	34 3 24 3	0044 Tu 0809 1323 ●		1.2 0.1 0.9 0.2	37 3 27 6	
15 F 0613 1137 1844	0.0 1.0 0.0	0 30 0	31 Su 0717 1240 ●	0041 Su 0.7 18 0.0	0041 Su 1240 ●	0.7 0.6 0.0	21 18 0	15 ● 0206	0.0 0.1 0.2	0 30 0 6	
	0717 1240 ●	0.0 0.6 0.0	0 18 0	0041 Th 1320 ●	1.0 0.7 0.2	30 21 0	0521 M 1042 1652 2349		0.1 0.7 0.1 1.0	3 21 3 30	
	0717 1240 ●	0.0 0.6 0.0	0 18 0	0041 Th 1320 ●	1.0 0.7 0.2	30 21 0	0521 M 1042 1652 2349		0.1 0.7 0.1 1.0	3 21 3 30	
	0717 1240 ●	0.0 0.6 0.0	0 18 0	0041 Th 1320 ●	1.0 0.7 0.2	30 21 0	0521 M 1042 1652 2349		0.1 0.7 0.1 1.0	3 21 3 30	

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
 Heights are referred to mean lower low water which is the chart datum of soundings.

Oregon Inlet, North Carolina, 2016

Times and Heights of High and Low Waters

April				May				June			
Time	Height	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 F 0138	1.0	30	16 Sa 0331	1.0	30	1 Su 0206	1.1	34	1 W 0350	0.9	27
0901	0.1	3	1038	0.0	0	0923	0.1	3	W 1045	0.0	0
1429	0.8	24	1629	0.9	27	1510	1.0	30	M 1651	0.9	27
2029	0.2	6	2252	0.2	6	2120	0.2	6	2315	0.2	6
2 Sa 0240	1.1	34	17 Su 0426	1.0	30	2 M 0309	1.1	34	2 Th 0442	0.8	24
1000	0.1	3	1125	0.0	0	1016	0.0	0	Tu 1127	0.0	0
1537	0.9	27	1718	1.0	30	1611	1.1	34	Th 1734	1.0	30
2142	0.2	6	2346	0.2	6	2238	0.2	6			
3 Su 0342	1.1	34	18 M 0515	0.9	27	3 Tu 0412	1.1	34	3 F 0005	0.2	6
1054	0.1	3	1207	0.0	0	1107	0.0	0	W 0528	0.8	24
1637	1.0	30	1802	1.0	30	1707	1.2	37	1205	0.0	0
2254	0.1	3				2349	0.1	3	1813	1.0	30
4 M 0442	1.2	37	19 Tu 0035	0.1	3	4 W 0512	1.1	34	4 Th 0051	0.1	3
1144	0.0	0	0600	0.9	27	1157	0.0	0	W 0610	0.8	24
1730	1.1	34	1246	0.0	0	1759	1.4	43	1240	0.0	0
			1841	1.0	30				1848	1.0	30
5 Tu 0002	0.1	3	20 W 0119	0.1	3	5 Th 0052	0.1	3	5 Sa 0139	0.1	3
0538	1.2	37	0640	0.9	27	0609	1.1	34	0644	1.1	34
1232	0.0	0	1320	0.0	0	1248	0.0	0	1319	-0.1	-3
1820	1.3	40	1917	1.1	34	1850	1.5	46	● 1923	1.5	46
6 W 0104	0.0	0	21 Th 0200	0.1	3	6 F 0151	0.0	0	6 Sa 0214	0.1	3
0632	1.2	37	0718	0.8	24	0703	1.1	34	0723	0.8	24
1319	0.0	0	1351	0.0	0	1339	0.0	0	0830	1.0	30
1909	1.4	43	1949	1.1	34	● 1939	1.5	46	1504	0.0	0
7 Th 0202	0.0	0	22 F 0238	0.1	3	7 Sa 0248	0.0	0	6 M 0329	0.0	0
0724	1.2	37	0752	0.8	24	0756	1.1	34	0807	0.8	24
1406	0.0	0	1417	0.0	0	1431	0.0	0	1413	0.0	0
● 1958	1.5	46	○ 2019	1.1	34	2029	1.5	46	2032	1.2	37
8 F 0259	0.0	0	23 Sa 0315	0.0	0	8 Su 0343	0.0	0	21 Tu 0314	0.1	3
0815	1.2	37	0825	0.8	24	0848	1.1	34	0729	0.8	24
1455	0.0	0	1441	0.0	0	1523	0.0	0	1339	0.0	0
2047	1.5	46	2048	1.1	34	2119	1.5	46	● 1956	1.2	37
9 Sa 0355	0.0	0	24 Sa 0351	0.0	0	9 M 0439	0.0	0	22 W 0357	0.1	3
0906	1.1	34	0858	0.8	24	0942	1.0	30	0848	0.8	24
1546	0.0	0	1506	0.1	3	1617	0.0	0	1450	0.1	3
2136	1.5	46	2120	1.1	34	2209	1.4	43	2110	1.3	40
10 Su 0452	0.0	0	25 M 0429	0.1	3	10 Tu 0534	0.0	0	23 Th 0439	0.1	3
0959	1.1	34	0935	0.8	24	1039	0.9	27	0932	0.9	27
1639	0.1	3	1537	0.1	3	1713	0.1	3	1533	0.1	3
2228	1.4	43	2155	1.1	34	2301	1.3	40	2152	1.3	40
11 M 0550	0.0	0	26 Tu 0509	0.1	3	11 W 0630	0.0	0	9 Th 0604	0.0	0
1056	1.0	30	1015	0.7	21	1142	0.9	27	1011	0.9	27
1737	0.1	3	1615	0.1	3	1812	0.1	3	1118	0.1	3
2323	1.3	40	2235	1.1	34	2356	1.2	37	1743	0.1	3
12 Tu 0649	0.1	3	27 W 0554	0.1	3	12 Th 0725	0.0	0	1222	0.8	24
1159	0.9	27	1101	0.7	21	1251	0.9	27	1839	0.2	6
1838	0.2	6	1659	0.2	6	1914	0.2	6	● 1939	0.3	9
13 W 0021	1.2	37	28 Th 0643	0.1	3	13 F 0053	1.1	34	2039	0.3	9
0750	0.1	3	1153	0.7	21	0819	0.0	0	2047	0.3	9
1311	0.9	27	1751	0.2	6	1402	0.8	24	● 1943	0.2	6
● 1943	0.2	6				● 2017	0.2	6			
14 Th 0125	1.1	34	29 F 0009	1.1	34	14 Sa 0153	1.0	30	29 Tu 0308	0.8	24
0849	0.1	3	0736	0.1	3	0911	0.0	0	1002	0.0	0
1426	0.9	27	1254	0.8	24	1507	0.9	27	1616	0.9	27
2048	0.2	6	● 1851	0.2	6	2120	0.2	6	● 1945	0.2	6
15 F 0230	1.1	34	30 Sa 0105	1.1	34	15 Su 0254	0.9	27	15 W 0403	0.8	24
0946	0.1	3	0830	0.1	3	1000	0.0	0	1044	0.0	0
1532	0.9	27	1402	0.8	24	1602	0.9	27	1700	0.9	27
2152	0.2	6	2001	0.2	6	2220	0.2	6	2107	0.2	6
									31 Tu 0242	1.1	34
									0944	0.0	0
									1547	1.2	37
									2226	0.2	6

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Oregon Inlet, North Carolina, 2016

Times and Heights of High and Low Waters

July				August				September				
Time	Height	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 F 0433	1.1	34	16 Sa 0459	0.8	24	1 M 0109	0.3	9	16 Th 0040	0.3	9	
1118	0.0	0	1122	0.1	3	0617	1.2	37	0737	1.3	40	
1724	1.4	43	1741	1.1	34	1257	0.1	3	1214	0.2	6	
						1852	1.4	43	1822	1.4	43	
									● 1958	1.4	43	
2 Sa 0028	0.2	6	17 Su 0029	0.2	6	2 Tu 0159	0.2	6	17 W 0126	0.3	9	
0533	1.1	34	0541	0.9	27	0707	1.2	37	0637	1.1	34	
1214	0.0	0	1200	0.1	3	1346	0.1	3	1300	0.2	6	
1817	1.4	43	1817	1.2	37	● 1938	1.4	43	1904	1.4	43	
										2038	1.3	40
3 Su 0126	0.2	6	18 M 0117	0.2	6	3 W 0246	0.2	6	18 Th 0209	0.3	9	
0629	1.1	34	0622	0.9	27	0756	1.2	37	0721	1.2	37	
1307	0.0	0	1238	0.1	3	1433	0.1	3	1348	0.2	6	
1908	1.5	46	1853	1.2	37	2021	1.4	43	○ 1946	1.5	46	
										2115	1.2	37
4 M 0219	0.1	3	19 Tu 0202	0.2	6	4 Th 0331	0.2	6	19 F 0252	0.3	9	
0722	1.1	34	0702	0.9	27	0842	1.2	37	0807	1.3	40	
1358	0.0	0	1317	0.1	3	1517	0.2	6	1437	0.2	6	
● 1956	1.4	43	○ 1930	1.3	40	2103	1.3	40	2030	1.5	46	
										2152	1.2	37
5 Tu 0310	0.1	3	20 W 0246	0.2	6	5 F 0413	0.2	6	20 Sa 0334	0.3	9	
0813	1.0	30	0744	1.0	30	0928	1.1	34	0853	1.4	43	
1447	0.0	0	1358	0.1	3	1559	0.2	6	1529	0.2	6	
2042	1.4	43	2009	1.4	43	2143	1.3	40	2116	1.5	46	
										2229	1.1	34
6 W 0359	0.1	3	21 Th 0328	0.2	6	6 Sa 0454	0.2	6	21 Su 0419	0.3	9	
0904	1.0	30	0827	1.0	30	1013	1.1	34	0941	1.4	43	
1536	0.1	3	1441	0.1	3	1640	0.2	6	1624	0.3	9	
2127	1.3	40	2050	1.4	43	2223	1.2	37	2204	1.4	43	
										2308	1.1	34
7 Th 0446	0.1	3	22 F 0410	0.2	6	7 Su 0533	0.2	6	22 M 0506	0.3	9	
0955	1.0	30	0913	1.1	34	1058	1.1	34	1033	1.4	43	
1623	0.1	3	1529	0.2	6	1720	0.3	9	1723	0.3	9	
2211	1.3	40	2133	1.4	43	2303	1.1	34	2255	1.4	43	
										2351	1.0	30
8 F 0532	0.1	3	23 Sa 0452	0.2	6	8 M 0613	0.2	6	23 Tu 0558	0.3	9	
1048	1.0	30	1001	1.1	34	1144	1.0	30	1128	1.4	43	
1711	0.2	6	1622	0.2	6	1802	0.3	9	1828	0.4	12	
2255	1.2	37	2219	1.3	40	2346	1.0	30	2350	1.3	40	
										2338	1.3	40
9 Sa 0617	0.1	3	24 Su 0535	0.2	6	9 Tu 0654	0.3	9	24 W 0656	0.4	12	
1143	0.9	27	1053	1.2	37	1233	1.0	30	1230	1.4	43	
1800	0.2	6	1720	0.3	9	1850	0.4	12	1938	0.4	12	
2340	1.1	34	2309	1.3	40				● 2001	0.4	12	
10 Su 0701	0.1	3	25 M 0622	0.2	6	10 W 0032	1.0	30	25 Th 0051	1.3	40	
1240	0.9	27	1149	1.2	37	0737	0.3	9	0758	0.4	12	
1852	0.3	9	1826	0.3	9	1328	1.0	30	1338	1.4	43	
						● 1945	0.4	12	2048	0.5	15	
										2109	0.4	12
11 M 0027	1.0	30	26 Tu 0003	1.2	37	11 Th 0126	0.9	27	26 F 0201	1.2	37	
0745	0.1	3	0714	0.2	6	0823	0.3	9	0901	0.4	12	
1340	0.9	27	1251	1.2	37	1426	1.0	30	1449	1.4	43	
● 1947	0.3	9	○ 1940	0.3	9	2049	0.4	12	2156	0.5	15	
										2213	0.4	12
12 Tu 0120	0.9	27	27 W 0102	1.2	37	12 F 0226	0.9	27	27 Sa 0312	1.2	37	
0830	0.1	3	0811	0.2	6	0910	0.3	9	1004	0.3	9	
1438	0.9	27	1358	1.3	40	1523	1.0	30	1556	1.4	43	
2046	0.3	9	2056	0.4	12	2155	0.4	12	2259	0.4	12	
										2309	0.4	12
13 W 0219	0.9	27	28 Th 0208	1.1	34	13 Sa 0327	0.9	27	28 Su 0417	1.2	37	
0915	0.1	3	0911	0.2	6	0957	0.3	9	1102	0.3	9	
1531	0.9	27	1507	1.3	40	1613	1.1	34	1655	1.4	43	
2145	0.3	9	2208	0.4	12	2256	0.4	12	2356	0.4	12	
										2358	0.4	12
14 Th 0318	0.8	24	29 F 0317	1.1	34	14 Su 0421	1.0	30	29 M 0515	1.2	37	
0959	0.1	3	1012	0.2	6	1043	0.2	6	1157	0.3	9	
1619	1.0	30	1612	1.4	43	1658	1.2	37	1747	1.4	43	
2243	0.3	9	2314	0.4	12	2351	0.3	9				
15 F 0412	0.8	24	30 Sa 0423	1.1	34	15 M 0508	1.0	30	30 Tu 0047	0.4	12	
1041	0.1	3	1110	0.2	6	1129	0.2	6	0606	1.3	40	
1702	1.0	30	1710	1.4	43	1741	1.3	40	1247	0.3	9	
2338	0.3	9	1803	1.4	43				1834	1.4	43	
										1837	1.5	46
										● 1935	1.2	37
31 Su 0014	0.3	9				31 W 0134	0.3	9				
0522	1.1	34				0653	1.3	40				
1206	0.1	3				1334	0.2	6				
1803	1.4	43				1918	1.4	43				

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Oregon Inlet, North Carolina, 2016

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		h m	ft cm				
1 Sa	0219	0.3 9		16 Su	0137	0.2 6		1 Tu	0241	0.2 6		16 Th	0235	0.1 3	
	0753	1.3 40			0725	1.6 49			0830	1.2 37			0835	1.1 34	
	1439	0.3 9			1423	0.1 3			1528	0.1 3			1549	0.0 0	
	2013	1.2 37			1951	1.4 43			2055	0.9 27			2117	1.2 37	
2 Su	0253	0.3 9		17 M	0226	0.2 6		2 W	0307	0.2 6		2 F	0306	0.1 3	
	0828	1.3 40			0813	1.6 49			0902	1.2 37			0910	1.1 34	
	1514	0.3 9			1518	0.2 6			1602	0.2 6			1626	0.0 0	
	2048	1.2 37			2041	1.4 43			2128	0.9 27			2140	0.8 24	
3 M	0323	0.3 9		18 Tu	0319	0.3 9		3 Th	0336	0.2 6		3 Sa	0343	0.1 3	
	0901	1.3 40			0903	1.6 49			0936	1.1 34			0949	1.1 34	
	1547	0.3 9			1614	0.2 6			1639	0.2 6			1705	0.0 0	
	2123	1.1 34			2133	1.3 40			2205	0.9 27			2222	0.8 24	
4 Tu	0352	0.3 9		19 W	0415	0.3 9		4 F	0412	0.3 9		4 Sa	0427	0.1 3	
	0934	1.2 37			0955	1.6 49			1015	1.1 34			1031	1.0 30	
	1619	0.3 9			1713	0.2 6			1720	0.2 6			1744	0.0 0	
	2157	1.1 34			2227	1.3 40			2246	0.9 27			2310	0.8 24	
5 W	0421	0.4 12		20 Th	0514	0.3 9		5 Sa	0455	0.3 9		5 M	0518	0.2 6	
	1009	1.2 37			1050	1.5 46			1058	1.1 34			1118	1.0 30	
	1654	0.3 9			1813	0.3 9			1806	0.2 6			1827	0.1 3	
	2234	1.0 30			2326	1.2 37			2334	0.9 27			2002	0.0 0	
6 Th	0457	0.4 12		21 F	0617	0.3 9		6 Su	0546	0.3 9		6 Tu	0003	0.8 24	
	1047	1.2 37			1149	1.4 43			1146	1.1 34			0618	0.2 6	
	1736	0.3 9			1914	0.3 9			1857	0.2 6			1210	1.0 30	
	2315	1.0 30											1913	0.1 3	
7 F	0539	0.4 12		22 Sa	0033	1.2 37		7 M	0029	0.9 27		7 W	0101	0.9 27	
	1132	1.1 34			0723	0.3 9			0644	0.3 9			0726	0.2 6	
	1827	0.4 12			1254	1.3 40			1240	1.1 34			1309	1.0 30	
				O	2015	0.3 9		O	1950	0.2 6		O	2003	0.1 3	
8 Sa	0004	1.0 30		23 Su	0146	1.1 34		8 Tu	0131	1.0 30		8 Th	0204	1.0 30	
	0629	0.4 12			0828	0.4 12			0751	0.3 9			0841	0.1 3	
	1222	1.1 34			1404	1.2 37			1340	1.1 34			1413	0.9 27	
	O	1926	0.4 12		2115	0.3 9			2044	0.2 6			2058	0.1 3	
9 Su	0100	1.0 30		24 M	0255	1.1 34		9 W	0235	1.0 30		9 Th	0307	1.1 34	
	0725	0.4 12			0932	0.3 9			0903	0.3 9			0956	0.1 3	
	1319	1.2 37			1511	1.2 37			1444	1.1 34			1634	0.8 24	
	2029	0.4 12			2210	0.3 9			2138	0.2 6			2309	0.1 3	
10 M	0204	1.0 30		25 Tu	0355	1.2 37		10 Th	0336	1.2 37		10 Sa	0407	1.2 37	
	0827	0.4 12			1032	0.3 9			1013	0.2 6			1104	0.1 3	
	1421	1.2 37			1610	1.1 34			1549	1.1 34			1626	1.0 30	
	2128	0.4 12			2300	0.3 9			2230	0.2 6			2254	0.0 0	
11 Tu	0308	1.1 34		26 W	0447	1.2 37		11 F	0432	1.3 40		11 Sa	0503	1.3 40	
	0931	0.4 12			1126	0.3 9			1118	0.2 6			1207	0.0 0	
	1524	1.2 37			1702	1.1 34			1650	1.2 37			1726	1.0 30	
	2223	0.3 9			2346	0.2 6			2323	0.1 3			2353	0.0 0	
12 W	0406	1.2 37		27 Th	0533	1.2 37		12 Sa	0525	1.4 43		12 M	0557	1.4 43	
	1035	0.3 9			1216	0.2 6			1219	0.1 3			1305	0.0 0	
	1623	1.3 40			1749	1.1 34			1747	1.2 37			1822	1.0 30	
	2313	0.3 9											1858	0.7 21	
13 Th	0459	1.3 40		28 F	0028	0.2 6		13 Su	0015	0.1 3		13 Tu	0050	-0.1 -3	
	1135	0.3 9			0614	1.2 37			0616	1.5 46			0650	1.4 43	
	1718	1.3 40			1300	0.2 6			1317	0.1 3			1401	-0.1 -3	
					1832	1.0 30			1840	1.2 37			1916	1.0 30	
14 F	0001	0.3 9		29 Sa	0106	0.2 6		14 M	0108	0.1 3		14 W	0147	-0.1 -3	
	0548	1.4 43			0652	1.2 37			0706	1.5 46			0741	1.4 43	
	1232	0.2 6			1341	0.2 6			1413	0.0 0			1455	-0.1 -3	
	1811	1.4 43			1911	1.0 30			1932	1.2 37			2008	1.0 30	
15 Sa	0049	0.3 9		30 Su	0141	0.2 6		15 Tu	0202	0.1 3		15 Th	0242	-0.1 -3	
	0637	1.5 46			0727	1.2 37			0756	1.6 49			0831	1.4 43	
	1328	0.2 6			1419	0.2 6			1508	0.0 0			1548	-0.1 -3	
	O	1901	1.4 43		O	1948	1.0 30			2024	1.2 37			2101	1.0 30
				31 M	0213	0.2 6							31 Sa	0247	0.0 0
					0759	1.2 37							0848	1.0 30	
					1454	0.1 3							1606	-0.1 -3	
					2022	1.0 30							2119	0.7 21	

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Cape Hatteras, North Carolina, 2016

Times and Heights of High and Low Waters

January				February				March															
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height												
1 F 0006 0607 1213 1836	h m 2.5 0.5 2.5 0.2	ft 76 15 76 6	cm 16 1205 1823 0.4	16 Sa M M	0600 1205 1301 1910	-0.1 2.9 -0.4 0.2	-3 88 -12 -6	1 M 1 1	0055 0715 1301 1910	2.5 0.5 2.1 0.2	76 15 64 6	16 Tu 16 2007	0140 0809 1401 -0.2	3.2 0.0 2.4 -6	98 0 73 -6	1 O 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	0001 0626 1214 1818	2.7 0.5 2.1 0.3	82 15 64 9	16 W 2 W 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	0119 0753 1350 1951	3.3 0.1 2.4 0.0	101 3 73 0 9 1 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
	0100 0708 1305 1923	2.5 0.6 2.4 0.3	76 18 73 9	17 Su Tu O	0052 0710 1308 1922	3.1 0.0 2.7 -0.4	94 0 82 -12	2 Tu W M	0152 0818 1400 2004	2.6 0.5 2.0 0.2	79 15 61 6	17 W 17 2113	0247 0919 1511 -0.2	3.2 0.0 2.4 -6	98 0 73 -6	2 W 17 Th 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	0056 0727 1313 1915	2.7 0.5 2.1 0.3	82 15 64 9	17 Th 17 2101	0228 0900 1500 2101	3.2 0.1 2.5 0.1	98 3 76 3
	0156 0811 1359 2011	2.6 0.6 2.2 0.2	79 18 67 6	18 M	0158 0822 1414 2024	3.2 0.0 2.5 -0.4	98 0 76 -12	3 W	0249 0919 1459 2100	2.7 0.4 2.0 0.1	82 12 61 3	18 Th 18 2214	0351 1021 1614 -0.2	3.3 -0.1 2.4 -6	101 -3 73 -6	3 Th 3 2018	0157 0830 1417 -0.2	2.8 0.4 2.1 -6	85 12 64 6	18 F 1800 1602 2204	0332 1000 2.6 0.1	3.1 94 79 3	
	0249 0910 1454 2059	2.7 0.5 2.2 0.2	82 15 67 6	19 Tu	0303 0931 1521 2125	3.3 -0.1 2.5 -0.4	101 -3 76 -12	4 Th	0343 1013 1555 2154	2.9 0.2 2.2 -0.1	88 6 67 -3	19 F	0447 1114 1709 2309	3.3 -0.1 2.5 -0.3	101 -3 76 -9	4 F	0258 0930 1519 2120	2.9 0.3 2.3 0.0	88 9 70 0	19 Sa 1655 2258	0428 1051 1655 0.0	3.1 0.0 2.7 0.0	94 0 82 0
5 Tu 1004 1546 2145	0338 1004 1546 2145	2.9 0.4 2.2 0.1	88 12 67 3	20 W	0404 1033 1623 2223	3.5 -0.2 2.5 -0.5	107 -6 76 -15	5 F	0433 1102 1647 2245	3.1 0.0 2.3 -0.3	94 0 70 -9	20 Sa	0538 1201 1758 2358	3.3 -0.2 2.7 -0.3	101 -6 82 -9	5 Sa	0355 1023 1616 2218	3.1 0.1 2.5 -0.2	94 3 76 -6	20 Su 1740 2346	0517 1135 1740 -0.1	3.1 0.0 2.9 -3	94 0 88 -3
	0424 1052 1634 2231	3.1 0.2 2.3 -0.1	94 6 70 -3	21 W	0500 1129 1719 2318	3.6 -0.3 2.6 -0.5	110 -9 79 -15	6 Sa	0520 1147 1736 2335	3.3 -0.2 2.5 -0.5	101 -6 76 -15	21 Su	0623 1243 1842	3.3 -0.3 2.8	101 -6 85	6 Su	0448 1111 1709 2313	3.4 -0.2 2.8 -0.5	104 -6 85 -15	21 M 1821	0600 1214 1821	3.1 -0.1 3.0	94 -3 91
	0508 1136 1719 2315	3.3 0.1 2.4 -0.2	101 3 73 -6	22 Th	0551 1219 1810	3.6 -0.4 2.7	110 -12 82	7 Su	0606 1230 1823	3.5 -0.4 2.8	107 -12 85	22 M	0043 0703 1321 1922	-0.4 3.3 -0.3 2.9	-12 101 -9 88	7 M	0538 1157 1759	3.5 -0.4 3.2	107 -12 98	22 Tu	0028 0639 1249 1858	-0.1 3.1 -0.1 3.1	-3 94 -3 94
	0550 1218 1803 2359	3.4 -0.1 2.5 -0.3	104 -3 76 -9	23 F	0008 0639 1304 1858	-0.5 3.6 -0.4 2.7	-15 110 -12 82	8 M	0024 0651 1313 1910	-0.7 3.7 -0.6 3.0	-21 113 -18 91	23 Tu	0125 0741 1356 2000	-0.3 3.2 -0.3 2.9	-9 98 88	8 Tu	0006 0627 1242 1848	-0.7 3.7 -0.6 3.4	-21 113 -18 104	23 O	0107 0715 1322 1933	-0.1 3.1 -0.1 3.2	-3 94 -3 98
9 Sa 1259 1847	0632 1259 1847	3.6 -0.2 2.6	110 -6 79	24 Sa	0055 0723 1347 1942	-0.5 3.6 -0.4 2.7	-15 110 -12 82	9 Tu	0113 0736 1356 1957	-0.8 3.7 -0.7 3.2	-24 113 -21 98	24 W	0204 0818 1430 2036	-0.3 3.1 -0.2 2.9	-9 94 88 88	9 W	0058 0714 1327 1937	-0.8 3.7 -0.8 3.7	-24 113 -24 113	24 Th	0145 0750 1353 2007	-0.1 3.0 -0.1 3.2	-3 91 -3 98
	10043 0714 1340 1931	-0.5 3.7 -0.4 2.7	-15 113 -12 82	25 Su	0140 0804 1427 2025	-0.5 3.5 -0.4 2.7	-15 107 -12 82	10 W	0203 0822 1439 2046	-0.8 3.7 -0.8 3.3	-24 113 -24 101	25 Th	0243 0852 1502 2112	-0.2 2.9 -0.2 2.9	-6 88 -6 88	10 Th	0150 0802 1412 2027	-0.9 3.7 -0.8 3.8	-27 113 -24 116	25 F	0221 0823 1424 2041	-0.1 2.9 0.0 3.2	-3 88 0 98
	0128 0757 1422 2016	-0.5 3.7 -0.4 2.8	-15 113 -12 85	26 M	0223 0844 1505 2106	-0.3 3.3 -0.3 2.7	-9 101 -9 82	11 Tu	0254 0909 1525 2137	-0.8 3.5 -0.8 3.4	-24 107 -24 104	26 F	0321 0927 1535 2149	-0.1 2.8 -0.1 2.8	-3 85 -3 85	11 F	0243 0850 1459 2118	-0.8 3.5 -0.8 3.8	-24 107 -24 116	26 Sa	0258 0857 1456 2116	0.0 2.7 0.1 3.2	0 82 3 98
	0215 0841 1505 2104	-0.5 3.7 -0.5 2.9	-15 113 -15 88	27 Tu	0305 0923 1542 2147	-0.2 3.1 -0.2 2.7	-6 94 -6 82	12 W	0348 0958 1612 2231	-0.6 3.3 -0.7 3.4	-18 101 -21 104	27 Sa	0401 1003 1609 2229	0.1 2.6 0.0 2.8	3 79 0 85	12 Sa	0337 0941 1547 2212	-0.7 3.3 -0.7 3.8	-21 101 -21 116	27 Su	0336 0932 1529 2153	0.1 2.6 0.1 3.1	3 79 3 94
13 W	0304 0927 1550 2155	-0.5 3.6 -0.5 3.0	-15 110 -15 91	28 Th	0348 1001 1619 2229	0.0 2.8 -0.1 2.6	0 85 -3 79	13 Sa	0445 1051 1703 2329	-0.4 3.0 -0.6 3.3	-12 91 -18 101	28 Su	0444 1041 1646 2312	0.2 2.4 0.2 2.7	6 73 6 82	13 Tu	0434 1035 1640 2309	-0.5 3.0 -0.5 3.6	-15 91 -15 110	28 M	0416 1009 1606 2233	0.2 2.4 0.2 3.0	6 73 6 91
	0358 1016 1638 2250	-0.4 3.4 -0.5 3.0	-12 104 -15 91	29 F	0433 1040 1656 2314	0.1 2.6 0.0 2.5	3 79 0 76	14 Su	0548 1148 1759	-0.2 2.8 -0.4	-6 85 -12 96	29 M	0531 1124 1728	0.4 2.2 0.2	12 67 6 6	14 Th	0536 1133 1737	-0.2 2.7 -0.3	-6 82 -9 -3	29 Tu	0500 1052 1648 2319	0.4 2.3 0.3 3.0	12 70 9 91
	0456 1108 1728 2349	-0.2 3.1 -0.4 3.1	-6 94 -12 94	30 F	0521 1122 1736	0.3 2.4 0.1	9 73 3	15 Sa	0632 0657 1252 1900	3.3 -0.1 2.5 -0.3	101 -3 76 -9	30 W	0012 0643 1239 1841	3.4 0.0 2.5 -0.1	104 0 76 -3	30 Tu	0550 1141 1737 1836	0.4 2.2 0.4 0.4	12 67 12 12				
	31 Su	0002 0614 1208 1821	2.5 0.4 2.2 0.2	76 12 67 6	31 O	0614 1208 1821	0.4 2.2 0.2	12 67 6									31 Th	0013 0646 1238 1836	2.9 0.5 2.2 0.4	88 15 67 12			

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Cape Hatteras, North Carolina, 2016

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	0113	3.0	91	16 Sa	0304	3.0	91	1 Su	0140	3.2	98	16 M	0319	2.8	85
	0747	0.4	12		0929	0.2	6		0809	0.1	3		0936	0.2	6
	1343	2.3	70		1541	2.7	82		1420	2.8	85		1600	3.0	91
	1942	0.3	9		2145	0.3	9		2025	0.2	6		2212	0.5	15
2 Sa	0216	3.1	94	17 Su	0359	3.0	91	2 M	0242	3.2	98	17 Tu	0409	2.7	82
	0847	0.3	9		1018	0.2	6		0905	0.0	0		1018	0.2	6
	1447	2.5	76		1632	2.9	88		1521	3.2	98		1644	3.1	94
	2050	0.2	6		2239	0.3	9		2132	0.0	0		2300	0.4	12
3 Su	0317	3.2	98	18 M	0448	2.9	88	3 Tu	0342	3.3	101	18 W	0453	2.7	82
	0942	0.1	3		1100	0.1	3		0958	-0.3	-9		1056	0.1	3
	1547	2.9	88		1716	3.0	91		1619	3.5	107		1724	3.3	101
	2154	-0.1	-3		2326	0.2	6		2235	-0.2	-6		2344	0.3	9
4 M	0415	3.4	104	19 Tu	0530	2.9	88	4 W	0440	3.3	101	19 Th	0534	2.6	79
	1034	-0.2	-6		1138	0.1	3		1049	-0.5	-15		1132	0.1	3
	1643	3.2	98		1755	3.2	98		1713	3.9	119		1801	3.4	104
	2253	-0.3	-9						2333	-0.4	-12				
5 Tu	0509	3.5	107	20 W	0009	0.1	3	5 Th	0534	3.4	104	20 F	0024	0.2	6
	1123	-0.4	-12		0609	2.9	88		1140	-0.6	-18		0613	2.6	79
	1735	3.6	110		1212	0.0	0		1806	4.2	128		1207	0.1	3
	2349	-0.6	-18		1831	3.3	101					1837	3.5	107	
6 W	0600	3.6	110	21 Th	0048	0.1	3	6 F	0029	-0.6	-18	21 Sa	0103	0.1	3
	1210	-0.6	-18		0645	2.9	88		0628	3.4	104		0650	2.6	79
	1826	3.9	119		1244	0.0	0		1230	-0.7	-21		1242	0.0	0
					1905	3.4	104		● 1858	4.4	134		○ 1912	3.6	110
7 Th	0044	-0.7	-21	22 F	0125	0.0	0	7 Sa	0124	-0.7	-21	22 Su	0140	0.1	3
	0651	3.6	110		0720	2.8	85		0720	3.3	101		0728	2.6	79
	1257	-0.8	-24		1316	0.0	0		1320	-0.7	-21		1317	0.1	3
	● 1917	4.1	125		○ 1939	3.4	104		1949	4.4	134		1948	3.6	110
8 F	0137	-0.8	-24	23 Sa	0201	0.0	0	8 Su	0217	-0.6	-18	23 M	0218	0.1	3
	0741	3.5	107		0755	2.7	82		0813	3.2	98		0805	2.6	79
	1345	-0.8	-24		1349	0.1	3		1411	-0.6	-18		1353	0.1	3
	2008	4.2	128		2013	3.5	107		2041	4.3	131		2024	3.6	110
9 Sa	0230	-0.7	-21	24 Su	0238	0.1	3	9 M	0311	-0.5	-15	24 Tu	0256	0.1	3
	0832	3.4	104		0830	2.7	82		0907	3.1	94		0944	2.9	88
	1433	-0.7	-21		1422	0.1	3		1503	-0.5	-15		1431	0.1	3
	2059	4.2	128		2048	3.4	104		2134	4.1	125		2102	3.5	107
10 Su	0325	-0.6	-18	25 M	0315	0.1	3	10 Tu	0406	-0.4	-12	25 W	0335	0.1	3
	0924	3.2	98		0906	2.6	79		1003	2.9	88		0924	2.5	76
	1524	-0.6	-18		1457	0.2	6		1557	-0.2	-6		1512	0.2	6
	2153	4.1	125		2124	3.4	104		2228	3.9	119		2143	3.5	107
11 M	0421	-0.4	-12	26 Tu	0354	0.2	6	11 W	0502	-0.2	-6	26 Th	0417	0.1	3
	1019	3.0	91		0945	2.5	76		1102	2.8	85		1009	2.5	76
	1618	-0.3	-9		1535	0.3	9		1656	0.0	0		1558	0.2	6
	2249	3.8	116		2205	3.3	101		2325	3.6	110		2227	3.4	104
12 Tu	0521	-0.2	-6	27 W	0437	0.3	9	12 Th	0600	0.0	0	27 F	0501	0.1	3
	1119	2.8	85		1028	2.4	73		1205	2.7	82		1059	2.5	76
	1717	-0.1	-3		1618	0.4	12		1759	0.3	9		1650	0.3	9
	2350	3.6	110		2249	3.2	98					2316	3.3	101	
13 W	0624	0.0	0	28 Th	0524	0.3	9	13 F	0025	3.3	101	28 Sa	0550	0.1	3
	1225	2.6	79		1117	2.4	73		0659	0.1	3		1155	2.6	79
	1822	0.1	3		1709	0.4	12		1310	2.7	82		1750	0.3	9
	●				2341	3.2	98		● 1906	0.4	12				
14 Th	0055	3.3	101	29 F	0616	0.3	9	14 Sa	0125	3.0	91	29 M	0011	3.2	98
	0730	0.1	3		1214	2.4	73		0756	0.2	6		0642	0.0	0
	1334	2.6	79		1809	0.4	12		1413	2.7	82		1255	2.8	85
	1933	0.3	9		●				2014	0.5	15		● 1856	0.3	9
15 F	0201	3.1	94	30 Sa	0038	3.1	94	15 Su	0225	2.9	88	30 M	0110	3.1	94
	0833	0.2	6		0712	0.3	9		0849	0.2	6		0736	-0.1	-3
	1441	2.6	79		1317	2.6	79		1510	2.8	85		1358	3.1	94
	2042	0.4	12		1915	0.4	12		2117	0.5	15		2005	0.2	6
31 Tu	0212	3.1	94	31 Th	0212	3.1	94	16 W	0832	-0.2	-6	31 F	0231	2.5	76
	0832	-0.2	-6		1459	3.4	104		1459	3.4	104		1520	2.9	88
	1459	3.4	104		2114	0.1	3		2114	0.1	3		2136	0.6	18
	2114	0.1	3									2228	0.5	15	

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Cape Hatteras, North Carolina, 2016

Times and Heights of High and Low Waters

July				August				September			
Time	Height	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 F 0354	2.9	88	16 Sa 0415	2.4	73	1 M 0540	2.9	88	1 Th 0516	2.8	85
0959	-0.5	-15	1013	0.2	6	1139	-0.3	-9	0700	3.3	101
1639	4.0	122	1655	3.3	101	1813	4.0	122	1304	0.0	0
2307	-0.1	-3	2324	0.4	12	1748	3.8	116	1922	3.7	113
2 Sa 0454	2.9	88	17 Su 0502	2.4	73	2 Tu 0039	-0.1	-3	2 F 0137	0.1	3
1055	-0.5	-15	1057	0.1	3	0631	3.0	91	0741	3.4	104
1734	4.1	125	1737	3.5	107	1230	-0.3	-9	1346	0.1	3
●			●			1900	4.0	122	2001	3.6	110
3 Su 0003	-0.3	-9	18 M 0006	0.3	9	3 W 0125	-0.1	-3	3 Sa 0214	0.2	6
0551	2.9	88	0547	2.5	76	0720	3.1	94	0820	3.4	104
1150	-0.6	-18	1141	0.0	0	1319	-0.2	-6	1427	0.2	6
1826	4.2	128	1818	3.7	113	1945	3.9	119	2038	3.4	104
4 M 0056	-0.3	-9	19 Tu 0047	0.1	3	4 Th 0209	-0.1	-3	4 Su 0249	0.2	6
0646	3.0	91	0631	2.7	82	0806	3.1	94	0859	3.4	104
1243	-0.5	-15	1225	-0.1	-3	1406	-0.1	-3	1508	0.4	12
● 1917	4.2	128	○ 1858	3.8	116	2028	3.7	113	2115	3.2	98
5 Tu 0146	-0.4	-12	20 W 0126	0.0	0	5 F 0250	-0.1	-3	5 M 0323	0.4	12
0738	3.0	91	0714	2.8	85	0851	3.1	94	0938	3.3	101
1334	-0.4	-12	1309	-0.2	-6	1451	0.0	0	1550	0.5	15
2006	4.1	125	1939	3.8	116	2109	3.5	107	2152	3.0	91
6 W 0235	-0.3	-9	21 Th 0206	-0.1	-3	6 Sa 0330	0.0	0	6 Tu 0359	0.5	15
0829	3.0	91	0758	2.9	88	0935	3.1	94	1019	3.2	98
1425	-0.3	-9	1354	-0.2	-6	1536	0.2	6	1634	0.7	21
2053	3.9	119	2021	3.8	116	2150	3.3	101	2231	2.8	85
7 Th 0321	-0.3	-9	22 F 0246	-0.2	-6	7 Su 0408	0.1	3	7 W 0259	-0.3	-9
0920	2.9	88	0843	3.0	91	1019	3.0	91	0910	3.7	113
1515	-0.1	-3	1441	-0.2	-6	1622	0.4	12	1519	-0.2	-6
2139	3.6	110	2104	3.7	113	2230	3.0	91	2220	3.5	107
8 F 0407	-0.1	-3	23 Sa 0328	-0.2	-6	8 M 0447	0.3	9	8 Th 0434	-0.2	-6
1010	2.9	88	0931	3.1	94	1105	3.0	91	1058	3.7	113
1605	0.1	3	1531	-0.1	-3	1711	0.6	18	1715	0.2	6
2224	3.4	104	2149	3.6	110	2312	2.8	85	2315	3.2	98
9 Sa 0452	0.0	0	24 Su 0412	-0.2	-6	9 Tu 0527	0.4	12	24 W 0527	-0.1	-3
1101	2.8	85	1022	3.2	98	1153	2.9	88	1159	3.7	113
1657	0.3	9	1626	0.0	0	1804	0.8	24	1820	0.3	9
2310	3.1	94	2238	3.4	104	2357	2.6	79	● 1916	1.0	30
10 Su 0536	0.1	3	25 M 0459	-0.2	-6	10 W 0610	0.5	15	10 Th 0015	3.0	91
1153	2.8	85	1118	3.3	101	1246	2.9	88	0626	0.0	0
1752	0.5	15	1725	0.1	3	1903	0.9	27	1304	3.7	113
2357	2.8	85	2330	3.2	98	● 2004	0.9	27	1931	0.4	12
11 M 0620	0.2	6	26 Tu 0550	-0.2	-6	11 Th 0048	2.5	76	26 F 0122	2.9	88
1246	2.8	85	1217	3.4	104	0658	0.5	15	0730	0.1	3
1851	0.7	21	1830	0.3	9	1341	3.0	91	1411	3.7	113
●			●			2004	0.9	27	2041	0.4	12
12 Tu 0046	2.6	79	27 W 0028	3.0	91	12 F 0143	2.4	73	27 Sa 0231	2.8	85
0706	0.3	9	0645	-0.2	-6	0750	0.5	15	0836	0.1	3
1340	2.8	85	1320	3.5	107	1436	3.1	94	1516	3.7	113
1952	0.7	21	1940	0.3	9	2104	0.8	24	2145	0.4	12
13 W 0138	2.4	73	28 Th 0131	2.9	88	13 F 0241	2.4	73	28 Su 0336	2.9	88
0752	0.3	9	0744	-0.2	-6	0844	0.5	15	0939	0.1	3
1433	2.9	88	1425	3.6	110	1529	3.2	98	1616	3.8	116
2053	0.7	21	2050	0.3	9	2158	0.7	21	2242	0.3	9
14 Th 0232	2.3	70	29 F 0237	2.8	85	14 Su 0336	2.5	76	29 M 0436	3.0	91
0839	0.3	9	0845	-0.2	-6	0936	0.3	9	1038	0.0	0
1524	3.0	91	1528	3.8	116	1618	3.4	104	1709	3.8	116
2148	0.7	21	2156	0.2	6	2246	0.5	15	2333	0.2	6
15 F 0325	2.3	70	30 Sa 0342	2.8	85	15 M 0428	2.6	79	30 Tu 0528	3.1	94
0927	0.3	9	0946	-0.2	-6	1027	0.2	6	1131	0.0	0
1611	3.2	98	1627	3.9	119	1704	3.6	110	1757	3.9	119
2239	0.6	18	2256	0.1	3	2330	0.4	12	● 1856	3.5	107
31 Su 0443	2.8	85	31 W 0443	2.8	85	31 Su 0018	0.1	3	31 W 0616	3.3	101
1044	-0.3	-9	1722	4.0	122	1219	0.0	0	1219	3.8	116
1730	0.0	0	2350	0.0	0	1841	3.8	116			

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Cape Hatteras, North Carolina, 2016

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	0103	0.3	9	16 Su	0028	-0.3	-9	1 Tu	0133	0.3	9
	0714	3.6	110		0647	4.4	134		0757	3.7	113
	1327	0.3	9		1307	-0.3	-9		1421	0.4	12
	1932	3.4	104		1910	3.9	119		2014	2.9	88
2 Su	0136	0.3	9	17 M	0115	-0.4	-12	2 W	0206	0.4	12
	0750	3.7	113		0738	4.6	140		0832	3.7	113
	1405	0.3	9		1400	-0.3	-9		1459	0.5	15
	2007	3.3	101		2001	3.8	116		2050	2.8	85
3 M	0208	0.4	12	18 Tu	0203	-0.4	-12	3 Th	0242	0.5	15
	0825	3.6	110		0829	4.6	140		0909	3.6	110
	1443	0.4	12		1454	-0.2	-6		1538	0.5	15
	2042	3.1	94		2052	3.6	110		2128	2.7	82
4 Tu	0241	0.5	15	19 W	0254	-0.3	-9	4 F	0320	0.6	18
	0902	3.6	110		0923	4.5	137		0949	3.5	107
	1522	0.6	18		1550	-0.1	-3		1620	0.6	18
	2118	3.0	91		2147	3.4	104		2210	2.6	79
5 W	0316	0.6	18	20 Th	0348	-0.1	-3	5 Sa	0402	0.7	21
	0940	3.5	107		1020	4.3	131		1033	3.4	104
	1603	0.7	21		1650	0.1	3		1706	0.7	21
	2156	2.8	85		2247	3.2	98		2258	2.6	79
6 Th	0353	0.7	21	21 F	0447	0.1	3	6 Su	0451	0.7	21
	1021	3.4	104		1121	4.0	122		1122	3.3	101
	1648	0.8	24		1754	0.3	9		1756	0.7	21
	2239	2.7	82		2353	3.1	94		2353	2.6	79
7 F	0436	0.8	24	22 Sa	0553	0.3	9	7 M	0548	0.7	21
	1108	3.3	101		1226	3.8	116		1218	3.3	101
	1738	0.9	27		1900	0.4	12		1850	0.6	18
	2328	2.6	79	O	1946	0.5	15	O	2028	0.3	9
8 Sa	0525	0.9	27	23 Su	0103	3.0	91	8 Tu	0053	2.7	82
	1200	3.3	101		0704	0.5	15		0653	0.7	21
	1833	1.0	30		1334	3.6	110		1317	3.3	101
	O				2004	0.5	15		1946	0.5	15
9 Su	0024	2.6	79	24 M	0212	3.0	91	9 W	0155	2.9	88
	0622	0.9	27		0815	0.6	18		0800	0.6	18
	1259	3.3	101		1438	3.5	107		1417	3.3	101
	1932	0.9	27		2103	0.5	15		2039	0.3	9
10 M	0126	2.7	82	25 Tu	0314	3.1	94	10 Th	0255	3.3	101
	0725	0.8	24		0920	0.5	15		0905	0.4	12
	1359	3.3	101		1536	3.4	104		1516	3.4	104
	2029	0.8	24		2155	0.4	12		2131	0.1	3
11 Tu	0227	2.9	88	26 W	0407	3.3	101	11 F	0351	3.6	110
	0829	0.6	18		1016	0.5	15		1006	0.1	3
	1457	3.5	107		1626	3.3	101		1611	3.5	107
	2121	0.6	18		2239	0.4	12		2221	-0.2	-6
12 W	0324	3.1	94	27 Th	0454	3.4	104	12 Sa	0444	4.0	122
	0930	0.4	12		1106	0.4	12		1104	-0.1	-3
	1551	3.6	110		1711	3.3	101		1705	3.5	107
	2209	0.3	9		2318	0.3	9		2311	-0.4	-12
13 Th	0417	3.5	107	28 F	0535	3.6	110	13 Su	0536	4.3	131
	1027	0.2	6		1149	0.4	12		1159	-0.3	-9
	1643	3.8	116		1751	3.3	101		1757	3.6	110
	2256	0.1	3		2354	0.3	9				
14 F	0508	3.8	116	29 Sa	0612	3.6	110	14 M	0000	-0.5	-15
	1122	-0.1	-3		1229	0.3	9		0628	4.5	137
	1732	3.9	119		1828	3.2	98		1253	-0.4	-12
	2342	-0.1	-3						1849	3.6	110
15 Sa	0558	4.2	128	30 Su	0027	0.3	9	15 Tu	0050	-0.6	-18
	1214	-0.2	-6		0648	3.7	113		0719	4.6	140
	1821	3.9	119		1307	0.3	9		1346	-0.5	-15
	O				1903	3.1	94		1942	3.5	107
	31	0100	0.3	9	31 M	0722	3.7	113			
					1344	0.3	9				
					1938	3.0	91				

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Wilmington, North Carolina, 2016

Times and Heights of High and Low Waters

January				February				March						
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height			
h m	ft	cm		h m	ft	cm		h m	ft	cm				
1 F 0234	3.9	119		16 0212	4.4	134		1 0325	4.0	122				
0850	0.4	12	Sa	0905	0.1	3	M	0954	0.6	18	Tu	1055	0.2	6
1449	4.0	122		1441	4.4	134		1540	3.8	116		1626	4.3	131
2122	0.3	9	O	2128	-0.2	-6		2158	0.4	12		2306	0.0	0
2 Sa 0324	3.9	119		17 0316	4.5	137		2 0416	4.0	122		17 0502	4.6	140
0945	0.4	12	Su	1010	0.1	3	Tu	1053	0.6	18	W	1154	0.1	3
1538	3.9	119		1542	4.3	131		1632	3.8	116		1725	4.3	131
2210	0.2	6		2228	-0.2	-6		2257	0.3	9		2200	0.6	18
3 Su 0415	3.9	119		18 0419	4.5	137		3 W 0510	4.1	125		18 0005	-0.1	-3
1041	0.4	12	M	1114	0.1	3		1152	0.5	125		18 0602	4.7	143
1628	3.8	116		1642	4.3	131		1726	3.8	116		1250	0.1	3
2300	0.2	6		2328	-0.3	-9		2355	0.3	9		1822	4.4	134
4 M 0506	4.0	122		19 0521	4.6	140		4 Th 0603	4.2	128		19 0101	-0.1	-3
1137	0.4	12	Tu	1214	0.0	0		1247	0.4	12		19 0658	4.7	143
1719	3.8	116		1742	4.3	131		1819	3.9	119		1343	0.0	0
2349	0.1	3									1917	4.5	137	
5 Tu 0557	4.1	125		20 0026	-0.3	-9		5 F 0052	0.1	3		5 0045	4.2	128
1230	0.3	9		0621	4.7	143		0656	4.4	134		19 0537	4.7	143
1810	3.8	116		1311	-0.1	-3		1340	0.3	9		1211	0.6	18
				1840	4.3	131		1910	4.1	125		1737	4.1	125
6 W 0038	0.0	0		21 0121	-0.4	-12		6 Sa 0146	0.0	0		6 0120	0.2	6
0647	4.3	131		0717	4.8	146		0745	4.6	140		0836	4.8	146
1322	0.2	6		1406	-0.2	-6		1431	0.1	3		1520	-0.1	-3
1859	3.9	119		1935	4.4	134		1957	4.3	131		2055	4.7	143
7 Th 0127	0.0	0		22 0214	-0.4	-12		7 Su 0239	-0.1	-3		21 0244	-0.2	-6
0734	4.4	134		0810	4.9	149		0831	4.8	146		21 0836	4.8	146
1412	0.1	3		1457	-0.2	-6		1520	0.0	0		1433	-0.1	-3
1944	4.0	122		2026	4.4	134		2042	4.5	137		2007	4.6	140
8 F 0215	-0.1	-3		23 0305	-0.4	-12		8 M 0331	-0.3	-9		23 0416	-0.1	-3
0817	4.6	140		0858	4.9	149		0915	5.0	152		23 1002	4.7	143
1500	0.0	0		1546	-0.2	-6		1608	-0.1	-3		1645	0.1	3
2026	4.1	125	O	2115	4.5	137		● 2127	4.6	140		2222	4.6	140
9 Sa 0303	-0.2	-6		24 0353	-0.4	-12		9 Tu 0421	-0.3	-9		8 0312	-0.2	-6
0857	4.7	143		0943	4.8	146		0959	5.0	152		23 0915	5.1	155
1547	0.0	0		1632	-0.2	-6		1654	-0.2	-6		1541	-0.1	-3
2105	4.2	128		2202	4.4	134		2212	4.8	146		● 2109	5.1	155
10 Su 0350	-0.3	-9		25 0439	-0.3	-9		10 W 0512	-0.4	-12		24 0458	0.0	0
0935	4.8	146		1027	4.7	143		1045	5.0	152		24 1042	4.6	140
1633	-0.1	-3		1715	-0.1	-3		1740	-0.2	-6		1723	0.2	6
2143	4.3	131		2247	4.4	134		2302	4.8	146		2304	4.6	140
11 M 0436	-0.3	-9		26 0522	-0.1	-3		11 Th 0602	-0.3	-9		9 0405	-0.3	-9
1013	4.8	146		1110	4.6	140		1136	4.9	149		24 0940	5.2	158
1717	-0.1	-3		1756	0.0	0		1827	-0.2	-6		1630	-0.2	-6
2223	4.3	131		2333	4.3	131		2357	4.8	146		2158	5.3	162
12 Tu 0524	-0.3	-9		27 0603	0.0	0		12 F 0655	-0.2	-6		25 0537	0.1	3
1055	4.8	146		1152	4.4	134		1230	4.8	146		10 1121	4.5	137
1802	-0.2	-6		1834	0.1	3		1916	-0.2	-6		1757	0.3	9
2308	4.4	134									2344	4.5	137	
13 W 0613	-0.3	-9		28 0018	4.2	128		13 Sa 0602	-0.3	-9		10 1029	5.1	155
1143	4.8	146		0643	0.2	6		0751	-0.1	-3		1717	-0.2	-6
1849	-0.2	-6		1235	4.3	131		1328	4.6	140		2249	5.3	162
				1910	0.2	6		2008	-0.1	-3		2334	5.3	162
14 Th 0003	4.4	134		29 0104	4.1	125		14 Su 0159	4.8	146		11 0549	-0.3	-9
0705	-0.2	-6		0723	0.3	9		0850	0.1	3		26 1121	5.0	152
1239	4.7	143		1319	4.1	125		1428	4.5	137		1805	-0.2	-6
1938	-0.2	-6		1945	0.3	9		2105	0.0	0		2344	5.3	162
15 F 0106	4.4	134		30 0150	4.0	122		15 M 0300	4.7	143		12 0642	-0.2	-6
0803	0.0	0		0806	0.4	12		0953	0.2	6		27 1216	4.9	149
1340	4.5	137		1404	4.0	122		1527	4.4	134		1854	-0.1	-3
2031	-0.2	-6		2022	0.4	12		● 2206	0.0	0		2352	4.6	140
				31 0237	4.0	122						31 0702	0.5	15
				0856	0.5	15						M 1217	4.1	125
				1450	3.8	116						1844	0.5	15
				● 2105	0.4	12						31 0153	4.5	137

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Wilmington, North Carolina, 2016

Times and Heights of High and Low Waters

April				May				June			
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height
1 F 0259 4.5 137		16 Sa 0508 4.5 137		1 Su 0341 4.6 140		16 M 0525 4.3 131		1 W 0017 0.2 6		16 Th 0050 0.2 6	
1034 0.7 21		1155 0.1 3		1103 0.3 9		1209 0.0 0		537 4.4 134		0628 3.9 119	
1549 4.2 128		1738 4.6 140		1630 4.4 134		1801 4.5 137		1232 -0.3 -9		1259 -0.1 -3	
2238 0.6 18				2329 0.5 15				1818 5.0 152		1905 4.5 137	
2 Sa 0416 4.5 137		17 Su 0012 0.3 9		2 M 0455 4.6 140		17 Tu 0034 0.3 9		2 Th 0118 0.0 0		17 F 0140 0.2 6	
1136 0.6 18		0601 4.5 137		1202 0.2 6		0615 4.2 128		0639 4.5 137		0716 3.9 119	
1658 4.3 131		1245 0.1 3		1736 4.7 143		1255 0.0 0		1328 -0.4 -12		1343 -0.1 -3	
2351 0.5 15		1831 4.7 143				1851 4.7 143		1917 5.2 158		1951 4.6 140	
3 Su 0530 4.6 140		18 M 0105 0.3 9		3 Tu 0035 0.3 9		18 W 0124 0.2 6		3 F 0217 -0.2 -6		18 Sa 0228 0.1 3	
1234 0.4 12		0651 4.5 137		0602 4.7 143		0704 4.2 128		0738 4.5 137		0802 3.9 119	
1803 4.6 140		1332 0.1 3		1259 0.0 0		1339 0.0 0		1423 -0.5 -15		1427 0.0 0	
		1920 4.8 146		1838 5.0 152		1938 4.8 146		2013 5.3 162		2034 4.7 143	
4 M 0056 0.3 9		19 Tu 0154 0.2 6		4 W 0137 0.1 3		19 Th 0212 0.2 6		4 Sa 0313 -0.3 -9		19 Su 0314 0.1 3	
0634 4.8 146		0738 4.5 137		0703 4.7 143		0750 4.2 128		0834 4.5 137		0844 3.9 119	
1329 0.2 6		1416 0.1 3		1354 -0.2 -6		1422 0.0 0		1517 -0.5 -15		1510 0.0 0	
1902 4.9 149		2007 4.9 149		1936 5.3 162		2022 4.8 146		2106 5.4 165		2113 4.7 143	
5 Tu 0156 0.1 3		20 W 0241 0.2 6		5 Th 0235 -0.1 -3		20 F 0258 0.1 3		5 Su 0406 -0.4 -12		20 M 0358 0.0 0	
0732 4.9 149		0823 4.5 137		0800 4.8 146		0834 4.1 125		0928 4.5 137		0923 3.9 119	
1422 0.0 0		1458 0.1 3		1447 -0.3 -9		1502 0.1 3		1609 -0.4 -12		1552 0.0 0	
1957 5.2 158		2050 5.0 152		2030 5.5 168		2103 4.8 146		2158 5.3 162		2147 4.7 143	
6 W 0254 -0.1 -3		21 Th 0326 0.1 3		6 F 0331 -0.2 -6		21 Sa 0342 0.1 3		6 M 0458 -0.4 -12		21 Tu 0441 0.0 0	
0825 5.0 152		0905 4.5 137		0855 4.8 146		0915 4.1 125		1022 4.4 134		0957 3.8 116	
1514 -0.1 -3		1538 0.2 6		1540 -0.3 -9		1541 0.1 3		1700 -0.4 -12		1633 0.0 0	
2049 5.4 165		2130 5.0 152		● 2123 5.6 171		○ 2140 4.8 146		2250 5.2 158		2214 4.7 143	
7 Th 0349 -0.2 -6		22 F 0408 0.2 6		7 Sa 0425 -0.3 -9		22 Tu 0424 0.1 3		7 W 0548 -0.4 -12		22 M 0522 0.0 0	
0917 5.1 155		0945 4.4 134		0948 4.8 146		0952 4.0 122		1118 4.3 131		1027 3.9 119	
1604 -0.2 -6		1615 0.3 9		1631 -0.3 -9		1618 0.2 6		1750 -0.2 -6		1714 0.0 0	
● 2141 5.6 171		○ 2207 4.9 149		2216 5.6 171		2212 4.7 143		2343 5.0 152		2239 4.7 143	
8 F 0442 -0.3 -9		23 Sa 0449 0.2 6		8 Su 0517 -0.3 -9		23 M 0505 0.2 6		8 W 0636 -0.3 -9		23 Th 0603 0.0 0	
1009 5.0 152		1021 4.3 131		1043 4.7 143		1025 3.9 119		1214 4.2 128		1058 3.9 119	
1653 -0.2 -6		1648 0.4 12		1721 -0.3 -9		1654 0.2 6		1839 0.0 0		1757 0.1 3	
2233 5.6 171		2240 4.8 146		2310 5.4 165		2234 4.7 143				2313 4.7 143	
9 Sa 0534 -0.3 -9		24 Tu 0527 0.3 9		9 M 0608 -0.3 -9		24 Tu 0544 0.2 6		9 Th 0036 4.8 146		24 F 0645 -0.1 -3	
1102 4.9 149		1053 4.1 125		1139 4.6 140		1048 3.9 119		0725 -0.2 -6		1142 4.0 122	
1743 -0.2 -6		1719 0.4 12		1811 -0.1 -3		1729 0.3 9		1309 4.2 128		1844 0.1 3	
2327 5.5 168		2301 4.7 143				2248 4.7 143		1929 0.1 3			
10 Su 0626 -0.2 -6		25 M 0604 0.4 12		10 Tu 0005 5.2 158		25 W 0623 0.2 6		10 F 0127 4.6 140		25 Sa 0000 4.7 143	
1159 4.8 146		1117 4.1 125		0659 -0.2 -6		1113 3.9 119		0813 -0.1 -3		0730 -0.1 -3	
-0.1 -3		1748 0.5 15		1237 4.4 134		1806 0.3 9		1403 4.1 125		1239 4.1 125	
1833 0.1 -3		2310 4.7 143		1903 0.0 0		2322 4.7 143		2021 0.3 9		1938 0.2 6	
11 M 0025 5.3 162		26 Tu 0642 0.4 12		11 W 0102 5.0 152		26 Th 0704 0.2 6		11 Sa 0218 4.4 134		26 Su 0058 4.6 140	
0719 -0.1 -3		1138 4.0 122		0751 -0.1 -3		1154 4.0 122		0902 -0.1 -3		0819 -0.1 -3	
1257 4.6 140		1820 0.5 15		1334 4.3 131		1849 0.3 9		1455 4.1 125		1345 4.2 128	
1925 0.1 3		2342 4.7 143		1956 0.2 6				2116 0.4 12		2040 0.2 6	
12 Tu 0123 5.1 155		27 W 0721 0.5 15		12 Th 0157 4.8 146		27 F 0009 4.7 143		12 Su 0307 4.2 128		27 M 0203 4.5 137	
0814 0.1 3		1216 4.0 122		0844 0.0 0		0748 0.2 6		0951 0.0 0		0913 -0.2 -6	
1355 4.5 137		1859 0.5 15		1430 4.3 131		1249 4.0 122		1546 4.2 128		1452 4.3 131	
2020 0.3 9				2052 0.4 12		1941 0.4 12		○ 2211 0.4 12		○ 2148 0.3 9	
13 W 0221 4.9 149		28 Th 0027 4.7 143		13 F 0250 4.6 140		28 Sa 0105 4.6 140		13 M 0357 4.1 125		28 Tu 0309 4.4 134	
0910 0.2 6		0806 0.5 15		0937 0.1 3		0839 0.1 3		1040 0.0 0		1011 -0.3 -9	
1452 4.5 137		1308 4.1 125		1524 4.3 131		1354 4.1 125		1637 4.2 128		1557 4.5 137	
● 2119 0.4 12		1950 0.5 15		○ 2149 0.4 12		2046 0.4 12		2306 0.4 12		2256 0.2 6	
14 Th 0318 4.8 146		29 F 0123 4.6 140		14 Sa 0342 4.4 134		29 Su 0210 4.6 140		14 Tu 0447 4.0 122		29 W 0414 4.3 131	
1007 0.2 6		0901 0.5 15		1030 0.1 3		0936 0.1 3		1127 -0.1 -3		1111 -0.3 -9	
1548 4.4 134		1410 4.1 125		1617 4.3 131		1503 4.3 131		1727 4.3 131		1700 4.7 143	
2219 0.4 12		○ 2056 0.6 18		2247 0.4 12		○ 2200 0.4 12		2359 0.3 9			
15 F 0413 4.6 140		30 Sa 0227 4.6 140		15 Su 0434 4.3 131		30 M 0321 4.5 137		15 W 0537 3.9 119		30 Th 0000 0.1 3	
1102 0.2 6		1002 0.4 12		1120 0.0 0		1035 0.0 0		1214 -0.1 -3		0518 4.3 131	
1644 4.5 137		1520 4.2 128		1710 4.4 134		1611 4.5 137		1817 4.4 134		1209 -0.4 -12	
2317 0.4 12		2215 0.6 18		2342 0.4 12		2311 0.3 9		31 Tu 0431 4.4 134		1801 4.9 149	
								1134 -0.2 -6			
								1716 4.7 143			

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Wilmington, North Carolina, 2016

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 0100 0.0 0 0620 4.2 128 1307 -0.5 -15 1901 5.0 152	16 Sa 0105 0.3 9 0640 3.8 116 1305 0.0 0 1918 4.5 137	1 M 0233 -0.2 -6 0759 4.4 134 1438 -0.4 -12 2032 5.1 155	16 Tu 0211 0.3 9 0739 4.1 125 1414 0.0 0 2012 4.8 146	1 Th 0344 -0.1 -3 0919 4.7 143 1556 0.0 0 2139 4.9 149	16 O 0315 0.0 0 0842 4.9 149 1537 -0.1 -3 2109 5.2 158						
	2 Sa 0158 -0.2 -6 0719 4.3 131 1403 -0.5 -15 1957 5.1 155	17 Su 0155 0.2 6 0728 3.8 116 1353 0.0 0 2002 4.6 140	2 Tu 0324 -0.2 -6 0851 4.4 134 1529 -0.3 -9 2120 5.0 152	17 W 0259 0.1 3 0824 4.3 131 1505 0.0 0 2053 5.0 152	2 F 0427 0.0 0 1004 4.7 143 1640 0.1 3 2221 4.8 146	17 Sa 0403 -0.1 -3 0929 5.1 155 1629 -0.1 -3 2155 5.2 158					
	3 Su 0254 -0.3 -9 0815 4.3 131 1457 -0.5 -15 2049 5.2 158	18 M 0243 0.1 3 0812 3.9 119 1441 -0.1 -3 2043 4.7 143	3 W 0412 -0.3 -9 0941 4.4 134 1618 -0.2 -6 2205 4.9 149	18 Th 0346 0.0 0 0906 4.4 134 1555 -0.1 -3 2133 5.0 152	3 Sa 0508 0.1 3 1048 4.6 140 1723 0.2 6 2301 4.6 140	18 Su 0450 -0.2 -6 1017 5.2 158 1721 -0.1 -3 2244 5.1 155					
	4 M 0346 -0.4 -12 0909 4.3 131 1549 -0.5 -15 ● 2140 5.1 155	19 Tu 0330 0.1 3 0854 3.9 119 1528 -0.1 -3 2121 4.8 146	4 Th 0457 -0.2 -6 1029 4.4 134 1704 -0.1 -3 2250 4.8 146	19 F 0431 -0.1 -3 0948 4.6 140 1645 -0.1 -3 2215 5.0 152	4 Su 0545 0.2 6 1131 4.5 137 1803 0.4 12 2342 4.4 134	19 M 0537 -0.2 -6 1110 5.2 158 1814 0.0 0 2337 4.9 149					
5 Tu 0436 -0.4 -12 1002 4.3 131 1639 -0.4 -12 2229 5.0 152	20 W 0414 0.0 0 0931 4.0 122 1614 -0.1 -3 2155 4.8 146	5 F 0540 -0.1 -3 1118 4.3 131 1749 0.1 3 2334 4.6 140	20 Sa 0516 -0.2 -6 1033 4.7 143 1735 -0.1 -3 2259 5.0 152	5 M 0620 0.3 9 1214 4.4 134 1843 0.5 15	20 Tu 0626 -0.2 -6 1209 5.2 158 1908 0.1 3						
	6 W 0524 -0.4 -12 1054 4.2 128 1728 -0.2 -6 2318 4.8 146	21 Th 0458 -0.1 -3 1008 4.1 125 1700 -0.1 -3 2230 4.8 146	6 Sa 0621 0.0 0 1206 4.3 131 1832 0.2 6	21 Su 0601 -0.2 -6 1124 4.8 146 1827 0.0 0 2351 4.8 146	6 Tu 0023 4.3 131 0651 0.4 12 1258 4.3 131 1923 0.7 21	21 W 0036 4.7 143 0717 -0.1 -3 1312 5.1 155 2005 0.3 9					
	7 Th 0610 -0.3 -9 1147 4.2 128 1814 0.0 0	22 F 0541 -0.1 -3 1047 4.2 128 1748 -0.1 -3 2309 4.8 146	7 Su 0018 4.4 134 0700 0.1 3 1254 4.2 128 1915 0.4 12	22 M 0648 -0.2 -6 1223 4.8 146 1921 0.1 3	7 W 0105 4.1 125 0722 0.5 15 1342 4.2 128 2008 0.8 24	22 Th 0138 4.6 140 0813 0.0 0 1415 5.0 152 2105 0.4 12					
	8 F 0006 4.6 140 0655 -0.2 -6 1239 4.1 125 1901 0.1 3	23 Sa 0624 -0.2 -6 1135 4.3 131 1837 0.0 0 2358 4.7 143	8 M 0103 4.2 128 0738 0.2 6 1342 4.1 125 2000 0.5 15	23 Tu 0049 4.7 143 0738 -0.2 -6 1326 4.8 146 2020 0.2 6	8 Th 0150 4.0 122 0756 0.5 15 1429 4.2 128 2059 0.8 24	23 F 0239 4.5 137 0913 0.1 3 1516 4.9 149 ● 2205 0.4 12					
9 Sa 0054 4.4 134 0738 -0.1 -3 1331 4.1 125 1948 0.3 9	24 Su 0709 -0.2 -6 1233 4.4 134 1932 0.1 3	9 Tu 0150 4.1 125 0816 0.3 9 1430 4.1 125 2049 0.6 18	24 W 0150 4.5 137 0832 -0.1 -3 1430 4.8 146 ● 2122 0.3 9	9 O 0238 3.9 119 0842 0.5 15 1518 4.2 128 ● 2156 0.9 27	24 Sa 0339 4.4 134 1014 0.2 6 1616 4.9 149 2305 0.3 9						
	10 Su 0142 4.2 128 0822 0.0 0 1421 4.0 122 2038 0.4 12	25 M 0056 4.6 140 0758 -0.2 -6 1337 4.4 134 2032 0.2 6	10 W 0237 3.9 119 0857 0.3 9 1518 4.1 125 ● 2143 0.7 21	25 Th 0251 4.4 134 0932 -0.1 -3 1532 4.8 146 2225 0.3 9	10 Sa 0330 3.9 119 0943 0.5 15 1610 4.3 131 2255 0.8 24	25 Su 0438 4.4 134 1115 0.1 3 1713 4.9 149					
	11 M 0230 4.1 125 0907 0.0 0 1510 4.1 125 ● 2132 0.5 15	26 Tu 0158 4.5 137 0852 -0.2 -6 1442 4.5 137 ● 2136 0.3 9	11 Th 0326 3.8 116 0945 0.3 9 1608 4.1 125 2240 0.7 21	26 F 0352 4.4 134 1033 -0.1 -3 1632 4.8 146 2325 0.3 9	11 Su 0425 3.9 119 1050 0.5 15 1705 4.4 134 2352 0.7 21	26 M 0001 0.2 6 0536 4.5 137 1212 0.1 3 1808 4.9 149					
	12 Tu 0318 3.9 119 0953 0.1 3 1600 4.1 125 2227 0.5 15	27 W 0301 4.4 134 0950 -0.3 -9 1544 4.6 140 2241 0.2 6	12 F 0417 3.8 116 1038 0.3 9 1659 4.2 128 2335 0.6 18	27 Sa 0452 4.3 131 1133 -0.1 -3 1732 4.9 149	12 M 0521 4.0 122 1153 0.4 12 1759 4.6 140	27 Tu 0053 0.1 3 0630 4.6 140 1306 0.0 0 1859 4.9 149					
13 W 0408 3.8 116 1040 0.1 3 1650 4.2 128 2321 0.4 12	28 Th 0403 4.3 131 1051 -0.3 -9 1646 4.7 143 2343 0.2 6	13 Sa 0509 3.8 116 1133 0.2 6 1750 4.3 131	28 Su 0023 0.1 3 0551 4.4 134 1231 -0.1 -3 1829 4.9 149	13 Tu 0045 0.5 15 0615 4.2 128 1252 0.3 9 1850 4.8 146	28 W 0143 0.0 0 0722 4.8 146 1357 0.0 0 1946 4.9 149						
	14 Th 0458 3.8 116 1128 0.0 0 1740 4.2 128	29 F 0504 4.2 128 1150 -0.3 -9 1747 4.8 146	14 Su 0029 0.5 15 0602 3.8 116 1228 0.2 6 1840 4.5 137	29 M 0118 0.0 0 0648 4.5 137 1326 -0.2 -6 1922 5.0 152	14 W 0137 0.3 9 0707 4.4 134 1349 0.1 3 1938 5.0 152	29 Th 0230 0.0 0 0810 4.9 149 1446 0.0 0 2030 4.9 149					
	15 F 0014 0.4 12 0549 3.7 113 1217 0.0 0 1830 4.4 134	30 Sa 0043 0.0 0 0605 4.2 128 1248 -0.4 -12 1846 4.9 149	15 M 0121 0.4 12 0652 4.0 122 1321 0.1 3 1928 4.7 143	30 Tu 0209 -0.1 -3 0742 4.6 140 1419 -0.2 -6 2011 5.0 152	15 Th 0227 0.2 6 0755 4.7 143 1443 0.0 0 2024 5.1 155	30 F 0314 0.0 0 0855 4.9 149 1532 0.1 3 ● 2112 4.8 146					
	31 Su 0139 -0.1 -3 0703 4.3 131 1344 -0.4 -12 1941 5.0 152		31 W 0258 -0.1 -3 0832 4.7 143 1508 -0.1 -3 2056 5.0 152								

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Wilmington, North Carolina, 2016

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 0355 0938 1615 2152	0.1	3	16 Su 0336 0910 1612 2135	-0.2	-6	1 Tu 0436 1028 1711 2237	0.2	6	16 W 0454 1039 1741 2304	-0.5	-15	1 Th 0442 1033 1725 2238	0.1	3	16 F 0526 1118 1811 2342	-0.5	-15
	4.9	149					1028	4.7	143		4.5	137		1118	5.0	152	
	0.2	6					1711	0.3	9		0.2	-6		1811	-0.3	-9	
	4.7	143					2237	4.2	128		4.6	140		2342	4.4	134	
2 Su 0434 1019 1657 2231	0.2	6	17 M 0425 1001 1705 2226	-0.3	-9	2 W 0508 1100 1749 2306	0.3	9	17 Th 0545 1136 1833	-0.4	-12	2 F 0515 1051 1803 2254	0.1	3	17 Sa 0617 1212 1900	-0.3	-9
	4.8	146					1100	4.6	140		4.5	137		1212	4.8	146	
	0.3	9					1749	0.5	15		0.3	9		1900	-0.2	-6	
	4.6	140					2306	4.1	125								
3 M 0509 1058 1736 2308	0.3	9	18 Tu 0515 1055 1758 2321	-0.3	-9	3 Th 0537 1118 1826 2324	0.4	12	18 F 0003 0637 1235 1925	4.5	137	3 Sa 0549 1108 1841 2325	0.2	6	18 Su 0039 0708 1306 1950	4.3	131
	4.7	143					1118	4.5	137		4.5	137		0708	-0.2	-6	
	0.4	12					1826	0.5	15		0.3	9		1306	4.6	140	
	4.4	134					2324	4.0	122		0.0	0		1950	-0.1	-3	
4 Tu 0541 1134 1814 2342	0.4	12	19 W 0605 1153 1852	-0.2	-6	4 F 0607 1133 1904 2353	0.4	12	19 Sa 0103 0731 1334 2019	4.4	134	4 Su 0627 1147 1922	0.2	6	19 M 0135 0800 1359 2041	4.2	128
	4.6	140					1133	4.5	137		0.0	0		0800	0.0	0	
	0.6	18					1904	0.6	146		4.8	146		1359	4.4	134	
	4.2	128					2353	3.9	119		0.1	3		2041	0.0	0	
5 W 0609 1207 1852	0.5	15	20 Th 0021 0657 1255	4.7	143	5 Sa 0642 1211 1946	0.4	12	20 Su 0202 0828 1430 2114	4.3	131	5 M 0010 0713 1238 2008	3.9	119	20 Tu 0230 0855 1450 2132	4.1	125
	4.5	137					1211	4.4	134		0.1	3		0855	0.2	6	
	0.7	21					1946	0.6	18		4.6	140		1450	4.3	131	
										0.1	3		2132	0.0	0		
6 Th 0013 0637 1233 1932	4.1	125	21 F 0123 0753 1357	4.5	137	6 Su 0039 0727 1304	3.9	119	21 M 0259 0926 1524	4.3	131	6 Tu 0107 0810 1339	4.0	122	21 W 0323 0952 1540	4.1	125
	0.5	15					0727	0.5	15		0.2	6		0952	0.3	9	
	4.4	134					1304	4.4	134		4.5	137		1540	4.1	125	
	0.8	24								0.1	3		2223	0.0	0		
7 F 0044 0710 1303 2018	4.0	122	22 Sa 0223 0852 1456 2142	4.4	134	7 M 0137 0826 1408 2136	3.9	119	22 Tu 0354 1025 1616 2301	4.3	131	7 W 0214 0921 1448 2202	4.1	125	22 Th 0416 1048 1631 2313	4.1	125
	0.6	18					0826	0.5	15		0.2	6		1048	0.3	9	
	4.3	131					1408	4.4	134		4.4	134		1631	4.1	125	
	0.8	24					2136	0.6	18		0.0	0		2313	0.0	0	
8 Sa 0129 0756 1357 2114	3.9	119	23 Su 0322 0953 1553 2239	4.4	134	8 Tu 0246 0941 1520 2236	4.0	122	23 W 0448 1121 1707 2351	4.3	131	8 Th 0327 1035 1559 2303	4.2	128	23 F 0508 1142 1722 1813	4.2	128
	0.6	18					0941	0.5	15		0.2	6		1142	0.2	6	
	4.3	131					1520	4.4	134		4.3	131		1722	4.0	122	
	0.9	27					2236	0.4	12		-0.1	-3		1813	4.0	122	
9 Su 0228 0856 1505 2214	3.9	119	24 M 0419 1052 1648 2334	4.4	134	9 W 0358 1056 1631 2335	4.2	128	24 Th 0541 1214 1758	4.4	134	9 F 0437 1143 1706	4.4	134	24 Sa 0001 0559 1233 1813	-0.1	-3
	0.6	18					1056	0.4	12		0.1	3		0559	4.3	131	
	4.4	134					1631	4.5	137		4.4	134		1233	0.2	6	
	0.8	24					2335	0.2	6		4.3	131		1813	4.0	122	
10 M 0334 1011 1611 2314	4.0	122	25 Tu 0515 1149 1740	4.5	137	10 Th 0505 1203 1735	4.4	134	25 F 0039 0631 1305 1846	-0.1	-3	10 Sa 0002 0543 1246 1809	-0.2	-6	25 Su 0047 0649 1323 1902	-0.1	-3
	0.6	18					1203	0.3	9		4.5	137		0649	4.4	134	
	4.5	137					1735	4.6	140		0.1	3		1323	0.1	3	
	0.7	21								4.3	131		1902	4.0	122		
11 Tu 0438 1122 1713	4.1	125	26 W 0025 0608 1242 1830	0.0	0	11 F 0124 0607 1305 1834	0.0	0	26 Sa 0124 0607 1305 1933	-0.1	-3	11 Su 0059 0645 1346 1908	-0.4	-12	26 M 0133 0736 1410 1948	-0.1	-3
	0.5	15					0607	4.7	143		4.7	143		0645	4.9	149	
	4.6	140					1305	0.1	3		0.1	3		1346	-0.1	-3	
	4.6	140					1834	4.7	143		4.3	131		1908	4.5	137	
12 W 0010 0538 1226 1811	0.5	15	27 Th 0113 0659 1333	-0.1	-3	12 Sa 0125 0705 1404	-0.2	-6	27 Su 0208 0805 1440	-0.1	-3	12 M 0155 0743 1443	-0.5	-15	27 Tu 0217 0821 1456	-0.1	-3
	4.4	134					0705	5.0	152		4.7	143		0821	4.5	137	
	0.3	9					1404	-0.1	0		0.0	0		1456	0.0	0	
	4.8	146						1930	4.8	146		4.3	131		2032	4.0	122
13 Th 0103 0635 1326 1905	0.3	9	28 F 0158 0746 1421 2002	-0.1	-3	13 Su 0219 0800 1500 2023	-0.3	-9	28 M 0249 0847 1524 2058	-0.1	-3	13 Tu 0250 0838 1537 2058	-0.6	-18	28 W 0259 0902 1540 2112	-0.1	-3
	4.7	143					0800	5.3	162		4.7	143		0902	4.6	140	
	0.2	6					1500	-0.2	-6		0.1	3		1540	0.0	0	
	4.9	149					2023	4.9	149		4.2	128		2112	4.0	122	
14 F 0155 0729 1423 1956	0.1	3	29 Sa 0241 0831 1507	-0.1	-3	14 M 0311 0853 1555	-0.4	-12	29 Tu 0329 0927 1606	0.0	0	14 W 0344 0931 1630	-0.6	-18	29 Th 0340 0939 1622	-0.1	-3
	5.0	152					0831	4.9	149		4.7	143		0939	4.6	140	
	0.0	0					1507	0.1	3		0.1	3		1622	0.1	3	
	5.1	155					2044	4.6	140		4.9	149		2147	4.0	122	
15 Sa 0246 0820 1518 2045	-0.1	-3	30 Su 0322 0913 1550 2125	0.0	0	15 Tu 0403 0945 1648 2209	-0.5	-15	30 W 0406 1003 1647 2209	0.0	0	15 Th 0436 1024 1647 2211	-0.6	-18	30 F 0420 1012 1702 2216	-0.1	-3
	5.2	158					0913	4.9	149		5.5	168		1012	4.5	137	
	0.2	-3					1550	0.2	6		4.8	146		1702	0.1	3	
	5.1	155					2125	4.5	137		4.8	146		2216	4.0	122	
							31 M 0400 0952 1632	0.1	3					31 Sa 0459 1036 1740	-0.1	-3	
							0952	4.8	146					1036	4.5	137	
							1632	0.2	6					1740	0.1	3	
							2203	4.4	134					2237	4.0	122	

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Myrtle Beach (Springmaid Pier), South Carolina, 2016

Times and Heights of High and Low Waters

January				February				March												
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height									
h m	ft	cm		h m	ft	cm		h m	ft	cm										
1 F	0023	4.3	131	16	0612	-0.1	-3	1	0110	4.2	128	16	0021	4.4	134	16	0124	5.3	162	
0606	0.7	21		Sa	1228	5.0	152	M	0709	0.8	24	Tu	0822	0.2	6	W	0803	0.3	9	
1225	4.4	134		Sa	1835	-0.5	-15		1314	3.9	119		1415	4.6	140		1401	4.6	140	
1838	0.6	18	●						1925	0.6	18		2025	-0.2	-6	○	1834	0.7	21	
2 Sa	0112	4.3	131	17	0059	5.1	155	2	0200	4.3	131	17	0245	5.2	158	2	0113	4.5	137	
0701	0.8	24		Su	0722	0.1	3	Tu	0812	0.8	24	W	0932	0.2	6	W	0724	0.8	24	
1313	4.2	128		Su	1329	4.9	149		1405	3.8	116		1517	4.5	137	Th	1323	3.9	119	
1929	0.6	18	●		1938	-0.4	-12			2025	0.5	15		2131	-0.2	-6		1935	0.7	21
3 Su	0200	4.3	131	18	0200	5.2	158	3	0251	4.5	137	18	0347	5.2	158	3	0207	4.6	140	
0802	0.9	27		M	0836	0.1	3	W	0913	0.7	21	Th	1033	0.1	3	Th	0828	0.7	21	
1401	4.1	125		M	1429	4.7	143		1458	3.9	119		1618	4.6	140	F	1013	0.3	9	
2024	0.6	18		M	2043	-0.4	-12		2123	0.3	9		2231	-0.3	-9		1601	4.7	143	
4 M	0248	4.5	137	19	0302	5.3	162	4	0344	4.7	143	19	0446	5.2	158	4	0303	4.8	146	
0901	0.8	24		Tu	0945	0.0	0	Th	1008	0.4	12	F	1125	-0.1	-3	F	0929	0.5	15	
1451	4.1	125		Tu	1531	4.7	143		1552	4.1	125		1715	4.7	143		1516	4.3	131	
2116	0.4	12		Tu	2145	-0.5	-15		2217	0.0	0		2323	-0.5	-15		2144	0.2	6	
5 Tu	0337	4.7	143	20	0403	5.5	168	5	0436	5.0	152	20	0539	5.3	162	5	0359	5.1	155	
0956	0.6	18		W	1046	-0.2	-6	W	1059	0.1	3	Sa	1211	-0.2	-6	Sa	1024	0.2	6	
1541	4.1	125		W	1631	4.7	143		1645	4.3	131		1805	4.9	149		1614	4.6	140	
2205	0.2	6		W	2243	-0.7	-21		2308	-0.3	-9						2241	-0.2	-6	
6 W	0425	4.9	149	21	0501	5.6	171	6	0525	5.4	165	21	0011	-0.5	-15	6	0453	5.5	168	
1045	0.4	12		Th	1140	-0.3	-9	Th	1147	-0.2	-6	Su	0625	5.4	165	Th	0600	5.1	155	
1630	4.2	128		Th	1728	4.8	146		1735	4.7	143		1252	-0.3	-9	M	1223	0.0	0	
2251	0.0	0		Th	2336	-0.8	-24		2357	-0.6	-18		1849	5.0	152	Th	1826	5.2	158	
7 Th	0511	5.2	158	22	0554	5.7	174	7	0612	5.7	174	22	0054	-0.6	-18	7	0544	5.8	177	
1132	0.1	3		F	1229	-0.4	-12	F	1233	-0.6	-18	M	0705	5.4	165	F	0639	5.2	158	
1718	4.4	134		F	1820	4.9	149		1823	5.0	152		1330	-0.3	-9		1259	0.0	0	
2336	-0.2	-6							○	1929	5.1	155					1904	5.3	162	
8 F	0555	5.5	168	23	0025	-0.8	-24	8	0045	-0.9	-27	23	0135	-0.5	-15	8	0025	-0.9	-27	
1216	-0.1	-3		Sa	0642	5.8	177	8	0657	6.0	183	23	0742	5.3	162	8	0633	6.1	186	
1803	4.6	140		Sa	1314	-0.5	-15	M	1318	-0.8	-24	Tu	1406	-0.3	-9	W	1333	0.0	0	
○	1907	5.0	152	○	1910	5.0	152	●	1910	5.3	162		2008	5.0	152	○	1940	5.3	162	
9 Sa	0020	-0.5	-15	24	0112	-0.8	-24	9	0133	-1.0	-30	24	0214	-0.4	-12	9	0116	-1.1	-34	
0637	5.7	174		Su	0726	5.7	174	9	0742	6.1	186	24	0818	5.2	158	9	0721	6.2	189	
1300	-0.3	-9		Su	1356	-0.5	-15	Tu	1404	-1.0	-30		1440	-0.2	-6	Th	1406	0.0	0	
●	1846	4.8	146	Su	1951	5.0	152		1957	5.5	168		2045	5.0	152		2014	5.3	162	
10 Su	0105	-0.6	-18	25	0155	-0.7	-21	10	0222	-1.1	-34	25	0252	-0.3	-9	10	0207	-1.2	-37	
0719	5.9	180		M	0807	5.5	168	10	0829	6.1	186	25	0854	5.0	152	10	0824	4.9	149	
1344	-0.5	-15		M	1436	-0.4	-12	10	1450	-1.1	-34	10	1514	-0.1	-3	10	1440	0.1	3	
1929	4.9	149		M	2034	4.9	149		2046	5.6	171		2123	4.8	146		2049	5.2	158	
11 M	0150	-0.7	-21	26	0237	-0.6	-18	11	0311	-1.0	-30	26	0331	-0.1	-3	11	0258	-1.1	-34	
0802	5.9	180		Tu	0846	5.3	162	11	0919	5.9	180	26	0931	4.7	143	11	0901	6.0	183	
1428	-0.7	-21		Tu	1513	-0.3	-9	11	1536	-1.1	-34	26	1548	0.1	3	11	1514	-1.2	-37	
2014	5.0	152		Tu	2116	4.7	143		2139	5.6	171		2203	4.7	143		2121	6.2	189	
12 Tu	0236	-0.7	-21	27	0318	-0.3	-9	12	0403	-0.8	-24	27	0409	0.1	3	12	0350	-0.9	-27	
0848	5.9	180		W	0926	5.0	152	12	1013	5.6	171	27	1011	4.4	134	12	0936	4.5	137	
1512	-0.7	-21		W	1549	-0.1	-3	12	1625	-1.0	-30		1623	0.3	9		1549	0.4	12	
2103	5.0	152		W	2200	4.5	137		2236	5.5	168		2245	4.5	137		2205	4.9	149	
13 W	0325	-0.6	-18	28	0359	-0.1	-3	13	0458	-0.5	-15	28	0450	0.3	9	13	0444	-0.6	-18	
0937	5.7	174		Th	1008	4.7	143	13	1111	5.2	158	28	1054	4.2	128	13	1017	4.3	131	
1558	-0.7	-21		Th	1626	0.1	3		1716	-0.7	-21		1701	0.4	12		1626	0.6	18	
2157	5.0	152		Th	2246	4.4	134		2337	5.4	165		2332	4.4	134		2250	4.8	146	
14 Th	0415	-0.5	-15	29	0440	0.2	6	14	0558	-0.2	-6	29	0534	0.6	18	14	0543	-0.2	-6	
1031	5.5	168		F	1052	4.4	134	14	1212	4.9	149	29	1140	4.0	122	14	1156	5.0	152	
1646	-0.7	-21		F	1703	0.3	9	14	1813	-0.5	-15		1743	0.6	18	14	1752	-0.3	-9	
2255	5.0	152		F	2333	4.3	131								15	0021	5.5	168		
15 F	0510	-0.3	-9	30	0524	0.4	12	15	0040	5.3	162	15	0650	0.1	3	30	0551	0.7	21	
1129	5.3	162		Sa	1137	4.2	128	15	0706	0.0	0	15	1259	4.7	143	30	1155	4.1	125	
1738	-0.6	-18		Sa	1744	0.4	12	15	1313	4.7	143	15	1856	0.0	0	31	0645	0.8	24	
2357	5.1	155		Sa	1831	0.5	15	31	0021	4.2	128	31	0613	0.6	18	31	0645	0.8	24	

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Myrtle Beach (Springmaid Pier), South Carolina, 2016

Times and Heights of High and Low Waters

April				May				June			
Time	Height	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 F 0129	4.8	146	16 Sa 0258	4.9	149	1 Su 0155	5.2	158	1 W 0311	4.6	140
0747	0.7	21	0941	0.5	15	0815	0.3	9	0946	0.5	15
1347	4.3	131	1538	4.8	146	1421	5.0	152	1555	5.0	152
2005	0.7	21	2152	0.5	15	2046	0.5	15	2210	0.7	21
2 Sa 0226	5.0	152	17 Su 0352	4.8	146	2 M 0253	5.3	162	17 Th 0400	4.6	140
0850	0.5	15	1029	0.4	12	0915	-0.1	-3	1028	0.4	12
1446	4.6	140	1630	5.0	152	1520	5.4	165	1641	5.1	155
2113	0.4	12	2242	0.4	12	2152	0.1	3	2256	0.5	15
3 Su 0324	5.2	158	18 M 0442	4.8	146	3 Tu 0352	5.5	168	18 W 0447	4.6	140
0948	0.1	3	1110	0.3	9	1011	-0.4	-1	1106	0.3	9
1545	5.0	152	1716	5.2	158	1618	5.9	180	1724	5.3	162
2215	0.0	0	2327	0.3	9	2252	-0.3	-9	2338	0.4	12
4 M 0421	5.5	168	19 Tu 0527	4.9	149	4 W 0450	5.7	174	19 Th 0531	4.6	140
1042	-0.3	-9	1147	0.2	6	1104	-0.7	-21	1144	0.3	9
1643	5.5	168	1758	5.3	162	1715	6.3	192	1803	5.5	168
2312	-0.4	-12				2348	-0.6	-18			
5 Tu 0517	5.8	177	20 W 0008	0.1	3	5 Th 0546	5.9	180	20 F 0020	0.2	6
1133	-0.7	-21	0608	4.9	149	1156	-1.0	-30	0612	4.6	140
1737	6.0	183	1223	0.2	6	1809	6.7	204	1222	0.2	6
			1836	5.5	168				1841	5.6	171
6 W 0006	-0.8	-24	21 Th 0047	0.1	3	6 F 0043	-0.9	-27	21 Sa 0100	0.1	3
0609	6.1	186	0645	4.9	149	0639	5.9	180	0650	4.6	140
1223	-1.0	-30	1257	0.1	3	1248	-1.1	-34	1300	0.2	6
1829	6.4	195	1911	5.6	171				1917	5.7	174
7 Th 0059	-1.0	-30	22 F 0126	0.0	0	7 Sa 0136	-1.0	-30	22 Su 0140	0.1	3
0700	6.2	189	0720	4.9	149	0732	5.9	180	0727	4.6	140
1312	-1.2	-37	1332	0.2	6	1339	-1.1	-34	1338	0.2	6
● 1919	6.7	204	○ 1945	5.6	171	1952	6.9	210	1952	5.7	174
8 F 0151	-1.1	-34	23 Sa 0204	0.0	0	8 Su 0229	-0.9	-27	23 M 0219	0.1	3
0751	6.1	186	0755	4.8	146	0825	5.7	174	0803	4.5	137
1402	-1.2	-37	1408	0.2	6	1431	-1.0	-30	1417	0.3	9
2010	6.8	207	2019	5.5	168	2044	6.7	204	2029	5.6	171
9 Sa 0244	-1.1	-34	24 Su 0242	0.1	3	9 M 0322	-0.8	-24	24 Tu 0259	0.1	3
0843	5.9	180	0830	4.6	140	0920	5.5	168	0842	4.5	137
1452	-1.1	-34	1443	0.3	9	1523	-0.7	-21	1456	0.3	9
2102	6.6	201	2055	5.4	165	2139	6.4	195	2109	5.5	168
10 Su 0336	-0.9	-27	25 M 0320	0.2	6	10 Tu 0414	-0.5	-15	25 W 0339	0.2	6
0938	5.6	171	0907	4.5	137	1019	5.2	158	0924	4.4	134
1542	-0.8	-24	1520	0.5	15	1616	-0.3	-9	1537	0.4	12
2158	6.3	192	2134	5.3	162	2237	6.0	183	2153	5.4	165
11 M 0430	-0.5	-15	26 Tu 0400	0.3	9	11 W 0508	-0.1	-3	26 Th 0420	0.2	6
1037	5.3	162	0948	4.3	131	1121	5.0	152	1013	4.4	134
1635	-0.5	-15	1559	0.6	18	1711	0.1	3	1622	0.5	15
2258	6.0	183	2217	5.1	155	2336	5.6	171	2243	5.3	162
12 Tu 0527	-0.2	-6	27 W 0441	0.5	15	12 Th 0604	0.2	6	27 F 0505	0.2	6
1140	5.0	152	1034	4.3	131	1222	4.9	149	1107	4.5	137
1732	-0.1	-3	1641	0.7	21	1809	0.4	12	1711	0.6	18
			2307	5.0	152				2336	5.2	158
13 W 0000	5.6	171	28 Th 0525	0.5	15	13 F 0034	5.2	158	13 Sa 0553	0.2	6
0629	0.2	6	1128	4.3	131	0703	0.4	12	1205	4.6	140
1242	4.8	146	1729	0.8	24	1320	4.8	146	1808	0.6	18
● 1835	0.3	9				○ 1913	0.7	21			
14 Th 0102	5.3	162	29 F 0001	5.0	152	14 Sa 0129	4.9	149	29 M 0032	5.2	158
0737	0.4	12	0616	0.5	15	0803	0.5	15	0647	0.1	3
1343	4.8	146	1225	4.4	134	1414	4.8	146	1302	4.9	149
1944	0.5	15	○ 1827	0.8	24	2018	0.8	24	○ 1914	0.6	18
15 F 0201	5.1	155	30 Sa 0058	5.1	155	15 Su 0221	4.7	143	30 M 0129	5.2	158
0844	0.5	15	0714	0.5	15	0858	0.6	18	0745	-0.1	-3
1442	4.8	146	1323	4.6	140	1506	4.9	149	1400	5.3	162
2052	0.6	18	1936	0.7	21	2118	0.8	24	2024	0.4	12
									31 Tu 0227	5.3	162
									0845	-0.3	-9
									1458	5.6	171
									2132	0.2	6

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Myrtle Beach (Springmaid Pier), South Carolina, 2016

Times and Heights of High and Low Waters

July				August				September			
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height
h m	ft	cm		h m	ft	cm		h m	ft	cm	
1 F 0407	5.1	155		16 Sa 0410	4.2	128		1 M 0001	-0.1	-3	
1019	-0.6	-18		1029	0.4	12		16 Tu 0514	4.9	149	
1638	6.3	192	Sa	1653	5.4	165	M	0550	5.2	158	1 Th 0110
2319	-0.2	-6		2316	0.6	18		1133	0.2	6	16 F 0025
								1750	6.0	183	0623
										1248	-0.2
										1853	6.6
											201
2 Sa 0507	5.2	158		17 Su 0459	4.4	134		2 W 0050	-0.2	-6	
1115	-0.8	-24		1115	0.3	9		17 W 0643	5.4	165	2 F 0149
1735	6.5	198	Su	1737	5.6	171		1246	-0.4	-12	17 Sa 0111
								● 1902	6.3	192	0712
										1338	-0.3
										1940	6.6
											201
3 Su 0015	-0.4	-12		18 M 0001	0.4	12		3 W 0136	-0.2	-6	
0604	5.3	162		0546	4.5	137		18 Th 0648	5.5	168	3 Sa 0226
1209	-0.8	-24	M	1200	0.1	3		1335	-0.3	-9	18 Su 0158
1828	6.6	201		1820	5.8	177		1946	6.1	186	0800
										1429	-0.3
										2030	6.5
											198
4 M 0107	-0.5	-15		19 O 0044	0.1	3		4 Th 0219	-0.1	-3	
0658	5.3	162		0630	4.7	143		19 F 0818	5.4	165	4 Su 0301
1302	-0.8	-24	Tu	1245	0.0	0		1421	-0.1	-3	19 M 0246
● 1919	6.5	198	O	1901	6.0	183		2029	5.9	180	0852
										1522	-0.2
										2122	6.2
											189
5 Tu 0157	-0.5	-15		20 W 0127	0.0	0		5 F 0300	0.0	0	
0750	5.3	162		0713	4.9	149		20 Sa 0821	5.9	180	5 M 0337
1353	-0.6	-18		1330	-0.1	-3		1446	-0.2	-6	20 Tu 0335
2007	6.3	192		1942	6.0	183		2050	6.3	192	0947
										1616	0.1
										2220	5.9
											180
6 W 0245	-0.4	-12		21 Th 0210	-0.2	-6		6 Sa 0339	0.1	3	
0841	5.2	158		0756	5.0	152		21 Su 0912	6.0	183	6 Tu 0427
1443	-0.4	-12		1416	-0.1	-3		1537	-0.1	-3	6 W 1048
2055	6.0	183		2025	6.0	183		2142	6.0	183	1714
										2323	5.6
											171
7 Th 0330	-0.3	-9		22 F 0253	-0.3	-9		7 Su 0416	0.3	9	
0933	5.1	155		0843	5.1	155		22 M 1008	-0.5	-15	7 W 1127
1531	-0.1	-3		1503	-0.1	-3		1630	0.1	3	7 Th 1262
2144	5.7	174		2111	5.9	180		2238	5.8	177	1818
										2331	4.6
											140
8 F 0413	-0.1	-3		23 Sa 0336	-0.4	-12		8 M 1127	0.5	15	
1026	4.9	149		0933	5.2	158		1716	0.9	27	8 Th 1216
1618	0.2	6		1552	0.0	0		2327	4.7	143	1816
2233	5.3	162		2202	5.8	177					1.4
											43
9 Sa 0456	0.1	3		24 W 0422	-0.4	-12		9 Tu 1209	0.7	21	
1120	4.8	146		1028	5.3	162		1805	1.1	34	9 F 1306
1706	0.5	15		1644	0.2	6					155
2322	5.0	152		2256	5.6	171					46
10 Su 0539	0.3	9		25 M 0510	-0.4	-12		10 Th 1832	0.5	15	
1211	4.8	146		1127	5.4	165		1215	1.1	34	10 F 1912
1755	0.8	24		1740	0.3	9					1.5
				2354	5.4	165					46
				● 1858	1.2	37					
11 M 0010	4.7	143		26 Tu 0602	-0.3	-9		11 Th 1943	0.7	21	
0623	0.5	15		1226	5.6	171					
1300	4.8	146		1844	0.5	15		1349	5.0	152	11 Su 0203
● 1849	1.0	30						1957	1.3	40	11 Th 0821
											4.5
											137
12 Tu 0057	4.5	137		27 W 0053	5.2	158		12 F 0150	4.3	131	
0710	0.6	18		0659	-0.2	-6		0804	0.9	27	12 M 0257
1346	4.8	146		1325	5.8	177		1437	5.1	155	12 Th 0920
1946	1.1	34		1955	0.5	15		2056	1.2	37	12 W 1538
											5.6
											171
13 W 0144	4.3	131		28 Th 0152	5.1	155		13 Sa 0240	4.3	131	
0801	0.7	21		0801	-0.2	-6		0900	0.8	24	13 Tu 0343
1432	4.9	149		1425	5.9	180		1526	5.2	158	13 F 0535
2044	1.1	34		2105	0.4	12		2151	1.0	30	13 W 1611
											6.0
											183
14 Th 0231	4.2	128		29 F 0252	5.0	152		14 Su 0332	4.4	134	
0852	0.6	18		0904	-0.2	-6		0954	0.6	18	14 M 0442
1519	5.0	152		1524	6.0	183		1616	5.5	168	14 W 1707
2139	0.9	27		2210	0.3	9		2240	0.8	24	14 Th 2344
											0.3
											9
15 F 0320	4.2	128		30 Sa 0353	5.0	152		15 M 0424	4.6	140	
0942	0.6	18		1005	-0.3	-9		1045	0.4	12	30 Tu 0536
1606	5.2	158		1624	6.2	189		1704	5.7	174	30 W 1143
2229	0.8	24		2308	0.1	3		2327	0.5	15	30 Th 1756
											6.1
											186
31 Su 0454	5.1	155		31 W 0625	5.6	171		31 W 0029	0.2	6	
1102	-0.4	-12		1721	6.3	192		1230	0.0	0	31 W 1230
											6.1
											1841

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Myrtle Beach (Springmaid Pier), South Carolina, 2016

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	0116	0.4	12	16 Su	0043	-0.6	-18	1 Tu	0152	0.5	15			
	0724	5.9	180	0650	7.0	213		0806	5.8	177	16 W	0202	-1.0	-30
	1333	0.4	12	1321	-0.4	-12		1425	0.6	18	0815	7.1	216	
	1931	5.7	174	1919	6.6	201		2013	5.0	152	1452	-0.5	-15	
2 Su	0150	0.5	15	17 M	0133	-0.8	-24	2 W	0229	0.6	18			
	0801	5.9	180	0741	7.1	216		0842	5.7	174	17 Th	0255	-0.8	-24
	1412	0.5	15	1413	-0.4	-12		1504	0.7	21	0910	6.8	207	
	2007	5.5	168	2010	6.4	195		2049	4.8	146	1545	-0.3	-9	
3 M	0225	0.6	18	18 Tu	0223	-0.7	-21	3 Th	0305	0.7	21			
	0837	5.8	177	0832	7.1	216		0921	5.5	168	18 F	0348	-0.5	-15
	1450	0.7	21	1507	-0.3	-9		1544	0.8	24	1008	6.4	195	
	2043	5.2	158	2104	6.1	186		2128	4.6	140	1640	0.0	0	
4 Tu	0300	0.7	21	19 W	0314	-0.5	-15	4 F	0344	0.9	27			
	0915	5.6	171	0928	6.9	210		1004	5.4	165	19 Sa	0444	-0.1	-3
	1530	0.8	24	1602	-0.1	-3		1625	1.0	30	1109	6.0	183	
	2121	5.0	152	2203	5.8	177		2213	4.5	137	1737	0.3	9	
5 W	0336	0.9	27	20 Th	0407	-0.3	-9	5 Sa	0425	1.0	30			
	0956	5.4	165	1028	6.6	201		1053	5.3	162	20 Su	0543	0.3	9
	1610	1.0	30	1659	0.2	6		1709	1.1	34	1211	5.7	174	
	2202	4.8	146	2306	5.5	168		2305	4.4	134	1839	0.5	15	
6 Th	0414	1.1	34	21 F	0504	0.1	3	6 Su	0511	1.1	34			
	1042	5.3	162	1132	6.3	192		1145	5.2	158	21 M	0553	5.0	152
	1653	1.2	37	1801	0.5	15		1758	1.1	34	1207	5.1	155	
	2249	4.6	140							1819	0.4	12		
7 F	0456	1.2	37	22 Sa	0012	5.3	162	7 M	0002	4.5	137			
	1132	5.2	158	0605	0.4	12		0604	1.1	34	22 Tu	0151	5.0	152
	1740	1.4	43	1236	6.0	183		1239	5.2	158	0754	0.8	24	
	2341	4.5	137	1909	0.8	24		1852	1.0	30	1404	5.1	155	
8 Sa	0543	1.3	40	23 Su	0115	5.2	158	8 Tu	0059	4.7	143			
	1224	5.2	158	0713	0.7	21		0707	1.1	34	23 W	0246	5.1	155
	1832	1.4	43	1337	5.8	177		1333	5.4	165	0858	0.8	24	
				2018	0.8	24		1951	0.8	24	1456	5.0	152	
9 Su	0035	4.5	137	24 M	0215	5.3	162	9 W	0156	5.0	152			
	0638	1.3	40	0823	0.8	24		0816	0.9	27	24 Th	0338	5.2	158
	1316	5.3	162	1434	5.6	171		1428	5.5	168	0953	0.8	24	
	1931	1.4	43	2119	0.8	24		2050	0.4	12	1545	4.9	149	
10 M	0130	4.6	140	25 Tu	0313	5.3	162	10 Th	0253	5.4	165			
	0742	1.3	40	0926	0.8	24		0921	0.6	18	25 F	0426	5.3	162
	1409	5.5	168	1529	5.5	168		1524	5.7	174	1040	0.7	21	
	2030	1.1	34	2209	0.7	21		2145	0.1	3	1632	4.8	146	
11 Tu	0225	4.9	149	26 W	0407	5.4	165	11 F	0350	5.9	180			
	0847	1.0	30	1020	0.7	21		1021	0.2	6	26 Sa	0511	5.4	165
	1502	5.7	174	1620	5.5	168		1620	5.9	180	1123	0.5	15	
	2126	0.8	24	2253	0.6	18		2237	-0.3	-9	1716	4.8	146	
12 W	0321	5.3	162	27 Th	0456	5.6	171	12 Sa	0551	5.6	171			
	0948	0.7	21	1107	0.6	18		1204	0.4	12	27 M	0522	6.5	198
	1555	5.9	180	1706	5.4	165		1715	6.1	186	1157	-0.6	-18	
	2218	0.4	12	2331	0.5	15		2328	-0.7	-21	1750	5.6	171	
13 Th	0416	5.7	174	28 F	0540	5.7	174	13 Su	0539	6.8	207			
	1043	0.3	9	1149	0.5	15		1211	-0.4	-12	28 M	0011	0.2	6
	1648	6.2	189	1748	5.4	165		1808	6.2	189	0629	5.7	174	
	2307	0.0	0							1243	0.3	9		
14 F	0509	6.2	189	29 Sa	0007	0.4	12	13 Tu	0111	4.9	149			
	1136	0.0	0	0620	5.9	180		0705	5.7	174	0616	6.8	207	
	1739	6.4	195	1229	0.5	15		1323	0.3	9	1251	-0.8	-24	
	2355	-0.4	-12	1826	5.4	165		1900	6.2	189	1844	5.7	174	
15 Sa	0600	6.7	204	30 Su	0042	0.4	12	14 W	0019	-0.9	-27			
	1228	-0.3	-9	0656	5.9	180		0632	7.1	216	0741	5.7	174	
	1829	6.6	201	1308	0.5	15		1305	-0.6	-18	1402	0.3	9	
				1903	5.3	162		1900	6.2	189	1947	4.8	146	
31 Sa	0117	0.4	12	31 M	0731	5.9	180	14 Tu	0047	0.2	6			
				1346	0.5	15		0705	5.7	174	0741	6.7	204	
				1938	5.2	158		1323	0.3	9	1436	-0.8	-24	
										1947	4.7	143		

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Charleston, South Carolina, 2016

Times and Heights of High and Low Waters

January				February				March											
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height								
h m	ft	cm		h m	ft	cm		h m	ft	cm									
1 F	0039 0642 1244 1906	4.6 0.7 4.7 0.6	140 21 143 18	16 Sa M	0020 0643 1252 1911	5.3 -0.1 5.2 -0.5	162 -3 158 -15	1 Tu	0130 0743 1334 1946	4.6 0.8 4.2 0.5	140 24 128 15	16 W	0034 0658 0841 1445 2053	4.7 0.8 0.2 4.7 -0.3	143 24 131 143 -9	16 Th	0154 0821 1429 2033	5.5 0.3 4.8 0.1	168 9 146 3
2 Sa	0132 0737 1334 1954	4.6 0.9 4.5 0.6	140 27 137 18	17 Su	0125 0749 1355 2011	5.4 0.1 5.0 -0.5	165 3 152 -15	2 Tu	0227 0843 1430 2043	4.6 0.8 4.2 0.5	140 24 128 15	2 W	0130 0946 1549 2155	4.8 0.1 4.7 -0.3	146 3 131 -9	17 Th	0259 0924 1532 2137	5.4 0.3 4.8 0.1	165 9 146 3
3 Su	0226 0834 1427 2045	4.7 0.9 4.4 0.6	143 27 134 18	18 M	0231 0857 1500 2113	5.4 0.1 4.9 -0.5	165 3 149 -15	3 W	0324 0942 1528 2142	4.8 0.7 4.3 0.3	146 0 131 9	3 Th	0233 0858 1649 2254	4.8 0.7 4.4 -0.4	146 12 134 -12	18 F	0400 1023 1631 2235	5.3 0.3 4.9 0.0	162 9 149 0
4 M	0320 0931 1521 2136	4.8 0.8 4.4 0.4	146 24 134 12	19 Tu	0337 1003 1603 2213	5.6 0.0 4.9 -0.6	171 0 0 -18	4 Th	0421 1037 1625 2238	5.0 0.4 4.4 0.0	152 12 152 0	4 F	0336 0958 1547 2348	5.1 0.5 4.6 -0.5	155 15 140 -15	19 Sa	0456 1115 1724 2329	5.4 0.2 5.1 -0.1	165 6 155 -3
5 Tu	0412 1025 1613 2225	5.0 0.6 4.5 0.2	152 18 137 6	20 W	0439 1103 1703 2310	5.7 -0.2 4.9 -0.7	174 -6 149 -21	5 F	0514 1129 1719 2331	5.3 0.1 4.7 -0.3	162 3 143 -9	5 Sa	0435 1054 1646 2304	5.4 0.1 4.9 -0.2	165 3 149 -6	20 Su	0545 1202 1811	5.4 0.0 5.3	165 0 162
6 W	0501 1115 1704 2314	5.3 0.4 4.6 0.0	162 12 140 0	21 Th	0536 1158 1759	5.9 -0.3 5.0	180 -9 152	6 Sa	0604 1218 1809	5.6 -0.3 4.9	171 -9 149	21 Su	0531 1147 1742 1918	5.7 -0.3 5.3 5.2	174 -9 162 158	21 M	0017 0628 1244 1855	-0.2 5.5 -0.1 5.5	-6 168 -3 168
7 Th	0549 1202 1751	5.5 0.1 4.7	168 3 143	22 F	0004 0628 1249 1850	-0.8 5.9 -0.4 5.1	-24 180 -12 155	7 Su	0022 0651 1305 1858	-0.6 5.9 -0.6 5.2	-18 180 -18 158	22 M	0122 0737 1353 2000	-0.6 5.6 -0.3 5.3	-18 171 -21 162	22 Tu	0101 0709 1322 1935	-0.2 5.5 -0.1 5.6	-6 168 -3 171
8 F	0000 0633 1247 1837	-0.2 5.7 -0.1 4.9	-6 174 -3 149	23 Sa	0054 0716 1336 1938	-0.9 6.0 -0.5 5.2	-27 183 -15 158	8 M	0112 0737 1351 1945	-0.9 6.1 -0.8 5.5	-27 186 -24 168	23 Tu	0053 0712 1324 1925	-0.9 6.2 -1.0 6.0	-27 189 -30 183	23 W	0142 0746 1358 2012	-0.2 5.4 -0.1 5.6	-6 165 -3 171
9 Sa	0045 0717 1332 1921	-0.5 5.9 -0.4 5.0	-15 180 -12 152	24 ●	0141 0800 1420 2022	-0.8 5.9 -0.5 5.1	-24 180 -15 155	9 Tu	0201 0823 1436 2033	-1.1 6.2 -1.0 5.7	-34 189 -30 174	24 ●	0145 0801 1506 2116	-1.1 6.2 -0.2 5.2	-34 189 -37 158	24 Th	0222 0822 1432 2048	-0.2 5.3 0.0 5.6	-6 162 0 171
10 Su	0131 0759 1415 2005	-0.6 6.0 -0.5 5.1	-18 183 -15 155	25 M	0226 0841 1501 2105	-0.7 5.8 -0.4 5.1	-21 177 -12 155	10 W	0250 0908 1523 2122	-1.1 6.1 -1.1 5.8	-34 186 -34 177	25 Th	0236 0926 1539 2152	-1.2 5.2 0.0 5.1	-37 158 -37 155	25 F	0259 0857 1504 2122	-0.1 5.2 0.1 5.5	-3 158 3 168
11 M	0216 0841 1459 2049	-0.8 6.1 -0.6 5.2	-24 186 -18 158	26 Tu	0308 0920 1540 2146	-0.5 5.6 -0.2 5.0	-15 171 -6 152	11 Th	0341 0956 1610 2213	-1.0 6.0 -1.1 5.8	-30 183 -34 177	26 F	0328 0939 1612 2228	-1.1 6.0 0.1 5.0	-34 183 -37 152	26 Sa	0336 0930 1535 2155	0.1 5.0 0.2 5.4	3 152 6 165
12 Tu	0303 0925 1544 2136	-0.8 6.0 -0.7 5.3	-24 183 -21 162	27 W	0350 0957 1617 2226	-0.2 5.3 0.0 4.9	-6 162 0 149	12 F	0433 1045 1659 2307	-0.8 5.7 -0.9 5.7	-24 174 -27 174	27 Sa	0421 1036 1645 2305	-0.9 4.8 0.3 4.9	-27 174 -30 189	27 Su	0413 1004 1608 2228	0.3 4.8 0.4 5.3	9 146 12 162
13 W	0352 1011 1631 2226	-0.7 5.9 -0.7 5.3	-21 180 -21 162	28 Th	0431 1035 1653 2307	0.0 5.1 0.2 4.7	0 155 6 143	13 Sa	0529 1139 1752 1849	-0.5 5.4 -0.8 -0.6	-15 165 -24 -18	28 M	0521 1114 1722 2346	0.5 4.6 4.4 4.8	-15 140 134 146	28 Tu	0452 1040 1645 2305	0.4 4.7 0.5 5.2	12 143 15 158
14 Th	0444 1100 1721 2321	-0.5 5.7 -0.6 5.3	-15 174 -18 162	29 F	0513 1113 1730 2351	0.3 4.8 0.3 4.6	9 146 9 140	14 Su	0005 0629 1237 1849	5.6 -0.2 5.1 -0.6	171 -6 155 -18	29 M	0606 1156 1805	0.6 4.4 0.5	18 134 15 155	29 Tu	0535 1121 1728 2350	0.6 4.6 0.6 5.1	18 140 18 155
15 F	0541 1153 1814	-0.3 5.4 -0.6	-9 165 -18	30 Sa	0558 1155 1810	0.5 4.6 0.4	15 140 12	15 M	0108 0734 1339 1950	5.5 0.0 4.8 -0.4	168 0 146 -12	30 W	0050 0717 1325 1929	5.7 0.1 4.9 -0.1	174 3 149 -3	30 ○	0624 1209 1819	0.7 4.5 0.7	21 137 21
				31 Su	0038 0648 1242 1855	4.6 0.7 4.4 0.5	140 21 134 15					31 Th	0043 0719 1306 1919	5.1 0.7 4.5 0.7	155 21 137 21				

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Charleston, South Carolina, 2016

Times and Heights of High and Low Waters

April				May				June			
Time	Height	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 F 0146	5.1	155	16 Sa 0328	5.2	158	1 Su 0217	5.4	165	1 W 0355	5.4	165
0820	0.6	18	0952	0.4	12	0848	0.1	3	1016	-0.7	-21
1409	4.6	140	1606	5.1	155	1447	5.2	158	1624	5.3	162
2026	0.5	15	2211	0.4	12	2109	0.3	9	2233	0.6	18
2 Sa 0252	5.2	158	17 Su 0421	5.2	158	2 M 0321	5.5	168	2 Th 0456	5.5	168
0921	0.4	12	1043	0.3	9	0947	-0.2	-6	1112	-0.9	-27
1514	4.9	149	1657	5.3	162	1550	5.6	171	1710	5.5	168
2134	0.3	9	2304	0.3	9	2216	0.0	0	2322	0.5	15
3 Su 0357	5.5	168	18 M 0510	5.2	158	3 Tu 0423	5.6	171	18 W 0514	4.9	149
1020	0.1	3	1128	0.2	6	1043	-0.5	-15	1129	0.2	6
1616	5.3	162	1744	5.5	168	1650	6.1	186	1754	5.7	174
2238	-0.1	-3	2352	0.2	6	2318	-0.3	-9	1825	6.8	207
4 M 0456	5.7	174	19 Tu 0554	5.2	158	4 W 0522	5.8	177	4 Sa 0055	-0.6	-18
1114	-0.3	-9	1209	0.1	3	1137	-0.8	-24	0652	5.5	168
1715	5.7	174	1826	5.6	171	1748	6.5	198	1259	-1.1	-34
2338	-0.5	-15							● 1920	6.9	210
5 Tu 0552	6.0	183	20 W 0036	0.1	3	5 Th 0016	-0.6	-18	5 Sa 0149	-0.7	-21
1206	-0.7	-21	0635	5.2	158	0619	5.9	180	0748	5.5	168
1810	6.2	189	1247	0.1	3	1230	-1.1	-34	1352	-1.0	-30
			1906	5.8	177	1843	6.8	207	2013	6.8	207
6 W 0034	-0.8	-24	21 Th 0118	0.0	0	6 F 0111	-0.8	-24	6 M 0241	-0.7	-21
0646	6.1	186	0714	5.2	158	0714	5.9	180	0843	5.4	165
1257	-1.0	-30	1323	0.1	3	1322	-1.2	-37	1444	-0.9	-27
1904	6.5	198	1944	5.8	177	● 1937	7.0	213	2105	6.6	201
7 Th 0128	-1.0	-30	22 F 0157	0.0	0	7 Sa 0205	-0.9	-27	21 W 0225	0.0	0
0737	6.2	189	0752	5.1	155	0808	5.8	177	0813	4.8	146
1346	-1.2	-37	1357	0.1	3	1413	-1.1	-34	1414	0.0	0
● 1956	6.8	207	○ 2020	5.8	177	2030	7.0	213	2044	5.9	180
8 F 0221	-1.1	-34	23 Sa 0235	0.1	3	8 Su 0258	-0.9	-27	22 M 0249	0.1	3
0829	6.1	186	0828	5.0	152	0902	5.7	174	0838	4.8	146
1435	-1.2	-37	1430	0.2	6	1504	-1.0	-30	1437	0.2	6
2048	6.8	207	2054	5.7	174	2123	6.8	207	2105	5.8	177
9 Sa 0314	-1.0	-30	24 Su 0312	0.2	6	9 M 0351	-0.7	-21	23 W 0423	-0.4	-12
0920	5.9	180	0903	4.9	149	0956	5.5	168	1031	5.2	158
1525	-1.1	-34	1504	0.3	9	1556	-0.7	-21	1627	-0.2	-6
2140	6.7	204	2127	5.6	171	2217	6.5	198	2246	6.0	183
10 Su 0407	-0.8	-24	25 M 0350	0.3	9	10 Tu 0444	-0.4	-12	23 M 0249	-0.4	-12
1013	5.7	174	0938	4.8	146	1052	5.3	162	0915	4.7	143
1616	-0.8	-24	1539	0.4	12	1649	-0.3	-9	1516	0.3	9
2234	6.5	198	2200	5.6	171	2310	6.2	189	2140	5.7	174
11 M 0501	-0.5	-15	26 Tu 0429	0.4	12	11 W 0538	-0.1	-3	10 F 0603	0.1	3
1109	5.4	165	1014	4.7	143	1149	5.1	155	1218	5.0	152
1710	-0.5	-15	1618	0.5	15	1745	0.0	0	1814	0.4	12
2330	6.2	189	2237	5.5	168						
12 Tu 0558	-0.1	-3	27 W 0511	0.5	15	12 Th 0005	5.8	177	26 Th 0451	0.2	6
1207	5.2	158	1055	4.6	140	0633	0.1	3	0652	0.2	6
1807	-0.1	-3	1702	0.6	18	1246	5.0	152	1312	4.9	149
			2320	5.4	165	1843	0.4	12	1909	0.7	21
13 W 0029	5.8	177	28 Th 0559	0.5	15	13 F 0100	5.5	168	26 Su 0607	-0.2	-6
0657	0.1	3	1143	4.6	140	0728	0.3	9	1207	5.2	158
1308	5.0	152	1753	0.6	18	1344	5.0	152	1823	0.3	9
● 1908	0.2	6				● 1943	0.6	18			
14 Th 0130	5.5	168	29 F 0012	5.3	162	14 Sa 0155	5.2	158	25 F 0342	4.7	143
0758	0.3	9	0651	0.5	15	0823	0.4	12	0917	0.4	12
1410	4.9	149	1240	4.7	143	1440	5.0	152	1545	5.2	158
2011	0.4	12	● 1853	0.6	18	2043	0.7	21	2156	0.8	24
15 F 0231	5.3	162	30 Sa 0112	5.3	162	15 M 0248	5.1	155	1022	0.3	9
0857	0.4	12	0749	0.4	12	0914	0.4	12	1633	5.4	165
1510	5.0	152	1342	4.9	149	1534	5.1	155	2049	0.3	9
2113	0.5	15	2000	0.5	15	2140	0.7	21	31 Tu 0253	5.4	165
									0918	-0.4	-12
									1529	5.8	177
									2156	0.1	3

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Charleston, South Carolina, 2016

Times and Heights of High and Low Waters

July				August				September								
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height					
1 F 0436 1050 1712 2342	h m 5.2 -0.8 6.4 -0.2	ft 158 -24 195 -6	cm 160 140 174 15	16 Sa 0440 1051 1729 2345	h m 4.6 0.3 5.7 0.5	ft 140 9 174 15	cm 155 162 189 195	1 Th 0021 0619 1224 1848	h m -0.1 5.3 -0.6 6.4	ft -3 162 -18 195	cm 155 162 189 195	16 F 0132 0739 1344 1954	h m 0.1 5.8 0.0 6.2	ft 3 177 0 189	cm 160 140 140 189	
	1146 1810	-0.9 6.6	-27 201		17 Su 0529 1137 1814	4.7 0.1 5.8	143 3 177	1 M 0111 0712 1315 1936	-0.2 5.4 -0.5 6.4	-6 165 -15 195	6 165 -3 192		16 Sa 0214 0822 1427 2033	0.2 5.8 0.2 6.0	6 177 6 183	-6 198 -12 201
	0634 1241 1904	5.3 -0.9 6.6	162 -27 201		18 M 0030 0617 1223 1858	0.3 4.8 0.0 6.0	9 146 0 183	3 W 0159 0802 1404 2022	-0.2 5.4 -0.4 6.3	-6 165 -12 192	9 171 -9 195		17 Sa 0252 0903 1510 2111	0.3 5.7 0.4 5.8	9 174 12 177	-12 198 -12 198
	0131 0730 1333 1956	-0.5 5.3 -0.8 6.6	-15 162 -24 201		19 Tu 0114 0702 1309 1940	0.1 4.9 -0.1 6.1	3 149 -3 186	4 Th 0244 0850 1451 2104	-0.1 5.4 -0.2 6.1	-3 165 -6 186	12 177 -9 195		18 Su 0329 0944 1551 2148	0.4 5.7 0.6 5.6	12 174 17 171	-18 207 -6 192
5 Tu 0222 0823 1424 2045	h m -0.5 5.3 -0.7 6.4	ft -15 162 -21 195	cm 0.0 152 -6 186	5 F 0158 0747 1354 2022	h m 0.0 5.0 -0.2 6.1	ft 0 152 -6 186	cm 0 165 -3 177	5 M 0327 0936 1536 2145	h m 0.0 5.4 0.1 5.8	ft 0 165 -3 177	cm 0 183 -9 192	5 Tu 0404 1023 1632 2226	h m 0.6 5.6 0.9 5.3	ft 18 171 27 162	cm 18 171 27 183	
	0915 1514 2132	5.3 -0.4 6.2	162 -12 189		20 W 0158 0747 1354 2022	0.0 5.0 -0.2 6.1	0 152 -6 186		20 Tu 0410 1024 1648 2253	0.5 6.7 0.1 6.0	-15 204 1 183					
	0310 0915 1514 2132	-0.4 5.3 -0.4 6.2	-12 162 -12 189		21 W 0241 0832 1440 2104	-0.2 5.1 -0.2 6.1	-6 155 -6 186		21 W 0503 1122 1746 2351	-0.3 6.6 0.4 5.7	-9 201 12 174					
	0357 1005 1603 2218	-0.2 5.2 -0.1 5.9	-6 158 -3 180		22 Th 0324 0917 1528 2147	-0.3 5.3 -0.2 6.1	-9 162 -6 186		22 Th 0559 1223 1848 2349	0.0 6.4 0.6 152	0 195 18 152					
8 F 0443 1055 1651 2302	h m -0.1 5.1 0.2 5.6	ft -3 155 6 171	cm -12 162 -6 186	8 M 0409 1006 1619 2233	h m -0.4 5.4 -0.1 5.9	ft -12 165 -3 180	cm -12 162 -6 186	8 Tu 0525 1149 1752 2348	h m 0.5 5.2 0.9 5.1	ft 15 158 27 155	cm 15 168 40 155	8 Th 0558 1236 1800 2349	h m 1.0 5.3 0.3 5.0	30 162 43 40 152	168 6 189 21	
	1144 1741 2346	5.0 0.5 5.3	152 15 162		23 Sa 0456 1058 1713 2323	-0.4 5.5 0.1 5.8	-12 168 3 177		23 F 0053 0659 1327 1952	5.5 0.2 6.2 0.7	168 6 189 21					
	0527 1144 1741 2346	0.1 5.0 0.5 5.3	3 152 15 162		24 Sa 0456 1058 1713 2323	-0.4 5.5 0.1 5.8	-12 168 3 177		24 Sa 0038 0646 1328 1945	4.8 1.1 5.3 1.4	165 34 162 43					
	0611 1233 1832	0.3 5.0 0.8	9 152 24		25 M 0546 1153 1811	-0.4 5.6 0.2	-12 171 6		25 Su 0131 0740 1424 2042	4.8 1.1 5.4 4.0	165 12 186 21					
11 M 0031 0655 1322 1925	h m 5.0 0.4 5.0 0.9	ft 152 12 152 27	cm 171 -12 174 12	11 Tu 0017 0639 1253 1914	h m 5.6 -0.4 5.7 0.4	ft 171 -12 174 12	cm 171 -12 174 37	11 Th 0122 0734 1417 1934	h m 4.7 0.8 5.2 1.2	ft 143 24 158 37	cm 162 0 186 37	11 Sa 0228 0839 1520 2112	h m 5.3 0.0 5.6 0.6	149 30 171 18	168 12 186 34	
	0118 0740 1412 2019	4.8 0.5 5.0 1.0	146 15 152 30		26 W 0017 0735 1355 2020	5.6 -0.4 5.9 0.4	171 -12 180 12		26 M 0401 1005 1628 2248	5.5 0.4 6.1 0.6	168 12 186 18					
	0207 0826 1503 2114	4.7 0.5 5.2 1.0	143 15 158 30		27 F 0115 0735 1355 2020	5.4 -0.4 5.9 0.4	165 -12 180 12		27 Tu 0325 0939 1614 2232	5.0 0.8 5.9 0.8	168 12 186 15					
	0258 0914 1553 2207	4.6 0.5 5.3 0.9	140 15 162 27		27 W 0214 0826 1510 2125	4.7 0.8 5.3 1.1	143 24 162 34		27 Th 0456 1101 1718 2337	5.7 0.3 6.1 0.5	174 9 186 15					
13 W 0207 0826 1503 2114	h m 4.7 0.5 5.2 1.0	ft 143 15 158 30	cm 158 -12 183 12	13 Th 0217 0834 1458 2126	h m 5.2 -0.4 6.0 0.4	ft 158 -12 183 12	cm 158 -12 183 30	13 Sa 0308 0920 1602 2218	h m 4.7 0.7 5.5 1.0	ft 143 21 168 30	cm 162 162 168 30	13 Tu 0311 0920 1646 2213	h m 5.3 0.0 6.1 0.5	162 0 186 15	180 9 186 24	
	0258 0914 1553 2207	4.6 0.5 5.3 0.9	140 15 162 27		28 F 0217 0834 1458 2228	5.2 -0.4 6.0 0.2	158 -12 183 6		28 W 0412 1037 1706 2322	5.3 0.5 6.1 0.5	162 15 186 15					
	0349 1003 1641 2257	4.6 0.4 5.5 0.7	140 12 168 21		29 M 0320 0935 1600 2228	5.2 -0.4 6.2 0.2	158 -12 189 6		29 Th 0510 1116 1740 2357	5.5 -0.1 6.3 0.4	168 -3 192 12					
	0011 1034 1700 2327	5.2 -0.5 6.3 0.1	158 -15 192 3		29 W 0402 0935 1600 2357	4.8 -0.4 5.6 0.4	146 -12 183 12		29 F 0022 0632 1238 1845	0.4 6.0 0.2 6.1	12 183 6 186					
15 F 0349 1003 1641 2257	h m 4.6 0.4 5.5 0.7	ft 140 12 168 21	cm 140 -12 189 3	15 M 0454 1106 1741 2357	h m 5.2 0.3 6.0 0.1	ft 158 -15 183 3	cm 149 9 183 12	15 Tu 0001 0604 1209 1828	h m 4.9 0.3 5.6 6.3	ft 149 9 171 192	cm 162 9 183 192	15 Th 0011 0606 1224 1843	h m 0.3 6.0 -0.1 6.6	9 183 -3 201	180 9 186 183	
	0522 1034 1700 2327	5.3 -0.5 6.3 0.1	162 -18 195 3		31 Su 1130 1756	5.3 -0.6 6.4	162 -18 195		31 W 0048 0653 1258 1913	0.2 5.7 -0.1 6.3	6 174 -3 192		180 9 186 183			
	0522 1034 1700 2327	5.3 -0.5 6.3 0.1	162 -18 195 3		31 W 0048 0653 1258 1913	0.2 5.7 -0.1 6.3	6 174 -3 192		30 F 0103 0714 1322 1925	0.4 6.1 0.3 6.0	12 186 9 183					
	0103 1003 1641 2257	4.6 0.4 5.5 0.7	140 12 168 21		31 O 1931	6.6	162		30 O 1931	6.6	201					

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Charleston, South Carolina, 2016

Times and Heights of High and Low Waters

October				November				December							
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height				
h m	ft	cm		h m	ft	cm		h m	ft	cm					
1 Sa	0141	0.4	12	16 Su	0118	-0.6	-18	1 Tu	0217	0.5	15	1 Th	0224	0.3	9
	0754	6.1	186		0725	7.0	213		0841	6.1	186		0852	5.8	177
	1403	0.4	12		1351	-0.4	-12		1456	0.6	18		1510	0.4	12
	2002	5.9	180		1956	6.5	198		2046	5.3	162		2057	4.9	149
2 Su	0217	0.5	15	17 M	0207	-0.7	-21	2 W	0251	0.6	18	2 Th	0300	0.3	9
	0832	6.1	186		0818	7.2	219		0916	5.9	180		0926	5.7	174
	1443	0.5	15		1444	-0.4	-12		1534	0.7	21		1548	0.4	12
	2039	5.7	174		2047	6.4	195		2121	5.2	158		2132	4.8	146
3 M	0251	0.6	18	18 Tu	0257	-0.7	-21	3 Th	0325	0.7	21	18 F	0422	-0.4	-12
	0909	6.0	183		0911	7.1	216		0950	5.8	177		1045	6.6	201
	1522	0.7	21		1537	-0.3	-9		1613	0.9	27		1709	0.0	0
	2115	5.5	168		2141	6.2	189		2157	5.0	152		2317	5.5	168
4 Tu	0324	0.8	24	19 W	0348	-0.5	-15	4 F	0402	0.8	24	19 Sa	0518	-0.1	-3
	0946	5.8	177		1006	7.0	213		1027	5.7	174		1141	6.2	189
	1601	0.9	27		1632	0.0	0		1654	1.0	30		1806	0.3	9
	2151	5.3	162		2237	5.9	180		2236	4.9	149				
5 W	0358	0.9	27	20 Th	0442	-0.3	-9	5 Sa	0444	0.9	27	20 Su	0017	5.3	162
	1023	5.7	174		1104	6.7	204		1108	5.6	171		0617	0.3	9
	1641	1.1	34		1730	0.3	9		1739	1.0	30		1239	5.9	180
	2228	5.1	155		2336	5.7	174		2322	4.9	149		1903	0.5	15
6 Th	0434	1.0	30	21 F	0539	0.1	3	6 Su	0532	1.0	30	21 M	0118	5.2	158
	1103	5.6	171		1205	6.4	195		1157	5.5	168		0718	0.5	15
	1724	1.3	40		1829	0.5	15		1829	1.0	30		1336	5.6	171
	2310	5.0	152									2000	0.6	18	
7 F	0516	1.1	34	22 Sa	0038	5.5	168	7 M	0015	4.9	149	22 Tu	0218	5.2	158
	1147	5.5	168		0640	0.3	9		0628	1.0	30		0820	0.7	21
	1811	1.4	43		1307	6.2	189		1253	5.5	168		1432	5.4	165
	2357	4.9	149		1931	0.7	21		1925	0.9	27		2055	0.6	18
8 Sa	0604	1.2	37	23 Su	0142	5.4	165	8 Tu	0115	5.0	152	8 W	0150	5.2	158
	1239	5.5	168		0743	0.5	15		0732	1.0	30		0919	0.7	21
	1904	1.4	43		1409	6.0	183		1354	5.6	171		1524	5.3	162
					2032	0.8	24		2022	0.7	21		2147	0.5	15
9 Su	0051	4.9	149	24 M	0244	5.4	165	9 W	0218	5.3	162	9 Th	0407	5.5	168
	0700	1.2	37		0846	0.6	18		0839	0.8	24		1014	0.7	21
	1337	5.5	168		1507	5.9	180		1456	5.7	174		1614	5.2	158
	2001	1.3	40		2129	0.7	21		2120	0.4	12		2234	0.4	12
10 M	0150	5.0	152	25 Tu	0342	5.6	171	10 Th	0321	5.7	174	10 Sa	0358	6.0	183
	0803	1.1	34		0946	0.6	18		0945	0.5	15		1027	0.0	0
	1436	5.7	174		1601	5.8	177		1556	5.9	180		1627	5.5	168
	2059	1.1	34		2221	0.6	18		2216	0.0	0		2317	0.3	9
11 Tu	0251	5.2	158	26 W	0435	5.7	174	11 F	0421	6.1	186	11 Sa	0458	6.4	195
	0907	0.9	27		1040	0.6	18		1047	0.1	3		1128	-0.3	-9
	1534	5.9	180		1649	5.8	177		1653	6.0	183		1726	5.6	171
	2155	0.7	21		2308	0.5	15		2310	-0.4	-12		2358	0.3	9
12 W	0350	5.6	171	27 Th	0523	5.9	180	12 Sa	0518	6.5	198	12 M	0556	6.7	204
	1009	0.6	18		1130	0.5	15		1145	-0.2	-6		1225	-0.6	-18
	1630	6.1	186		1734	5.8	177		1748	6.2	189		1825	5.2	158
	2248	0.3	9		2351	0.4	12								
13 Th	0446	6.0	183	28 F	0607	6.0	183	13 Su	0002	-0.7	-21	13 M	0036	0.2	6
	1108	0.2	6		1216	0.4	12		0613	6.9	210		0702	6.0	183
	1723	6.4	195		1815	5.7	174		1241	-0.5	-15		1315	0.3	9
	2339	-0.1	-3						1842	6.2	189		1905	5.2	158
14 F	0541	6.4	195	29 Sa	0031	0.4	12	14 O	0054	-0.9	-27	14 W	0113	0.2	6
	1204	-0.1	-3		0648	6.1	186		0707	7.1	216		0740	6.0	183
	1814	6.5	198		1259	0.4	12		1335	-0.6	-18		1354	0.3	9
					1855	5.7	174		1935	6.2	189		1944	5.1	155
15 Sa	0029	-0.4	-12	30 Su	0108	0.4	12	15 M	0145	-1.0	-30	15 W	0149	0.2	6
	0633	6.8	207		0727	6.2	189		0801	7.2	219		0817	5.9	180
	1258	-0.3	-9		1339	0.4	12		1428	-0.6	-18		1432	0.3	9
	1905	6.6	201		1933	5.6	171		2029	6.1	186		2021	5.0	152
16 M	0143	0.4	12	31 M	0805	6.1	186								
	1418	0.5	15		1418	0.5	15								
	2010	5.5	168		2010	5.5	168								

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Savannah River Entrance, Georgia, 2016

Times and Heights of High and Low Waters

January				February				March							
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height				
h m	ft	cm		h m	ft	cm		h m	ft	cm					
1 F	0050	6.1	186	16 Sa	0034	7.1	216	1 M	0140	6.0	183	16 Tu	0217	7.1	216
0652	1.0	30		0655	0.0	0	0755	1.1	34	0854	0.3	9			
1301	6.3	192		1305	6.9	210	1354	5.8	177	1450	6.3	192			
1912	0.8	24		● 1928	-0.5	-15	2001	0.8	24	2114	-0.2	-6			
2 Sa	0140	6.1	186	17 Su	0134	7.1	216	2 Tu	0233	6.1	186	17 W	0320	7.1	216
0748	1.2	37		0802	0.2	6	0857	1.1	34	1001	0.3	9			
1350	6.1	186		1404	6.7	204	1447	5.7	174	1553	6.3	192			
● 2003	0.9	27		2030	-0.5	-15	2101	0.7	21	2217	-0.3	-9			
3 Su	0231	6.2	189	18 M	0235	7.2	219	3 W	0327	6.2	189	18 Th	0422	7.1	216
0847	1.2	37		0912	0.2	6	0957	0.9	27	1102	0.2	6			
1440	6.0	183		1506	6.5	198	1542	5.8	177	1654	6.4	195			
2057	0.8	24		2133	-0.5	-15	2201	0.5	15	2315	-0.4	-12			
4 M	0322	6.3	192	19 Tu	0337	7.3	223	4 Th	0423	6.5	198	19 F	0521	7.2	219
0945	1.1	34		1018	0.1	3	1053	0.6	18	1156	0.0	0			
1532	6.0	183		1608	6.5	198	1637	6.0	183	1751	6.6	201			
2150	0.7	21		2234	-0.6	-18	2257	0.2	6	2224	0.3	9			
5 Tu	0414	6.5	198	20 W	0439	7.4	226	5 F	0518	6.9	210	20 Sa	0008	-0.5	-15
1039	0.9	27		1119	-0.1	-3	1146	0.2	6	0614	7.3	223			
1624	6.0	183		1709	6.5	198	1731	6.3	192	1244	-0.2	-6			
2242	0.4	12		2331	-0.8	-24	2351	-0.2	-6	1841	6.7	204			
6 W	0505	6.8	207	21 Th	0538	7.6	232	6 Sa	0609	7.2	219	21 Su	0057	-0.6	-18
1130	0.5	-9		1214	-0.3	-9	1236	-0.3	-9	0701	7.4	226			
1716	6.2	189		1806	6.7	204	1822	6.7	204	1329	-0.3	-9			
2331	0.1	3								1926	6.9	210			
7 Th	0554	7.1	216	22 F	0025	-0.9	-27	7 Su	0043	-0.7	-21	22 M	0143	-0.6	-18
1218	0.2	6		0632	7.7	235	0657	7.6	232	0743	7.4	226			
1804	6.4	195		1305	-0.4	-12	1324	-0.7	-21	1410	-0.3	-9			
				1858	6.8	207	1910	7.0	213	2007	7.0	213			
8 F	0020	-0.2	-6	23 Sa	0115	-1.0	-30	8 M	0133	-1.0	-30	23 Tu	0225	-0.6	-18
0639	7.4	226		0720	7.8	238	0743	7.9	241	0822	7.3	223			
1305	-0.1	-3		1353	-0.5	-15	1411	-1.1	-34	1447	-0.3	-9			
1850	6.6	201		● 1945	6.8	207	● 1956	7.4	226	2045	7.0	213			
9 Sa	0107	-0.5	-15	24 Su	0203	-0.9	-27	9 Tu	0222	-1.3	-40	24 W	0305	-0.5	-15
0722	7.6	232		0805	7.7	235	0828	8.0	244	0859	7.2	219			
1351	-0.4	-12		1436	-0.5	-15	1457	-1.3	-40	1522	-0.2	-6			
● 1933	6.8	207		2029	6.8	207	2043	7.6	232	2123	6.9	210			
10 Su	0153	-0.7	-21	25 M	0247	-0.8	-24	10 W	0310	-1.4	-43	25 Th	0342	-0.3	-9
0804	7.8	238		0846	7.6	232	0914	8.0	244	0936	7.0	213			
1435	-0.7	-21		1516	-0.4	-12	1543	-1.4	-43	1555	-0.1	-3			
2016	6.9	210		2111	6.7	204	2131	7.7	235	2200	6.8	207			
11 M	0239	-0.9	-27	26 Tu	0328	-0.6	-18	11 Th	0359	-1.3	-40	26 F	0419	0.0	0
0846	7.9	241		0927	7.3	223	1002	7.8	238	1014	6.7	204			
1519	-0.9	-27		1554	-0.3	-9	1629	-1.4	-43	1627	0.1	3			
2100	7.0	213		2153	6.6	201	2222	7.7	235	2237	6.6	201			
12 Tu	0325	-0.9	-27	27 W	0408	-0.3	-9	12 F	0449	-1.0	-30	27 Sa	0455	0.3	9
0931	7.8	238		1007	7.0	213	1054	7.5	229	1053	6.4	195			
1604	-0.9	-27		1629	-0.1	-3	1717	-1.2	-37	1701	0.3	9			
2147	7.1	216		2235	6.4	195	2317	7.6	232	2318	6.4	195			
13 W	0413	-0.9	-27	28 Th	0447	0.1	3	13 Sa	0542	-0.7	-21	28 M	0535	0.6	18
1018	7.7	235		1048	6.7	204	1150	7.1	216	1135	6.1	186			
1650	-0.9	-27		1704	0.2	6	1809	-0.9	-27	1739	0.5	15			
2239	7.1	216		2318	6.3	192									
14 Th	0502	-0.7	-21	29 F	0527	0.4	12	14 Su	0016	7.4	226	29 Tu	0002	6.3	192
1110	7.4	226		1131	6.4	195	0640	-0.2	-6	0619	0.9	27			
1738	-0.8	-24		1740	0.4	12	1248	6.8	207	1221	5.9	180			
2335	7.1	216					1906	-0.6	-18	1822	0.7	21			
15 F	0556	-0.4	-12	30 Sa	0003	6.1	186	15 M	0116	7.3	223	30 W	0057	7.4	226
1206	7.2	219		0610	0.7	21	0745	0.2	6	0727	0.2	6			
1830	-0.7	-21		1216	6.1	186	1348	6.5	198	1333	6.5	198			
				1820	0.6	18	● 2008	-0.3	-9	● 1947	0.0	0			
				31 Su	0051	6.0	183								
				0658	1.0	30									
				1304	5.9	180									
				● 1907	0.7	21									

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Savannah River Entrance, Georgia, 2016

Times and Heights of High and Low Waters

April				May				June				
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	
1 F 0200	6.6 0.9 1428 2047	201 27 189 24	16 Sa 0330 1008 1610 2231	207 15 204 0.6 18	16 Su 0230 0908 1501 2129	213 9 213 0.5 15	16 M 0345 1018 1627 2251	201 18 6.9 0.8 24	1 W 0405 1037 1637 2315	219 -0.7 8.1 -0.2 -6	16 Th 0443 1102 1723 2348	192 0.4 7.2 0.7 21
2 Sa 0302	6.8 0.6 1527 2155	207 18 201 15	17 Su 0424 1058 1702 2323	207 15 210 0.5 15	2 M 0331 1007 1600 2234	219 -3 226 0.1 3	17 Tu 0435 1102 1715 2338	201 15 216 0.6 18	2 Th 0505 1133 1735	223 -1.0 259	17 F 0531 1146 1808	192 0.3 7.4 226
3 Su 0403	7.1 0.1 1627 2257	216 3 213 0	18 M 0515 1143 1750	207 12 216 0.4 216	3 Tu 0432 1104 1659 2335	226 -0.5 244 -0.3 -9	18 W 0523 1144 1800	201 12 223 0.4 223	3 F 0014 0604 1228 1831	-15 226 -1.2 265	18 Sa 0034 0618 1229 1851	0.5 6.4 0.2 7.5 15
4 M 0504	7.4 -0.4 1725 2356	226 -12 232 -15	19 Tu 0010 0601 1224 1833	9 210 0.3 9 223	4 W 0531 1158 1756	232 -0.9 259	19 Th 0023 0609 1225 1842	12 201 9 229	4 Sa 0110 0700 1321 1925	-24 226 -1.3 271	19 Su 0117 0701 1313 1931	0.3 6.4 0.1 7.6 9
5 Tu 0600	7.7 -0.8 1820	235 -24 247	20 W 0054 0644 1303 1913	6 213 0.2 6 229	5 Th 0032 0628 1251 1851	-0.7 7.8 -1.2 8.8	20 F 0106 0652 1304 1921	9 204 6.7 6 232	5 Su 0204 0754 1414 2017	-27 226 -1.2 268	20 M 0200 0743 1356 O 2009	0.1 6.5 0.1 7.6 3
6 W 0052	-0.9 0.8 1318 1912	-27 244 -37 262	21 Th 0135 0724 1340 1950	3 213 0.1 3 232	6 F 0128 0721 1343 ● 1943	-1.0 7.8 -1.4 9.0	21 Sa 0147 0732 1344 O 1958	6 201 6 232	6 M 0256 0848 1505 2108	-0.9 7.3 -1.0 8.5	21 Tu 0242 0823 1438 2047	0.0 6.5 0.1 7.6 0
7 Th 0146	-1.2 8.1 -1.5 ● 2003	-37 247 -46 268	22 F 0215 0802 1416 O 2025	0 210 0.2 6 229	7 Sa 0221 0814 1435 2035	-1.1 7.8 -1.4 9.0	22 Su 0227 0811 1422 2034	3 204 6 229	7 Tu 0346 0942 1556 2200	-0.7 7.1 -0.7 8.2	22 W 0324 0904 1521 2127	-0.1 6.5 0.1 7.5 -3
8 F 0238	-1.4 8.1 1457 2054	-43 247 -46 271	23 Sa 0252 0839 1451 2059	3 207 0.1 6 226	8 Su 0313 0907 1525 2127	-1.1 7.6 -1.2 8.8	23 M 0306 0849 1501 2109	3 198 9 226	8 W 0434 1037 1645 2253	-0.5 6.8 -0.3 7.8	23 Th 0406 0947 1605 2210	-0.2 6.5 0.1 7.5 -6
9 Sa 0330	-1.3 9.26 1546 2146	-40 241 -43 265	24 Su 0329 0915 1526 2133	6 201 0.3 9 223	9 M 0404 1002 1616 2221	-0.9 7.3 -0.9 8.4	24 Tu 0345 0927 1540 2146	3 195 9 223	9 Th 0522 1133 1735 2345	-0.1 6.7 0.2 7.4	24 F 0449 1035 1652 2259	-0.2 6.6 0.2 7.4 -6
10 Su 0420	-1.0 7.5 -10 2240	-30 229 -30 256	25 M 0406 0951 1602 2208	9 195 0.5 15 216	10 Tu 0455 1059 1707 2317	-0.5 7.0 -0.4 7.9	25 W 0425 1007 1622 2227	6 192 12 219	10 F 0610 1228 1622 1828	0.2 6.5 12 0.6	25 Sa 0534 1128 1742 2352	-0.2 6.7 0.3 7.2 -6
11 M 0512	-0.6 1117 -0.6 2338	-18 219 -18 244	26 Tu 0445 1031 1641 2248	12 192 0.6 18 213	11 W 0546 1158 1800	-0.1 6.8 0.1	26 Th 0508 1054 1706 2315	6 192 0.5 15 216	11 Sa 0037 0659 1320 1923	7.0 0.5 6.5 1.0	26 Su 0624 1225 1744 1839	-0.2 6.9 0.3 0.4
12 Tu 0607	-0.1 1217 -0.1	-3 207 -3	27 W 0526 1116 1724 2336	18 189 0.7 210	12 Th 0014 0640 1256 1858	7.5 0.3 6.6 0.6	27 F 0553 1146 1756	9 195 6.0 18	12 Su 0127 0750 1410 ● 2022	6.7 0.6 6.5 1.1	27 M 0048 0718 1322 O 1943	7.2 -0.3 7.2 0.5
13 W 0037	7.6 0.3 1317 ● 1924	232 9 201 12	28 Th 0613 1207 1814	21 189 0.9 27	13 F 0109 0737 1352 ● 1959	7.1 0.6 6.5 0.9	28 Sa 0009 0644 1242 1854	216 6 201 0.7 21	13 M 0215 0841 1459 2119	6.5 0.7 6.6 1.2	28 Tu 0146 0816 1420 2050	7.1 -0.4 7.5 0.4
14 Th 0136	7.2 0.6 1416 2029	219 18 198 18	29 F 0031 0707 1303 ● 1913	210 21 192 0.9	14 Sa 0203 0835 1445 2101	6.9 0.7 6.6 1.0	29 Su 0107 0741 1340 ● 1959	216 0.1 210 0.6 21	14 Tu 0304 0930 1548 2212	6.4 0.7 6.8 1.0	29 W 0244 0915 1518 2156	7.0 -0.5 7.8 0.2
15 F 0234	7.0 0.911 1514 2133	213 21 198 21	30 Sa 0129 0806 1401 2020	6.9 0.6 6.6 0.8	15 Su 0254 0929 1537 2159	6.7 0.7 6.7 0.9	30 M 0205 0840 1438 2107	216 -0.1 223 0.4 12	15 W 0353 0840 1636 2302	6.3 -0.1 7.0 0.9	30 Th 0344 1014 1618 2258	7.0 -0.7 8.1 0.0
31 Tu 0305	7.1 0.939 1537 2213	216 -12 235 3					31 Tu 0939 1537 2213	216 -12 3				

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Savannah River Entrance, Georgia, 2016

Times and Heights of High and Low Waters

July				August				September												
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height									
1 F 0444 1112 1717 2357	h m 7.0 -0.9 8.3 -0.3	ft 213 -27 253 -9	cm 15 15 223 18	16 Sa 0453 1108 1733 2359	h m 6.2 0.5 7.3 0.6	ft 189 15 223 18	cm 15 6 216 253	1 Th 0036 0626 1245 1851	h m -0.1 7.1 -0.6 8.3	ft 216 6.9 -18 253	cm -3 210 6 241	1 Th 0148 0745 1404 2000	h m 0.2 7.5 0.0 8.0	ft 6 229 0 244	cm -9 250 -9 259					
	0544 1208 1814	7.0 -1.0 8.5	213 -30 259		0542 Su 1156 1819	6.4 0.3 7.5	195 9 229		0127 Tu 0718 1337 ● 1940	-0.2 7.2 -0.6 8.2	-6 219 -18 250	3 W 0646 1306 1918	0.1 -0.1 8.1	3 2 210 238	-3 -3 247	0230 F 0827 1448 2040	0.2 7.5 0.2 7.8	6 229 6 238	16 Sa 0707 1335 ○ 1937	0118 8.2 -0.3 8.5	-9 250 -9 259
	0053 0642 1302 1908	-0.5 7.1 -1.0 8.5	-15 216 -30 259		0046 M 0630 1244 1903	0.4 0.1 3	12 3 W 0808 1426 2025	-6 219 -12 247	0215 Th 0732 1356 ○ 2002	-0.2 7.5 -0.3 8.2	-6 229 -9 250	18 3 Sa 0908 1529 2120	0.1 0.4 7.5	9 226 229	18 19 2114	0253 0845 1517 2114	-0.8 8.7 -0.5 8.4	-24 265 -15 256		
	0147 0736 1355 ● 1959	-0.6 7.1 -1.0 8.5	-18 216 -30 259		0131 Tu 0714 1330 ○ 1945	0.1 6.7 0.0	3 4 Th 0854 1512 2109	-6 216 -6 238	0259 F 0233 0818 2047	-0.2 7.1 -0.5 7.7	-6 216 -15 253	4 4 Su 0949 1608 2200	0.5 1608 0.7	15 223 223	19 19 2206	0341 0936 1609 2206	-0.8 8.8 -0.3 8.1	-24 268 -9 247		
5 Tu 0237 0828 1446 2048	h m 7.1 216 -0.8 -24 8.3 253	ft 207	cm 0 241	20 W 0216 0758 1417 2026	h m -0.1 6.8 -0.2 7.9	ft -3 207	cm 0 241	5 F 0340 0940 1555 2152	h m 0.0 7.0 0.1 7.5	ft 0 213	cm 0 241	20 M 0319 0906 1534 2134	h m -0.7 7.9 -0.4 8.1	ft -21 241 -12 247	5 M 0418 1030 1647 2242	h m 0.7 7.2 1.0 7.0	ft 21 219 30 213	20 Tu 1031 1701 2302	0430 8.6 0 7.8	-0.7 262 0 238
	0325 0919 1534 2136	-0.5 7.0 -0.5 7.9	-15 213 -15 241		0300 Th 0841 1503 2108	-0.3 6.9 -0.2 7.9	-9 210	6 210	0419 Sa 1026 1638 2236	0.2 6.9 0.5 7.2	6 210	21 244 241	21 Tu 1114 1727 2326	h m 7.0 1.3 6.7	27 213 204	21 W 1130 1757	0521 8.4 0.3	-0.4 256 9		
	0410 1011 1621 2224	-0.3 6.8 -0.1 7.6	-9 207 216 232		0343 F 0927 1550 2153	-0.5 7.1 -0.2 7.8	-15 216 -6 238	7 Su 1112 1720 2321	0457 M 1112 1720 2321	0.4 6.8 0.8 6.9	12 207 24 210	21 Su 0956 1624 2225	0.7 -0.3 7.9	-21 244 241	6 Tu 1114 1727 2326	h m 7.0 1.3 6.7	27 213 204	21 W 1130 1757	0521 8.4 0.3	-0.4 256 9
	0453 1102 1707 2312	-0.1 6.7 0.3 7.2	-3 204 9 219		0428 Sa 1016 1638 2242	-0.5 7.2 -0.1 7.6	-15 219 -3 232	8 M 1159 1804	0534 Tu 1149 1812	0.6 8.0 1.2 0.3	18 204 37 9	23 Tu 0542 1149 1812	0.5 8.0 244 9	-15 244 241	8 Th 0013 0613 1249 1901	h m 6.5 1.3 6.8 1.7	198 40 207 52	23 F 0104 0717 1333 ○ 2003	7.3 0.3 8.1 0.9	223 9 247 27
9 Sa 0535 1153 1754	h m 6.6 201 0.7	ft 219 21 21	cm 6 201	24 Sa 0514 1110 1729 2336	h m -0.5 7.3 0.1 7.4	ft -15 223 3 226	cm -15 223 226	9 Tu 0007 0614 1247 1852	h m 6.6 0.9 6.7 1.4	ft 201 27 204 43	201 27 244 18	24 W 0018 0636 1249 ○ 1913	h m 7.4 -0.3 8.0 0.6	226 -9 244 18	9 F 0102 0701 1339 ○ 1957	h m 6.4 1.4 6.9 1.8	195 43 210 55	24 Sa 0205 0821 1433 2109	7.1 0.5 7.9 1.0	216 15 241 30
	0000 0617 1243 1844	6.9 0.5 6.5 1.0	210 15 198 30		0603 M 1207 1826	-0.5 7.4 -0.3 0.3	-15 226 9	10 W 0658 1335 ○ 1945	0054 M 1335 1.6	6.4 1.0 6.7 49	195 30 204 49	25 Th 0117 0735 2020	h m 195 -0.1 204	219 -3 241	10 Sa 0153 0758 1431 2057	h m 6.4 1.4 7.0 1.7	195 43 213 52	25 Su 0305 0926 1532 2210	7.1 0.5 7.9 0.9	216 15 241 27
	0048 0701 1331 ● 1937	6.6 0.7 6.5 1.3	201 21 198 40		0032 Tu 0656 1305	7.2 -0.4 7.6	219 -12 232	11 Th 0143 0748 1423 2042	0143 Th 1.1 34 6.7 49	6.3 1.1 6.7 1.6	192 34 204 49	26 F 0217 0838 1449 2126	h m 7.0 0.0 7.9 0.8	213 0 241 24	11 Su 0246 0859 1524 2154	h m 6.5 1.3 7.2 1.4	198 40 219 43	26 M 0404 1026 1628 2304	7.2 0.5 7.9 0.7	219 15 241 21
	0135 0749 1418 2033	6.4 0.8 6.6 1.4	195 24 201 43		0130 W 0754 1404 2035	7.1 -0.4 7.7	216 -12 235	12 F 0232 0842 1513 2139	h m 6.2 1.1 6.9 1.4	189 34 210 43	189 244 241	27 Sa 0317 0941 1548 2228	h m 7.0 0.0 8.0 0.6	213 0 244 18	12 M 0339 0959 1618 2248	h m 6.7 1.0 7.5 1.0	204 30 229 30	27 Tu 0500 1120 1721 2352	7.4 0.4 7.9 0.6	226 12 241 18
13 W 0223 0839 1506 2129	h m 6.3 0.8 6.7 1.3	ft 192 24 204 40	cm 201	28 Th 0229 0856 1503 2141	h m 7.0 -0.4 7.9 0.4	ft -12 241 12 12	cm 213 24 226 12	13 Sa 0323 0938 1605 2233	h m 6.3 0.9 7.1 1.2	192 27 216 37	28 Tu 0417 1041 1647 2324	h m 7.0 0.0 8.0 0.5	213 0 244 15	13 Tu 0434 1056 1711 2340	h m 7.0 0.7 7.8 0.5	213 21 238 15	28 W 0552 1210 1808 2109	7.5 0.3 7.9 1.0	229 9 241 30	
	0312 0929 1555 2222	6.2 0.7 6.9 1.1	189 21 210 34		0328 F 0956 1602 2243	6.9 -0.4 8.0 0.3	210 -12 244 9	14 Su 0415 1032 1656 2324	h m 6.4 0.7 7.3 0.9	195 21 223 27	29 M 0516 1137 1742 1802	h m 7.1 -0.1 8.1 8.1	216 -3 247 247	14 W 0527 1150 1802 1852	h m 7.4 0.3 8.1 7.9	226 9 247 241	29 Th 0037 0638 1257 1852	0.5 0.7 0.3 7.9	15 235 9 241 241	
	0402 1019 1645 2311	6.2 0.6 7.1 0.9	189 18 216 27		0429 Sa 1055 1701 2341	6.9 -0.5 8.1 0.1	210 -15 247 3	15 M 0507 1125 1746	h m 6.6 0.5 7.6	201 15 232 27	30 Tu 0016 0610 1229 1832	h m 0.3 7.3 -0.1 8.1	9 223 -3 247 247	15 Th 0029 0618 1243 1850	h m 0.1 7.8 -0.1 8.4	3 238 -3 256	30 F 0119 0721 1341 ● 1933	0.4 7.8 0.4 7.8	12 238 12 12 238	
	0529 1151 1758	7.0 -0.6 8.2	213 -18 250		0529 Su 1151 1758	7.0 -0.6 8.2	213 -18 250	0104 W 0700 1318 1918	h m 0.2 7.4 0.1	6 226 -3 247	31 W 0700 1318 1918	h m 0.2 7.4 8.1	6 226 -3 247							

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Savannah River Entrance, Georgia, 2016

Times and Heights of High and Low Waters

October				November				December			
Time	Height	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 0157	0.5	15	16 Su 0139	-0.8	-24	1 Tu 0237	0.6	18	1 Th 0259	-1.2	-37
0800	7.9	241	0734	9.1	277	0846	7.8	238	0900	9.2	280
1423	0.5	15	1409	-0.6	-18	1514	0.7	21	1537	-0.7	-21
2011	7.7	235	2003	8.5	259	2058	7.0	213	2129	7.8	238
2 Su 0234	0.5	15	17 M 0229	-1.0	-30	2 W 0313	0.7	21	17 Th 0350	-1.0	-30
0838	7.8	238	0825	9.3	283	0922	7.6	232	0954	8.9	271
1502	0.6	18	1501	-0.6	-18	1552	0.8	24	1628	-0.4	-12
2049	7.5	229	2054	8.4	256	2135	6.8	207	2226	7.5	229
3 M 0309	0.7	21	18 Tu 0319	-0.9	-27	3 Th 0348	0.9	27	18 F 0442	-0.6	-18
0915	7.7	235	0917	9.2	280	0958	7.4	226	1051	8.4	256
1540	0.8	24	1553	-0.5	-15	1630	1.0	30	1720	0.0	0
2127	7.2	219	2147	8.1	247	2214	6.6	201	2326	7.2	219
4 Tu 0343	0.8	24	19 W 0409	-0.7	-21	4 F 0426	1.0	30	19 Sa 0535	-0.1	-3
0952	7.5	229	1012	8.9	271	1037	7.2	219	1149	8.0	244
1617	1.0	30	1646	-0.1	-3	1710	1.1	34	1815	0.3	9
2206	7.0	213	2245	7.7	235	2257	6.5	198			
5 W 0418	1.0	30	20 Th 0501	-0.4	-12	5 Sa 0506	1.1	34	20 Su 0027	7.0	213
1032	7.3	223	1111	8.6	262	1123	7.1	216	0632	0.4	12
1656	1.3	40	1740	0.3	9	1754	1.2	37	1247	7.6	232
2247	6.7	204	2346	7.4	226	2346	6.4	195	1912	0.7	21
6 Th 0454	1.2	37	21 F 0556	0.1	3	6 Su 0553	1.3	40	21 M 0126	6.9	210
1115	7.1	216	1212	8.3	253	1214	7.0	213	0733	0.8	24
1737	1.5	46	1838	0.6	18	1844	1.3	40	1343	7.3	223
2333	6.5	198							2011	0.8	24
7 F 0535	1.4	43	22 Sa 0049	7.2	219	7 M 0040	6.5	198	21 Tu 0010	6.5	198
1203	7.0	213	0656	0.5	15	0647	1.3	40	0622	0.8	24
1824	1.7	52	1313	8.0	244	1310	7.1	216	1237	7.0	213
			1941	0.9	27	1941	1.2	37	1909	0.5	15
8 Sa 0023	6.4	195	23 Su 0150	7.1	216	8 Tu 0137	6.7	204	21 W 0147	6.5	198
0623	1.5	46	0801	0.8	24	0750	1.3	40	0759	0.9	27
1255	7.0	213	1412	7.7	235	1407	7.2	219	1357	6.5	198
1918	1.7	52	2045	1.0	30	2041	0.9	27			
9 Su 0115	6.5	198	24 M 0248	7.1	216	9 W 0234	7.0	213	22 Th 0239	6.5	198
0719	1.5	46	0906	0.9	27	0857	1.0	30	0859	1.0	30
1349	7.1	216	1508	7.6	232	1505	7.4	226	1448	6.3	192
2017	1.6	49	2144	1.0	30	2140	0.5	15	2116	0.7	21
10 M 0210	6.6	201	25 Tu 0345	7.2	219	10 Th 0332	7.5	229	23 Sa 0311	6.6	201
0822	1.4	43	1006	0.8	24	1002	0.7	21	0831	0.7	21
1444	7.3	223	1602	7.5	229	1603	7.6	232	1434	7.0	213
2117	1.3	40	2237	0.8	0	2236	0.0	0	2108	0.0	0
11 Tu 0305	6.9	210	26 W 0439	7.3	223	11 F 0430	8.0	244	19 F 0305	7.4	226
0927	1.2	37	1059	0.7	21	1103	0.2	6	1032	0.9	27
1540	7.5	229	1653	7.5	229	1701	7.8	238	1518	7.1	216
2213	0.9	27	2323	0.7	21	2330	-0.4	-12	2207	-0.3	-9
12 W 0402	7.3	223	27 Th 0528	7.5	229	12 Sa 0527	8.5	259	24 M 0409	7.0	213
1028	0.8	24	1148	0.6	18	1201	-0.2	-6	1103	0.8	24
1636	7.8	238	1740	7.5	229	1757	8.0	244	1706	6.9	210
2307	0.4	12							2332	0.5	15
13 Th 0457	7.8	238	28 F 0006	0.6	18	13 Su 0622	8.9	271	25 Tu 0544	7.4	226
1126	0.3	9	0613	7.7	235	1257	-0.5	-15	1207	0.6	18
1730	8.1	247	1234	0.6	18	1851	8.1	247	1753	6.9	210
2358	-0.1	-3	1823	7.5	229						
14 F 0551	8.3	253	29 Sa 0046	0.5	15	14 M 0115	-1.1	-34	13 F 0053	0.3	9
1221	-0.1	-3	0655	7.9	241	0715	9.2	280	0708	7.7	235
1823	8.4	256	Sa 1317	0.5	15	1352	-0.7	-21	1332	0.4	12
			1905	7.5	229	O 1943	8.2	250	1917	6.9	210
15 Sa 0049	-0.5	-15	30 Su 0124	0.5	15	15 Tu 0207	-1.2	-37	30 W 0210	0.3	9
0643	8.8	268	0734	7.9	241	0807	9.3	283	0823	7.6	232
1316	-0.4	-12	1358	0.5	15	1445	-0.8	-24	1450	0.3	9
O 1913	8.5	259	● 1944	7.4	226	2036	8.0	244	2033	6.7	204
			31 M 0201	0.5	15						
			0810	7.9	241						
			1437	0.6	18						
			2021	7.2	219						

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Fernandina Beach, Amelia River, Florida, 2016

Times and Heights of High and Low Waters

January				February				March			
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height
h m	ft	cm		h m	ft	cm		h m	ft	cm	
1 F 0124	5.4	165		16 Sa 0116	6.3	192		1 F 0215	5.3	162	
0727	1.0	30		0719	-0.1	-3		0832	0.9	27	
1336	5.5	168		1343	6.1	186		1429	5.0	152	
1949	0.7	21		● 1948	-0.5	-15		2037	0.5	15	
2 Sa 0213	5.4	165		17 Su 0217	6.3	192		2 0312	5.4	165	
0823	1.1	34		0825	0.0	0		0928	0.9	27	
1424	5.3	162		1443	5.8	177		1526	4.9	149	
● 2038	0.7	21		2048	-0.5	-15		2130	0.4	12	
3 Su 0306	5.4	165		18 M 0323	6.3	192		3 W 0412	5.5	168	
0919	1.1	34		0931	0.1	3		1023	0.7	192	
1517	5.2	158		1549	5.7	174		1626	5.0	152	
2128	0.6	18		2148	-0.6	-18		2225	0.3	9	
4 M 0403	5.6	171		19 Tu 0431	6.4	195		4 Th 0512	5.8	177	
1012	0.9	27		1034	0.0	0		1116	0.5	15	
1614	5.2	158		1655	5.7	174		1724	5.2	158	
2217	0.4	12		2248	-0.6	-18		2319	0.0	0	
5 Tu 0459	5.8	177		20 W 0534	6.6	201		5 F 0606	6.1	186	
1104	0.7	21		1135	-0.2	-6		1208	0.1	3	
1709	5.3	162		1756	5.8	177		1818	5.5	168	
2306	0.3	9		2345	-0.7	-21		1925	5.9	180	
6 W 0551	6.1	186		21 Th 0632	6.8	207		6 Sa 0011	-0.3	-9	
1154	0.5	15		1232	-0.3	-9		0657	6.5	198	
1801	5.4	165		1852	5.9	180		1257	-0.2	-6	
2354	0.0	0						1909	5.8	177	
7 Th 0640	6.4	195		22 F 0041	-0.8	-24		7 Su 0116	-0.5	-15	
1242	0.2	6		0725	6.9	210		0752	6.6	201	
1850	5.6	171		1324	-0.5	-15		1349	-0.3	-9	
				1944	6.0	183		2011	6.0	183	
8 F 0041	-0.2	-6		23 Sa 0132	-0.8	-24		8 M 0151	-1.0	-30	
0726	6.6	201		0813	6.9	210		0831	7.0	213	
1327	-0.1	-3		1412	-0.5	-15		1428	-0.9	-27	
1937	5.8	177		● 2032	6.0	183		● 2045	6.4	195	
9 Sa 0127	-0.5	-15		24 Su 0220	-0.8	-24		23 Tu 0245	-0.5	-15	
0810	6.8	207		0858	6.9	210		0913	6.4	195	
1411	-0.4	-12		1456	-0.5	-15		1508	-0.3	-9	
● 2022	5.9	180		2117	6.0	183		2133	6.1	186	
10 Su 0211	-0.7	-21		25 M 0304	-0.7	-21		10 W 0326	-1.3	-40	
0854	7.0	213		0940	6.7	204		1004	7.1	216	
1453	-0.6	-18		1536	-0.5	-15		1557	-1.2	-37	
2107	6.0	183		2200	5.9	180		2223	6.7	204	
11 M 0255	-0.8	-24		26 Tu 0347	-0.5	-15		11 Th 0415	-1.2	-37	
0938	7.0	213		1020	6.4	195		1052	6.9	210	
1535	-0.7	-21		1615	-0.3	-9		1644	-1.2	-37	
2153	6.1	186		2241	5.8	177		2313	6.7	204	
12 Tu 0340	-0.9	-27		27 W 0428	-0.2	-6		12 F 0507	-0.9	-27	
1023	7.0	213		1057	6.1	186		1141	6.7	204	
1619	-0.8	-24		1653	-0.1	-3		1733	-1.0	-30	
2240	6.2	189		2320	5.7	174					
13 W 0427	-0.8	-24		28 Th 0510	0.2	6		13 Sa 0005	6.7	204	
1109	6.8	207		1134	5.9	180		0603	-0.6	-18	
1705	-0.7	-21		1731	0.1	3		1232	6.3	192	
2329	6.2	189						1827	-0.8	-24	
14 Th 0519	-0.6	-18		29 F 0000	5.5	168		14 Su 0704	-0.3	-9	
1157	6.6	201		0554	0.5	15		1326	6.0	183	
1755	-0.7	-21		1212	5.6	171		1926	-0.6	-18	
				1812	0.3	9					
15 F 0021	6.3	192		30 Sa 0041	5.4	165		15 M 0200	6.4	195	
0616	-0.3	-9		0643	0.7	21		0809	0.0	0	
1247	6.4	195		1253	5.3	162		1426	5.7	174	
1850	-0.6	-18		1856	0.5	15		● 2028	-0.4	-12	
16 W 0125	5.4	165		31 Su 0736	0.9	27					
				1338	5.1	155					
				● 1944	0.5	15					

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Fernandina Beach, Amelia River, Florida, 2016

Times and Heights of High and Low Waters

April						May						June							
Time		Height		Time		Height		Time		Height		Time		Height		Time		Height	
1 F	0242	5.8	177	16 Sa	0422	6.0	183	1 Su	0313	6.1	186	16 M	0434	5.6	171	1 W	0452	6.1	186
	0903	0.7	21		1026	0.4	12		0928	0.1	3		1038	0.3	9		1053	-0.8	-24
	1508	5.4	165		1654	5.8	177		1544	6.0	183		1712	6.0	183		1727	7.0	213
	2112	0.5	15		2249	0.5	15		2150	0.3	9		2312	0.6	18		2333	-0.4	-12
2 Sa	0348	5.9	180	17 Su	0517	6.0	183	2 M	0418	6.2	189	17 Tu	0524	5.6	171	2 Th	0553	6.3	192
	1001	0.4	12		1116	0.3	9		1025	-0.2	-6		1123	0.2	6		1148	-1.0	-30
	1613	5.7	174		1747	6.0	183		1648	6.4	195		1759	6.2	189		1826	7.3	223
	2215	0.3	9		2342	0.4	12		2252	-0.1	-3								
3 Su	0453	6.2	189	18 M	0606	6.0	183	3 Tu	0520	6.4	195	18 W	0001	0.5	15	3 F	0032	-0.7	-21
	1057	0.1	3		1202	0.2	6		1120	-0.5	-15		0610	5.6	171		0651	6.4	195
	1715	6.1	186		1834	6.2	189		1749	6.9	210		1206	0.2	6		1243	-1.2	-37
	2316	-0.1	-3						2353	-0.4	-12		1843	6.4	195		1923	7.6	232
4 M	0553	6.5	198	19 Tu	0031	0.3	9	4 W	0619	6.6	201	19 Th	0047	0.3	9	4 Sa	0128	-0.9	-27
	1151	-0.3	-9		0650	6.0	183		1214	-0.9	-27		0654	5.7	174		0747	6.4	195
	1814	6.6	201		1245	0.1	3		1846	7.3	223		1248	0.1	3		1337	-1.3	-40
					1916	6.4	195					1925	6.5	198		● 2017	7.7	235	
5 Tu	0015	-0.5	-15	20 W	0117	0.2	6	5 Th	0051	-0.8	-24	20 F	0130	0.2	6	5 Su	0222	-1.0	-30
	0648	6.8	207		0731	6.0	183		0715	6.8	207		0736	5.7	174		0842	6.4	195
	1244	-0.8	-24		1325	0.1	3		1307	-1.2	-37		1328	0.0	0		1429	-1.3	-40
	1909	7.1	216		1957	6.5	198		1941	7.7	235		2005	6.6	201		2111	7.7	235
6 W	0111	-0.9	-27	21 Th	0158	0.1	3	6 F	0146	-1.0	-30	21 Sa	0211	0.1	3	6 M	0313	-0.9	-27
	0740	7.0	213		0811	6.0	183		0809	6.8	207		0818	5.7	174		0937	6.3	192
	1334	-1.1	-34		1402	0.0	0		1359	-1.3	-40		1406	0.0	0		1520	-1.1	-34
	2001	7.5	229		2035	6.6	201		● 2035	7.9	241		2044	6.7	204		2203	7.5	229
7 Th	0204	-1.2	-37	22 F	0237	0.0	0	7 Sa	0239	-1.1	-34	22 Su	0249	0.1	3	7 Tu	0404	-0.8	-24
	0832	7.1	216		0849	6.0	183		0902	6.8	207		0858	5.6	171		1030	6.2	189
	1423	-1.3	-40		1438	0.1	3		1449	-1.3	-40		1442	0.0	0		1610	-0.7	-21
	2054	7.7	235		2112	6.6	201		2128	7.9	241		2123	6.6	201		2254	7.2	219
8 F	0256	-1.3	-40	23 Sa	0314	0.1	3	8 Su	0331	-1.1	-34	23 M	0327	0.1	3	8 W	0454	-0.5	-15
	0923	7.1	216		0927	5.9	180		0956	6.7	204		0939	5.6	171		1122	6.0	183
	1512	-1.4	-43		1512	0.1	3		1540	-1.2	-37		1519	0.1	3		1702	-0.3	-9
	2146	7.8	238		2149	6.5	198		2222	7.7	235		2202	6.5	198		2344	6.8	207
9 Sa	0346	-1.2	-37	24 Su	0350	0.2	6	9 M	0422	-0.9	-27	24 Tu	0404	0.1	3	9 Th	0545	-0.2	-6
	1015	6.9	210		1005	5.7	174		1049	6.5	198		1019	5.5	168		1214	5.9	180
	1600	-1.3	-40		1545	0.2	6		1631	-0.8	-24		1556	0.1	3		1757	0.1	3
	2239	7.7	235		2225	6.4	195		2314	7.4	226		2241	6.4	195		2349	6.4	195
10 Su	0438	-0.9	-27	25 M	0427	0.3	9	10 Tu	0515	-0.5	-15	25 W	0444	0.2	6	10 F	0032	6.4	195
	1107	6.7	204		1043	5.6	171		1143	6.3	192		1101	5.4	165		0638	0.0	0
	1651	-0.9	-27		1620	0.3	9		1724	-0.4	-12		1636	0.2	6		1304	5.7	174
	2332	7.5	229		2302	6.3	192					2322	6.3	192		1854	0.5	15	
11 M	0533	-0.6	-18	26 Tu	0506	0.4	12	11 W	0007	7.1	216	26 Th	0527	0.2	6	11 Sa	0119	6.1	186
	1200	6.4	195		1122	5.5	168		0610	-0.2	-6		1145	5.4	165		0730	0.2	6
	1745	-0.5	-15		1658	0.5	15		1236	6.0	183		1723	0.3	9		1355	5.6	171
					2342	6.2	189		1822	0.1	3					1953	0.7	21	
12 Tu	0026	7.1	216	27 W	0549	0.5	15	12 F	0059	6.7	204	27 Th	0006	6.3	192	12 Sa	0207	5.7	174
	0631	-0.2	-6		1204	5.4	165		0708	0.1	3		0615	0.2	6		0821	0.3	9
	1255	6.1	186		1743	0.6	18		1331	5.8	177		1231	5.5	168		1447	5.6	171
	1844	-0.1	-3						1923	0.4	12		1817	0.4	12		2051	0.8	24
13 W	0122	6.7	204	28 Th	0025	6.1	186	13 F	0152	6.3	192	28 Sa	0054	6.2	189	13 M	0256	5.5	168
	0732	0.1	3		0639	0.6	18		0805	0.3	9		0708	0.1	3		0910	0.3	9
	1352	5.9	180		1250	5.4	165		1427	5.7	174		1323	5.7	174		1539	5.7	174
	● 1947	0.2	6		1837	0.7	21		● 2025	0.6	18		1919	0.4	12		2145	0.8	24
14 Th	0221	6.4	195	29 F	0114	6.1	186	14 Sa	0246	6.0	183	29 Tu	0147	6.1	186	14 Tu	0347	5.4	165
	0833	0.3	9		0734	0.6	18		0900	0.4	12		0804	0.0	0		0956	0.3	9
	1453	5.7	174		1342	5.5	168		1524	5.7	174		1420	5.9	180		1631	5.8	177
	2050	0.4	12		● 1939	0.6	18		2124	0.7	21		● 2024	0.3	9		2236	0.7	21
15 F	0322	6.1	186	30 Sa	0210	6.0	183	15 Su	0341	5.8	177	30 M	0245	6.1	186	15 W	0438	5.3	162
	0932	0.4	12		0831	0.4	12		0951	0.4	12		0900	-0.3	-9		1041	0.2	6
	1555	5.7	174		1440	5.7	174		1620	5.8	177		1521	6.2	189		1720	6.0	183
	2151	0.5	15		2045	0.5	15		2220	0.7	21		2129	0.1	3		2325	0.6	18
																31 Tu	0348	6.1	186
																0957	-0.5	-15	
																1625	6.6	201	
																2232	-0.1	-3	

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to mean lower low water which is the chart datum of soundings.

Fernandina Beach, Amelia River, Florida, 2016

Times and Heights of High and Low Waters

July				August				September				
Time	Height	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 F 0532	6.0	183	16 Sa 0537	5.3	162	1 M 0053	-0.3	-9	1 Th 0208	0.1	3	
1127	-1.0	-30	1132	0.1	3	0712	6.1	186	0833	6.6	201	
1810	7.2	219	1818	6.3	192	1301	-0.7	-21	1424	0.0	0	
						1944	7.2	219	2053	7.0	213	
2 Sa 0014	-0.5	-15	17 Su 0023	0.4	12	2 0145	-0.4	-12	2 0249	0.1	3	
0632	6.0	183	0627	5.4	165	0806	6.2	189	0917	6.6	201	
1223	-1.1	-34	1219	0.0	0	1354	-0.6	-18	1507	0.2	6	
1907	7.4	226	1904	6.5	198	● 2034	7.2	219	2134	6.8	207	
3 Su 0111	-0.6	-18	18 0109	0.2	6	3 W 0233	-0.4	-12	3 Sa 0328	0.2	6	
0729	6.1	186	0715	5.5	168	0856	6.2	189	0959	6.5	198	
1318	-1.1	-34	1305	-0.1	-3	1443	-0.5	-15	1549	0.4	12	
2001	7.4	226	1949	6.7	204	2120	7.0	213	2213	6.5	198	
4 M 0204	-0.7	-21	19 0153	0.0	0	4 Th 0318	-0.3	-9	4 Su 0405	0.4	12	
0824	6.1	186	0801	5.7	174	0944	6.2	189	1039	6.4	195	
1411	-1.1	-34	1350	-0.3	-9	1529	-0.3	-15	1630	0.7	21	
● 2053	7.4	226	○ 2034	6.8	207	2204	6.8	207	2251	6.3	192	
5 Tu 0255	-0.7	-21	20 0235	-0.2	-6	5 F 0400	-0.2	-6	5 M 0441	0.6	18	
0917	6.1	186	0847	5.8	177	1030	6.1	186	1118	6.3	192	
1501	-0.9	-27	1434	-0.4	-12	1614	0.1	3	1712	0.9	27	
2143	7.2	219	2117	6.8	207	2246	6.5	198	2329	6.1	186	
6 W 0342	-0.6	-18	21 0316	-0.4	-12	6 Sa 0441	0.0	0	6 Tu 0519	0.8	24	
1009	6.0	183	0934	5.9	180	1114	6.0	183	1158	6.3	192	
1550	-0.6	-18	1518	-0.4	-12	1659	0.4	12	1756	1.2	37	
2231	6.9	210	2202	6.8	207	2326	6.2	189	2135	7.0	213	
7 Th 0429	-0.4	-12	22 0358	-0.5	-15	7 Su 0522	0.3	9	7 W 0008	5.9	180	
1058	5.9	180	1021	6.0	183	1156	5.9	180	0600	1.0	30	
1639	-0.2	-6	1604	-0.4	-12	1746	0.7	21	M 1735	-0.1	-3	
2317	6.6	201	2246	6.7	204	22	0507	-0.6	-18	0048	6.8	207
8 F 0515	-0.2	-6	23 0442	-0.5	-15	8 M 0005	5.9	180	0635	0.0	0	
1146	5.8	177	1109	6.1	186	0604	0.5	15	Th 1316	7.4	226	
1729	0.2	6	1654	-0.2	-6	1238	5.9	180	1921	0.6	18	
			2333	6.6	201	1836	1.0	30	22 0043	6.8	207	
9 Sa 0000	6.2	189	24 0530	-0.5	-15	9 Tu 0046	5.7	174	W 0645	1.1	34	
0602	0.0	0	1159	6.3	192	0648	0.6	18	1324	6.1	186	
1232	5.7	174	1749	-0.1	-3	1322	5.8	177	1938	1.5	46	
1821	0.5	15				1928	1.2	37	● 2025	0.7	21	
10 Su 0043	5.9	180	25 0021	6.5	198	10 W 0129	5.5	168	23 0140	6.5	198	
0649	0.2	6	0621	-0.5	-15	0735	0.7	21	0645	1.1	34	
1318	5.6	171	1251	6.4	195	1408	5.8	177	1416	7.2	219	
1916	0.8	24	1849	0.1	3	● 2022	1.2	37	○ 2032	1.5	46	
11 M 0126	5.6	171	26 0112	6.3	192	11 Th 0216	5.4	165	24 0242	6.4	195	
0737	0.3	9	0717	-0.5	-15	0824	0.7	21	0736	1.1	34	
1405	5.6	171	Tu 1347	6.5	198	1500	5.9	180	1414	6.1	186	
● 2012	0.9	27	○ 1952	0.2	6	2115	1.2	37	○ 2032	1.5	46	
12 Tu 0211	5.4	165	27 0208	6.1	186	12 F 0308	5.3	162	25 0346	6.3	192	
0824	0.4	12	0814	-0.6	-18	0914	0.7	21	0831	1.1	34	
1454	5.6	171	1448	6.6	201	1554	6.0	183	1510	6.2	189	
2105	0.9	27	2056	0.2	6	2206	1.1	34	2125	1.4	43	
13 W 0300	5.2	158	28 0309	6.0	183	13 Sa 0403	5.4	165	11 0324	5.6	171	
0911	0.4	12	0913	-0.6	-18	1005	0.6	18	0926	1.0	30	
1546	5.8	177	1551	6.8	207	1650	6.2	189	1608	6.4	195	
2157	0.9	27	2159	0.1	3	2257	0.9	27	2218	1.2	37	
14 Th 0351	5.2	158	29 0413	5.9	180	14 T 0459	5.5	168	26 0448	6.4	195	
0958	0.3	9	F 1011	-0.6	-18	1056	0.4	12	1041	0.5	15	
1638	5.9	180	1655	6.9	210	1743	6.4	195	1720	7.0	213	
2247	0.8	24	2259	0.0	0	2347	0.6	18	2225	0.7	21	
15 F 0445	5.2	158	30 0516	5.9	180	15 M 0553	5.7	174	27 0546	6.6	201	
1045	0.2	6	Sa 1109	-0.7	-21	1147	0.2	6	1022	0.8	24	
1729	6.1	186	1756	7.1	216	1832	6.7	204	1705	6.6	201	
2336	0.6	18	2358	-0.1	-3				2309	0.9	27	
16 Sa 0616	6.0	183	31 0123	0.1	3	27 0400	6.1	186	27 0546	6.6	201	
1206	-0.7	-21	W 1206	7.2	219	0956	-0.1	-3	1117	0.5	15	
1852	7.2	219				1641	7.0	213	1759	6.9	210	
						2243	0.4	12	1230	0.4	12	
						2340	0.3	9	1900	7.0	213	
						2340	0.3	9	● 2024	6.9	210	

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Fernandina Beach, Amelia River, Florida, 2016

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	0219	0.4	12	16 Su	0156	-0.6	-18	1 Tu	0259	0.6	18	16 W	0313	-1.0	-30
	0849	7.0	213		0825	8.1	247		0936	7.0	213		0954	8.3	253
	1445	0.5	15		1427	-0.5	-15		1537	0.7	21		1554	-0.5	-15
	2102	6.7	204		2052	7.6	232		2148	6.2	189		2219	7.1	216
2 Su	0255	0.5	15	17 M	0244	-0.8	-24	2 W	0333	0.7	21	17 Th	0404	-0.8	-24
	0927	6.9	210		0918	8.2	250		1013	6.9	210		1048	8.0	244
	1524	0.6	18		1518	-0.5	-15		1613	0.9	27		1646	-0.3	-9
	2140	6.6	201		2144	7.5	229		2226	6.1	186		2313	6.9	210
3 M	0330	0.6	18	18 Tu	0333	-0.8	-24	3 Th	0407	0.8	24	18 F	0457	-0.4	-12
	1005	6.8	207		1011	8.2	250		1051	6.8	207		1141	7.7	235
	1602	0.8	24		1610	-0.3	-9		1651	1.0	30		1741	0.0	0
	2217	6.4	195		2237	7.3	223		2305	6.0	183				
4 Tu	0404	0.8	24	19 W	0423	-0.6	-18	4 F	0444	1.0	30	19 Sa	0007	6.6	201
	1043	6.7	204		1106	8.1	247		1130	6.6	201		0553	0.1	3
	1641	1.1	34		1704	0.0	0		1733	1.2	37		1235	7.3	223
	2255	6.2	189		2331	7.1	216		2346	5.8	177		1838	0.3	9
5 W	0439	1.0	30	20 Th	0516	-0.2	-6	5 Sa	0525	1.1	34	20 Su	0103	6.4	195
	1121	6.6	201		1201	7.8	238		1211	6.5	198		0654	0.5	15
	1721	1.3	40		1801	0.3	9		1819	1.3	40		1329	6.9	210
	2334	6.0	183									1937	0.6	18	
6 Th	0517	1.1	34	21 F	0026	6.8	207	6 Su	0030	5.8	177	21 M	0200	6.2	189
	1201	6.5	198		0614	0.2	6		0615	1.2	37		0757	0.8	24
	1806	1.5	46		1257	7.5	229		1257	6.4	195		1425	6.6	201
					1902	0.6	18		1911	1.2	37		2036	0.7	21
7 F	0016	5.9	180	22 Sa	0124	6.6	201	7 M	0119	5.8	177	22 Tu	0300	6.1	186
	0600	1.3	40		0717	0.5	15		0713	1.2	37		0900	0.9	27
	1245	6.4	195		1356	7.2	219		1349	6.4	195		1521	6.3	192
	1855	1.6	49		2005	0.8	24		2007	1.1	34		2130	0.7	21
8 Sa	0101	5.8	177	23 Su	0224	6.4	195	8 Tu	0214	6.0	183	23 W	0359	6.2	189
	0651	1.4	43		0821	0.7	21		0817	1.1	34		0958	1.0	30
	1333	6.4	195		1456	7.0	213		1447	6.4	195		1616	6.1	186
	1950	1.6	49		2105	0.8	24		2103	0.9	27		2220	0.6	18
9 Su	0151	5.8	177	24 M	0327	6.4	195	9 W	0315	6.2	189	24 Th	0454	6.3	192
	0749	1.4	43		0924	0.8	24		0921	0.9	27		1053	0.9	27
	1427	6.4	195		1556	6.8	207		1549	6.5	198		1708	6.1	186
	2045	1.4	43		2201	0.8	24		2158	0.5	15		2308	0.6	18
10 M	0247	5.9	180	25 Tu	0428	6.4	195	10 Th	0418	6.6	201	25 F	0545	6.5	198
	0850	1.2	37		1023	0.9	27		1023	0.6	18		1144	0.8	24
	1526	6.5	198		1653	6.7	204		1650	6.7	204		1756	6.1	186
	2140	1.2	37		2253	0.7	21		2253	0.1	3		2353	0.5	15
11 Tu	0348	6.1	186	26 W	0524	6.6	201	11 F	0519	7.0	213	26 Sa	0630	6.7	204
	0950	1.0	30		1118	0.8	24		1123	0.3	9		1231	0.7	21
	1627	6.7	204		1744	6.7	204		1749	6.9	210		1840	6.1	186
	2233	0.8	24		2342	0.7	21		2347	-0.3	-9				
12 W	0448	6.5	198	27 Th	0614	6.8	207	12 Sa	0617	7.5	229	27 Tu	0035	0.4	12
	1049	0.7	21		1209	0.7	21		1221	-0.1	-3		0712	6.8	207
	1724	7.0	213		1831	6.7	204		1844	7.1	216		1315	0.5	15
	2325	0.5	15									1922	6.1	186	
13 Th	0546	6.9	210	28 F	0027	0.6	18	13 Su	0040	-0.6	-18	28 W	0116	0.3	9
	1146	0.3	9		0659	6.9	210		0712	7.9	241		0751	7.9	241
	1819	7.2	219		1257	0.7	21		1317	-0.4	-12		1357	0.4	12
					1913	6.6	201		1938	7.2	219		2003	6.1	186
14 F	0017	0.0	0	29 Sa	0108	0.5	15	14 M	0132	-0.9	-27	29 Tu	0154	0.3	9
	0640	7.4	226		0741	7.1	216		0806	8.2	250		0832	6.9	210
	1242	0.0	0		1341	0.6	18		1411	-0.6	-18		1435	0.4	12
	1910	7.4	226		1953	6.6	201		2031	7.3	223		2043	6.0	183
15 Sa	0107	-0.3	-9	30 Su	0147	0.5	15	15 Tu	0223	-1.0	-30	30 W	0231	0.3	9
	0733	7.8	238		0820	7.1	216		0900	8.3	253		0911	6.9	210
	1335	-0.3	-9		1421	0.6	18		1502	-0.7	-21		1512	0.4	12
	2001	7.6	232		2032	6.5	198		2125	7.2	219		2122	6.0	183
31 Sa	0224	0.5	15	31 M	0858	7.1	216					31 Th	0322	-0.2	-6
	1500	0.6	18		1500	6.6	201					1005	6.6	201	
	2110	6.4	195									1602	-0.1	-3	
												2218	5.7	174	

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Mayport, Florida, 2016

Times and Heights of High and Low Waters

January				February				March						
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height			
h m	ft	cm		h m	ft	cm		h m	ft	cm				
1 F 0116	4.1	125		16 0111	4.6	140		1 F 0202	4.0	122				
0722	0.7	21	Sa	0706	-0.1	-3	M	0821	0.8	24	Tu	0908	0.0	0
1326	4.2	128		1333	4.4	134		1416	3.8	116		1533	4.0	122
1944	0.5	15	O	1934	-0.4	-12		2016	0.4	12		2121	-0.3	-9
2 Sa 0207	4.1	125		17 0215	4.6	140		2 0259	4.0	122		17 W 0416	4.6	140
0818	0.9	27	Su	0815	0.0	0	Tu	0916	0.8	24	W	1011	-0.1	-3
1415	4.1	125		1438	4.2	128		1514	3.7	113		1640	4.0	122
2031	0.6	18		2036	-0.4	-12		2108	0.4	12		2223	-0.4	-12
3 Su 0301	4.2	128		18 0325	4.6	140		3 W 0400	4.1	125		18 Th 0518	4.7	143
0912	0.9	27	M	0922	0.0	0		1009	0.6	18		Th 1110	-0.2	-6
1509	4.0	122		1547	4.1	125		1613	3.7	113		1740	4.1	125
2116	0.5	15		2137	-0.5	-15		2201	0.2	6		2321	-0.5	-15
4 M 0357	4.3	131		19 0432	4.7	143		4 Th 0457	4.3	131		4 F 0613	4.7	143
1004	0.8	24	Tu	1026	-0.1	-3		1101	0.4	12		F 1204	-0.3	-9
1604	3.9	119		1653	4.1	125		1711	3.8	116		1833	4.2	128
2202	0.4	12		2237	-0.6	-18		2254	-0.1	-3				
5 Tu 0449	4.4	134		20 W 0533	4.9	149		5 F 0550	4.5	137		5 Sa 0015	-0.6	-18
1054	0.7	21		1126	-0.3	-9		1151	0.1	3		Sa 0702	4.8	146
1657	4.0	122		1753	4.1	125		1804	4.0	122		Sa 1253	-0.5	-15
2247	0.2	6		2334	-0.7	-21		2346	-0.4	-12		1921	4.3	131
6 W 0538	4.5	137		21 Th 0628	4.9	149		6 Sa 0639	4.7	143		6 Su 0104	-0.7	-21
1142	0.4	12		1221	-0.5	-9		1237	-0.3	-9		Su 0746	4.8	146
1747	4.0	122		1848	4.2	128		1854	4.2	128		Su 1337	-0.6	-18
2332	0.0	0										2005	4.3	131
7 Th 0624	4.7	143		22 F 0028	-0.8	-24		7 Su 0036	-0.8	-24		7 M 0149	-0.7	-21
1227	0.2	6		0719	5.0	152		0726	4.9	149		M 0827	4.7	143
1835	4.1	125		1312	-0.6	-18		1322	-0.6	-18		O 1417	-0.6	-18
				1938	4.2	128		1943	4.3	131		O 2045	4.3	131
8 F 0016	-0.3	-9		23 Sa 0118	-0.9	-27		8 M 0124	-1.0	-30		8 Tu 0230	-0.7	-21
0708	4.8	146		0806	5.0	152		0813	5.0	152		Tu 0904	4.6	140
1309	-0.1	-3		1359	-0.7	-21		1405	-0.9	-27		1454	-0.6	-18
1921	4.2	128	O	2025	4.2	128		● 2031	4.5	137		2123	4.3	131
9 Sa 0059	-0.5	-15		24 W 0205	-0.9	-27		9 Tu 0211	-1.2	-37		9 W 0309	-0.6	-18
0752	4.9	149		0850	4.9	149		0859	5.1	155		W 0939	4.5	137
1349	-0.3	-9		1442	-0.7	-21		1448	-1.1	-34		1528	-0.4	-12
● 2007	4.2	128		2109	4.2	128		2120	4.7	143		2159	4.3	131
10 Su 0142	-0.7	-21		25 M 0248	-0.8	-24		10 W 0300	-1.2	-37		10 Th 0346	-0.4	-12
0835	5.0	152		0930	4.8	146		0947	5.0	152		Th 1013	4.4	134
1429	-0.5	-15		1522	-0.6	-18		1533	-1.2	-37		1600	-0.2	-6
2052	4.3	131		2150	4.2	128		2210	4.8	146		2233	4.3	131
11 M 0226	-0.8	-24		26 Tu 0330	-0.6	-18		11 Th 0350	-1.1	-34		11 F 0424	-0.1	-3
0920	5.1	155		1008	4.6	140		1035	4.9	149		F 1047	4.3	131
1510	-0.6	-18		1602	-0.5	-15		1621	-1.1	-34		F 1631	0.0	0
2139	4.4	134		2230	4.1	125		2301	4.8	146		2308	4.3	131
12 Tu 0311	-0.8	-24		27 W 0412	-0.4	-12		12 F 0445	-0.9	-27		12 Sa 0502	0.2	6
1005	5.1	155		1045	4.5	137		1125	4.8	146		Sa 1123	4.2	128
1554	-0.7	-21		1640	-0.2	-6		1713	-0.9	-27		1704	0.2	6
2228	4.5	137		2308	4.1	125		2355	4.8	146		2345	4.2	128
13 W 0400	-0.7	-21		28 Th 0455	-0.1	-3		13 Sa 0546	-0.6	-18		13 Su 0545	0.5	15
1052	5.0	152		1121	4.3	131		1219	4.5	137		Su 1201	4.0	122
1642	-0.6	-18		1719	0.0	0		1811	-0.7	-21		1742	0.3	9
2319	4.5	137		2347	4.0	122								
14 Th 0455	-0.5	-15		29 F 0542	0.3	9		14 Su 0053	4.7	143		14 M 0025	4.2	128
1141	4.8	146		1159	4.2	128		0653	-0.3	-9		M 0633	0.7	21
1735	-0.6	-18		1759	0.2	6		1317	4.3	131		1244	3.9	119
15 F 0012	4.6	140		30 Sa 0027	4.0	122		1914	-0.5	-15		1827	0.5	15
0557	-0.3	-9		0632	0.5	15								
1234	4.6	140		1239	4.0	122								
1833	-0.5	-15		1841	0.4	12								
16 31 0112	4.0	122		31 Su 0726	0.7	21								
				1324	3.9	119								
				● 1927	0.4	12								

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Mayport, Florida, 2016

Times and Heights of High and Low Waters

April					May					June				
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time
1 F 0224 4.4 134 0840 0.7 21 1457 4.1 125 2045 0.4 12	16 Sa 0425 4.6 140 1019 0.3 9 1656 4.5 137 2242 0.3 9	1 Su 0257 4.6 140 0906 0.2 6 1537 4.5 137 2127 0.2 6	16 M 0436 4.3 131 1031 0.3 9 1712 4.6 140 2304 0.5 15	1 W 0441 4.5 137 1033 0.6 18 1721 5.2 158 2317 0.4 12	16 Th 0524 4.0 122 1115 0.2 6 1802 4.7 143									
2 Sa 0332 4.5 137 0939 0.4 12 1603 4.3 131 2150 0.2 6	17 Su 0518 4.6 140 1109 0.2 6 1747 4.6 140 2334 0.2 6	2 M 0403 4.7 143 1003 -0.1 -3 1640 4.8 146 2232 -0.1 -3	17 Tu 0524 4.3 131 1116 0.2 6 1757 4.7 143 2353 0.4 12	2 Th 0543 4.6 140 1129 -0.9 -27 1819 5.4 165	17 F 0005 0.4 12 0609 4.0 122 1156 0.1 3 1843 4.8 146									
3 Su 0437 4.6 140 1036 0.1 3 1705 4.5 137 2254 -0.2 -6	18 M 0605 4.5 137 1155 0.1 3 1832 4.7 143	3 Tu 0506 4.8 146 1059 -0.5 -15 1740 5.1 155 2334 -0.4 -12	18 W 0608 4.3 131 1158 0.2 6 1839 4.8 146	3 F 0017 -0.6 -18 0641 4.6 140 1224 -1.1 -34 1914 5.5 168	18 Sa 0049 0.2 6 0653 4.0 122 1235 0.0 0 1924 4.8 146									
4 M 0536 4.8 146 1130 -0.3 -9 1802 4.9 149 2353 -0.6 -18	19 Tu 0022 0.1 3 0647 4.5 137 1237 0.0 0 1912 4.8 146	4 W 0605 4.8 146 1154 -0.8 -24 1836 5.4 165	19 Th 0038 0.2 6 0649 4.2 128 1237 0.1 3 1918 4.9 149	4 Sa 0113 -0.9 -27 0737 4.6 140 1318 -1.2 -37 2008 5.6 171	19 Su 0129 0.1 3 0736 4.0 122 1312 -0.1 -3 2003 4.9 149									
5 Tu 0631 5.0 152 1222 -0.7 -21 1856 5.2 158	20 W 0106 0.0 0 0726 4.5 137 1314 -0.1 -3 1950 4.8 146	5 Th 0032 -0.8 -24 0701 4.9 149 1246 -1.1 -34 1930 5.6 171	20 F 0120 0.1 3 0729 4.2 128 1312 0.0 0 1955 4.9 149	5 Su 0206 -1.0 -30 0832 4.6 140 1409 -1.2 -37 2101 5.6 171	20 M 0206 0.0 0 0819 4.0 122 1348 -0.2 -6 2043 4.9 149									
6 W 0049 -0.9 -27 0724 5.1 155 1312 -1.1 -34 1949 5.4 165	21 Th 0147 -0.1 -3 0803 4.4 134 1348 -0.1 -3 2025 4.9 149	6 F 0127 -1.0 -30 0755 4.9 149 1337 -1.2 -37 2023 5.7 174	21 Sa 0158 0.0 0 0808 4.2 128 1345 0.0 0 2031 4.9 149	6 M 0257 -1.0 -30 0926 4.5 137 1500 -1.0 -30 2152 5.4 165	21 Tu 0242 -0.1 -3 0901 4.1 125 1426 -0.2 -6 2123 4.9 149									
7 Th 0142 -1.2 -37 0816 5.1 155 1400 -1.3 -40 2041 5.6 171	22 F 0224 -0.1 -3 0839 4.4 134 1419 -0.1 -3 2100 4.8 146	7 Sa 0220 -1.1 -34 0849 4.9 149 1427 -1.2 -37 2116 5.7 174	22 Su 0234 0.0 0 0847 4.1 125 1416 0.0 0 2108 4.9 149	7 Tu 0349 -0.8 -24 1019 4.5 137 1553 -0.7 -21 2242 5.2 158	22 W 0318 -0.1 -3 0944 4.1 125 1505 -0.2 -6 2204 4.9 149									
8 F 0234 -1.2 -37 0907 5.1 155 1448 -1.3 -40 2133 5.6 171	23 Sa 0258 0.0 0 0915 4.3 131 1447 0.0 0 2133 4.8 146	8 Su 0312 -1.1 -34 0943 4.8 146 1518 -1.1 -34 2209 5.6 171	23 M 0307 0.0 0 0926 4.1 125 1449 0.0 0 2145 4.8 146	8 W 0441 -0.6 -18 1111 4.4 134 1647 -0.4 -12 2332 5.0 152	23 Th 0356 -0.1 -3 1029 4.2 128 1549 -0.1 -3 2246 4.9 149									
9 Sa 0326 -1.1 -34 1000 5.0 152 1538 -1.1 -34 2226 5.6 171	24 Su 0331 0.1 3 0951 4.3 131 1516 0.1 3 2208 4.8 146	9 M 0406 -0.9 -27 1037 4.7 143 1611 -0.7 -21 2302 5.4 165	24 Tu 0341 0.1 3 1006 4.1 125 1525 0.1 3 2223 4.8 146	9 Th 0535 -0.3 -9 1203 4.3 131 1746 0.0 0 2331 4.8 146	24 F 0439 -0.1 -3 1114 4.3 131 1639 0.0 0 2331 4.8 146									
10 Su 0421 -0.9 -27 1053 4.8 146 1631 -0.8 -24 2320 5.4 165	25 M 0404 0.3 9 1028 4.2 128 1549 0.2 6 2244 4.7 143	10 Tu 0502 -0.6 -18 1131 4.5 137 1709 -0.4 -12 2356 5.2 158	25 W 0417 0.2 6 1047 4.1 125 1606 0.2 6 2303 4.8 146	10 F 0021 4.8 146 0630 -0.1 -3 1256 4.3 131 1847 0.3 9	25 Sa 0527 -0.1 -3 1203 4.4 134 1736 0.1 3									
11 M 0519 -0.6 -18 1148 4.6 140 1729 -0.4 -12	26 Tu 0439 0.4 12 1107 4.2 128 1628 0.4 12 2322 4.7 143	11 W 0601 -0.3 -9 1227 4.4 134 1811 0.0 0 2347 4.8 146	26 Th 0459 0.2 6 1131 4.2 128 1654 0.3 9 2347 4.8 146	11 Sa 0110 4.6 140 0724 0.1 3 1350 4.3 131 1947 0.5 15	26 Su 0019 4.8 146 0621 -0.2 -6 1256 4.5 137 1841 0.2 6									
12 Tu 0016 5.2 158 0622 -0.2 -6 1246 4.4 134 1834 -0.1 -3	27 W 0521 0.5 15 1149 4.1 125 1715 0.5 15	12 Th 0050 4.9 149 0701 0.0 0 1325 4.3 131 1916 0.3 9	27 F 0548 0.3 9 1219 4.2 128 1750 0.4 12 2317 0.7 21	12 Su 0201 4.4 134 0814 0.2 6 1445 4.3 131 2043 0.6 18	27 M 0112 4.7 143 0718 -0.2 -6 1354 4.7 143 1949 0.2 6									
13 W 0116 4.9 149 0726 0.0 0 1349 4.3 131 1940 0.2 6	28 Th 0005 4.7 143 0611 0.6 18 1236 4.2 128 1810 0.6 18	13 F 0148 4.7 143 0759 0.2 6 1426 4.3 131 2019 0.5 15	28 Sa 0035 4.7 143 0643 0.2 6 1312 4.3 131 1854 0.4 12	13 M 0253 4.2 128 0902 0.3 9 1539 4.4 134 2137 0.7 21	28 Tu 0211 4.5 137 0815 -0.3 -9 1458 4.8 146 2056 0.1 3									
14 Th 0220 4.7 143 0828 0.2 6 1455 4.3 131 2045 0.3 9	29 F 0055 4.7 143 0708 0.6 18 1330 4.2 128 1912 0.6 18	14 Sa 0246 4.5 137 0853 0.3 9 1526 4.4 134 2117 0.6 18	29 M 0129 4.7 143 0740 0.1 3 1411 4.5 137 2002 0.3 9	14 Tu 0345 4.1 125 0948 0.3 9 1630 4.5 137 2229 0.6 18	29 W 0316 4.4 134 0914 -0.5 -15 1603 5.0 152 2200 0.0 0									
15 F 0325 4.6 140 0926 0.3 9 1559 4.3 131 2145 0.4 12	30 Sa 0152 4.6 140 0807 0.4 12 1431													

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to mean lower low water which is the chart datum of soundings.

Mayport, Florida, 2016

Times and Heights of High and Low Waters

July				August				September					
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height		
h m	ft	cm		h m	ft	cm		h m	ft	cm			
1 F 0526	4.3	131		16 Sa 0529	4.0	122		1 Th 0043	-0.3	-9			
1110	-0.8	-24		1114	0.3	9		16 Tu 0019	0.5	15			
1805	5.3	162	Sa	1807	4.8	146	M	0710	4.5	137			
								16 Tu 0632	4.5	137			
								1213	0.1	3			
								1903	5.3	162			
								● 2045	5.3	162			
									16 0112	-0.1	-3		
									0743	5.6	171		
									1329	-0.2	-6		
									2008	5.8	177		
2 Sa 0003	-0.5	-15		17 Su 0013	0.4	12		2 W 0133	-0.4	-12			
0626	4.4	134		0617	4.0	122		17 W 0721	0.2	6			
1207	-0.9	-27	Su	1159	0.1	3		1430	-0.1	-3			
1901	5.4	165		1851	4.9	149	●	1948	5.4	165			
								2124	5.2	158			
									2057	5.7	174		
3 Su 0058	-0.7	-21		18 M 0056	0.2	6		3 W 0220	-0.5	-15			
0723	4.4	134		0704	4.1	125		18 Th 0809	-0.1	-3			
1302	-1.0	-30	M	1242	-0.1	-3		1347	-0.3	-9			
1954	5.4	165		1934	5.0	152		○ 2034	5.4	165			
								2201	5.1	155			
									2148	5.7	174		
4 M 0151	-0.8	-24		19 Tu 0136	0.0	0		4 Th 0304	-0.4	-12			
0817	4.4	134		0750	4.2	128		19 F 0936	4.6	140			
1354	-1.0	-30	Tu	1323	-0.3	-9		1513	-0.3	-9			
● 2045	5.4	165		2017	5.0	152		2153	5.1	155			
									2121	5.5	168		
									2237	4.9	149		
										2240	5.5	168	
5 Tu 0240	-0.8	-24		20 W 0214	-0.2	-6		5 F 0346	-0.3	-9			
0909	4.4	134		0835	4.3	131		1019	4.6	140			
1444	-0.9	-27		1406	-0.4	-12		1559	-0.1	-3			
2133	5.3	162		2100	5.1	155		2233	4.9	149			
									2208	5.4	165		
									2314	4.8	146		
										2334	5.4	165	
6 W 0328	-0.7	-21		21 Th 0252	-0.3	-9		6 Sa 0427	0.0	0			
0959	4.4	134		0921	4.4	134		1101	4.6	140			
1533	-0.6	-18		1449	-0.4	-12		1646	0.3	9			
2220	5.1	155		2143	5.1	155		2312	4.8	146			
									2257	5.3	162		
									2353	4.7	143		
										21	0517	0.0	0
										W 1208	5.9	180	
										1807	0.5	15	
7 Th 0416	-0.5	-15		22 F 0333	-0.4	-12		7 Su 0509	0.2	6			
1047	4.4	134		1008	4.5	137		1142	4.6	140			
1624	-0.3	-9		1536	-0.3	-9		1735	0.6	18			
2304	4.9	149		2228	5.1	155		2351	4.6	140			
									2349	5.1	155		
										22	0032	5.2	158
										Th 0620	0.3	9	
										1308	5.8	177	
										1914	0.7	21	
8 F 0504	-0.3	-9		23 Sa 0417	-0.4	-12		8 M 0552	0.4	12			
1134	4.3	131		1056	4.7	143		1224	4.6	140			
1717	0.0	0		1628	-0.2	-6		1828	0.9	27			
2347	4.7	143		2315	5.0	152				9 01819	0.3	9	
										0035	4.6	140	
										0622	1.2	37	
										1306	4.9	149	
										1927	1.5	46	
										● 2020	1.6	49	
9 Sa 0552	-0.1	-3		24 Su 0505	-0.4	-12		9 Tu 0031	4.5	137			
1221	4.3	131		1147	4.8	146		0635	0.6	18			
1812	0.4	12		1725	0.0	0		1307	4.6	140			
								1921	1.1	34			
								● 1927	0.5	15			
										9 01227	4.6	140	
										24 0242	5.0	152	
										● 0832	0.6	18	
										9 1357	5.0	152	
										● 2020	1.6	49	
10 Su 0030	4.5	137		25 M 0004	4.9	149		10 W 0114	4.4	134			
0641	0.2	6		0559	-0.3	-9		0721	0.8	24			
1308	4.3	131		1240	4.9	149		1355	4.6	140			
1909	0.6	18		1830	0.2	6		● 2014	1.2	37			
										2034	0.5	15	
										2112	1.5	46	
										2219	0.8	24	
11 M 0114	4.3	131		26 Tu 0057	4.7	143		11 Th 0203	4.3	131			
0729	0.3	9		0657	-0.3	-9		0807	0.9	27			
1357	4.3	131		1339	5.0	152		1447	4.6	140			
● 2005	0.8	24		● 1938	0.3	9		2106	1.2	37			
										2137	0.5	15	
										2202	1.3	40	
										2313	0.7	21	
12 Tu 0201	4.2	128		27 W 0157	4.6	140		12 F 0256	4.2	128			
0815	0.4	12		0757	-0.3	-9		0855	0.8	24			
1448	4.4	134		1443	5.0	152		1543	4.7	143			
2058	0.9	27		2045	0.3	9		2157	1.1	34			
										2237	0.5	15	
										2252	1.0	30	
13 W 0251	4.1	125		28 Th 0303	4.4	134		13 Sa 0353	4.2	128			
0900	0.5	15		0857	-0.3	-9		0944	0.7	21			
1541	4.4	134		1550	5.1	155		1637	4.8	146			
2149	0.9	27		2149	0.2	6		2246	1.0	30			
										2333	0.3	9	
										2340	0.7	21	
										2356	5.6	171	
14 Th 0344	4.0	122		29 F 0411	4.4	134		14 Su 0449	4.3	131			
0945	0.5	15		0957	-0.3	-9		1034	0.6	18			
1632	4.5	137		1654	5.2	158		1729	5.0	152			
2239	0.8	24		2250	0.1	3		2334	0.8	24			
										2334	0.8	24	
15 F 0438	4.0	122		30 Sa 0515	4.4	134		15 M 0542	4.4	134			
1030	0.4	12		1057	-0.4	-12		1124	0.4	12			
1721	4.6	140		1754	5.3	162		1817	5.1	155			
2328	0.6	18		2349	-0.1	-3				1920	5.5	168	
										● 1919	5.7	174	
										31 W 0615	4.5	137	
										1154	-0.5	-15	
										1848	5.4	165	

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Mayport, Florida, 2016

Times and Heights of High and Low Waters

October				November				December			
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height
1 Sa 0205 0.4 12	16 0130 -0.4 -12	1 Tu 0237 0.6 18	16 0249 -0.7 -21	1 Th 0239 0.3 9	16 0326 -0.9 -27	Sa 0841 5.4 165	Su 0811 6.2 189	W 0941 6.2 189	W 1536 -0.4 -12	Th 0932 5.1 155	F 1017 5.6 171
1431 0.5 15	1404 -0.3 -9	1520 0.8 24	2135 4.8 146	1529 0.5 15	1612 -0.6 -18	1431 0.5 15	1404 -0.3 -9	1520 0.8 24	2135 4.8 146	1529 0.5 15	1612 -0.6 -18
2053 5.2 158	2035 5.8 177	2135 4.8 146	2206 5.2 158	2148 4.4 134	2243 4.7 143	2053 5.2 158	2035 5.8 177	2135 4.8 146	2206 5.2 158	2148 4.4 134	2243 4.7 143
2 Su 0239 0.5 15	17 0218 -0.5 -15	2 W 0306 0.7 21	17 0342 -0.5 -15	2 F 0311 0.4 12	17 0420 -0.6 -18	2 Su 0917 5.4 165	17 0904 6.3 192	2 Th 1009 5.1 155	17 1108 5.4 165	2 Sa 1706 -0.4 -12	17 2336 4.6 140
1509 0.6 18	1456 -0.3 -9	1554 1.0 30	2213 4.8 146	1632 -0.2 -6	2228 4.4 134	1509 0.6 18	1456 -0.3 -9	1554 1.0 30	2213 4.8 146	1632 -0.2 -6	2228 4.4 134
2128 5.1 155	2128 5.7 174	2213 4.8 146	2302 5.1 155	1731 0.1 3	2309 4.4 134	2128 5.1 155	2128 5.7 174	2213 4.8 146	2302 5.1 155	1731 0.1 3	2309 4.4 134
3 M 0311 0.6 18	18 0308 -0.5 -15	3 Th 0338 0.9 27	18 0439 -0.2 -6	3 Sa 0348 0.5 15	18 0518 -0.2 -6	3 M 0953 5.3 162	18 0958 6.3 192	3 Th 1130 5.8 177	18 1159 5.1 155	3 Su 1802 -0.1 -3	18 2336 4.6 140
1546 0.8 24	1550 -0.1 -3	1630 1.1 34	2252 4.7 143	1731 0.1 3	2309 4.4 134	1546 0.8 24	1550 -0.1 -3	1630 1.1 34	2252 4.7 143	1731 0.1 3	2309 4.4 134
2204 5.0 152	2223 5.5 168	2252 4.7 143	2359 5.0 152	1731 0.1 3	2309 4.4 134	2204 5.0 152	2223 5.5 168	2252 4.7 143	2359 5.0 152	1731 0.1 3	2309 4.4 134
4 Tu 0341 0.8 24	19 0400 -0.2 -6	4 F 0414 1.0 30	19 0541 0.2 6	4 Su 0431 0.6 18	19 0619 0.2 6	4 Tu 1028 5.3 162	19 1053 6.2 189	4 F 1112 5.3 162	19 1226 5.6 171	4 Sa 1250 4.8 146	19 1859 0.1 3
1624 1.1 34	1648 0.1 3	1709 1.3 40	2333 4.7 143	1833 0.3 9	2353 4.4 134	1624 1.1 34	1648 0.1 3	1709 1.3 40	2333 4.7 143	1833 0.3 9	2353 4.4 134
2241 4.9 149	2319 5.4 165	2333 4.7 143	2359 5.0 152	1833 0.3 9	2353 4.4 134	2241 4.9 149	2319 5.4 165	2333 4.7 143	2359 5.0 152	1833 0.3 9	2353 4.4 134
5 W 0413 1.0 30	20 0457 0.1 3	5 Sa 0457 1.1 34	20 0558 4.9 149	5 M 0522 0.7 21	20 0721 0.4 12	5 W 1104 5.3 162	20 1150 6.0 183	5 Sa 1212 5.0 152	20 1342 4.6 140	5 Tu 1342 0.3 9	20 1953 0.3 9
1703 1.3 40	1751 0.4 12	1755 1.4 43	1934 0.5 15	1813 0.7 21	1909 0.6 18	1703 1.3 40	1751 0.4 12	1755 1.4 43	1934 0.5 15	1813 0.7 21	1909 0.6 18
2320 4.8 146						6 Th 1143 5.2 158	21 0017 5.2 158	6 Su 0548 1.2 37	21 0752 0.7 21	6 Tu 1301 4.9 149	21 2045 0.4 12
						1747 1.5 46	0601 1250 1857	1239 5.2 158	1423 5.1 155	1909 0.6 18	2045 0.4 12
								○ 2031 0.6 18			
7 F 0002 4.8 146	22 0119 5.1 155	7 M 0108 4.7 143	22 0302 4.9 149	7 W 0137 4.6 140	22 0918 4.4 134	7 F 0532 1.4 43	22 0709 0.7 21	7 M 0647 1.3 40	22 0726 0.7 21	7 Th 1532 4.3 131	22 2133 0.4 12
1226 5.2 158	1352 5.7 174	1331 5.2 158	2124 0.6 18	8 O 1945 1.2 37	2006 0.4 12	1837 1.7 52	○ 2001 0.8 24	1945 1.2 37	2124 0.6 18	2006 0.4 12	2133 0.4 12
1832 1.7 52								○ 2031 0.8 24			
8 Sa 0048 4.8 146	23 0225 5.1 155	8 Tu 0205 4.8 146	23 0402 4.9 149	8 Th 0239 4.8 146	23 1012 0.7 21	8 Sa 0624 1.5 46	23 0816 0.8 24	8 Tu 0752 1.2 37	23 1625 4.2 128	8 F 0932 1.7 52	23 2221 0.4 12
1314 5.2 158	1457 5.5 168	1430 5.2 158	2041 1.0 30	1500 0.1 3	2104 0.1 3	1314 5.2 158	1457 5.5 168	1430 5.2 158	2041 1.0 30	1500 0.1 3	2104 0.1 3
○ 1932 1.7 52	2100 0.8 24										
9 Su 0139 4.8 146	24 0331 5.1 155	9 W 0307 5.0 152	24 0455 5.0 152	9 F 0344 5.0 152	24 0507 4.6 140	9 Su 0722 1.5 46	24 0918 0.7 21	9 M 0918 0.9 27	24 1012 0.7 21	9 Th 1532 4.3 131	24 2306 0.3 9
1409 5.2 158	1558 5.5 168	1532 5.2 158	2136 0.7 21	1707 4.8 146	2201 -0.2 -6	1409 5.2 158	1558 5.5 168	1532 5.2 158	2136 0.7 21	1707 4.8 146	2201 -0.2 -6
2026 1.6 49	2155 0.8 24										
10 M 0237 4.8 146	25 0431 5.2 158	10 Th 0409 5.2 158	25 0543 5.1 155	10 Sa 0448 5.2 158	25 0553 4.7 143	10 M 0823 1.3 40	25 1016 0.9 27	10 Tu 1001 0.7 21	25 1152 0.5 15	10 Tu 1342 0.3 9	25 2350 0.2 6
1509 5.3 162	1653 5.4 165	1633 5.3 162	2230 0.3 9	1134 0.7 21	2259 0.5 15	1509 5.3 162	1653 5.4 165	1633 5.3 162	2230 0.3 9	1134 0.7 21	2259 0.5 15
2120 1.3 40	2246 0.8 24										
11 Tu 0338 5.0 152	26 0524 5.3 162	11 F 0509 5.5 168	26 0626 5.2 158	11 M 0547 5.5 168	26 0636 4.8 146	11 Tu 0925 1.1 34	26 1110 0.8 24	11 F 1102 0.4 12	26 1237 0.3 9	11 Th 1609 5.4 165	26 1843 4.1 125
1609 5.4 165	1743 5.4 165	1732 5.4 165	1835 4.7 143	1221 0.6 18	1808 4.8 146	1609 5.4 165	1743 5.4 165	1732 5.4 165	1835 4.7 143	1221 0.6 18	1808 4.8 146
2212 1.0 30	2333 0.7 21										
12 W 0438 5.2 158	27 0612 5.4 165	12 Sa 0605 5.8 177	27 0024 0.4 12	12 M 0644 5.7 174	27 0030 0.1 3	12 W 1025 0.8 24	27 1200 0.8 24	12 Th 1827 5.3 162	27 1318 0.2 6	12 F 1706 5.5 168	27 1924 4.1 125
1706 5.5 168											
2303 0.6 18											
13 Th 0534 5.5 168	28 0017 0.6 18	13 Su 0659 6.1 186	28 0102 0.3 9	13 F 0739 5.8 177	28 0108 -0.1 -3	13 Th 1123 0.5 15	28 0655 5.5 168	13 F 1246 0.4 12	28 1356 0.1 3	13 Th 1800 5.7 174	28 2005 4.2 128
1800 5.7 174	1246 0.7 21	1256 -0.3 -9	1953 4.6 140	1345 0.4 12	2005 4.2 128	1800 5.7 174	1246 0.7 21	1256 -0.3 -9	1953 4.6 140	1345 0.4 12	2005 4.2 128
2353 0.2 6	1907 5.2 158										
14 F 0627 5.8 177	29 0057 0.5 15	14 M 0108 -0.7 -21	29 0136 0.3 9	14 W 0142 -1.1 -34	29 0143 -0.2 -6	14 F 1219 0.1 3	29 0735 5.5 168	14 M 0753 6.2 189	29 0832 4.9 149	14 F 1852 5.8 177	29 2045 4.2 128
1852 5.8 177											
15 Sa 0042 -0.1 -3	30 0133 0.5 15	15 Tu 0158 -0.8 -24	30 0208 0.3 9	15 F 0234 -1.1 -34	30 0216 -0.2 -6	15 Sa 0719 6.0 183	30 0812 5.5 168	15 Tu 0847 6.2 189	30 0909 4.9 149	15 Sa 1312 -0.1 -3	30 1503 0.0 0
1312 -0.1 -3	1408 0.6 18	1443 -0.5 -15	1546 0.4 12	1520 -0.8 -24	1520 -0.8 -24	1312 -0.1 -3	1408 0.6 18	1443 -0.5 -15	1546 0.4 12	1312 -0.1 -3	1520 -0.8 -24
○ 1943 5.8 177	● 2022 5.0 152										
16 M 0206 0.5 15	31 0206 0.5 15										
1848 5.5 168	0848 5.5 168										
1445 0.7 21	1445 0.7 21										
2059 4.9 149	2059 4.9 149										

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Port Canaveral (Trident Pier), Florida, 2016

Times and Heights of High and Low Waters

January				February				March							
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height				
h m	ft	cm		h m	ft	cm		h m	ft	cm					
1 F	0026	3.0	91	16	0014	3.6	110	1	0125	2.9	88	16	0036	3.1	94
0631	0.6	18	Sa	0630	-0.1	-3	M	0737	0.6	18	Tu	0828	0.1	3	
1234	3.0	91	Sa	1234	3.4	104	M	1329	2.5	76	Tu	1426	2.9	88	
1903	0.3	9	●	1855	-0.5	-15		1947	0.2	6		2032	-0.4	-12	
2 Sa	0122	3.0	91	17	0119	3.6	110	2	0223	3.0	91	2	0132	3.1	94
0726	0.7	21	Su	0735	0.0	0	Tu	0833	0.6	18	W	0935	0.1	3	
1326	2.8	85	Su	1336	3.2	98		1426	2.5	76		1534	2.9	88	
● 1949	0.3	9	Su	1952	-0.5	-15		2038	0.1	3		2135	-0.3	-9	
3 Su	0220	3.0	91	18	0226	3.7	113	3	0319	3.2	98	18	0420	3.7	113
0822	0.7	21	M	0841	0.1	3	W	0929	0.5	15	Th	1039	0.1	3	
1421	2.7	82	M	1441	3.1	94		1523	2.5	76		1635	2.9	88	
2035	0.2	6	M	2050	-0.5	-15		2130	0.0	0		2235	-0.3	-9	
4 M	0315	3.2	98	19	0332	3.8	116	4	0411	3.4	104	4	0330	3.4	104
0918	0.7	21	Tu	0948	0.1	3	Th	1024	0.3	9	F	1134	0.0	0	
1515	2.7	82	Tu	1545	3.0	91		1617	2.7	82		1729	3.0	91	
2123	0.2	6	Tu	2149	-0.5	-15		2223	-0.2	-6		2330	-0.4	-12	
5 Tu	0404	3.4	104	20	0433	4.0	122	5	0500	3.6	110	5	0424	3.6	110
1012	0.6	18	W	1052	0.0	0	F	1115	0.1	3	Sa	1221	-0.1	-3	
1605	2.7	82	W	1645	3.1	94		1708	2.8	85	Sa	1819	3.2	98	
2211	0.0	0	W	2247	-0.6	-18		2314	-0.4	-12	Sa	1638	3.1	94	
6 W	0450	3.6	110	21	0528	4.1	125	6	0547	3.8	116	6	0515	3.8	116
1103	0.4	12	Th	1148	-0.1	-3	Sa	1202	-0.1	-3	Su	1129	-0.1	-3	
1653	2.8	85	Th	1740	3.1	94		1757	3.1	94	Su	1730	3.4	104	
2258	-0.1	-3	Th	2341	-0.6	-18				Su	1904	3.2	98		
7 Th	0534	3.8	116	22	0619	4.1	125	7	0003	-0.6	-18	7	0604	4.0	122
1150	0.2	6	F	1238	-0.2	-6	Su	0634	4.0	122	M	1216	-0.4	-12	
1739	2.9	88	F	1832	3.2	98		1247	-0.3	-9	M	1822	3.7	113	
2343	-0.3	-9	F					1846	3.3	101	O	1946	3.3	101	
8 F	0618	3.9	119	23	0031	-0.6	-18	8	0051	-0.8	-24	8	0031	-0.8	-24
1233	0.0	0	Sa	0707	4.1	125	M	0720	4.2	128	Tu	0808	3.7	113	
1825	3.0	91	Sa	1323	-0.3	-9		1331	-0.5	-15	Tu	1414	-0.2	-6	
● 1921	3.2	98	Sa					2026	3.4	104	●	1913	4.0	122	
9 Sa	0027	-0.4	-12	24	0117	-0.6	-18	9	0139	-0.9	-27	9	0122	-0.9	-27
0701	4.1	125	Su	0752	4.0	122	Tu	0807	4.2	128	W	0844	3.5	107	
1316	-0.1	-3	Su	1405	-0.3	-9		1416	-0.7	-21		1449	-0.2	-6	
● 1911	3.1	94	Su	2007	3.2	98		2024	3.7	113		2104	3.4	104	
10 Su	0111	-0.6	-18	25	0201	-0.5	-15	10	0228	-0.9	-27	10	0213	-0.9	-27
0745	4.2	128	M	0833	3.9	119	W	0853	4.2	128	Th	0920	3.4	104	
1358	-0.2	-6	M	1445	-0.2	-6		1502	-0.8	-24		1525	-0.1	-3	
1957	3.2	98	M	2050	3.2	98		2114	3.8	116		2142	3.3	101	
11 M	0156	-0.6	-18	26	0244	-0.4	-12	11	0320	-0.8	-24	11	0306	-0.8	-24
0829	4.3	131	Tu	0912	3.7	113	Th	0940	4.1	125	26	0956	3.2	98	
1442	-0.3	-9	Tu	1525	-0.2	-6		1550	-0.8	-24	F	1603	0.0	0	
2044	3.3	101	Tu	2132	3.2	98		2205	3.9	119		2221	3.3	101	
12 Tu	0243	-0.6	-18	27	0327	-0.2	-6	12	0415	-0.6	-18	12	0402	-0.6	-18
0914	4.2	128	W	0950	3.5	107	F	1028	3.9	119	W	1032	3.0	91	
1528	-0.4	-12	W	1605	-0.1	-3		1641	-0.7	-21		1643	0.1	3	
2132	3.4	104	W	2213	3.1	94		2258	3.9	119		2301	3.2	98	
13 W	0333	-0.5	-15	28	0413	0.0	0	13	0514	-0.4	-12	13	0515	0.4	12
0959	4.1	125	Th	1028	3.3	101	Sa	1119	3.6	110	Su	1111	2.8	85	
1616	-0.4	-12	Th	1646	0.0	0		1735	-0.6	-18		1726	0.2	6	
2222	3.5	107	Th	2256	3.0	91		2356	3.8	116		2346	3.1	94	
14 Th	0428	-0.4	-12	29	0500	0.2	6	14	0617	-0.2	-6	14	0603	-0.2	-6
1047	3.9	119	F	1107	3.1	94	Su	1215	3.3	101	F	1155	2.7	82	
1707	-0.4	-12	F	1728	0.1	3		1832	-0.5	-15		1813	0.3	9	
2316	3.5	107	F	2340	3.0	91									
15 F	0528	-0.2	-6	30	0550	0.4	12	15	0599	3.7	113	15	0039	3.9	119
1138	3.7	113	Sa	1148	2.8	85	M	0722	0.0	0	Tu	1302	3.1	94	
1800	-0.5	-15	Sa	1812	0.1	3					●	1931	-0.4	-12	
				31	0030	2.9	88					31	0050	3.4	104
				Su	0643	0.5	15					Th	0717	0.5	15
				Su	1235	2.7	82					●	1921	0.3	9
				●	1859	0.2	6								

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Port Canaveral (Trident Pier), Florida, 2016

Times and Heights of High and Low Waters

April				May				June			
Time	Height	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 F 0149	3.4	104	16 Sa 0331	3.4	104	1 Su 0214	3.6	110	1 W 0341	3.5	107
0812	0.4	12	0946	0.3	9	0834	0.1	3	W 0952	-0.6	-18
1411	2.8	85	1604	3.2	98	1447	3.3	101	M 1622	3.3	101
2019	0.2	6	2159	0.3	9	2054	0.1	3	2222	0.5	15
									2239	-0.2	-6
2 Sa 0250	3.5	107	17 Su 0424	3.4	104	2 M 0313	3.7	113	2 Th 0439	3.5	107
0907	0.3	9	1035	0.2	6	0928	-0.2	-6	1046	-0.8	-24
1512	3.1	94	1653	3.3	101	1546	3.7	113	1719	4.4	134
2120	0.0	0	2254	0.3	9	2156	-0.1	-3	2338	-0.4	-12
3 Su 0347	3.7	113	18 M 0510	3.3	101	3 Tu 0410	3.7	113	3 F 0535	3.5	107
1001	0.1	3	1118	0.2	6	1021	-0.4	-10	1140	-0.9	-27
1610	3.4	104	1737	3.5	107	1643	4.0	122	1814	4.6	140
2219	-0.2	-6	2341	0.2	6	2257	-0.3	-9			
4 M 0441	3.9	119	19 Tu 0551	3.3	101	4 W 0504	3.8	116	4 Sa 0035	-0.5	-15
1054	-0.2	-6	1155	0.1	3	1113	-0.7	-21	1151	0.0	0
1705	3.8	116	1816	3.6	110	1738	4.4	134	1824	3.7	113
2317	-0.4	-12				2355	-0.5	-15	● 1909	4.7	143
5 Tu 0534	4.0	122	20 W 0023	0.2	6	5 Th 0559	3.9	119	5 Su 0129	-0.5	-15
1144	-0.5	-15	0629	3.3	101	1204	-0.9	-27	0727	3.5	107
1759	4.1	125	1230	0.0	0	1832	4.7	143	1324	-0.9	-27
			1854	3.7	113				2002	4.7	143
									○ 1955	4.0	122
6 W 0012	-0.6	-18	21 Th 0102	0.1	3	6 F 0050	-0.6	-18	6 M 0222	-0.5	-15
0626	4.1	125	0706	3.2	98	0653	3.8	116	0712	2.9	88
1233	-0.8	-24	1304	0.0	0	1255	-1.0	-30	1306	-0.1	-3
1852	4.4	134	1932	3.8	116	● 1926	4.8	146	○ 1941	3.9	119
									2054	4.6	140
7 Th 0106	-0.8	-24	22 F 0140	0.1	3	7 Sa 0144	-0.7	-21	7 Tu 0116	0.2	6
0717	4.1	125	0744	3.2	98	0747	3.8	116	0729	-0.1	-3
1321	-0.9	-27	1339	0.0	0	1345	-1.0	-30	2020	3.9	119
● 1945	4.7	143	○ 2009	3.9	119	2019	4.9	149			
8 F 0159	-0.8	-24	23 Sa 0218	0.1	3	8 Su 0238	-0.6	-18	8 M 0235	0.1	3
0809	4.1	125	0822	3.1	94	0841	3.7	113	0833	2.9	88
1409	-0.9	-27	1414	0.0	0	1437	-0.8	-24	1423	0.0	0
2037	4.8	146	2046	3.9	119	2112	4.8	146	2100	3.9	119
									2234	4.1	125
9 Sa 0252	-0.7	-21	24 F 0257	0.2	6	9 M 0333	-0.5	-15	9 Th 0316	0.1	3
0900	3.9	119	0859	3.0	91	0934	3.6	110	0916	3.4	104
1459	-0.9	-27	1452	0.1	3	1531	-0.6	-18	1344	-0.1	-3
2129	4.7	143	2124	3.8	116	2204	4.6	140	2020	3.9	119
									2145	4.4	134
10 Su 0348	-0.5	-15	25 M 0338	0.3	9	10 Tu 0430	-0.3	-9	10 W 0359	0.2	6
0952	3.7	113	0938	2.9	88	1028	3.4	104	0956	2.8	85
1553	-0.7	-21	1531	0.2	6	1627	-0.4	-12	1549	0.1	3
2222	4.6	140	2202	3.8	116	2257	4.3	131	2221	3.8	116
11 M 0447	-0.3	-9	26 Tu 0422	0.3	9	11 W 0529	-0.1	-3	11 Th 0445	0.2	6
1045	3.5	107	1017	2.9	88	1124	3.2	98	1040	2.8	85
1649	-0.4	-12	1614	0.3	9	1727	-0.1	-3	1638	0.2	6
2318	4.3	131	2243	3.7	113	2352	3.9	119	2305	3.8	116
									1857	0.4	12
12 Tu 0548	-0.1	-3	27 W 0508	0.4	12	12 Th 0627	0.0	0	11 Sa 0014	3.5	107
1142	3.3	101	1100	2.8	85	1225	3.1	94	0647	0.0	0
1750	-0.2	-6	1702	0.3	9	1828	0.1	3	1256	3.0	91
			2328	3.6	110				1857	0.4	12
13 W 0017	4.0	122	28 Th 0558	0.4	12	13 F 0050	3.6	110	12 Sa 0014	3.5	107
0650	0.1	3	1148	2.8	85	0723	0.1	3	0647	0.0	0
1246	3.1	94	1755	0.4	12	1330	3.0	91	13 M 0159	3.0	91
● 1852	0.0	0	○ 1929	0.3	9	● 1929	0.3	9	13 Th 0819	0.1	3
									1452	3.1	94
14 Th 0121	3.7	113	29 F 0018	3.6	110	14 O 0150	3.4	104	2048	0.6	18
0751	0.2	6	0648	0.3	9	0815	0.2	6	14 Tu 0251	2.9	88
1356	3.0	91	1243	2.9	88	1436	3.1	94	0903	0.1	3
1955	0.2	6	○ 1852	0.3	9	2029	0.4	12	1543	3.2	98
									2142	0.6	18
15 F 0229	3.5	107	30 Sa 0114	3.5	107	15 Q 0249	3.2	98	14 W 0340	2.8	85
0850	0.3	9	0741	0.2	6	0905	0.2	6	0805	-0.3	-9
1504	3.1	94	1344	3.0	91	1533	3.2	98	1525	3.8	116
2059	0.3	9	1952	0.2	6	2127	0.5	15	2136	-0.1	-3
									2234	0.5	15
16 Th 0233	3.5	107	31 Tu 0243	3.5	107	16 O 0466	3.6	110	2120	0.0	0
0734	0.6	104	1525	3.8	116	1719	4.4	134	1607	4.2	128
1356	-0.3	-9	2136	-0.1	-3	2033	0.1	3	2224	-0.1	-3

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Port Canaveral (Trident Pier), Florida, 2016

Times and Heights of High and Low Waters

July				August				September			
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height
1 F 0418 3.3 101 1025 -0.8 -24 1704 4.4 134 2324 -0.2 -6	h m ft cm	16 Sa 0432 2.7 82 1036 0.0 0 1717 3.7 113 2332 0.4 12	h m ft cm	1 M 0007 0.0 0 0600 3.4 104 1201 -0.5 -15 1839 4.4 134	h m ft cm	16 Tu 0535 3.3 101 1141 0.0 0 1812 4.2 128 ● 1948 4.2 128	h m ft cm	1 Th 0117 0.3 9 0725 3.9 119 1323 0.2 6 ● 1948 4.2 128	h m ft cm	16 F 0037 0.1 3 0647 4.4 134 1256 -0.1 -3 ○ 1915 4.7 143	h m ft cm
	h m ft cm		h m ft cm		h m ft cm		h m ft cm	h m ft cm	h m ft cm		
	h m ft cm		h m ft cm		h m ft cm		h m ft cm	h m ft cm	h m ft cm		
	h m ft cm		h m ft cm		h m ft cm		h m ft cm	h m ft cm	h m ft cm		
2 Sa 0516 3.3 101 1121 -0.8 -24 1759 4.5 137	0520 2.8 85	17 Su 1123 -0.1 -3 1800 3.9 119	0057 0.0 0	2 Tu 0654 3.5 107 1252 -0.4 -12 ● 1928 4.4 134	0026 0.3 9	17 W 0624 3.5 107 1228 -0.1 -3 1858 4.4 134	0155 0.3 9	2 F 0808 4.0 122 1406 0.3 9 2028 4.1 125	0122 -0.1 -3	17 Sa 0738 4.7 143 1346 -0.1 -3 2003 4.7 143	0037 0.1 3
	h m ft cm		h m ft cm		h m ft cm		h m ft cm	h m ft cm	h m ft cm		
	h m ft cm		h m ft cm		h m ft cm		h m ft cm	h m ft cm	h m ft cm		
	h m ft cm		h m ft cm		h m ft cm		h m ft cm	h m ft cm	h m ft cm		
3 Su 0021 -0.3 -9 0613 3.3 101 1215 -0.8 -24 1853 4.5 137	0017 0.3 9	3 M 0606 2.9 88 1208 -0.2 -6 1844 4.0 122	0143 0.0 0	3 W 0745 3.5 107 1341 -0.3 -9 2014 4.3 131	0110 0.1 3	3 Th 0713 3.7 113 1316 -0.2 -6 ○ 1943 4.5 137	0233 0.4 12	3 Sa 0850 4.0 122 1448 0.4 12 2106 4.0 122	0208 -0.2 -6	18 Su 0829 4.9 149 1438 -0.1 -3 2052 4.6 140	0037 0.1 3
	h m ft cm		h m ft cm		h m ft cm		h m ft cm	h m ft cm	h m ft cm		
	h m ft cm		h m ft cm		h m ft cm		h m ft cm	h m ft cm	h m ft cm		
	h m ft cm		h m ft cm		h m ft cm		h m ft cm	h m ft cm	h m ft cm		
4 M 0114 -0.3 -9 0709 3.3 101 1307 -0.8 -24 ● 1946 4.5 137	0059 0.2 6	4 Th 0653 3.0 91 1252 -0.2 -6 ○ 1927 4.1 125	0227 0.0 0	4 F 0833 3.6 110 1427 -0.1 -3 2057 4.1 125	0153 -0.1 -3	4 Su 0930 4.0 122 1532 0.6 18 2143 3.8 116	0311 0.4 12	19 M 0920 5.0 152 1533 0.1 3 2142 4.4 134	0256 -0.2 -6	19 W 1013 5.0 152 1631 0.3 9 2233 4.2 128	0037 0.1 3
	h m ft cm		h m ft cm		h m ft cm		h m ft cm	h m ft cm	h m ft cm		
	h m ft cm		h m ft cm		h m ft cm		h m ft cm	h m ft cm	h m ft cm		
	h m ft cm		h m ft cm		h m ft cm		h m ft cm	h m ft cm	h m ft cm		
5 Tu 0205 -0.3 -9 0804 3.3 101 1358 -0.6 -18 2035 4.4 134	0141 0.0 0	5 W 0739 3.1 94 1336 -0.3 -9 2011 4.2 128	0310 0.0 0	5 F 0919 3.6 110 1514 0.1 3 2138 3.9 119	0238 -0.2 -6	5 Sa 0851 4.1 125 1454 -0.2 -6 2115 4.4 134	0350 0.5 15	20 M 1011 3.9 119 1617 0.8 24 2221 3.6 110	0347 -0.1 -3	20 Tu 1013 5.0 152 1631 0.3 9 2233 4.2 128	0037 0.1 3
	h m ft cm		h m ft cm		h m ft cm		h m ft cm	h m ft cm	h m ft cm		
	h m ft cm		h m ft cm		h m ft cm		h m ft cm	h m ft cm	h m ft cm		
	h m ft cm		h m ft cm		h m ft cm		h m ft cm	h m ft cm	h m ft cm		
6 W 0254 -0.3 -9 0856 3.3 101 1449 -0.4 -12 2123 4.2 128	0224 -0.1 -3	6 Th 0826 3.3 101 1422 -0.3 -9 2054 4.2 128	0352 0.1 3	6 Sa 1003 3.5 107 1602 0.3 9 2217 3.7 113	0324 -0.2 -6	6 Tu 0941 4.3 131 1548 -0.1 -3 2202 4.3 131	0431 0.7 21	21 W 1108 4.9 149 1733 0.5 15 2329 4.0 122	0442 0.0 0	21 F 1108 4.9 149 1733 0.5 15 2329 4.0 122	0037 0.1 3
	h m ft cm		h m ft cm		h m ft cm		h m ft cm	h m ft cm	h m ft cm		
	h m ft cm		h m ft cm		h m ft cm		h m ft cm	h m ft cm	h m ft cm		
	h m ft cm		h m ft cm		h m ft cm		h m ft cm	h m ft cm	h m ft cm		
7 Th 0343 -0.2 -6 0946 3.3 101 1540 -0.2 -6 2208 4.0 122	0308 -0.2 -6	7 F 0913 3.4 104 1511 -0.2 -6 2138 4.1 125	0435 0.2 6	7 Su 1047 3.5 107 1651 0.5 15 2257 3.5 107	0414 -0.2 -6	7 M 1033 4.3 131 1646 0.1 3 2252 4.1 125	0515 0.8 24	22 W 1136 3.8 116 1755 1.1 34 2345 3.3 101	0540 0.2 6	22 Th 1208 4.7 143 1836 0.6 18	0037 0.1 3
	h m ft cm		h m ft cm		h m ft cm		h m ft cm	h m ft cm	h m ft cm		
	h m ft cm		h m ft cm		h m ft cm		h m ft cm	h m ft cm	h m ft cm		
	h m ft cm		h m ft cm		h m ft cm		h m ft cm	h m ft cm	h m ft cm		
8 F 0431 -0.1 -3 1035 3.2 98 1633 0.0 0 2251 3.7 113	0353 -0.2 -6	8 M 1001 3.5 107 1603 -0.1 -3 2223 4.0 122	0518 0.3 9	8 Th 1132 3.4 104 1741 0.7 21 2339 3.2 98	0506 -0.2 -6	8 Tu 1127 4.3 131 1747 0.3 9 2345 3.8 116	0601 0.8 24	23 F 1225 3.7 113 1846 1.2 37 ○ 1940 0.7 21	0030 3.8 116	23 W 1313 4.5 137 1940 0.7 21	0641 0.3 9
	h m ft cm		h m ft cm		h m ft cm		h m ft cm	h m ft cm	h m ft cm		
	h m ft cm		h m ft cm		h m ft cm		h m ft cm	h m ft cm	h m ft cm		
	h m ft cm		h m ft cm		h m ft cm		h m ft cm	h m ft cm	h m ft cm		
9 Sa 0519 0.0 0 1124 3.2 98 1726 0.3 9 2335 3.4 104	0442 -0.3 -9	9 Su 1052 3.6 110 1700 0.0 0 2311 3.9 119	0601 0.4 12	9 Tu 1220 3.4 104 1833 0.8 24 ○ 1939 1.2 37	0601 -0.1 -3	9 W 1227 4.3 131 1849 0.4 12 ○ 1939 1.2 37	0033 3.2 98	24 F 1319 3.7 113 1940 0.7 21	0137 3.7 113	24 M 1422 4.4 134 2044 0.8 24	0137 3.7 113
	h m ft cm		h m ft cm		h m ft cm		h m ft cm	h m ft cm	h m ft cm		
	h m ft cm		h m ft cm		h m ft cm		h m ft cm	h m ft cm	h m ft cm		
	h m ft cm		h m ft cm		h m ft cm		h m ft cm	h m ft cm	h m ft cm		
10 Su 0604 0.1 3 1215 3.1 94 1820 0.5 15	0532 -0.3 -9	10 M 1146 3.7 113 1800 0.1 3 ○ 1925 0.9 27	0024 3.1 94	10 W 0646 0.4 12 1312 3.4 104 ○ 1925 0.9 27	0044 3.6 110	10 Th 0659 -0.1 -3 1331 4.3 131 1953 0.5 15	0129 3.1 94	25 Sa 0742 0.9 27 1416 3.8 116 2032 1.1 34	0247 3.7 113	25 F 0847 0.5 15 1527 4.4 134 2144 0.8 24	0037 0.1 3
	h m ft cm		h m ft cm		h m ft cm		h m ft cm	h m ft cm	h m ft cm		
	h m ft cm		h m ft cm		h m ft cm		h m ft cm	h m ft cm	h m ft cm		
	h m ft cm		h m ft cm		h m ft cm		h m ft cm	h m ft cm	h m ft cm		
11 M 0020 3.1 94 0648 0.1 3 1308 3.1 94 ○ 1913 0.6 18	0003 3.7 113	11 Tu 0624 -0.4 -12 1245 3.8 116 ○ 1901 0.2 6	0114 2.9 88	11 F 0732 0.5 15 1407 3.4 104 2018 0.9 27	0148 3.5 107	11 F 0758 0.0 0 1438 4.3 131 2057 0.6 18	0227 3.2 98	26 M 0949 0.6 18 1625 4.4 134 2125 1.0 30	0351 3.8 116	26 W 0949 0.6 18 1625 4.4 134 2240 0.7 21	0037 0.1 3
	h m ft cm		h m ft cm		h m ft cm		h m ft cm	h m ft cm	h m ft cm		
	h m ft cm		h m ft cm		h m ft cm		h m ft cm	h m ft cm	h m ft cm		
	h m ft cm		h m ft cm		h m ft cm		h m ft cm	h m ft cm	h m ft cm		
12 Tu 0109 2.9 88 0732 0.2 6 1403 3.2 98 2006 0.7 21	0059 3.5 107	12 W 0718 -0.4 -12 1348 3.9 119 2004 0.2 6	0209 2.9 88	12 F 0821 0.5 15 1502 3.5 107 2111 0.9 27	0254 3.5 107	12 M 0929 0.6 18 1603 4.1 125 2200 0.5 15	0323 3.3 101	27 Tu 1047 0.6 18 1715 4.3 131 2216 0.8 24	0447 3.9 119	27 F 1047 0.6 18 1715 4.3 131 2328 0.7 21	0037 0.1 3
	h m ft cm		h m ft cm		h m ft cm		h m ft cm	h m ft cm	h m ft cm		
	h m ft cm		h m ft cm		h m ft cm		h m ft cm	h m ft cm	h m ft cm		
	h m ft cm		h m ft cm		h m ft cm		h m ft cm	h m ft cm	h m ft cm		
13 W 0200 2.8 85 0816 0.2 6 1457 3.3 101 2059 0.7 21	0201 3.3 101	13 Th 0813 -0.4 -12 1452 4.1 125 2108 0.2 6	0304 2.9 88	13 Sa 0911 0.4 12 1553 3.7 113 2204 0.8 24	0358 3.5 107	13 Tu 0959 0.1 3 1640 4.4 134 2258 0.5 15	0416 3.6 110	28 W 1138 0.5 15 1759 4.3 131	0536 4.1 125	28 F 1138 0.5 15 1759 4.3 131	0037 0.1 3
	h m ft cm		h m ft cm		h m ft cm		h m ft cm	h m ft cm	h m ft cm		
	h m ft cm		h m ft cm		h m ft cm		h m ft cm	h m ft cm	h m ft cm		
	h m ft cm		h m ft cm		h m ft cm		h m ft cm	h m ft cm	h m ft cm		
14 Th 0253 2.7 82 0902 0.1 3 1546 3.4 104 2153 0.7 21	0304 3.3 101	14 F 0911 -0.4 -12 1554 4.2 128 2211 0.2 6	0357 3.0 91	<							

Port Canaveral (Trident Pier), Florida, 2016

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	0122	0.5 15		16 Su	0053	-0.2 5.2	-6 158	1 Tu	0158	0.6 4.4	18 134	16 W	0208	-0.5 5.3	-15 162
	0742	4.3 131			0716	5.2 0.0	130		0831	0.8 0.9	24 27		0843	4.2 0.1	128 3
	1345	0.6 18			1330	-0.1 4.6	-3 140		1440	3.6	110		1502	-0.1 4.0	-3 122
	1957	4.0 122			1938	4.6 4.5	137		2042	3.6	110		2103	4.1 4.0	125 122
2 Su	0156	0.6 18		17 M	0140	-0.3 8.0	-9 162	2 W	0235	0.6 4.4	18 134	17 Th	0301	-0.4 5.2	-12 158
	0821	4.3 131			0808	5.3 0.0	0 0		1521	0.9 27			1558	0.1 4.0	3 122
	1424	0.7 21			1423	0.0 4.5	0 137		2121	3.5	107		2158	4.0 3.8	122 116
	2034	3.9 119			2030	4.5 4.4	137						2136	3.2 3.8	98 104
3 M	0232	0.6 18		18 Tu	0230	-0.3 9.0	-9 165	3 Th	0314	0.7 4.3	21 131	18 F	0357	-0.1 4.9	-3 149
	0859	4.3 131			0901	5.4 0.1	3 3		1604	0.9 27			1657	0.2 3.8	6 116
	1505	0.8 24			1518	0.1 4.4	3 134		2200	3.4	104		2254	3.8 3.6	116 94
	2111	3.8 116			2122	4.4 4.4	134						2217	3.1 3.0	94 104
4 Tu	0309	0.7 21		19 W	0322	-0.1 9.5	-3 162	4 F	0356	0.8 4.2	24 128	19 Sa	0458	0.2 4.6	6 140
	0937	4.3 131			0954	5.3 0.3	9 9		1028	4.2 1.0	28 30		1125	4.6 1.0	15 122
	1547	1.0 30			1616	0.3 4.2	9 128		1650	1.0 4.2	24 128		1758	0.4 3.6	12 110
	2149	3.6 110			2216	4.2 4.2	128		2242	3.3	101		2354	3.6 3.6	110 94
5 W	0349	0.9 27		20 Th	0419	0.1 5.1	3 155	5 Sa	0443	0.9 4.1	27 125	20 Su	0600	0.4 4.2	12 128
	1017	4.2 128			1049	5.1 0.5	155		1111	4.1 1.0	30		1223	3.9 0.5	18 15
	1632	1.1 34			1717	0.5 4.0	15 128		1739	1.0 3.0	30		1857	0.5 3.8	15 98
	2229	3.5 107			2312	4.0 4.0	122		2328	3.3	101				O 1913 0.2 6
6 Th	0432	1.0 30		21 F	0519	0.3 1148	9 4.8	6 Su	0535	1.0 1158	30 4.0	21 M	0100	3.5 0.6	107 18
	1059	4.1 125			1820	0.6 0.6	18 18		0704	4.0 1.0	30		1325	3.9 0.5	119 15
	1721	1.2 37											O 1953 0.5 15		
	2311	3.4 104													
7 F	0519	1.1 34		22 Sa	0014	3.8 0.5	116 15	7 M	0021	3.3 1.0	101 30	22 Tu	0210	3.5 0.8	107 24
	1144	4.0 122			0623	4.5 1.5	137		0631	4.0 1.0	30		1428	3.7 0.5	113 15
	1811	1.3 40			1251	0.7 0.7	21		1920	0.9 0.9	27		2046	0.5 0.5	119 15
	2358	3.3 101			O 1923	0.7 0.7	21								
8 Sa	0611	1.1 34		23 Su	0123	3.7 0.7	113 21	8 Tu	0120	3.4 0.9	104 27	23 W	0313	3.6 0.8	110 24
	1235	4.0 122			0728	4.3 1.3	131		1349	4.0 1.0	122		1525	3.6 0.5	110 15
	1903	1.3 40			1359	0.8 0.8	24		2011	0.7 0.7	21		2135	0.5 0.5	115 15
	O				2023	0.8 0.8	24								
9 Su	0053	3.3 101		24 M	0234	3.8 0.8	116 24	9 W	0222	3.6 0.8	110 24	24 Th	0407	3.8 0.8	116 24
	0704	1.1 34			0832	4.2 1.2	128		0829	4.0 1.0	122		1614	3.5 0.5	107 10
	1332	4.0 122			1504	0.8 0.8	24		1447	4.0 0.8	122		2220	0.5 0.5	113 15
	1955	1.2 37			2121	0.8 0.8	24		2103	0.5 0.5	15		2124	-0.2 -0.2	-6 -6
10 M	0152	3.4 104		25 Tu	0338	3.9 0.8	119 24	10 Th	0321	4.0 0.6	122 18	10 F	0453	3.9 0.8	119 24
	0800	1.0 30			0934	4.1 4.1	125		0929	4.1 4.1	125		1059	3.4 3.4	104 104
	1429	4.1 125			1600	0.7 0.7	21		1543	4.1 0.2	125		1658	3.4 0.4	104 12
	2047	1.0 30			2212	0.7 0.7	21		2155	0.2 0.2	6		2301	0.4 0.4	128 12
11 Tu	0252	3.6 110		26 W	0432	4.0 0.8	122	11 F	0417	4.4 0.3	134 9	26 Sa	0533	4.0 0.7	122 18
	0857	0.8 24			1032	4.0 1.0	122		1029	4.0 1.0	134		1637	4.2 4.2	128 128
	1525	4.2 128			1649	4.0 4.0	122		1637	4.2 4.2	128		2246	-0.1 -0.1	-3 -3
	2139	0.8 24			2258	0.7 0.7	21						2339	0.3 0.3	9 9
12 W	0348	3.9 119		27 Th	0518	4.1 1.2	125	12 Sa	0510	4.7 0.1	143 3	27 M	0612	4.1 0.6	125 18
	0955	0.6 18			1122	0.8 1.3	122		1126	0.1 4.3	131		1224	0.6 4.3	125 104
	1617	4.4 134			1731	4.0 4.0	122		1730	4.3 4.3	131		1818	3.4 4.3	104 104
	2229	0.5 15			2337	0.6 0.6	18		2337	-0.3 -0.3	-9				
13 Th	0441	4.3 131		28 F	0559	4.3 1.2	131	13 Su	0604	5.1 -0.1	155 -3	28 M	0017	0.3 0.6	9 152
	1051	0.4 12			1206	0.7 3.9	21		1221	-0.1 1.3	131		1302	0.5 3.3	152 101
	1707	4.5 137			1811	3.9 3.9	119		1822	4.3 4.3	131		1857	3.8 3.8	116 91
	2318	0.3 9													
14 F	0532	4.6 140		29 Sa	0013	0.5 4.4	15	14 M	0027	-0.5 5.3	-15 162	29 Tu	0053	0.2 4.2	6 128
	1145	0.2 6			0638	4.4 1.3	134		0657	-0.2 1.3	131		1340	0.5 0.5	152 152
	1757	4.6 140			1246	0.7 0.7	21		1314	-0.2 4.3	131		1916	3.3 4.3	101 101
					1849	3.8 3.8	116		O 1916	4.3 4.3	131				
15 Sa	0005	0.0 0		30 Su	0048	0.5 0.7	15	15 Tu	0117	-0.6 0.7	-18 165	30 W	0130	0.2 0.8	6 128
	0624	4.9 149			0716	4.4 1.3	134		0750	5.4 1.0	165		1407	-0.2 0.5	-6 15
	1238	0.0 0			1324	0.7 0.7	21		1407	-0.2 4.2	165		2010	4.2 4.2	128 101
	O 1847	4.7 143			O 1926	3.8 3.8	116								
31 Sa	0123	0.5 4.4	15	31 M	0123	0.5 4.4	134								
	0753	4.4 1.3	134		1402	0.7 0.7	21								
	1402	0.7 21	21		2004	3.7 3.7	113								

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Miami, Government Cut, Florida, 2016

Times and Heights of High and Low Waters

January				February				March						
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height			
h m	ft	cm		h m	ft	cm		h m	ft	cm				
1 F 0108	2.0	61		16 0114	2.3	70		1 0205	1.8	55				
0706	0.4	12	Sa	0659	-0.1	-3	M	0758	0.4	12	Tu	0304	2.2	67
1325	2.1	64		1333	2.3	70		1412	1.8	55		1518	2.1	64
1939	0.3	9	O	1934	-0.3	-9		2028	0.1	3		2123	-0.3	-9
2 Sa 0200	1.9	58		17 0218	2.3	70	2 Tu 0304	1.8	55		17 W 0412	2.2	67	
0801	0.4	12	Su	0804	0.0	0	0857	0.4	12		0958	0.1	3	
1413	2.0	61		1433	2.2	67	1510	1.7	52		1626	2.1	64	
2032	0.2	6		2038	-0.3	-9	2125	0.0	0		2226	-0.3	-9	
3 Su 0256	1.9	58		18 0324	2.2	67	3 W 0406	1.8	55		18 Th 0515	2.2	67	
0857	0.5	15	M	0911	0.1	3	0956	0.4	12		1059	0.0	0	
1506	1.9	58		1537	2.2	67	1611	1.8	55		1729	2.1	64	
2124	0.2	6		2141	-0.4	-12	2219	-0.1	-3		2323	-0.3	-9	
4 M 0354	1.9	58		19 0430	2.3	70	4 Th 0505	1.9	58		19 F 0612	2.3	70	
0951	0.5	15	Tu	1014	0.0	0	1051	0.3	9		1153	0.0	0	
1601	1.9	58		1642	2.2	67	1711	1.9	58		1825	2.2	67	
2214	0.1	3		2241	-0.4	-12	2311	-0.2	-6		2236	-0.1	-3	
5 Tu 0450	2.0	61		20 0532	2.3	70	5 F 0600	2.1	64		20 4 0426	2.0	61	
1042	0.4	12		1114	0.0	0	1141	0.1	3		1012	0.3	9	
1655	2.0	61		1743	2.2	67	1807	2.0	61		1637	1.9	58	
2301	0.0	0		2337	-0.5	-15					2236	-0.1	-3	
6 W 0543	2.1	64		21 0628	2.4	73	6 Sa 0000	-0.3	-9		21 5 0525	2.1	64	
1129	0.3	9		1208	-0.1	-3	0650	2.2	67		0701	2.3	70	
1747	2.0	61		1838	2.3	70	1229	0.0	0		1243	-0.1	-3	
2346	-0.1	-3					1859	2.2	67		1914	2.3	70	
7 Th 0632	2.3	70		22 0029	-0.5	-15	7 Su 0047	-0.5	-15		20 6 0619	2.3	70	
1214	0.2	6		0719	2.5	76	0737	2.4	73		1200	-0.1	-3	
1836	2.1	64		1259	-0.2	-6	1315	-0.2	-6		1327	-0.2	-6	
				1929	2.3	70	1948	2.3	70		1958	2.3	70	
8 F 0029	-0.3	-9		23 0118	-0.6	-18	8 M 0134	-0.6	-18		21 7 0023	-0.4	-12	
0718	2.4	73		0805	2.5	76	0822	2.5	76		0745	2.4	73	
1257	0.1	3		1346	-0.2	-6	1401	-0.4	-12		1409	-0.2	-6	
1923	2.2	67	O	2015	2.4	73	2037	2.5	76		2039	2.3	70	
9 Sa 0111	-0.4	-12		24 0204	-0.5	-15	9 Tu 0220	-0.7	-21		2117	2.3	70	
0802	2.5	76		0848	2.5	76	0907	2.6	79		2117	2.3	70	
1340	0.0	0		1431	-0.2	-6	1447	-0.5	-15		2125	2.6	79	
2009	2.3	70		2059	2.3	70	2125	2.6	79		2154	2.3	70	
10 Su 0154	-0.5	-15		25 0247	-0.5	-15	10 W 0308	-0.7	-21		2154	2.3	70	
0846	2.6	79		0928	2.5	76	0952	2.6	79		2231	2.2	67	
1423	-0.1	-3		1513	-0.2	-6	1534	-0.6	-18		2231	2.2	67	
2055	2.4	73		2141	2.3	70	2214	2.6	79		2214	2.2	67	
11 M 0238	-0.5	-15		26 0329	-0.4	-12	11 Th 0356	-0.6	-18		2214	2.2	67	
0930	2.6	79		1006	2.4	73	1038	2.6	79		2214	2.2	67	
1507	-0.2	-6		1555	-0.2	-6	1623	-0.6	-18		2214	2.2	67	
2142	2.4	73		2221	2.2	67	2305	2.6	79		2305	2.1	64	
12 Tu 0323	-0.5	-15		27 0410	-0.3	-9	12 F 0447	-0.5	-15		2348	2.0	61	
1014	2.6	79		1043	2.3	70	1125	2.5	76		2348	2.0	61	
1553	-0.3	-9		1635	-0.2	-6	1716	-0.6	-18		2348	2.0	61	
2230	2.4	73		2301	2.1	64	2358	2.5	76		2348	2.0	61	
13 W 0411	-0.4	-12		28 0450	-0.1	-3	13 Sa 0542	-0.3	-9		2348	2.0	61	
1059	2.6	79		1119	2.2	67	1216	2.4	73		2348	2.0	61	
1642	-0.3	-9		1716	-0.1	-3	1812	-0.5	-15		2348	2.0	61	
2321	2.4	73		2342	2.0	61					2348	2.0	61	
14 Th 0503	-0.3	-9		29 0532	0.0	0	14 Su 0056	2.4	73		2348	2.0	61	
1147	2.5	76		1157	2.0	61	0641	-0.2	-6		2348	2.0	61	
1735	-0.3	-9		1758	0.0	0	1311	2.3	70		2348	2.0	61	
							1913	-0.4	-12		2348	2.0	61	
15 F 0015	2.4	73		30 0025	1.9	58	15 0157	2.2	67		1518	2.1	64	
0558	-0.2	-6		0615	0.2	6	0745	0.0	0		1626	2.1	64	
1238	2.4	73		1237	1.9	58	1412	2.1	64		1714	0.1	3	
1832	-0.3	-9		1843	0.1	3	2018	-0.4	-12		1957	-0.2	-6	
16 31 0112	1.8	55		31 0112	1.8	55					20 0001	2.2	67	
	Su	0704	0.3	9							0539	0.4	12	
		1321	1.8	55							1207	2.0	61	
	O	1933	0.1	3							1757	0.1	3	

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Miami, Government Cut, Florida, 2016

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	0243	2.0	61	16 Sa	0419	2.2	67	1 Su	0312	2.3	70	16 M	0430	2.1	64	
	0832	0.4	12		1015	0.3	9		0907	0.2	6		1032	0.2	6	
	1458	2.0	61		1646	2.2	67		1542	2.2	67		1704	2.2	67	
	2059	0.2	6		2240	0.2	6		2135	0.1	3		2256	0.3	9	
2 Sa	0347	2.1	64	17 Su	0514	2.2	67	2 M	0413	2.3	70	17 Tu	0518	2.2	67	
	0937	0.3	9		1107	0.2	6		1007	0.0	0		1118	0.1	3	
	1607	2.1	64		1740	2.3	70		1648	2.4	73		1753	2.2	67	
	2204	0.1	3		2330	0.2	6		2236	0.0	0		2342	0.3	9	
3 Su	0449	2.2	67	18 M	0602	2.3	70	3 Tu	0512	2.5	76	18 W	0603	2.2	67	
	1036	0.1	3		1152	0.1	3		1104	-0.2	-6		1200	0.0	0	
	1712	2.3	70		1827	2.3	70		1749	2.6	79		1837	2.3	70	
	2303	-0.1	-3						2334	-0.1	-3					
4 M	0545	2.4	73	19 Tu	0015	0.2	6	4 W	0608	2.6	79	19 Th	0024	0.3	9	
	1131	-0.1	-3		0644	2.3	70		1158	-0.4	-12		0644	2.2	67	
	1811	2.5	76		1234	0.0	0		1845	2.8	85		1239	0.0	0	
	2358	-0.2	-6		1909	2.4	73					1918	2.4	73		
5 Tu	0638	2.6	79	20 W	0056	0.1	3	5 Th	0028	-0.2	-6	20 F	0104	0.2	6	
	1223	-0.3	-9		0722	2.4	73		0701	2.7	82		0725	2.3	70	
	1906	2.7	82		1312	0.0	0		1250	-0.6	-18		1317	-0.1	-3	
					1948	2.5	76		1939	3.0	91		1958	2.5	76	
6 W	0050	-0.4	-12	21 Th	0135	0.1	3	6 F	0120	-0.3	-9	21 Sa	0142	0.2	6	
	0728	2.7	82		0759	2.4	73		0753	2.8	85		0804	2.3	70	
	1313	-0.6	-18		1349	-0.1	-3		1341	-0.7	-21		1353	-0.1	-3	
	1958	2.9	88		2025	2.5	76		● 2031	3.1	94		○ 2037	2.5	76	
7 Th	0141	-0.4	-12	22 F	0211	0.1	3	7 Sa	0212	-0.3	-9	22 Su	0219	0.2	6	
	0817	2.8	85		0835	2.4	73		0844	2.9	88		0843	2.3	70	
	1403	-0.7	-21		1423	-0.1	-3		1432	-0.7	-21		1429	-0.1	-3	
	● 2049	3.0	91		○ 2102	2.5	76		2122	3.1	94		2117	2.5	76	
8 F	0231	-0.5	-15	23 Sa	0247	0.1	3	8 Su	0304	-0.3	-9	23 M	0256	0.2	6	
	0905	2.9	88		0910	2.4	73		0934	2.8	85		0922	2.3	70	
	1452	-0.7	-21		1457	-0.1	-3		1524	-0.7	-21		1505	-0.1	-3	
	2139	3.0	91		2139	2.5	76		2212	3.0	91		2156	2.5	76	
9 Sa	0322	-0.4	-12	24 Su	0321	0.2	6	9 M	0356	-0.2	-6	24 Tu	0333	0.2	6	
	0954	2.9	88		0947	2.3	70		1025	2.7	82		1002	2.2	67	
	1543	-0.7	-21		1531	-0.1	-3		1617	-0.5	-15		1543	-0.1	-3	
	2230	3.0	91		2217	2.5	76		2303	2.9	88		2237	2.4	73	
10 Su	0414	-0.3	-9	25 M	0356	0.3	9	10 Tu	0450	-0.1	-3	25 W	0412	0.2	6	
	1044	2.8	85		1024	2.3	70		1118	2.6	79		1044	2.2	67	
	1636	-0.6	-18		1606	0.0	0		1711	-0.3	-9		1623	-0.1	-3	
	2322	2.8	85		2257	2.4	73		2355	2.7	82		2319	2.4	73	
11 M	0508	-0.1	-3	26 Tu	0433	0.3	9	11 W	0546	0.0	0	26 F	0419	2.5	76	
	1137	2.6	79		1102	2.2	67		1212	2.4	73		0713	0.1	3	
	1732	-0.4	-12		1645	0.1	3		1809	-0.1	-3		0713	0.1	3	
					2338	2.3	70					1334	2.1	64		
12 Tu	0017	2.7	82	27 W	0514	0.4	12	12 F	0049	2.5	76	27 Su	0157	2.2	67	
	0606	0.0	0		1144	2.1	64		0645	0.2	6		0808	0.2	6	
	1232	2.5	76		1729	0.1	3		1309	2.3	70		1429	2.1	64	
	1831	-0.2	-6						1909	0.1	3		● 2030	0.3	9	
13 W	0114	2.5	76	28 Th	0024	2.3	70	13 F	0144	2.4	73	28 M	0052	2.1	64	
	0708	0.2	6		0602	0.4	12		0746	0.2	6		0901	0.2	6	
	1333	2.3	70		1233	2.1	64		1409	2.2	67		1526	2.0	61	
	● 1935	0.0	0		1821	0.2	6		● 2010	0.2	6		2125	0.4	12	
14 Th	0215	2.3	70	29 F	0115	2.2	67	14 Sa	0240	2.2	67	29 W	0145	2.3	70	
	0813	0.3	9		0659	0.4	12		0846	0.3	9		0739	0.1	3	
	1437	2.2	67		1330	2.1	64		1510	2.1	64		1416	2.2	67	
	2040	0.1	3		● 1922	0.2	6		2110	0.3	9		● 2005	0.1	3	
15 F	0318	2.3	70	30 Sa	0211	2.2	67	15 Su	0336	2.2	67	30 M	0242	2.3	70	
	0917	0.3	9		0803	0.4	12		0941	0.2	6		0841	0.0	0	
	1543	2.2	67		1434	2.1	64		1610	2.1	64		1521	2.3	70	
	2143	0.2	6		2029	0.2	6		2206	0.3	9		2110	0.1	3	
31 Tu	0342	2.3	70						31 Tu	0342	2.3	70		0429	2.0	61
										0942	-0.2	-6		1038	0.1	3
										1626	2.4	73		1712	2.1	64
										2212	0.0	0		2304	0.4	12

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Miami, Government Cut, Florida, 2016

Times and Heights of High and Low Waters

July				August				September			
	Time	Height			Time	Height			Time	Height	
	h m	ft cm			h m	ft cm			h m	ft cm	
1 <i>F</i>	0521	2.4	73	16	0526	2.1	64	1	0030	0.1	3
	1118	-0.5	-15	Sa	1129	0.0	0	M	0702	2.6	79
	1810	2.6	79		1813	2.2	67		1251	-0.3	-9
	2350	0.0	0		2358	0.4	12		1940	2.8	85
2 <i>Sa</i>	0620	2.5	76	17	0617	2.1	64	2	0120	0.0	0
	1213	-0.6	-18	Su	1213	0.0	0	17	0054	0.3	9
	1906	2.7	82		1900	2.4	73	W	0727	2.6	79
								2	0227	0.2	6
3 <i>Su</i>	0044	-0.1	-3	18	0041	0.3	9	18	0138	0.1	3
	0715	2.6	79	M	0705	2.2	67	3	0208	0.0	0
	1306	-0.6	-18		1255	-0.1	-3	W	0840	2.7	82
	1957	2.8	85		1945	2.5	76	Th	1427	-0.3	-9
4 <i>M</i>	0137	-0.2	-6	19	0123	0.2	6	19	0222	0.0	0
	0808	2.6	79	Tu	0752	2.3	70	4	0254	0.0	0
	1357	-0.6	-18		1337	-0.2	-6	F	0925	2.7	82
	● 2047	2.8	85		O	2028	2.6	79		1512	-0.2	-6
5 <i>Tu</i>	0228	-0.2	-6	20	0205	0.1	3	4	0346	0.3	9
	0858	2.6	79	W	0837	2.4	73	19	0902	2.9	85
	1447	-0.5	-15		1420	-0.3	-9	Su	1018	2.8	85
	2134	2.8	85		2111	2.6	79		1443	-0.1	-3
6 <i>W</i>	0317	-0.2	-6	21	0248	0.0	0	21	0222	0.4	12
	0947	2.6	79	Th	0923	2.5	76	5	0421	0.1	3
	1536	-0.4	-12		1503	-0.3	-9	20	0308	-0.1	-3
	2219	2.7	82		2154	2.7	82	W	1008	2.6	79
7 <i>Th</i>	0406	-0.1	-3	22	0331	-0.1	-3	5	0338	0.0	0
	1034	2.5	76	F	1009	2.5	76	20	0950	2.9	88
	1624	-0.2	-6		1548	-0.2	-6	Sa	1530	-0.1	-3
	2302	2.6	79		2237	2.6	79		1556	0.0	0
8 <i>F</i>	0454	0.0	0	23	0417	-0.1	-3	6	1057	2.7	82
	1121	2.4	73	Sa	1058	2.5	76	21	1137	2.6	79
	1712	-0.1	-3		1637	-0.2	-6	21	1644	0.6	18
	2345	2.4	73		2322	2.6	79	W	2230	2.6	79
9 <i>Sa</i>	0543	0.0	0	24	0507	-0.1	-3	7	0503	0.4	12
	1207	2.2	67	Su	1149	2.5	76	22	1039	2.9	88
	1801	0.1	3		1729	-0.1	-3	22	1619	0.0	0
								Su	2259	2.9	88
10 <i>Su</i>	0028	2.3	70	25	0009	2.6	79	6	1137	2.6	79
	0632	0.1	3	M	0600	-0.2	-6	21	1724	0.7	21
	1255	2.1	64		1243	2.5	76	21	2347	2.5	76
	1852	0.3	9		1826	0.1	3	W	1644	0.6	18
11 <i>M</i>	0111	2.2	67	26	0101	2.5	76	21	2058	1.0	30
	0723	0.2	6	Tu	0658	-0.2	-6	22	0213	2.3	70
	1345	2.1	64		1342	2.5	76	25	0822	0.7	21
	● 1944	0.4	12		1927	0.2	6	Su	1503	2.4	73
12 <i>Tu</i>	0157	2.1	64	27	0157	2.4	73	25	0938	0.5	15
	0814	0.2	6	W	0800	-0.2	-6	26	0244	2.6	79
	1438	2.0	61		1446	2.5	76	27	0743	0.1	3
	2038	0.5	15		2032	0.2	6	27	1429	2.7	82
13 <i>W</i>	0246	2.0	61	28	0258	2.4	73	11	0159	2.1	64
	0906	0.2	6	Th	0903	-0.2	-6	26	0848	0.1	3
	1533	2.0	61		1551	2.5	76	26	1536	2.7	82
	2132	0.5	15		2136	0.2	6	Su	2124	0.5	15
14 <i>Th</i>	0339	2.0	61	29	0403	2.4	73	11	0244	2.6	79
	0956	0.2	6	F	1005	-0.2	-6	27	0351	2.6	79
	1629	2.0	61		1656	2.5	76	27	0952	0.1	3
	2223	0.5	15		2238	0.2	6	27	1641	2.7	82
15 <i>F</i>	0433	2.0	61	30	0507	2.5	76	12	0253	2.1	64
	1044	0.1	3	Sa	1104	-0.3	-9	28	0456	2.6	79
	1722	2.1	64		1756	2.6	79	28	1052	0.1	3
	2312	0.4	12		2336	0.1	3	28	1740	2.8	85
31 <i>Su</i>	0606	2.5	76	31	0606	2.5	76	13	0516	2.6	79
	1159	-0.3	-9	Su	1159	-0.3	-9	28	1110	0.4	12
	1850	2.7	82		1850	2.7	82	28	1754	2.8	85
								28	2323	0.4	12
31 <i>W</i>	0736	2.9	88	31	0102	0.2	6	27	0631	3.0	91
	1323	0.1	3		1323	0.1	3	28	1218	0.4	12
	2003	2.9	88		2003	2.9	88	28	1855	3.0	91
								28	2338	0.5	15

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Miami, Government Cut, Florida, 2016

Times and Heights of High and Low Waters

October				November				December			
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height
1 Sa 0159 0.4 12 0834 3.1 94 1420 0.5 15 2047 3.0 91	16 Su 0133 -0.1 -3 0820 3.5 107 1401 0.2 6 2035 3.4 104	1 Tu 0241 0.4 12 0922 3.0 91 1505 0.7 21 2128 2.8 85	16 W 0254 -0.4 -12 0944 3.4 104 1526 0.1 3 2157 3.1 94	1 Th 0250 0.1 3 0938 2.7 82 1517 0.5 15 2143 2.5 76	16 F 0329 -0.5 -15 1017 3.0 91 1602 -0.1 -3 2232 2.7 82						
2 Su 0236 0.4 12 0911 3.0 91 1457 0.6 18 2122 2.9 88	17 M 0222 -0.2 -6 0910 3.6 110 1451 0.2 6 2124 3.4 104	2 W 0315 0.4 12 1000 2.9 88 1541 0.7 21 2205 2.7 82	17 Th 0346 -0.2 -6 1036 3.3 101 1620 0.2 6 2250 3.0 91	2 F 0326 0.2 6 1017 2.7 82 1554 0.5 15 2224 2.4 73	17 Sa 0422 -0.3 -9 1106 2.8 85 1655 0.0 0 2324 2.6 79						
3 M 0311 0.4 12 0948 3.0 91 1533 0.6 18 2157 2.8 85	18 Tu 0312 -0.2 -6 1002 3.5 107 1543 0.3 9 2215 3.3 101	3 Th 0350 0.5 15 1039 2.8 85 1617 0.8 24 2245 2.6 79	18 F 0442 -0.1 -3 1129 3.1 94 1717 0.3 9 2346 2.9 88	3 Sa 0403 0.2 6 1058 2.6 79 1634 0.5 15 2307 2.4 73	18 Su 0516 -0.1 -3 1156 2.7 82 1751 0.1 3						
4 Tu 0347 0.5 15 1026 2.9 88 1609 0.8 24 2234 2.7 82	19 W 0405 -0.1 -3 1054 3.4 104 1637 0.4 12 2308 3.2 98	4 F 0428 0.6 18 1120 2.7 82 1657 0.9 27 2327 2.5 76	19 Sa 0540 0.1 3 1224 3.0 91 1818 0.4 12	4 Su 0445 0.3 9 1141 2.5 76 1719 0.5 15 2354 2.3 70	19 M 0018 2.4 73 0612 0.1 3 1246 2.5 76 1848 0.2 6						
5 W 0423 0.6 18 1105 2.8 85 1647 0.9 27 2312 2.6 79	20 Th 0500 0.1 3 1149 3.3 101 1736 0.5 15	5 Sa 0510 0.6 18 1205 2.7 82 1744 0.9 27	20 Su 0045 2.7 82 0642 0.3 9 1320 2.8 85 1921 0.5 15	5 M 0533 0.3 9 1226 2.5 76 1810 0.5 15	20 Tu 0113 2.3 70 0710 0.2 6 1337 2.3 70 1946 0.2 6						
6 Th 0501 0.7 21 1147 2.7 82 1728 1.0 30 2354 2.6 79	21 F 0005 3.0 91 0601 0.3 9 1248 3.1 94 1839 0.6 18	6 Su 0015 2.5 76 0559 0.7 21 1255 2.6 79 1838 0.9 27	21 M 0147 2.6 79 0746 0.5 15 1419 2.7 82 0204 0.5 15	6 Tu 0047 2.3 70 0629 0.4 12 1317 2.4 73 1909 0.4 12	21 W 0211 2.2 67 0810 0.4 12 1430 2.2 67 2042 0.2 6						
7 F 0544 0.8 24 1234 2.6 79 1816 1.1 34	22 Sa 0107 2.9 88 0706 0.4 12 1349 3.0 91 01946 0.7 21	7 M 0110 2.4 73 0658 0.7 21 1349 2.6 79 01940 0.9 27	22 Tu 0250 2.5 76 0849 0.6 18 1517 2.6 79 2122 0.5 15	7 W 0147 2.3 70 0732 0.4 12 1412 2.4 73 02010 0.3 9	22 Th 0310 2.1 64 0908 0.4 12 1524 2.1 64 2136 0.2 6						
8 Sa 0042 2.5 76 0636 0.8 24 1327 2.6 79 01913 1.1 34	23 Su 0212 2.8 85 0814 0.6 18 1452 2.9 88 2052 0.7 21	8 Tu 0212 2.5 76 0804 0.7 21 1447 2.6 79 2043 0.7 21	23 W 0352 2.5 76 0947 0.6 18 1612 2.5 76 2215 0.4 12	8 Th 0251 2.4 73 0838 0.4 12 1511 2.5 76 2112 0.1 3	23 F 0408 2.1 64 1002 0.5 15 1616 2.1 64 2226 0.2 6						
9 Su 0138 2.5 76 0737 0.9 27 1425 2.6 79 2017 1.1 34	24 M 0319 2.8 85 0918 0.6 18 1554 2.8 85 2152 0.7 21	9 W 0317 2.6 79 0909 0.6 18 1546 2.7 82 2142 0.5 15	24 Th 0449 2.5 76 1040 0.6 18 1702 2.5 76 2302 0.4 12	9 F 0356 2.5 76 0942 0.3 9 1611 2.5 76 2211 -0.1 -3	24 Sa 0501 2.2 67 1052 0.4 12 1706 2.1 64 2312 0.1 3						
10 M 0241 2.5 76 0841 0.8 24 1525 2.6 79 2119 0.9 27	25 Tu 0422 2.8 85 1017 0.6 18 1651 2.8 85 2245 0.6 18	10 Th 0421 2.7 82 1010 0.5 15 1643 2.8 85 2238 0.3 9	25 F 0539 2.6 79 1127 0.6 18 1747 2.5 76 2345 0.3 9	10 Sa 0458 2.7 82 1042 0.2 6 1710 2.6 79 2307 -0.3 -9	25 Su 0550 2.2 67 1138 0.4 12 1753 2.1 64 2354 0.0 0						
11 Tu 0346 2.6 79 0943 0.7 21 1624 2.8 85 2215 0.7 21	26 W 0519 2.8 85 1109 0.6 18 1740 2.8 85 2332 0.5 15	11 F 0520 2.9 88 1106 0.4 12 1738 2.9 88 2330 0.0 0	26 Sa 0623 2.6 79 1210 0.5 15 1829 2.5 76	11 Su 0557 2.8 85 1139 0.1 3 1807 2.7 82	26 M 0634 2.3 70 1221 0.3 9 1838 2.2 67						
12 W 0448 2.8 85 1040 0.6 18 1718 2.9 88 2307 0.5 15	27 Th 0608 2.9 88 1155 0.6 18 1824 2.9 88	12 Sa 0616 3.1 94 1200 0.2 6 1830 3.1 94	27 Su 0025 0.2 6 0703 2.7 82 1250 0.5 15 1909 2.6 79	12 M 0001 -0.5 -15 0653 3.0 91 1233 0.0 0 1902 2.8 85	27 Tu 0035 -0.1 -3 0716 2.4 73 1302 0.3 9 1921 2.2 67						
13 Th 0545 3.0 91 1132 0.4 12 1809 3.1 94 2357 0.3 9	28 F 0014 0.4 12 0651 3.0 91 1237 0.6 18 1903 2.9 88	13 Su 0021 -0.2 -6 0710 3.3 101 1251 0.1 3 1922 3.2 98	28 M 0103 0.2 6 0742 2.7 82 1328 0.5 15 1947 2.6 79	13 Tu 0054 -0.6 -18 0746 3.1 94 1325 -0.1 -3 1956 2.9 88	28 W 0114 -0.1 -3 0757 2.4 73 1340 0.2 6 2002 2.3 70						
14 F 0638 3.2 98 1223 0.3 9 1858 3.2 98	29 Sa 0053 0.4 12 0731 3.0 91 1317 0.6 18 1940 2.9 88	14 M 0112 -0.3 -9 0801 3.4 104 1342 0.1 3 2013 3.2 98	29 Tu 0139 0.1 3 0821 2.8 85 1405 0.5 15 2026 2.6 79	14 W 0146 -0.6 -18 0837 3.1 94 1417 -0.2 -6 2048 2.9 88	29 Th 0151 -0.2 -6 0837 2.5 76 1418 0.2 6 2043 2.3 70						
15 Sa 0045 0.1 3 0730 3.4 104 1312 0.2 6 01947 3.3 101	30 Su 0130 0.4 12 0808 3.0 91 1354 0.6 18 2016 2.9 88	15 Tu 0202 -0.4 -12 0853 3.5 107 1433 0.1 3 2104 3.2 98	30 W 0215 0.1 3 0859 2.8 85 1441 0.5 15 2104 2.5 76	15 Th 0238 -0.6 -18 0927 3.1 94 1509 -0.1 -3 2140 2.8 85	30 F 0228 -0.2 -6 0917 2.5 76 1455 0.1 3 2124 2.3 70						
		31 M 0206 0.3 9 0845 3.0 91 1430 0.6 18 2052 2.8 85			31 Sa 0305 -0.2 -6 0956 2.5 76 1533 0.1 3 2206 2.3 70						

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Vaca Key, Florida Bay, Florida, 2016

Times and Heights of High and Low Waters

January					February					March							
Time	Height		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 0529	0.7	21	16 Sa 0623	0.6	18	1 M 0023	-0.1	-3	16 Tu 0053	-0.3	-9	1 O 0919	0.2	6	16 W 0021	-0.3	-9
1121	0.1	3	1117	0.1	3	0942	0.2	6	1026	0.3	9	1140	0.1	3	1003	0.3	9
1817	0.7	21	1832	0.8	24	1224	0.1	3	1233	0.2	6	1829	0.5	15	1209	0.2	6
●						1903	0.5	15	1910	0.7	21	●			1841	0.7	21
2 Sa 0007	0.2	6	17 Su 0011	0.0	0	2 Tu 0126	-0.2	-6	17 W 0200	-0.3	-9	2 W 0039	-0.3	-9	17 Th 0125	-0.3	-9
1213	0.2	6	0854	0.4	12	1112	0.2	6	1133	0.3	9	1918	0.5	15	1104	0.3	9
● 1855	0.6	18	1209	0.2	6	1320	0.1	3	1338	0.2	6				1320	0.2	6
			1906	0.8	24	1951	0.5	15	2002	0.6	18				1936	0.6	18
3 Su 0342	0.1	3	18 M 0123	-0.1	-3	3 W 0507	-0.2	-6	18 Th 0551	-0.3	-9	3 Th 0141	-0.3	-9	18 F 0229	-0.3	-9
1004	0.3	9	1038	0.4	12	1214	0.2	6	1226	0.3	9	2011	0.5	15	1154	0.3	9
1309	0.2	6	1304	0.2	6	1415	0.1	3	1442	0.2	6				1432	0.1	3
1939	0.6	18	1946	0.7	21	2043	0.5	15	2107	0.5	15				2045	0.5	15
4 M 0438	0.0	0	19 Tu 0231	-0.2	-6	4 Th 0614	-0.3	-9	19 F 0701	-0.3	-9	4 F 0241	-0.4	-12	19 Sa 0325	-0.2	-6
1130	0.3	9	1151	0.4	12	1304	0.3	9	1312	0.3	9	1235	0.3	9	1238	0.3	9
1404	0.2	6	1402	0.3	9	1505	0.2	6	1541	0.1	3	1436	0.2	6	1536	0.1	3
2027	0.6	18	2033	0.7	21	2142	0.5	15	2334	0.5	15	2113	0.5	15	2343	0.5	15
5 Tu 0536	-0.1	-3	20 W 0623	-0.3	-9	5 F 0408	-0.4	-12	20 Sa 0800	-0.3	-9	5 Sa 0335	-0.3	-9	20 Su 0414	-0.2	-6
1232	0.4	12	1249	0.4	12	1347	0.4	12	1354	0.4	12	1314	0.4	12	1317	0.4	12
1454	0.3	9	1459	0.3	9	1552	0.3	9	1634	0.1	3	1530	0.3	9	1629	0.1	3
2119	0.6	18	2132	0.7	21	2249	0.6	18				2233	0.5	15			
6 W 0636	-0.1	-3	21 Th 0732	-0.3	-9	6 Sa 0453	-0.3	-9	21 Su 0042	0.6	18	6 Su 0424	-0.3	-9	21 M 0046	0.5	15
1324	0.5	15	1338	0.4	12	1425	0.5	15	0526	-0.3	-9	1347	0.4	12	0456	-0.1	-3
1539	0.4	12	1554	0.3	9	1637	0.3	9	1431	0.4	12	1620	0.3	9	1352	0.4	12
2215	0.7	21	2258	0.7	21	2358	0.7	21	1722	0.1	3				1714	0.1	3
7 Th 0439	-0.2	-6	22 F 0508	-0.3	-9	7 Su 0537	-0.3	-9	22 M 0132	0.6	18	7 M 0008	0.6	18	22 Tu 0139	0.5	15
1409	0.5	15	1423	0.5	15	1458	0.5	15	0605	-0.1	-3	0510	-0.2	-6	0536	0.0	0
1621	0.4	12	1644	0.3	9	1723	0.4	12	1505	0.5	15	1417	0.5	15	1421	0.5	15
2313	0.8	24				● 1807	0.1	3				1709	0.2	6	1756	0.1	3
8 F 0519	-0.2	-6	23 Sa 0021	0.8	24	8 M 0059	0.8	24	23 Tu 0215	0.7	21	8 Tu 0117	0.7	21	23 W 0225	0.6	18
1451	0.6	18	0549	-0.3	-9	0620	-0.2	-6	0644	-0.1	-3	1532	0.5	15	0614	0.1	3
1701	0.5	15	1504	0.5	15	1527	0.6	18	1851	0.1	3	1441	0.6	18	1441	0.5	15
● 1733	0.3	9				● 1811	0.3	9				● 1758	0.2	6	● 1835	0.0	0
9 Sa 0008	0.9	27	24 Su 0111	0.8	24	9 Tu 0153	0.9	27	24 W 0250	0.7	21	9 W 0215	0.8	24	24 Th 0307	0.6	18
0600	-0.2	-6	0630	-0.2	-6	0702	-0.1	-3	0723	0.0	0	0634	0.1	3	0652	0.2	6
1528	0.7	21	1541	0.6	18	1551	0.6	18	1546	0.5	15	1501	0.7	21	1438	0.6	18
● 1743	0.5	15	1819	0.3	9	1900	0.3	9	1934	0.1	3	1848	0.1	3	1915	0.0	0
10 Su 0100	1.0	30	25 M 0151	0.8	24	10 W 0246	0.9	27	25 Th 0322	0.7	21	10 Th 0309	0.8	24	25 F 0345	0.6	18
0642	-0.2	-6	0710	-0.1	-3	0745	0.0	0	0802	0.0	0	0716	0.2	6	0730	0.2	6
1603	0.7	21	1614	0.6	18	1610	0.7	21	1538	0.6	18	1514	0.8	24	1439	0.7	21
1827	0.6	18	1906	0.3	9	1952	0.2	6	2018	0.0	0	1939	0.0	0	1955	-0.1	-3
11 M 0149	1.0	30	26 Tu 0227	0.8	24	11 Th 0338	0.9	27	26 F 0353	0.6	18	11 F 0404	0.8	24	26 Sa 0421	0.6	18
0726	-0.1	-3	0751	-0.1	-3	0828	0.0	0	0842	0.1	3	0758	0.2	6	0809	0.3	9
1633	0.8	24	1640	0.6	18	1626	0.7	21	1549	0.6	18	1529	0.8	24	1508	0.7	21
1914	0.5	15	1953	0.3	9	2046	0.1	3	2104	0.0	0	2031	-0.1	-3	2038	-0.1	-3
12 Tu 0237	1.1	34	27 W 0305	0.8	24	12 F 0433	0.8	24	27 Sa 0431	0.5	15	12 Sa 0501	0.7	21	27 Su 0457	0.6	18
0810	-0.1	-3	0832	0.0	0	0912	0.1	3	0923	0.1	3	0840	0.3	9	0848	0.3	9
1700	0.8	24	1651	0.6	18	1644	0.8	24	1621	0.7	21	1553	0.9	27	1546	0.8	24
2005	0.5	15	2041	0.2	6	2142	0.0	0	2152	-0.1	-3	2124	-0.2	-6	2123	-0.2	-6
13 W 0327	1.0	30	28 Th 0345	0.7	21	13 Sa 0536	0.6	18	28 Su 0515	0.4	12	13 Su 0606	0.6	18	28 M 0540	0.5	15
0855	0.0	0	0914	0.0	0	0956	0.1	3	1006	0.1	3	0925	0.3	9	0929	0.3	9
1723	0.8	24	1642	0.6	18	1710	0.8	24	1701	0.6	18	1627	0.9	27	1627	0.7	21
2059	0.4	12	2131	0.2	6	2242	-0.1	-3	2243	-0.2	-6	2220	-0.2	-6	2212	-0.3	-9
14 Th 0419	0.9	27	29 F 0429	0.6	18	14 Su 0707	0.4	12	29 M 0608	0.3	9	14 M 0723	0.5	15	29 Tu 0655	0.4	12
0941	0.0	0	0958	0.0	0	1044	0.2	6	1051	0.1	3	1012	0.3	9	1012	0.3	9
1742	0.8	24	1701	0.6	18	1744	0.8	24	1744	0.6	18	1707	0.9	27	1712	0.7	21
2158	0.3	9	2224	0.1	3	2346	-0.2	-6	2339	-0.3	-9	2319	-0.3	-9	2304	-0.3	-9
15 F 0515	0.8	24	30 Sa 0516	0.5	15	15 M 0859	0.3	9				15 Tu 0847	0.4	12	30 W 0851	0.4	12
1028	0.1	3	1043	0.1	3	1135	0.2	6	1824	0.7	21	1752	0.8	24	1100	0.3	9
1804	0.8	24	1737	0.6	18							●			1758	0.6	18
2303	0.2	6	2322	0.0	0	●									31 Th 0002	-0.3	-9
			31 Su 0608	0.3	9										1447	0.4	12
			1131	0.1	3										1550	0.4	12
			1818	0.6	18										1847	0.6	18

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.

Heights are referred to mean lower low water which is the chart datum of soundings.

Vaca Key, Florida Bay, Florida, 2016

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
1 F 0103 0.3 -9 1111 0.4 12 1306 0.3 9 1941 0.5 15	16 Sa 0151 0.2 -6	1 Su 0128 0.2 -6	16 M 0208 0.0 0	1 W 0239 0.2 6	16 Th 0025 0.3 9										
	1114 0.4 12	1114 0.4 12	1058 0.5 15	1107 0.5 15	1046 0.7 21	0310 0.2 6									
	1429 0.2 6	1354 0.3 9	1653 0.1 3	1653 0.1 3	1541 0.0 0	0940 0.6 18									
	2019 0.4 12	2030 0.5 15	2332 0.3 9	2332 0.3 9	1657 -0.1 -3	1657 -0.1 -3									
2 Sa 0204 -0.3 -9 1154 0.4 12 1413 0.3 9 2047 0.5 15	17 Su 0248 -0.1 -3	2 M 0225 -0.1 -3	17 Tu 0300 0.0 0	2 Th 0043 0.5 15	17 F 0121 0.4 12										
	1157 0.4 12	1134 0.5 15	1143 0.5 15	1110 0.8 24	0354 0.2 6										
	1540 0.1 3	1459 0.2 6	1745 0.0 0	1633 -0.1 -3	1032 0.6 18										
	2340 0.4 12	2321 0.5 15			1657 -0.2 -6										
3 Su 0301 -0.2 -6 1229 0.4 12 1513 0.3 9 2246 0.5 15	18 M 0338 0.0 0	3 Tu 0316 0.1 3	18 W 0037 0.4 12	3 F 0143 0.6 18	18 Sa 0210 0.5 15										
	1235 0.5 15	1204 0.6 18	1555 0.1 3	1210 0.5 15	0414 0.4 12										
	1629 0.0 0	1629 0.0 0	1656 -0.1 -3	1721 -0.2 -6	1124 0.7 21										
					1731 -0.2 -6										
4 M 0352 -0.1 -3 1300 0.5 15 1607 0.2 6	19 Tu 0044 0.4 12	4 W 0040 0.6 18	19 Th 0132 0.4 12	4 Sa 0236 0.6 18	19 Su 0254 0.5 15										
	0422 0.0 0	0403 0.2 6	0428 0.2 6	0459 0.5 15	0511 0.4 12										
	1307 0.5 15	1229 0.7 21	1218 0.6 18	1208 1.0 30	1212 0.8 24										
	1707 0.0 0	1646 0.0 0	1723 -0.1 -3	1807 -0.2 -6	1808 -0.2 -6										
5 Tu 0030 0.6 18 0438 0.0 0 1327 0.6 18 1658 0.1 3	20 W 0138 0.5 15	5 Th 0143 0.7 21	20 F 0221 0.5 15	5 Su 0325 0.7 21	20 M 0336 0.6 18										
	0502 0.1 3	0447 0.3 9	0506 0.3 9	0543 0.5 15	0549 0.5 15										
	1330 0.6 18	1247 0.8 24	1211 0.7 21	1249 1.1 34	1258 0.9 27										
	1742 0.0 0	1735 -0.1 -3	1755 -0.1 -3	1852 -0.2 -6	1848 -0.2 -6										
6 W 0135 0.7 21 0521 0.1 3 1348 0.7 21 1747 0.0 0	21 Th 0226 0.6 18	6 F 0239 0.7 21	21 Sa 0306 0.6 18	6 M 0412 0.7 21	21 Tu 0415 0.7 21										
	0541 0.2 6	0530 0.4 12	0544 0.4 12	0629 0.5 15	0629 0.5 15										
	1336 0.6 18	1301 0.9 27	1243 0.8 24	1334 1.1 34	1344 1.0 30										
	1817 0.0 0	● 1822 -0.2 -6	1831 -0.1 -3	1937 -0.2 -6	1929 -0.2 -6										
7 Th 0232 0.8 24 0603 0.3 9 1403 0.8 24 ● 1836 0.0 0	22 F 0310 0.6 18	7 Sa 0331 0.8 24	22 Su 0349 0.6 18	7 Tu 0457 0.7 21	22 W 0450 0.7 21										
	0618 0.3 9	0612 0.5 15	0621 0.4 12	0716 0.5 15	0712 0.6 18										
	1329 0.7 21	1323 1.0 30	1322 0.9 27	1420 1.1 34	1429 1.0 30										
	○ 1853 -0.1 -3	1909 -0.2 -6	1909 -0.2 -6	2023 -0.2 -6	2013 -0.1 -3										
8 F 0326 0.8 24 0644 0.4 12 1416 0.9 27 1925 -0.1 -3	23 Sa 0352 0.6 18	8 Su 0422 0.8 24	23 M 0430 0.7 21	8 W 0540 0.7 21	23 Th 0524 0.7 21										
	0656 0.4 12	0655 0.5 15	0659 0.5 15	0805 0.5 15	0758 0.6 18										
	1355 0.8 24	1358 1.1 34	1404 0.9 27	1506 1.1 34	1515 1.1 34										
	1932 -0.1 -3	1956 -0.2 -6	1951 -0.2 -6	2109 -0.1 -3	2059 -0.1 -3										
9 Sa 0420 0.8 24 0726 0.4 12 1438 1.0 30 2014 -0.2 -6	24 Su 0433 0.6 18	9 M 0512 0.7 21	24 Tu 0511 0.7 21	9 Th 0622 0.6 18	24 F 0555 0.7 21										
	0734 0.4 12	0740 0.5 15	0739 0.5 15	0858 0.5 15	0849 0.5 15										
	1433 0.9 27	1439 1.1 34	1448 1.0 30	1553 1.0 30	1603 1.0 30										
	2013 -0.2 -6	2044 -0.2 -6	2035 -0.2 -6	2156 -0.1 -3	2146 -0.1 -3										
10 Su 0514 0.7 21 0809 0.5 15 1511 1.0 30 2105 -0.2 -6	25 M 0515 0.6 18	10 Tu 0602 0.7 21	25 W 0552 0.7 21	10 F 0703 0.6 18	25 Sa 0623 0.7 21										
	0812 0.4 12	0827 0.5 15	0821 0.5 15	0957 0.4 12	0946 0.5 15										
	1514 0.9 27	1524 1.1 34	1533 1.0 30	1640 0.8 24	1654 0.9 27										
	2058 -0.2 -6	2133 -0.2 -6	2122 -0.2 -6	2246 -0.1 -3	2235 0.0 0										
11 M 0612 0.6 18 0854 0.4 12 1551 1.0 30 2157 -0.2 -6	26 Tu 0602 0.6 18	11 W 0655 0.6 18	26 Th 0636 0.7 21	11 Sa 0744 0.6 18	26 Su 0649 0.7 21										
	0853 0.5 15	0919 0.5 15	0909 0.5 15	1103 0.4 12	1049 0.4 12										
	1558 0.9 27	1612 1.0 30	1619 0.9 27	1729 0.7 21	1750 0.7 21										
	2145 -0.2 -6	2224 -0.2 -6	2211 -0.2 -6	2338 0.0 0	2326 0.0 0										
12 Tu 0716 0.5 15 0944 0.4 12 1636 1.0 30 2251 -0.2 -6	27 W 0701 0.6 18	12 Th 0749 0.6 18	27 F 0723 0.6 18	12 Su 0824 0.5 15	27 M 0716 0.7 21										
	0937 0.5 15	1018 0.4 12	1003 0.5 15	1220 0.3 9	1159 0.3 9										
	1643 0.8 24	1700 0.9 27	1707 0.8 24	1820 0.5 15	1857 0.6 18										
	2236 -0.3 -9	2317 -0.1 -3	2303 -0.2 -6	● 2338 0.0 0	● 2326 0.0 0										
13 W 0824 0.5 15 1040 0.4 12 1724 0.8 24 ● 2349 -0.2 -6	28 Th 0814 0.5 15	13 F 0845 0.5 15	28 Sa 0812 0.6 18	13 M 0033 0.0 0	28 Tu 0018 0.1 3										
	1027 0.4 12	1128 0.4 12	1128 0.4 12	1108 0.5 15	0746 0.7 21										
	1730 0.8 24	1751 0.7 21	1800 0.7 21	1542 0.1 3	1312 0.1 3										
	2331 -0.3 -9	● 2358 -0.1 -3	2358 -0.1 -3	1920 0.3 9	2156 0.4 12										
14 Th 0929 0.4 12 1148 0.3 9 1815 0.7 21	29 F 0923 0.5 15	14 Sa 0014 -0.1 -3	29 Su 0859 0.6 18	14 Tu 0128 0.0 0	29 W 0111 0.2 6										
	1129 0.4 12	0938 0.5 15	1220 0.4 12	0808 0.5 15	0820 0.7 21										
	1820 0.7 21	1250 0.3 9	1900 0.6 18	1640 0.0 0	1421 0.0 0										
	● 1815 0.7 21	1845 0.5 15	● 1845 0.5 15	2319 0.3 9	2330 0.4 12										
15 F 0050 -0.2 -6 1026 0.4 12 1307 0.2 6 1910 0.5 15	30 Sa 0029 -0.2 -6	15 Su 0112 -0.1 -3	30 M 0053 0.0 0	15 W 0222 0.1 3	30 Th 0204 0.3 9										
	1016 0.5 15	1025 0.5 15	1551 0.2 6	0940 0.6 18	0859 0.8 24										
	1241 0.4 12	1551 0.2 6	1334 0.2 6	2042 0.4 12	1523 0.4 12										
	1916 0.6 18	1948 0.4 12	2330 0.5 15	● 2330 0.5 15	● 2330 0.5 15										

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Vaca Key, Florida Bay, Florida, 2016

Times and Heights of High and Low Waters

July				August				September			
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height
1 F 0038 0.5 15 0256 0.3 9 0946 0.8 24 1617 -0.2 -6	h m ft cm	16 Sa 0104 0.4 12 0321 0.3 9 0955 0.7 21 1922 -0.1 -3	h m ft cm	1 M 0201 0.6 18 0418 0.5 15 1204 1.0 30 1730 -0.1 -3	h m ft cm	16 Tu 0204 0.7 21 0420 0.6 18 1144 1.0 30 1719 0.1 3	h m ft cm	1 Th 0242 0.9 27 0546 0.5 15 1408 1.1 34 1826 0.4 12	h m ft cm	16 F 0218 1.0 30 0537 0.7 21 1400 1.3 40 1813 0.6 18	
2 Sa 0134 0.5 15 0345 0.4 12 1043 0.9 27 1705 -0.3 -9	h m ft cm	17 Su 0152 0.5 15 0403 0.4 12 1055 0.8 24 2023 -0.1 -3	h m ft cm	2 Tu 0242 0.7 21 0508 0.5 15 1303 1.0 30 1812 0.0 0	h m ft cm	17 W 0238 0.8 24 0504 0.6 18 1246 1.1 34 1801 0.2 6	h m ft cm	2 F 0311 0.9 27 0631 0.5 15 1450 1.1 34 1905 0.5 15	h m ft cm	17 Sa 0236 1.1 34 0625 0.6 18 1453 1.3 40 1854 0.7 21	
3 Su 0224 0.6 18 0434 0.4 12 1146 1.0 30 1750 -0.2 -6	h m ft cm	18 M 0234 0.6 18 0443 0.5 15 1152 0.9 27 1745 -0.1 -3	h m ft cm	3 W 0320 0.7 21 0556 0.5 15 1349 1.1 34 1853 0.1 3	h m ft cm	18 Th 0306 0.9 27 0550 0.6 18 1340 1.2 37 1842 0.3 9	h m ft cm	3 Sa 0330 1.0 30 0715 0.5 15 1527 1.1 34 1945 0.6 18	h m ft cm	18 Su 0249 1.2 37 0714 0.5 15 1546 1.3 40 1935 0.8 24	
4 M 0309 0.6 18 0521 0.5 15 1242 1.0 30 ● 1833 -0.2 -6	h m ft cm	19 Tu 0312 0.6 18 0523 0.5 15 1245 1.0 30 1825 -0.1 -3	h m ft cm	4 Th 0354 0.8 24 0643 0.5 15 1428 1.1 34 1934 0.2 6	h m ft cm	19 F 0330 0.9 27 0637 0.6 18 1431 1.2 37 1924 0.4 12	h m ft cm	4 Su 0326 1.0 30 0759 0.5 15 1559 1.1 34 2025 0.6 18	h m ft cm	19 M 0305 1.3 40 0804 0.4 12 1641 1.3 40 2017 0.9 27	
5 Tu 0351 0.7 21 0609 0.5 15 1330 1.1 34 1916 -0.1 -3	h m ft cm	20 W 0346 0.7 21 0606 0.6 18 1334 1.1 34 1907 0.0 0	h m ft cm	5 F 0423 0.8 24 0731 0.5 15 1503 1.1 34 2015 0.3 9	h m ft cm	20 Sa 0348 1.0 30 0727 0.6 18 1522 1.2 37 2006 0.4 12	h m ft cm	5 M 0329 1.1 34 0843 0.4 12 1629 1.0 30 2106 0.6 18	h m ft cm	20 Tu 0330 1.4 43 0856 0.4 12 1741 1.2 37 2101 0.9 27	
6 W 0430 0.7 21 0657 0.5 15 1414 1.1 34 1959 0.0 0	h m ft cm	21 Th 0416 0.8 24 0652 0.6 18 1421 1.1 34 1950 0.0 0	h m ft cm	6 Sa 0441 0.8 24 0819 0.4 12 1539 1.0 30 2057 0.3 9	h m ft cm	21 Su 0403 1.1 34 0819 0.5 15 1615 1.2 37 2049 0.5 15	h m ft cm	6 Tu 0400 1.1 34 0930 0.4 12 1704 0.9 27 2149 0.6 18	h m ft cm	21 W 0405 1.5 46 0950 0.3 9 1851 1.1 34 2147 0.9 27	
7 Th 0506 0.7 21 0747 0.5 15 1457 1.0 30 2043 0.0 0	h m ft cm	22 F 0441 0.8 24 0741 0.6 18 1510 1.1 34 2034 0.1 3	h m ft cm	7 Su 0434 0.9 27 0909 0.4 12 1618 0.9 27 2141 0.3 9	h m ft cm	22 M 0422 1.1 34 0913 0.4 12 1714 1.1 34 2133 0.6 18	h m ft cm	7 W 0439 1.1 34 1020 0.3 9 1749 0.8 24 2235 0.6 18	h m ft cm	22 Th 0446 1.4 43 1047 0.3 9 2011 1.0 30 2239 0.8 24	
8 F 0538 0.7 21 0839 0.4 12 1540 1.0 30 2128 0.1 3	h m ft cm	23 Sa 0502 0.9 27 0833 0.5 15 1600 1.1 34 2119 0.2 6	h m ft cm	8 M 0445 0.9 27 1001 0.3 9 1701 0.8 24 2226 0.3 9	h m ft cm	23 Tu 0450 1.2 37 1011 0.3 9 1830 0.9 27 2219 0.6 18	h m ft cm	8 Th 0523 1.1 34 1114 0.3 9 2039 0.7 21 2324 0.6 18	h m ft cm	23 F 0532 1.4 43 1148 0.3 9 2128 0.9 27 ● 2339 0.8 24	
9 Sa 0600 0.7 21 0934 0.4 12 1625 0.8 24 2214 0.1 3	h m ft cm	24 Su 0521 0.9 27 0930 0.4 12 1654 0.9 27 2205 0.2 6	h m ft cm	9 Tu 0518 0.9 27 1057 0.2 6 1748 0.6 18 2314 0.3 9	h m ft cm	24 W 0525 1.2 37 1112 0.2 6 2016 0.8 24 ● 2309 0.6 18	h m ft cm	9 F 0610 1.0 30 1213 0.2 6 2215 0.7 21 ● 2309 0.6 18	h m ft cm	24 Sa 0623 1.3 40 1252 0.3 9 2232 0.9 27	
10 Su 0553 0.7 21 1034 0.3 9 1711 0.7 21 2302 0.1 3	h m ft cm	25 M 0544 0.9 27 1031 0.3 9 1756 0.8 24 2253 0.3 9	h m ft cm	10 W 0558 0.9 27 1157 0.2 6 2102 0.5 15	h m ft cm	25 Th 0606 1.2 37 1217 0.1 3 2150 0.7 21	h m ft cm	10 Sa 0021 0.6 18 0700 1.0 30 1316 0.2 6 2321 0.7 21	h m ft cm	25 Su 0050 0.8 24 0719 1.2 37 1357 0.3 9 2325 0.9 27	
11 M 0604 0.7 21 1139 0.2 6 1801 0.5 15 ● 2354 0.1 3	h m ft cm	26 Tu 0613 0.9 27 1137 0.2 6 1944 0.6 18 ● 2343 0.3 9	h m ft cm	11 Th 0007 0.4 12 0643 0.8 24 1301 0.1 3 2242 0.5 15	h m ft cm	26 F 0005 0.6 18 0652 1.1 34 1325 0.1 3 2302 0.7 21	h m ft cm	11 Su 0124 0.6 18 0755 1.0 30 1418 0.2 6	h m ft cm	26 M 0204 0.7 21 0832 1.1 34 1458 0.3 9	
12 Tu 0638 0.7 21 1250 0.1 3 1858 0.3 9	h m ft cm	27 W 0648 0.9 27 1246 0.1 3 2200 0.5 15	h m ft cm	12 F 0104 0.4 12 0732 0.8 24 1641 0.1 3 2349 0.5 15	h m ft cm	27 Sa 0108 0.6 18 0745 1.1 34 1431 0.1 3 2359 0.7 21	h m ft cm	12 M 0010 0.8 24 0223 0.7 21 0857 1.0 30 1515 0.2 6	h m ft cm	27 Tu 0010 0.9 27 0311 0.6 18 1121 1.0 30 1551 0.4 12	
13 W 0048 0.2 6 0719 0.6 18 1612 0.0 0 2303 0.3 9	h m ft cm	28 Th 0036 0.4 12 0728 0.9 27 1355 -0.1 -3 2321 0.5 15	h m ft cm	13 Sa 0200 0.4 12 0826 0.8 24 1749 0.0 0	h m ft cm	28 Su 0213 0.6 18 0850 1.0 30 1837 0.1 3	h m ft cm	13 Tu 0050 0.8 24 0315 0.7 21 1017 1.0 30 1605 0.3 9	h m ft cm	28 W 0051 0.9 27 0408 0.6 18 1229 1.1 34 1636 0.5 15	
14 Th 0144 0.2 6 0806 0.6 18 1712 -0.1 -3	h m ft cm	29 F 0133 0.4 12 0815 0.9 27 1800 -0.1 -3	h m ft cm	14 Su 0041 0.5 15 0251 0.4 12 0925 0.8 24 1856 0.0 0	h m ft cm	29 M 0046 0.7 21 0314 0.6 18 1107 1.0 30 1941 0.2 6	h m ft cm	14 W 0124 0.9 27 0403 0.7 21 1155 1.1 34 1650 0.4 12	h m ft cm	29 Th 0127 1.0 30 0455 0.6 18 1325 1.1 34 1717 0.6 18	
15 F 0010 0.3 9 0235 0.2 6 0858 0.6 18 1816 -0.1 -3	h m ft cm	30 Sa 0023 0.5 15 0230 0.4 12 0911 0.9 27 1913 -0.1 -3	h m ft cm	15 M 0126 0.6 18 0337 0.5 15 1033 0.9 27 1957 0.1 3	h m ft cm	30 Tu 0129 0.8 24 0410 0.5 15 1224 1.0 30 1706 0.2 6	h m ft cm	15 Th 0153 1.0 30 0450 0.7 21 1304 1.2 37 1732 0.5 15	h m ft cm	30 F 0158 1.0 30 0538 0.6 18 1414 1.2 37 ● 1756 0.7 21	
31 Su 0115 0.6 18 0325 0.4 12 1031 0.9 27 2019 -0.1 -3	h m ft cm	31 W 0207 0.8 24 0500 0.5 15 1320 1.1 34 1746 0.3 9	h m ft cm	31 W 0207 0.8 24 0500 0.5 15 1320 1.1 34 1746 0.3 9	h m ft cm	31 W 0207 0.8 24 0500 0.5 15 1320 1.1 34 1746 0.3 9	h m ft cm	31 W 0207 0.8 24 0500 0.5 15 1320 1.1 34 1746 0.3 9	h m ft cm	31 W 0207 0.8 24 0500 0.5 15 1320 1.1 34 1746 0.3 9	

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Vaca Key, Florida Bay, Florida, 2016

Times and Heights of High and Low Waters

October				November				December				
Time	Height	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 0221	1.1	34	16 Su 0134	1.3	40	1 Tu 0130	1.3	40	1 Th 0143	1.2	37	
0617	0.5	15	0613	0.5	15	0714	0.4	12	0732	0.1	3	
1459	1.2	37	1508	1.4	43	1622	1.1	34	1649	1.2	37	
1834	0.7	21	1822	0.9	27	1918	0.9	27	1918	1.0	30	
2 Su 0223	1.1	34	17 M 0148	1.4	43	2 W 0209	1.3	40	2 Th 0217	1.6	49	
0657	0.5	15	0700	0.4	12	0754	0.3	9	0819	0.2	6	
1541	1.2	37	1600	1.4	43	1702	1.1	34	1737	1.1	34	
1913	0.8	24	1903	1.0	30	1957	0.9	27	2005	1.0	30	
3 M 0216	1.2	37	18 Tu 0212	1.5	46	3 Th 0252	1.4	43	18 F 0304	1.5	46	
0737	0.5	15	0749	0.3	9	0837	0.3	9	0908	0.2	6	
1619	1.2	37	1652	1.3	40	1743	1.1	34	1825	1.1	34	
1952	0.8	24	1946	1.0	30	2037	0.9	27	2056	0.9	27	
4 Tu 0244	1.3	40	19 W 0247	1.6	49	4 F 0336	1.4	43	19 Sa 0352	1.4	43	
0818	0.4	12	0838	0.3	9	0922	0.3	9	0957	0.2	6	
1656	1.1	34	1747	1.2	37	1830	1.1	34	1915	1.0	30	
2031	0.9	27	2031	1.0	30	2120	0.9	27	2153	0.8	24	
5 W 0322	1.3	40	20 Th 0329	1.6	49	5 Sa 0423	1.3	40	20 Su 0442	1.3	40	
0902	0.4	12	0929	0.3	9	1011	0.3	9	1049	0.3	9	
1735	1.1	34	1846	1.2	37	1930	1.0	30	2007	1.0	30	
2112	0.9	27	2119	1.0	30	2209	0.9	27	2300	0.8	24	
6 Th 0405	1.3	40	21 F 0415	1.5	46	6 Su 0511	1.2	37	21 M 0534	1.1	34	
0949	0.3	9	1022	0.3	9	1104	0.3	9	1144	0.3	9	
1829	1.0	30	1949	1.1	34	2039	1.0	30	2059	0.9	27	
2155	0.9	27	2214	0.9	27	2308	0.9	27	2352	0.6	18	
7 F 0451	1.3	40	22 Sa 0504	1.4	43	7 M 0602	1.1	34	22 Tu 0639	0.9	27	
1039	0.3	9	1119	0.3	9	1200	0.3	9	1223	0.3	9	
2010	0.9	27	2054	1.0	30	2138	1.0	30	2027	0.8	24	
2243	0.8	24	2319	0.9	27	2319	0.9	27	2148	0.9	27	
8 Sa 0539	1.2	37	23 Su 0557	1.3	40	8 Tu 0018	0.8	24	23 W 0149	0.6	18	
1135	0.3	9	1218	0.4	12	0658	1.0	30	0738	0.8	24	
2138	0.9	27	2152	1.0	30	1259	0.4	12	1340	0.4	12	
2341	0.8	24	2224	0.9	27	2224	0.9	27	2233	0.9	27	
9 Su 0630	1.1	34	24 M 0035	0.8	24	9 W 0131	0.7	21	24 Th 0429	0.4	12	
1235	0.3	9	0654	1.1	34	0809	0.9	27	1114	0.7	21	
2240	0.9	27	1320	0.4	12	1358	0.4	12	1436	0.5	15	
2243	1.0	30	2243	1.0	30	2301	1.0	30	2313	0.9	27	
10 M 0048	0.8	24	25 Tu 0158	0.7	21	10 Th 0237	0.6	18	25 F 0518	0.3	9	
0725	1.1	34	0809	1.0	30	1058	0.9	27	1221	0.8	24	
1338	0.3	9	1420	0.5	15	1451	0.5	15	1526	0.5	15	
2326	0.9	27	2327	1.0	30	2331	1.0	30	2344	0.9	27	
11 Tu 0157	0.8	24	26 W 0315	0.6	18	11 F 0334	0.5	15	10 Sa 0315	0.2	6	
0830	1.0	30	1121	1.0	30	1222	1.0	30	1223	0.7	21	
1437	0.4	12	1514	0.5	15	1540	0.7	21	1503	0.6	18	
2756	1.0	30	2355	1.1	34	2357	0.9	27	2207	1.0	30	
1023	1.0	30	27	0007	1.0	30	12 Sa 0445	0.2	6	11 Tu 0408	0.1	3
1530	0.5	15	0411	0.5	15	1324	1.1	34	1317	0.8	24	
1602	0.6	18	1227	1.0	30	1625	0.8	24	1611	0.6	18	
1616	0.6	18	1602	0.6	18	2340	1.0	30	2357	0.9	27	
14 F 0034	1.0	30	28 F 0041	1.0	30	13 Su 0511	1.2	37	12 M 0457	0.0	0	
0349	0.7	21	0451	0.5	15	0512	0.3	9	1416	0.9	27	
1214	1.1	34	1323	1.0	30	1420	1.2	37	1637	0.7	21	
1616	0.6	18	1644	0.7	21	1708	0.9	27	2334	1.1	34	
1400	1.1	34	29 M 0108	1.1	34	14 M 0027	1.3	40	14 F 0024	1.2	37	
0438	0.6	18	0526	0.4	12	0559	0.2	6	0615	0.2	6	
1318	1.2	37	1413	1.1	34	1511	1.2	37	1534	0.9	27	
1700	0.7	21	1724	0.7	21	1750	1.0	30	1809	0.8	24	
15 Sa 0121	1.2	37	● 1803	0.8	24	● 1809	0.8	24	● 1818	0.6	18	
0525	0.6	18	30 M 0118	1.1	34	15 Tu 0055	1.4	43	15 W 0100	1.2	37	
1415	1.3	40	0601	0.4	12	0645	0.2	6	0652	0.1	3	
1741	0.8	24	1459	1.1	34	1601	1.2	37	1614	1.0	30	
2031	0.8	24	1840	0.9	27	1833	1.0	30	1846	0.8	24	
31 M 0104	1.2	37	31 M 0637	0.4	12	● 1803	0.8	24	● 1818	0.6	18	
1658	1.1	34	1542	1.1	34	1840	0.9	27	● 1818	0.6	18	
1944	0.6	18	1840	0.9	27	31 Sa 0213	1.1	34	31 Sa 0752	0.0	0	
1859	0.6	18	31 M 0637	0.4	12	● 1803	0.8	24	31 Sa 1658	0.8	24	
1944	0.6	18	1542	1.1	34	1840	0.9	27	31 M 1944	0.6	18	

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Key West, Florida, 2016

Times and Heights of High and Low Waters

January				February				March						
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height			
h m	ft	cm		h m	ft	cm		h m	ft	cm				
1 F 0203	1.3	40		16 Sa 0221	1.2	37		1 M 0333	0.8	24				
0831	0.2	6		0808	0.0	0		0504	0.8	24				
1502	1.3	40		Sa 1454	1.4	43		0929	0.3	9				
2114	0.4	12		● 2110	0.0	0		1631	1.5	46				
					2243	0.1	3		2331	-0.2	-6			
2 Sa 0308	1.1	34		17 Su 0341	1.0	30		17 W 0500	0.7	21				
0919	0.3	9		0902	0.2	6		0949	0.4	12				
1552	1.3	40		1553	1.5	46		1634	1.3	40				
● 2228	0.3	9		2230	-0.1	-3		1747	1.5	46				
					2348	0.0	0		2258	0.0	0			
3 Su 0426	1.0	30		18 M 0512	0.9	27		18 Th 0623	0.7	21				
1008	0.4	12		1000	0.2	6		1048	0.4	12				
1643	1.4	43		1657	1.6	49		1736	1.4	43				
2333	0.2	6		2344	-0.2	-6			1147	0.2	6			
									1854	1.6	49			
4 M 0548	0.9	27		19 Tu 0635	0.9	27		19 F 0043	-0.1	-3				
1056	0.4	12		1100	0.3	9		0724	0.8	24				
1733	1.4	43		1802	1.7	52		1145	0.3	9				
									1247	0.2	6			
									1949	1.6	49			
5 Tu 0029	0.1	3		20 W 0749	-0.3	-9		20 F 0129	-0.3	-9				
0656	0.9	27		0741	0.9	27		0811	0.8	24				
1141	0.4	12		1159	0.2	6		1237	0.3	9				
1821	1.5	46		1901	1.7	52		1926	1.6	49				
									2036	1.6	49			
6 W 0116	-0.1	-3		21 Th 0833	-0.4	-12		6 Sa 0210	-0.4	-12				
0750	1.0	30		0833	0.9	27		0851	0.9	27				
1224	0.4	12		1255	0.2	6		1325	0.2	6				
1906	1.6	49		1954	1.8	55		2014	1.7	52				
									2117	1.6	49			
7 Th 0157	-0.2	-6		22 F 0917	-0.4	-12		7 Su 0249	-0.5	-15				
0835	1.0	30		0917	0.9	27		0928	1.0	30				
1306	0.4	12		1346	0.1	3		1413	0.1	3				
1949	1.7	52		2042	1.8	55		2101	1.8	55				
									O 2154	1.6	49			
8 F 0235	-0.3	-9		23 Sa 0315	-0.4	-12		8 M 0327	-0.5	-15				
0915	1.0	30		0956	1.0	30		1005	1.1	34				
1347	0.3	9		1435	0.1	3		1501	0.0	0				
2031	1.8	55		● 2125	1.8	55		● 2148	1.8	55				
									2230	1.6	49			
9 Sa 0313	-0.4	-12		24 Su 0355	-0.4	-12		9 Tu 0405	-0.5	-15				
0954	1.1	34		1031	1.0	30		1041	1.2	37				
1428	0.2	6		1521	0.1	3		1550	-0.1	-3				
● 2113	1.9	58		2206	1.8	55		2235	1.8	55				
									2304	1.5	46			
10 Su 0351	-0.5	-15		25 M 0432	-0.4	-12		10 W 0444	-0.4	-12				
1033	1.1	34		1104	1.1	34		1118	1.3	40				
1512	0.2	6		1606	0.0	0		1641	-0.2	-6				
2156	1.9	58		2244	1.7	52		2323	1.7	52				
									2341	1.4	43			
11 M 0430	-0.5	-15		26 Tu 0508	-0.3	-9		11 Th 0523	-0.3	-9				
1112	1.1	34		1136	1.1	34		1156	1.4	43				
1557	0.1	3		Tu 1651	0.1	3		1736	-0.3	-9				
2240	1.9	58		2321	1.6	49			1758	-0.1	-3			
									F 1758	-0.1	-3			
12 Tu 0510	-0.4	-12		27 W 0543	-0.2	-6		12 F 0014	1.5	46				
1151	1.2	37		1207	1.2	37		0603	-0.2	-6				
1647	0.1	3		1737	0.1	3		1237	1.5	46				
2327	1.8	55							1835	-0.3	-9			
									1843	0.0	0			
13 W 0551	-0.3	-9		28 Th 0000	1.4	43		13 Sa 0610	1.3	40				
1232	1.3	40		0618	-0.1	-3		0646	-0.1	-3				
1741	0.1	3		1240	1.2	37		1322	1.5	46				
				1825	0.1	3		1940	-0.2	-6				
									1934	0.0	0			
14 Th 0018	1.7	52		29 F 0041	1.3	40		14 Su 0733	1.1	34				
0634	-0.2	-6		0653	0.0	0		1414	1.5	46				
1315	1.3	40		1316	1.2	37		2054	-0.2	-6				
1843	0.1	3		1919	0.1	3			2034	0.0	0			
										2036	-0.2	-6		
15 F 0114	1.5	46		30 Sa 0127	1.1	34		15 M 0332	0.9	27				
0720	-0.1	-3		0730	0.1	3		0826	0.2	6				
1402	1.4	43		1355	1.2	37		1517	1.5	46				
1952	0.1	3		2020	0.2	6		● 2213	-0.2	-6				
										31	0223	0.9	27	
										Su 0809	0.2	6		
										1441	1.2	37		
										● 2131	0.1	3		

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Key West, Florida, 2016

Times and Heights of High and Low Waters

April				May				June			
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height
h m	ft	cm		h m	ft	cm		h m	ft	cm	
1 F 0507	0.9	27		16 Sa 0631	1.1	34		1 M 0524	1.2	37	
0928	0.6	18	Sa 1134	0.4	12	Su 1031	0.5	15	M 1219	0.3	9
1608	1.4	43	1820	1.4	43	1702	1.4	43	1849	1.2	37
2312	0.0	0				2321	0.1	3			
2 Sa 0610	1.0	30	17 Su 0025	0.1	3	2 M 0612	1.3	40	17 Tu 0018	0.3	9
1048	0.5	15	0714	1.3	40	1142	0.3	9	0701	1.5	46
1730	1.5	46	1236	0.3	9	1821	1.5	46	1310	0.2	6
			1919	1.4	43				1942	1.2	37
3 Su 0008	0.0	0	18 M 0107	0.2	6	3 Tu 0011	0.1	3	18 W 0056	0.3	9
0658	1.1	34	0749	1.4	43	0655	1.5	46	0732	1.6	49
1157	0.3	9	1327	0.2	6	1244	0.0	0	1354	0.0	0
1841	1.6	49	2007	1.4	43	1928	1.5	46	2027	1.2	37
4 M 0055	-0.1	-3	19 Tu 0143	0.2	6	4 W 0057	0.1	3	19 Th 0131	0.4	12
0738	1.3	40	0818	1.5	46	0736	1.7	52	0802	1.7	52
1256	0.1	3	1411	0.1	3	1340	-0.2	-6	1433	-0.1	-3
1943	1.7	52	2048	1.4	43	2028	1.5	46	2107	1.2	37
5 Tu 0138	-0.1	-3	20 W 0216	0.2	6	5 Th 0141	0.1	3	20 F 0203	0.4	12
0816	1.5	46	0844	1.6	49	0817	1.9	58	0833	1.7	52
1350	-0.1	-3	1450	0.0	0	1433	-0.4	-12	1509	-0.2	-6
2038	1.7	52	2125	1.4	43	2123	1.5	46	2145	1.2	37
6 W 0219	-0.1	-3	21 Th 0246	0.3	9	6 F 0223	0.2	6	21 Sa 0235	0.4	12
0852	1.7	52	0910	1.6	49	0858	2.0	61	0904	1.8	55
1442	-0.3	-9	1526	-0.1	-3	1525	-0.6	-18	1544	-0.3	-9
2131	1.7	52	2200	1.4	43	● 2215	1.4	43	○ 2222	1.2	37
7 Th 0259	0.0	0	22 F 0316	0.3	9	7 Sa 0306	0.2	6	22 Su 0306	0.4	12
0930	1.8	55	0938	1.7	52	0941	2.1	64	0937	1.8	55
1534	-0.5	-15	1602	-0.2	-6	1616	-0.6	-18	1620	-0.3	-9
● 2222	1.6	49	○ 2236	1.3	40	2305	1.3	40	2301	1.2	37
8 F 0339	0.0	0	23 Sa 0344	0.3	9	8 Su 0350	0.2	6	23 M 0339	0.4	12
1009	1.9	58	1007	1.7	52	1026	2.1	64	1011	1.8	55
1625	-0.6	-18	1637	-0.2	-6	1707	-0.6	-18	1656	-0.3	-9
2313	1.5	46	2313	1.3	40	2356	1.2	37	2341	1.1	34
9 Sa 0419	0.1	3	24 Su 0413	0.4	12	9 M 0435	0.3	9	24 Tu 0414	0.4	12
1050	2.0	61	1037	1.7	52	1112	2.1	64	1047	1.8	55
1718	-0.6	-18	1713	-0.2	-6	1800	-0.5	-15	1735	-0.3	-9
10 Su 0004	1.4	43	25 M 0444	0.4	12	10 Tu 0048	1.2	37	25 W 0024	1.1	34
0502	0.2	6	1110	1.7	52	0524	0.3	9	0452	0.5	15
1134	2.0	61	1752	-0.2	-6	1202	2.0	61	1126	1.8	55
1813	-0.5	-15				1855	-0.4	-12	1817	-0.2	-6
11 M 0059	1.2	37	26 Tu 0036	1.1	34	11 W 0142	1.1	34	26 Th 0111	1.1	34
0547	0.3	9	0517	0.5	15	0619	0.4	12	0537	0.5	15
1222	1.9	58	1146	1.7	52	1255	1.8	55	1209	1.7	52
1912	-0.4	-12	1836	-0.2	-6	1952	-0.2	-6	1903	-0.2	-6
12 Tu 0159	1.1	34	27 W 0242	1.1	34	12 Th 0242	1.1	34	27 F 0200	1.1	34
0638	0.4	12	0556	0.5	15	0723	0.5	15	0631	0.5	15
1316	1.8	55	1226	1.6	49	1355	1.6	49	1259	1.6	49
2016	-0.2	-6	1925	-0.1	-3	2052	0.0	0	1953	-0.1	-3
13 W 0307	1.0	30	28 Th 0220	1.0	30	13 F 0346	1.1	34	28 Sa 0252	1.2	37
0739	0.4	12	0644	0.6	18	0840	0.5	15	0739	0.5	15
1421	1.6	49	1315	1.6	49	1505	1.4	43	1400	1.5	46
● 2126	-0.1	-3	2022	0.0	0	○ 2151	0.1	3	2047	0.0	0
14 Th 0424	1.0	30	29 F 0323	1.0	30	14 Sa 0448	1.2	37	29 W 0345	1.2	37
0855	0.5	15	0749	0.6	18	1002	0.5	15	0857	0.5	15
1540	1.5	46	1418	1.5	46	1625	1.3	40	1515	1.4	43
2235	0.0	0	○ 2124	0.0	0	2246	0.2	6	○ 2142	0.1	3
15 F 0535	1.0	30	30 Sa 0427	1.1	34	15 Su 0542	1.3	40	30 M 0438	1.4	43
1018	0.5	15	0910	0.6	18	1117	0.4	12	1017	0.3	9
1706	1.4	43	1536	1.4	43	1743	1.2	37	1641	1.3	40
2335	0.1	3	2225	0.1	3	2335	0.3	9	2236	0.1	3
31 Tu 0527	1.5	46									
Tu 1129	0.1	3									
1804	1.3	40									
2327	0.2	6									

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Key West, Florida, 2016

Times and Heights of High and Low Waters

July				August				September				
Time	Height	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 F 2013	0637 1322 2013	1.9 -0.3 1.1	58 -9 34	16 Sa 0648 1347 2021	0.5 1.7 0.0	15 52 0	1 M 0817 1453 2135	0.4 -0.2 1.2	12 -6 37	16 Tu 0756 1433 2109	0.6 0.0 1.4	18 0 43
2 Sa 1416 2107	0036 731 1426 2102	0.3 2.0 -0.1 1.1	9 61 -3 34	17 Su 0733 1426 2102	0.5 -0.1 1.1	15 -3 34	2 Tu 0905 1535 2213	0.3 -0.2 1.3	9 -6 40	17 W 0842 1508 2144	0.5 0.0 1.5	15 0 46
3 Su 1506 2154	0128 8222 1503 2141	0.3 2.1 -0.2 1.1	9 64 -6 34	18 M 0816 1503 2141	0.5 -0.2 1.1	15 -6 34	3 W 0949 1614 2249	0.3 -0.1 1.4	9 -3 43	18 Sa 0927 1544 2219	0.4 0.0 1.6	12 0 49
4 M ● 2238	0219 0911 1553 2218	0.3 2.1 -0.5 1.1	9 64 -15 34	19 Tu 0858 1539 2218	0.4 -0.2 1.2	12 -6 37	4 Th 1030 1651 2323	0.3 0.0 1.5	9 0 46	4 F 1013 1620 2255	0.3 0.0 1.7	9 67 52
5 Tu 1638 2320	0309 0958 1638 2256	0.2 2.1 -0.4 1.2	6 64 -12 37	20 W 0940 1615 2356	0.4 -0.2 1.3	12 61 40	5 F 1110 1728 2356	0.3 0.1 1.5	9 58 46	20 M 1100 1658 2332	0.2 0.1 1.8	6 64 55
6 W 1721	0359 1044 1721	0.3 2.0 -0.3	9 61 -9	21 Th 1022 1651 2333	0.3 -0.2 1.3	9 61 40	6 Sa 1149 1803	0.4 0.2	12 6 6	6 Tu 1149 1737	0.2 0.2	6 58 6
7 Th 1128 1803	0000 0450 1.9 -0.2	1.2 0.3 58 -6	37	22 F 1107 1729	0.3 -0.2	9 58 -6	7 Su 0030 0614 1231 1839	1.6 0.4 1.6 0.3	49 12 49 9	22 M 0012 0606 1243 1818	1.9 0.2 1.7 0.3	58 6 52 9
8 F 1212 1845	0040 0544 1.7 -0.1	1.3 0.3 52 -3	40	8 Sa 0012 0518 1155 1809	1.4 0.3 1.8 -0.1	43 9 55 -3	23 M 0105 0708 1316 1916	1.6 0.4 1.4 0.4	49 12 43 12	8 Tu 0055 0709 1343 1903	2.0 0.2 1.5 0.5	61 6 46 15
9 Sa 1258 1927	0121 0641 1.5 0.1	1.3 0.4 46 3	40	24 Su 0052 0616 1247 1851	1.5 0.3 1.7 0.1	46 15 52 3	9 W 0144 0808 1408 1956	1.6 0.5 1.3 0.5	49 15 40 15	24 F 0223 0819 1455 1953	1.8 0.2 1.3 0.6	55 6 40 18
10 Su 1348 2010	0202 0745 1.4 0.2	1.3 0.4 43 6	40	25 M 0135 0720 1347 1936	1.6 0.2 1.5 0.2	49 6 46 6	10 W 0228 0916 1513 2040	1.6 0.5 1.2 0.6	49 15 37 18	25 Th 0243 0936 1619 2053	2.0 0.2 1.2 0.7	61 6 37 21
11 M 1446 ● 2055	0245 0854 1.2 0.3	1.4 0.4 37 9	43	26 Tu 0222 0833 1457 2025	1.7 0.2 1.3 0.3	52 6 40 9	11 Th 0318 1027 1633 2132	1.6 0.4 1.1 0.7	49 12 34 21	11 F 0352 1054 1745 2201	2.0 0.2 1.2 0.7	61 6 37 21
12 Tu 1557 2141	0331 1006 1.1 0.4	1.4 0.4 1.3 12	43	27 W 0315 0950 1622 2120	1.8 0.1 1.1 0.4	55 3 34 12	12 F 0416 1133 1757 2229	1.6 0.4 1.1 0.7	49 12 34 21	12 M 0543 1204 1855 2311	1.9 0.2 1.2 0.7	58 6 37 21
13 W 1719 2229	0420 1113 1.0 0.5	1.5 0.3 30 15	46	28 Th 0416 1106 1750 2219	1.8 0.0 1.0 0.5	55 0 30 15	13 Sa 0517 1229 1903 2326	1.7 0.3 1.1 0.7	52 9 34 21	13 Tu 0619 1302 1948 2108	2.1 0.2 1.3 1.5	64 6 40 46
14 Th 1834 2316	0511 1212 0.9 0.5	1.5 0.2 27 15	46	29 F 0521 1214 1905 2320	1.9 -0.1 1.0 0.5	58 -3 30 15	14 Su 0615 1316 1951 2032	1.8 0.2 1.2 1.3	55 6 37 40	14 W 0049 0720 1350 2031	0.7 2.1 0.2 1.4	21 67 6 43
15 F 1934	0600 1303 0.1	1.6 1.3 3	49	30 Sa 0624 1315 2004	2.0 -0.1 1.1	61 -3 34	15 M 0018 0708 1356 2032	0.7 1.9 0.1 1.3	21 58 6 46	15 Tu 0112 0812 1431 2108	0.6 2.2 0.2 1.5	15 67 6 58
				31 Su 0020 0723 1407 2053	0.4 2.1 -0.2 1.2	12 64 -6 37	31 W 0204 0857 1508 2141	0.5 2.2 0.2 1.6	15 67 6 49			

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
 Heights are referred to mean lower low water which is the chart datum of soundings.

Key West, Florida, 2016

Times and Heights of High and Low Waters

October				November				December			
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height
1 Sa 0323 0.4 12	16 Su 0307 0.1 3	1 Tu 0421 0.2 6	16 W 0439 -0.3 -9	1 Th 0440 0.0 0	16 F 0517 -0.4 -12						
0959 2.0 61	0954 2.1 64	1055 1.7 52	1127 1.6 49	1119 1.4 43	1159 1.3 40						
1536 0.6 18	1511 0.6 18	1557 0.8 24	1607 0.6 18	1559 0.6 18	1641 0.3 9						
2158 2.1 64	2140 2.4 73	2220 2.1 64	2246 2.5 76	2233 2.0 61	2325 2.1 64						
2 Su 0402 0.4 12	17 M 0357 0.0 0	2 W 0458 0.2 6	17 Th 0532 -0.2 -6	2 F 0517 0.0 0	17 Sa 0606 -0.3 -9						
1034 1.9 58	1045 2.0 61	1133 1.6 49	1218 1.5 46	1200 1.3 40	1246 1.3 40						
1606 0.7 21	1551 0.6 18	1627 0.8 24	1656 0.6 18	1636 0.7 21	1641 0.3 9						
2225 2.1 64	2221 2.5 76	2254 2.1 64	2337 2.4 73	2310 1.9 58	2325 2.1 64						
3 M 0440 0.4 12	18 Tu 0449 -0.1 -3	3 Th 0537 0.3 9	18 F 0627 -0.1 -3	3 Sa 0556 0.0 0	18 Su 0015 1.9 58						
1110 1.8 55	1136 1.9 58	1215 1.5 46	1313 1.4 43	1243 1.3 40	0655 -0.1 -3						
1636 0.7 21	1632 0.7 21	1700 0.9 27	1750 0.7 21	1717 0.7 21	1335 1.3 40						
2254 2.1 64	2306 2.5 76	2330 2.1 64		2351 1.9 58	1837 0.4 12						
4 Tu 0519 0.4 12	19 W 0544 0.0 0	4 F 0619 0.3 9	19 Sa 0032 2.2 67	4 Su 0639 0.1 3	19 M 0109 1.7 52						
1148 1.7 52	1231 1.7 52	1303 1.5 46	0725 0.1 3	1330 1.3 40	0745 0.1 3						
1705 0.8 24	1717 0.7 21	1737 0.9 27	1412 1.4 43	1806 0.7 21	1426 1.3 40						
2327 2.1 64	2355 2.5 76		1853 0.7 21		1947 0.5 15						
5 W 0601 0.4 12	20 Th 0643 0.1 3	5 Sa 0011 2.0 61	20 Su 0134 2.0 61	5 M 0038 1.8 55	20 Tu 0209 1.5 46						
1230 1.6 49	1330 1.6 49	0707 0.4 12	0825 0.3 9	0726 0.2 6	0836 0.2 6						
1736 0.9 27	1808 0.8 24	1357 1.4 43	1515 1.4 43	1420 1.3 40	1520 1.4 43						
		1823 1.0 30	2009 0.8 24	1908 0.7 21	2105 0.5 15						
6 Th 0003 2.0 61	21 F 0050 2.3 70	6 Su 0100 1.9 58	21 M 0245 1.8 55	6 Tu 0135 1.7 52	21 W 0318 1.3 40						
0647 0.5 15	0747 0.2 6	0803 0.5 15	0926 0.4 12	0818 0.2 6	0929 0.3 9						
1319 1.5 46	1437 1.5 46	1458 1.4 43	1619 1.5 46	1512 1.4 43	1615 1.4 43						
1811 1.0 30	1908 0.9 27	1925 1.0 30	2133 0.8 24	2024 0.7 21	2223 0.4 12						
7 F 0045 2.0 61	22 Sa 0156 2.2 67	7 M 0200 1.9 58	22 Tu 0405 1.7 52	7 W 0245 1.6 49	22 Th 0439 1.2 37						
0741 0.6 18	0857 0.4 12	0903 0.5 15	1023 0.5 15	0912 0.3 9	1020 0.4 12						
1418 1.4 43	1552 1.5 46	1601 1.5 46	1717 1.6 49	1605 1.5 46	1707 1.5 46						
1854 1.0 30	2023 1.0 30	2045 1.0 30	2253 0.7 21	2145 0.6 18	2332 0.3 9						
8 Sa 0135 1.9 58	23 Su 0313 2.1 64	8 Tu 0314 1.8 55	23 W 0525 1.6 49	8 Th 0408 1.5 46	23 F 0558 1.1 34						
0845 0.6 18	1007 0.5 15	1003 0.5 15	1115 0.6 18	1007 0.4 12	1109 0.5 15						
1529 1.4 43	1703 1.5 46	1658 1.6 49	1805 1.7 52	1656 1.6 49	1753 1.5 46						
● 1953 1.1 34	2148 0.9 27	2208 0.9 27	2359 0.6 18	2300 0.4 12							
9 Su 0238 1.9 58	24 M 0438 2.0 61	9 W 0436 1.8 55	24 Th 0633 1.5 46	9 F 0533 1.4 43	24 Sa 0029 0.2 6						
0954 0.6 18	1110 0.6 18	1057 0.5 15	1159 0.6 18	1100 0.4 12	0702 1.1 34						
1645 1.4 43	1802 1.6 49	1802 1.6 49	1844 1.8 55	1745 1.8 55	1155 0.5 15						
2112 1.1 34	2307 0.9 27	2319 0.7 21			1835 1.6 49						
10 M 0353 1.9 58	25 Tu 0555 1.9 58	10 Th 0553 1.8 55	25 F 0052 0.4 12	10 Sa 0005 0.1 3	25 Su 0118 0.1 3						
1057 0.6 18	1201 0.6 18	1146 0.5 15	0728 1.5 46	0648 1.4 43	0753 1.1 34						
1746 1.5 46	1849 1.8 55	1828 1.9 58	1239 0.6 18	1150 0.4 12	1237 0.5 15						
2231 1.0 30			1918 1.9 58	1833 2.0 61	1915 1.7 52						
11 Tu 0509 2.0 61	26 W 0012 0.8 24	11 F 0020 0.5 15	26 Sa 0138 0.3 9	11 Su 0103 -0.1 -3	26 M 0200 -0.1 -3						
1149 0.6 18	0657 1.9 58	0701 1.8 55	0813 1.5 46	0752 1.4 43	0835 1.1 34						
1833 1.7 52	1244 0.6 18	1231 0.5 15	1316 0.6 18	1239 0.4 12	1315 0.4 12						
2338 0.9 27	1927 1.9 58	1909 2.1 64	1949 1.9 58	1921 2.1 64	1952 1.7 52						
12 W 0618 2.0 61	27 Th 0106 0.6 18	12 Sa 0115 0.2 6	27 Su 0218 0.2 6	12 M 0157 -0.3 -9	27 Tu 0238 -0.2 -6						
1233 0.5 15	0748 1.9 58	0800 1.8 55	0853 1.5 46	0848 1.4 43	0913 1.1 34						
1912 1.8 55	1321 0.7 21	1314 0.5 15	1350 0.6 18	1326 0.4 12	1352 0.4 12						
	1958 2.0 61	1949 2.2 67	2020 2.0 61	2009 2.2 67	2029 1.8 55						
13 Th 0035 0.7 21	28 F 0151 0.5 15	13 Su 0206 0.0 0	28 M 0255 0.1 3	13 Tu 0249 -0.5 -15	28 W 0314 -0.2 -6						
0717 2.1 64	0831 1.9 58	0855 1.8 55	0929 1.4 43	0939 1.3 40	0948 1.1 34						
1314 0.5 15	1355 0.7 21	1356 0.5 15	1422 0.6 18	1414 0.3 9	1428 0.4 12						
1949 2.0 61	2027 2.1 64	2030 2.4 73	2051 2.0 61	2057 2.3 70	2106 1.8 55						
14 F 0127 0.5 15	29 Sa 0232 0.4 12	14 M 0257 -0.2 -6	29 W 0330 0.0 0	14 Th 0339 -0.5 -15	29 Tu 1024 1.1 34						
0812 2.2 67	0908 1.8 55	0946 1.8 55	1005 1.4 43	1027 1.3 40	1024 1.1 34						
1353 0.5 15	1427 0.7 21	1439 0.5 15	1454 0.6 18	1501 0.3 9	1503 0.4 12						
2025 2.2 67	2053 2.1 64	2113 2.5 76	● 2123 2.0 61	2146 2.3 70	● 2143 1.8 55						
15 Sa 0217 0.2 6	30 Su 0309 0.3 9	15 Tu 0348 -0.3 -9	30 W 0405 0.0 0	15 Th 0428 -0.5 -15	30 F 0422 -0.3 -9						
0904 2.2 67	0944 1.8 55	1037 1.7 52	1041 1.4 43	1113 1.3 40	1100 1.1 34						
1431 0.5 15	1457 0.7 21	1522 0.5 15	1526 0.6 18	1550 0.3 9	1541 0.3 9						
● 2102 2.3 70	● 2120 2.2 67	2159 2.5 76	2157 2.0 61	2235 2.2 67	2220 1.8 55						
	31 M 0345 0.3 9										
	1019 1.7 52										
	1527 0.7 21										
	2149 2.2 67										

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Naples, Florida, 2016

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 F 0453 2.0 61 1111 0.7 21 1740 2.4 73	16 Sa 0457 2.0 61 1104 0.5 15 1729 2.5 76	1 M 0032 0.4 12 0642 1.6 49 1151 1.2 37 1824 2.3 70	16 Tu 0102 -0.2 -6 0818 1.7 52 1300 1.3 40 1901 2.5 76	1 Tu 0605 1.6 49 0944 1.3 40 1704 2.2 67	16 W 0037 -0.1 -3 0819 1.8 55 1248 1.4 43 1843 2.4 73									
2 Sa 0022 0.8 24 0609 1.8 55 1209 0.9 27 O 1830 2.4 73	17 Su 0014 0.2 6 0630 1.8 55 1210 0.8 24 1824 2.6 79	2 Tu 0136 0.2 6 0810 1.6 49 1313 1.3 40 1925 2.3 70	17 W 0210 -0.3 -9 1009 1.8 55 1413 1.3 40 2013 2.6 79	2 W 0047 0.2 6 0733 1.6 49 1213 1.5 46 1829 2.2 67	17 Th 0147 -0.1 -3 0954 2.0 61 1404 1.3 40 2003 2.4 73									
3 Su 0126 0.6 18 0729 1.7 34 1310 1.1 34 1922 2.4 73	18 M 0125 0.0 0 0809 1.8 55 1319 1.1 34 1925 2.7 82	3 W 0232 0.0 0 0926 1.7 52 1419 1.4 43 2023 2.4 73	18 Th 0309 -0.4 -12 1055 2.0 61 1515 1.2 37 2115 2.6 79	3 Th 0151 0.0 0 0853 1.8 55 1346 1.4 43 1946 2.3 70	18 F 0247 -0.1 -3 1027 2.1 64 1506 1.1 34 2108 2.5 76									
4 M 0220 0.3 9 0846 1.8 55 1406 1.2 37 2011 2.5 76	19 Tu 0228 -0.3 -9 0942 1.9 58 1424 1.2 37 2025 2.7 82	4 Th 0322 -0.3 -9 1017 1.9 58 1514 1.3 40 2112 2.6 79	19 F 0402 -0.5 -15 1120 2.1 64 1609 1.0 30 2205 2.7 82	4 F 0246 -0.2 -6 0945 2.0 61 1448 1.3 40 2047 2.5 76	19 Sa 0339 -0.1 -3 1044 2.2 67 1557 0.9 27 2159 2.6 79									
5 Tu 0309 0.1 3 0948 1.9 58 1457 1.3 40 2057 2.6 79	20 W 0325 -0.6 -18 1046 2.0 61 1524 1.2 37 2119 2.8 85	5 F 0407 -0.5 -15 1055 2.0 61 1602 1.2 37 2156 2.7 82	20 Sa 0448 -0.6 -18 1138 2.1 64 1655 0.8 24 2248 2.8 85	5 Sa 0335 -0.4 -12 1023 2.1 64 1539 1.1 34 2138 2.7 82	20 Su 0424 -0.1 -3 1058 2.3 70 1641 0.7 21 2240 2.6 79									
6 W 0352 -0.2 -6 1035 2.0 61 1543 1.3 40 2137 2.7 82	21 Th 0417 -0.7 -21 1128 2.1 64 1618 1.1 34 2207 2.9 88	6 Sa 0450 -0.7 -21 1130 2.2 67 1647 1.0 30 2236 2.9 88	21 Su 0529 -0.5 -15 1157 2.2 67 1737 0.6 18 2325 2.8 85	6 Su 0420 -0.5 -15 1056 2.3 70 1626 0.8 24 2224 2.9 88	21 M 0503 -0.1 -3 1117 2.4 73 1720 0.5 15 2316 2.6 79									
7 Th 0434 -0.4 -12 1115 2.2 67 1626 1.3 40 2213 2.9 88	22 F 0505 -0.8 -24 1200 2.2 67 1707 1.0 30 2250 3.0 91	7 Su 0531 -0.9 -27 1204 2.3 70 1730 0.8 24 2315 3.0 91	22 M 0607 -0.5 -15 1219 2.3 70 1816 0.5 15 O	7 M 0503 -0.6 -18 1128 2.5 76 1712 0.5 15 2307 3.0 91	22 Tu 0540 0.0 0 1140 2.5 76 1756 0.3 9 2350 2.6 79									
8 F 0514 -0.7 -21 1153 2.3 70 1707 1.2 37 2247 3.0 91	23 Sa 0548 -0.9 -27 1228 2.2 67 1752 0.9 27 O 2330 2.9 88	8 M 0611 -0.9 -27 1238 2.4 73 1814 0.6 18 2355 3.0 91	23 Tu 0001 2.7 82 0642 -0.3 -9 1245 2.4 73 1853 0.4 12	8 W 0545 -0.6 -18 1159 2.6 79 1757 0.1 3 2352 3.0 91	23 W 0613 0.2 6 1205 2.6 79 1831 0.1 3 O									
9 Sa 0553 -0.8 -24 1230 2.3 70 1748 1.1 34 ● 2320 3.0 91	24 Su 0629 -0.8 -24 1256 2.2 67 1834 0.8 24	9 Tu 0651 -0.9 -27 1312 2.5 76 1858 0.4 12	24 W 0036 2.6 79 0715 -0.2 -6 1314 2.4 73 1929 0.3 9	9 W 0626 -0.5 -15 1231 2.7 82 1842 -0.1 -3	24 Th 0024 2.6 79 0644 0.3 9 1231 2.6 79 1905 0.0 0									
10 Su 0633 -0.9 -27 1308 2.4 73 1829 1.0 30 2354 3.0 91	25 M 0009 2.8 85 0707 -0.7 -21 1326 2.3 70 1914 0.7 21	10 W 0039 2.9 88 0731 -0.7 -21 1348 2.6 79 1945 0.2 6	25 Th 0114 2.5 76 0746 0.0 0 1344 2.4 73 2006 0.2 6	10 Th 0039 3.0 91 0706 -0.3 -9 1304 2.8 85 1929 -0.3 -9	25 F 0101 2.5 76 0713 0.5 15 1257 2.7 82 1940 0.0 0									
11 M 0712 -0.9 -27 1348 2.4 73 1912 0.9 27	26 Tu 0048 2.7 82 0744 -0.5 -15 1359 2.3 70 1954 0.6 18	11 Th 0129 2.8 85 0811 -0.4 -12 1425 2.6 79 2035 0.1 3	26 F 0154 2.3 70 0815 0.3 9 1416 2.4 73 2045 0.2 6	11 F 0131 2.8 85 0747 0.0 0 1339 2.9 88 2019 -0.4 -12	26 Sa 0140 2.4 73 0740 0.7 21 1322 2.6 79 2017 0.0 0									
12 Tu 0033 3.0 91 0752 -0.8 -24 1429 2.5 76 1958 0.8 24	27 W 0129 2.5 76 0819 -0.2 -6 1435 2.3 70 2035 0.6 18	12 F 0227 2.5 76 0853 -0.1 -3 1506 2.6 79 2131 0.0 0	27 Sa 0241 2.1 64 0841 0.6 18 1449 2.4 73 2131 0.3 9	12 Su 0230 2.5 76 0829 0.4 12 1419 2.8 85 2113 -0.4 -12	27 Su 0226 2.2 67 0803 0.9 27 1345 2.6 79 2059 0.0 0									
13 W 0120 2.8 85 0834 -0.6 -18 1511 2.5 76 2050 0.7 21	28 Th 0214 2.3 70 0853 0.1 3 1513 2.3 70 2121 0.6 18	13 Sa 0335 2.2 67 0938 0.3 9 1550 2.6 79 2236 0.0 0	28 Su 0337 1.9 58 0901 0.8 24 1524 2.3 70 2227 0.3 9	13 Su 0336 2.2 67 0913 0.7 21 1505 2.8 85 2214 -0.3 -9	28 M 0320 2.1 64 0823 1.1 34 1410 2.5 76 2148 0.1 3									
14 Th 0218 2.6 79 0918 -0.3 -9 1554 2.5 76 2150 0.6 18	29 F 0306 2.1 64 0927 0.4 12 1554 2.3 70 2215 0.6 18	14 Su 0454 1.9 58 1032 0.8 24 1643 2.6 79 2349 -0.1 -3	29 M 0445 1.8 55 0918 1.1 34 1605 2.3 70 2336 0.3 9	14 M 0451 2.0 61 1007 1.1 34 1604 2.6 79 2324 -0.2 -6	29 Tu 0425 1.9 58 0846 1.3 40 1444 2.5 76 2249 0.2 6									
15 F 0331 2.3 70 1007 0.1 3 1639 2.5 76 2300 0.4 12	30 Sa 0408 1.9 58 1001 0.7 21 1638 2.3 70 2321 0.6 18	15 M 0623 1.7 52 1142 1.1 34 1747 2.5 76	15 O 0617 1.8 55 1122 1.3 40 1718 2.5 76	15 O 0539 1.9 58 0922 1.5 46 1534 2.4 73 2359 0.2 6	30 W 0657 1.9 58 1132 1.6 49 1705 2.3 70									
	31 Su 0520 1.7 52 1040 1.0 30 1727 2.3 70				31 Th 0657 1.9 58 1132 1.6 49 1705 2.3 70									

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
 Heights are referred to mean lower low water which is the chart datum of soundings.

Naples, Florida, 2016

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	0107	0.1 3	16	0215	0.2 6	1	0124	0.2 6	16	0226	0.7 21	1	0236	0.7 21
	0809	2.0 61	Sa	0925	2.3 70	Su	0813	2.4 73	M	0850	2.5 76	W	0851	3.0 91
	1318	1.5 46	Sa	1450	1.0 30	Su	1358	1.1 34	M	1512	0.7 21	W	1526	0.0 0
	1904	2.3 70		2051	2.4 73		1952	2.4 73		2121	2.2 67		2151	2.5 76
2 Sa	0206	0.0 0	17	0307	0.3 9	2	0220	0.2 6	17	0312	0.8 24	2	0329	0.8 24
	0902	2.2 67	Su	0948	2.4 73	M	0856	2.6 79	Tu	0923	2.7 82	Th	0931	3.2 98
	1423	1.3 40		1539	0.8 24		1454	0.7 21		1555	0.5 15		1618	-0.4 -12
	2019	2.5 76		2145	2.4 73		2100	2.6 79		2208	2.3 70		2249	2.6 79
3 Su	0259	-0.1 -3	18	0351	0.4 12	3	0311	0.3 9	18	0354	0.9 27	3	0419	1.0 30
	0942	2.4 73	M	1011	2.5 76	Tu	0933	2.8 85	W	0955	2.8 85	F	1011	3.4 104
	1517	0.9 27		1621	0.5 15		1545	0.3 9		1635	0.2 6		1709	-0.7 -21
	2119	2.7 82		2227	2.5 76		2159	2.7 82		2249	2.3 70		2341	2.6 79
4 M	0347	-0.2 -6	19	0431	0.5 15	4	0400	0.4 12	19	0433	1.0 30	4	0508	1.1 34
	1016	2.6 79	Tu	1035	2.6 79	W	1007	3.0 91	Th	1025	2.9 88	Sa	1050	3.5 107
	1606	0.5 15		1659	0.3 9		1635	-0.2 -6		1712	0.0 0		1757	-0.9 -27
	2210	2.8 85		2303	2.5 76		2252	2.8 85		2326	2.4 73	●		
5 Tu	0432	-0.2 -6	20	0508	0.6 18	5	0447	0.5 15	20	0508	1.1 34	5	0032	2.6 79
	1048	2.8 85	W	1101	2.7 82	Th	1041	3.2 98	F	1054	3.0 91	Su	0556	1.1 34
	1653	0.1 3		1734	0.1 3		1723	-0.5 -15		1748	-0.1 -3		1130	3.5 107
	2259	3.0 91		2338	2.5 76		2343	2.8 85					1845	-0.9 -27
6 W	0516	-0.1 -3	21	0541	0.7 21	6	0532	0.6 18	21	0004	2.4 73	6	0122	2.5 76
	1119	2.9 88	Th	1127	2.8 85	F	1115	3.3 101	Sa	0542	1.2 37	M	0642	1.2 37
	1739	-0.2 -6		1809	0.0 0		1811	-0.8 -24		1121	3.0 91		1213	3.5 107
	2347	3.0 91				●			O	1824	-0.3 -9		1932	-0.9 -27
7 Th	0559	0.1 3	22	0013	2.5 76	7	0035	2.8 85	22	0043	2.4 73	7	0213	2.5 76
	1150	3.1 94	F	0613	0.8 24	Sa	0617	0.8 24	Su	0614	1.3 40	Tu	0729	1.2 37
	1826	-0.5 -15		1152	2.9 88		1151	3.4 104		1145	3.0 91		1259	3.3 101
			O	1844	-0.1 -3		1859	-0.9 -27		1900	-0.3 -9		2019	-0.7 -21
8 F	0037	2.9 88	23	0051	2.5 76	8	0129	2.7 82	23	0125	2.4 73	8	0304	2.4 73
	0641	0.3 9	Sa	0642	0.9 27	Su	0701	1.0 30	M	0645	1.3 40	W	0818	1.3 40
	1224	3.2 98		1215	2.9 88		1230	3.4 104		1207	3.0 91		1352	3.1 94
	1914	-0.7 -21		1919	-0.2 -6		1948	-0.9 -27		1937	-0.4 -12		2107	-0.4 -12
9 Sa	0131	2.8 85	24	0132	2.4 73	9	0226	2.5 76	24	0212	2.4 73	9	0354	2.4 73
	0723	0.5 15	Su	0709	1.1 34	M	0747	1.1 34	Tu	0717	1.4 43	Th	0912	1.3 40
	1300	3.2 98		1237	2.9 88		1314	3.3 101		1232	3.0 91		1452	2.8 85
	2003	-0.7 -21		1956	-0.2 -6		2038	-0.7 -21		2017	-0.3 -9		2157	0.0 0
10 Su	0230	2.5 76	25	0219	2.3 70	10	0326	2.4 73	25	0304	2.3 70	10	0443	2.4 73
	0806	0.8 24	M	0735	1.2 37	Tu	0835	1.3 40	W	0753	1.5 46	F	1015	1.4 43
	1340	3.1 94		1258	2.8 85		1407	3.0 91		1304	2.9 88		1600	2.5 76
	2055	-0.6 -18		2036	-0.2 -6		2131	-0.4 -12		2100	-0.3 -9		2250	0.3 9
11 M	0334	2.3 70	26	0313	2.2 67	11	0426	2.3 70	26	0357	2.3 70	11	0531	2.4 73
	0853	1.1 34	Tu	0802	1.3 40	W	0933	1.4 43	Th	0838	1.5 46	Sa	1129	1.3 40
	1430	2.9 88		1326	2.8 85		1514	2.8 85		1347	2.8 85		1710	2.3 70
	2153	-0.4 -12		2121	-0.1 -3		2229	-0.1 -3		2147	-0.1 -3		2348	0.6 18
12 Tu	0444	2.1 64	27	0413	2.1 64	12	0527	2.2 67	27	0450	2.3 70	12	0620	2.5 76
	0949	1.4 43	F	0836	1.5 46	Th	1045	1.5 46	F	0939	1.5 46	Su	1242	1.1 34
	1535	2.7 82		1404	2.7 82		1631	2.5 76		1444	2.6 79		1823	2.1 64
	2257	-0.2 -6		2215	0.0 0		2332	0.2 6		2242	0.0 0	●		
13 W	0600	2.0 61	28	0517	2.1 64	13	0627	2.3 70	28	0543	2.4 73	13	0045	0.8 24
	1106	1.5 46	Th	0931	1.6 49	F	1207	1.4 43	Sa	1102	1.5 46	M	0708	2.5 76
	1656	2.5 76		1457	2.5 76		1750	2.3 70		1607	2.5 76		1346	0.9 27
			O	2317	0.1 3					2342	0.2 6		1938	2.0 61
14 Th	0007	0.0 0	29	0622	2.2 67	14	0035	0.4 12	29	0634	2.5 76	14	0140	1.0 30
	0728	2.0 61	F	1120	1.6 49	Sa	0724	2.3 70	Su	1224	1.3 40	Tu	0755	2.6 79
	1233	1.5 46		1619	2.4 73		1322	1.2 37		1756	2.3 70		1439	0.7 21
	1821	2.4 73	O				1908	2.2 67	O				2048	2.1 64
15 F	0115	0.1 3	30	0023	0.2 6	15	0134	0.5 15	30	0043	0.4 12	15	0230	1.1 34
	0848	2.1 64	Sa	0722	2.3 70	Su	0811	2.4 73	M	0723	2.6 79	W	0838	2.7 82
	1349	1.3 40		1252	1.5 46		1423	1.0 30		1333	0.9 27		1526	0.4 12
	1942	2.4 73		1824	2.3 70		2021	2.2 67		1929	2.3 70		2146	2.1 64

Naples, Florida, 2016

Times and Heights of High and Low Waters

July				August				September			
Time	Height	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 F 0304	1.2	37	16 Sa 0325	1.5	46	1 M 0438	1.3	40	1 Th 0427	1.4	43
0906	3.2	98	0929	3.0	91	1034	3.4	104	1150	3.3	101
1604	-0.4	-12	1622	0.0	0	1728	-0.4	-12	1826	0.2	6
2250	2.4	73	2257	2.2	67				●		O
2 Sa 0358	1.3	40	17 Su 0408	1.5	46	2 Tu 0004	2.5	76	2 F 0022	2.8	85
0953	3.4	104	1007	3.1	94	0526	1.2	37	0632	0.7	21
1655	-0.6	-18	1703	-0.2	-6	1117	3.4	104	1226	3.2	98
2340	2.4	73	2335	2.3	70	● 1812	-0.4	-12	1902	0.4	12
3 Su 0450	1.3	40	18 M 0449	1.4	43	3 W 0035	2.5	76	3 Sa 0051	2.9	88
1037	3.5	107	1043	3.2	98	0610	1.0	30	0710	0.7	21
1744	-0.8	-24	1742	-0.3	-9	1158	3.4	104	1303	3.1	94
						1852	-0.3	-9	1935	0.6	18
4 M 0024	2.5	76	19 Tu 0012	2.4	73	4 Th 0107	2.6	79	4 Su 0121	2.9	88
0539	1.2	37	0529	1.4	43	0653	0.9	27	0748	0.6	18
1121	3.5	107	1116	3.3	101	1238	3.3	101	1343	3.0	91
● 1830	-0.8	-24	1820	-0.4	-12	1931	-0.1	-3	2007	0.9	27
5 Tu 0106	2.5	76	20 W 0049	2.5	76	5 F 0140	2.6	79	5 M 0154	2.9	88
0626	1.2	37	0609	1.3	40	0734	0.9	27	0827	0.7	21
1204	3.4	104	1148	3.3	101	1320	3.1	94	1428	2.8	85
1914	-0.7	-21	1858	-0.5	-15	2008	0.2	6	2037	1.1	34
6 W 0147	2.5	76	21 Th 0127	2.6	79	6 Sa 0216	2.6	79	6 Tu 0229	2.8	85
0712	1.1	34	0650	1.1	34	0816	0.9	27	0911	0.7	21
1249	3.3	101	1223	3.3	101	1404	2.9	88	1522	2.6	79
1957	-0.5	-15	1936	-0.4	-12	2044	0.4	12	2106	1.4	43
7 Th 0227	2.5	76	22 F 0206	2.6	79	7 Su 0255	2.7	82	7 W 0309	2.7	82
0758	1.1	34	0733	1.0	30	0901	0.9	27	1004	0.8	24
1337	3.1	94	1304	3.2	98	1454	2.7	82	1625	2.4	73
2039	-0.2	-6	2015	-0.2	-6	2121	0.7	21	2132	1.6	49
8 F 0309	2.5	76	23 Sa 0246	2.7	82	8 M 0337	2.6	79	8 Th 0401	2.7	82
0846	1.1	34	0821	0.9	27	0953	0.9	27	1111	0.9	27
1429	2.8	85	1354	3.0	91	1550	2.4	73	1738	2.3	70
2121	0.1	3	2056	0.0	0	2159	1.0	30	2215	1.8	55
9 Sa 0352	2.5	76	24 Su 0327	2.7	82	9 Tu 0422	2.6	79	9 F 0511	2.6	79
0939	1.1	34	0915	0.9	27	1055	1.0	30	1224	0.9	27
1526	2.6	79	1455	2.8	85	1655	2.2	67	1858	2.2	67
2206	0.5	15	2141	0.3	9	2244	1.3	40	● O		
10 Su 0436	2.5	76	25 M 0411	2.8	85	10 W 0514	2.6	79	10 Th 0514	3.0	91
1041	1.1	34	1019	0.8	24	1206	0.9	27	1223	0.4	12
1628	2.3	70	1611	2.5	76	1810	2.1	64	1909	2.2	67
2255	0.8	24	2232	0.7	21	● O 2348	1.5	46	2015	2.3	70
11 M 0522	2.5	76	26 Tu 0458	2.8	85	11 Th 0612	2.6	79	11 Sa 0137	1.9	58
1151	1.1	34	1132	0.6	18	1314	0.8	24	0630	2.6	79
1736	2.1	64	1736	2.3	70	1932	2.0	61	1331	0.7	21
● 2350	1.0	30	● O 2332	1.0	30				2113	2.4	73
12 Tu 0611	2.6	79	27 W 0551	2.9	88	12 F 0102	1.7	52	12 M 0234	1.7	52
1259	0.9	27	1245	0.4	12	0715	2.7	82	0840	2.9	88
1851	2.0	61	1908	2.2	67	1414	0.6	18	1517	0.4	12
						2051	2.1	64	2155	2.6	79
13 W 0049	1.3	40	28 Th 0040	1.3	40	13 Sa 0205	1.7	52	13 Tu 0322	1.5	46
0704	2.6	79	0652	3.0	91	0814	2.8	85	0929	3.1	94
1359	0.7	21	1353	0.2	6	1506	0.4	12	1601	0.3	9
2010	2.0	61	2042	2.2	67	2149	2.2	67	2229	2.8	85
14 Th 0146	1.4	43	29 F 0147	1.4	43	14 Su 0258	1.6	49	13 M 0415	1.0	30
0756	2.7	82	0756	3.1	94	0905	3.0	91	1027	3.2	98
1452	0.5	15	1455	-0.1	-3	1552	0.2	6	1643	0.6	18
2121	2.0	61	2200	2.3	70	2231	2.4	73	2315	2.9	88
15 F 0238	1.5	46	30 Sa 0249	1.4	43	15 M 0344	1.5	46	14 W 0457	0.8	24
0845	2.8	85	0855	3.2	98	0949	3.1	94	1105	3.2	98
1539	0.2	6	1551	-0.3	-9	1635	0.0	0	1722	0.6	18
2214	2.1	64	2253	2.4	73	2306	2.5	76	2301	2.9	88
			31 Su 0346	1.4	43				15 Th 0406	1.2	37
			0947	3.3	101				1012	3.3	101
			1642	-0.4	-12				1644	0.2	6
			2332	2.4	73				2301	2.9	88
									2332	3.0	91
									● 2340	3.0	91

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Naples, Florida, 2016

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		h m	ft cm												
1 Sa	0611	0.5 15		16 Su	0559 1215	-0.2 3.4	-6 104		1 Tu	0701 1317	0.1 2.8	3 85	16 W	0000 0720	3.6 -0.8	-24 -24		1 Th	0719 1352	-0.3 2.5	-9 76	16 F	0035 0753	3.3 -0.9	101 -27	
	1213	3.1 94			1817	0.8 24				1901	1.5	46		1359	2.9 88				1910	1.5	46		1436	2.5 76		
	1831	0.9 27			2352	3.5 107								1925	1.3 40									1958	1.1 34	
2 Su	0006	3.1 94		17 M	0646 1306	-0.4 3.3	-12 101		2 W	0016 0737	3.1 0.1	94 3	17 Th	0043 0810	3.5 -0.7	-107 -21		2 F	0017 0756	3.0 -0.3	91 -9	17 Sa	0127 0840	3.1 -0.6	94 -18	
	0647	0.4 12			1900	1.0	30			1401	2.7	82		1457	2.7 82				1439	2.5 76			1524	2.5 76		
	1249	3.0 91								1929	1.6	49		2014	1.4 43				1945	1.5 46			2051	1.1 34		
	1902	1.1 34																								
3 M	0031	3.1 94		18 Tu	0026 0734	3.5 -0.4	107 -12		3 Th	0038 0815	3.0 0.1	91 3	18 F	0135 0902	3.3 -0.4	-101 -12		3 Sa	0046 0835	2.9 -0.2	88 -6	18 Su	0228 0929	2.8 -0.2	85 -6	
	0722	0.4 12			1402	3.1	94			1452	2.6	79		1556	2.6 79				1528	2.5 76			1612	2.4 73		
	1327	2.9 88			1943	1.3	40			1958	1.7	52		2110	1.5 46				2027	1.5 46			2151	1.1 34		
	1932	1.3 40																								
4 Tu	0057	3.0 91		19 W	0105 0825	3.5 -0.3	107 -9		4 F	0106 0858	2.9 0.3	88 9	19 Sa	0242 0958	3.0 -0.1	91 -3		4 Su	0125 0918	2.7 0.0	82 0	19 M	0337 1021	2.5 0.2	76 6	
	0759	0.4 12			1505	2.9	88			1549	2.5	76		1655	2.5 76				1619	2.5 76			1700	2.4 73		
	1411	2.8 85			2030	1.5	46			2034	1.8	55		2218	1.6 49				2122	1.5 46			2301	1.1 34		
	1959	1.4 43																								
5 W	0122	3.0 91		20 Th	0153 0921	3.3 -0.1	101 -3		5 Sa	0142 0947	2.8 0.4	85 12	20 Su	0405 1059	2.7 0.3	82 9		5 M	0217 1007	2.6 0.2	79 6	20 Tu	0451 1117	2.2 0.5	67 15	
	0839	0.5 15			1613	2.7	82			1650	2.5	76		1752	2.5 76				1709	2.5 76			1748	2.4 73		
	1504	2.7 82			2126	1.7	52			2130	1.9	58		2338	1.5 46				2236	1.5 46			○			
	2024	1.6 49																								
6 Th	0150	2.9 88		21 F	0258 1023	3.1 0.1	94 3		6 Su	0233 1047	2.7 0.5	82 15	21 M	0529 1204	2.5 0.6	76 18		6 Tu	0333 1104	2.4 0.4	73 12	21 W	0016 0607	0.9 2.0	27 61	
	0925	0.6 18			1723	2.6	79			1750	2.5	76		1848	2.5 76				1759	2.5 76			1218	0.8 24		
	1605	2.5 76			2238	1.8	55			2306	1.9	58		○					2356	1.2 37			1837	2.5 76		
	2050	1.8 55																								
7 F	0226	2.8 85		22 Sa	0427 1132	2.9 0.4	88 12		7 M	0401 1152	2.5 0.6	76 18	22 Tu	0055 0651	1.3 2.4	40 73		7 W	0528 1207	2.2 0.6	67 18	22 Th	0123 0728	0.7 1.9	21 58	
	1023	0.7 21			1837	2.5	76			1848	2.6	79		1938	2.6 79				1847	2.6 79			1318	1.0 30		
	1714	2.4 73																					1927	2.5 76		
	2134	1.9 58																								
8 Sa	0323	2.7 82		23 Su	0003 0557	1.8 2.8	55 85		8 Tu	0033 0613	1.7 2.5	52 76	23 W	0159 0810	1.0 2.3	30 70		8 F	0106 0705	0.9 2.2	27 67	23 ○	0221 0850	0.4 1.9	12 58	
	1133	0.8 24			1243	0.5	15			1256	0.7	21		1403	0.9 27				1308	0.7 21			1413	1.2 37		
	1826	2.4 73			1948	2.6	79			1940	2.7	82		2022	2.7 82				1934	2.7 82			2014	2.6 79		
	○ 2340	2.0 61																								
9 Su	0530	2.6 79		24 M	0121 0721	1.6 2.7	49 82		9 W	0138 0736	1.3 2.5	40 76	24 Th	0252 0917	0.7 2.4	21 73		9 F	0206 0825	0.5 2.3	15 70	24 ○	0310 0954	0.2 2.0	6 61	
	1243	0.8 24			1346	0.7	21			1353	0.7	21		2024	2.8 85				1406	0.9 37			1503	1.3 40		
	1934	2.5 76			2040	2.7	82			2024	2.8	85		2059	2.8 85				2018	2.9 88			2057	2.7 82		
	2029	2.6 79			2116	2.8	85			2103	3.0	91		2133	2.9 88				2101	3.1 94			2137	2.7 82		
10 M	0108	1.9 58		25 Tu	0223 0835	1.3 2.8	40 85		10 F	0232 0844	0.9 2.7	27 82	25 F	0337 1007	0.4 2.4	12 73		10 Sa	0300 0932	0.0 2.4	0 73	25 Su	0353 1037	0.0 2.1	0 64	
	0701	2.7 82			1441	0.8	24			1445	0.7	21		1538	1.2 37				1501	1.0 30			1549	1.3 40		
	1343	0.7 21			2116	2.8	85			2103	3.0	91		2133	2.9 88				2101	3.1 94			2137	2.7 82		
	2029	2.6 79																								
11 Tu	0208	1.6 49		26 W	0315 0934	1.0 2.8	30 85		11 F	0321 0941	0.5 2.9	15 88	26 Sa	0417 1046	0.2 2.5	6 76		11 M	0352 1030	-0.4 2.5	-12 76	26 M	0433 1112	-0.2 2.2	-6 67	
	0810	2.8 85			1529	0.8	24			1534	0.8	24		2204	3.0 91				1553	1.1 34			1630	1.3 40		
	1436	0.6 18			2144	2.9	88			2138	3.2	98		2204	3.0 91				2142	3.3 101			2213	2.8 85		
	2112	2.8 85																								
12 W	0257	1.3 40		27 Th	0358 1018	0.7 2.9	21 88		12 Sa	0409 1033	0.0 3.0	0 91	27 Su	0455 1120	0.0 2.5	0 76		12 M	0442 1122	-0.8 2.6	-24 79	27 Tu	0512 1145	-0.4 2.2	-12 67	
	0906	3.0 91			1612	0.9	27			1621	0.9	27		1657	1.3 40				1644	1.1 34			1709	1.3 40		
	1524	0.5 15			2211	3.0	91			2212	3.4	104		2234	3.0 91				2223	3.4 104			2246	2.9 88		
	2147	3.0 91																								
13 Th	0343	0.9 27		28 F	0438 1055	0.5 2.9	15 88		13 Su	0457 1123	-0.4 3.1	-12 94	28 M	0531 1154	-0.1 2.5	-3 76		13 Tu	0531 1211	-1.0 2.7	-30 82	28 W	0549 1220	-0.5 2.3	-15 70	
	0956	3.2 98			1651	1.0	30			1707	1.0	30		2302	3.1 94				1733	1.1 34			1745	1.3 40		
	1609	0.5 15			2237																					

St. Petersburg, Florida, 2016

Times and Heights of High and Low Waters

January				February				March							
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height				
h m	ft	cm		h m	ft	cm		h m	ft	cm					
1 F	0046	0.7	21	16 Sa	0047	0.3	9	1 M	0224	0.1	3	16 Tu	0326	-0.2	-6
0603	1.3	40		0635	1.2	37	0845	0.9	27	2014	1.9	58			
1244	0.2	6		1240	0.3	9	1252	0.7	21						
1931	1.6	49		● 1910	1.7	52	1932	1.7	52						
2 Sa	0209	0.5	15	17 Su	0218	0.1	3	2 Tu	0339	0.0	0	17 W	0442	-0.4	-12
0738	1.1	34		0826	1.0	30	1053	0.9	27	1241	1.1	34			
1328	0.4	12		1326	0.5	15	1343	0.8	24	1446	1.0	30			
● 2011	1.6	49		2000	1.8	55	2026	1.8	55	2131	1.9	58			
3 Su	0325	0.3	9	18 M	0343	-0.1	-3	3 W	0443	-0.2	-6	18 Th	0542	-0.5	-15
0928	1.0	30		1031	1.0	30	1220	1.0	30	1318	1.2	37			
1415	0.6	18		1416	0.7	21	1451	0.9	27	1618	1.0	30			
2052	1.7	52		2054	1.9	58	2124	1.8	55	2241	1.9	58			
4 M	0428	0.1	3	19 Tu	0455	-0.4	-12	4 Th	0537	-0.4	-12	19 F	0630	-0.5	-15
1106	1.0	30		1212	1.0	30	1310	1.1	34	1345	1.2	37			
1504	0.7	21		1513	0.9	27	1601	1.0	30	1728	0.9	27			
2133	1.8	55		2150	2.0	61	2221	1.9	58	2339	2.0	61			
5 Tu	0520	-0.2	-6	20 W	0554	-0.6	-18	5 F	0623	-0.5	-15	20 Sa	0709	-0.5	-15
1221	1.1	34		1320	1.1	34	1343	1.1	34	1407	1.3	40			
1551	0.9	27		1614	0.9	27	1701	0.9	27	1821	0.8	24			
2212	1.9	58		2244	2.1	64	2314	2.0	61	2301	2.0	61			
6 W	0606	-0.4	-12	21 Th	0645	-0.7	-21	6 Sa	0704	-0.6	-18	21 Su	0027	2.0	61
1318	1.1	34		1407	1.1	34	1410	1.2	37	0742	-0.4	-12			
1636	0.9	27		1712	0.9	27	1753	0.9	27	1425	1.3	40			
2251	2.0	61		2335	2.1	64	1905	0.7	21	1905	0.7	21			
7 Th	0647	-0.5	-15	22 F	0728	-0.7	-21	7 Su	0003	2.1	64	22 M	0109	1.9	58
1402	1.1	34		1441	1.1	34	0742	-0.7	-21	0810	-0.3	-9			
1718	1.0	30		1804	0.9	27	1433	1.2	37	1440	1.4	43			
2330	2.1	64					1841	0.7	21	1945	0.5	15			
8 F	0726	-0.6	-18	23 Sa	0021	2.1	64	8 M	0050	2.2	67	23 Tu	0147	1.9	58
1438	1.2	37		0805	-0.7	-21	0819	-0.7	-21	0835	-0.2	-6			
1758	1.0	30		1508	1.2	37	1455	1.2	37	1454	1.4	43			
● 1839	0.9	27		● 1852	0.8	24	● 1929	0.6	18	2023	0.4	12			
9 Sa	0010	2.2	67	24 Su	0103	2.1	64	9 Tu	0138	2.2	67	24 W	0223	1.8	55
0803	-0.7	-21		0838	-0.6	-18	0854	-0.6	-18	0859	-0.1	-3			
1509	1.2	37		1530	1.2	37	1518	1.3	40	1510	1.5	46			
● 1839	0.9	27		1938	0.8	24	2019	0.5	15	2101	0.3	9			
10 Su	0051	2.2	67	25 M	0143	2.0	61	10 W	0227	2.1	64	25 Th	0300	2.0	61
0840	-0.7	-21		0909	-0.5	-15	0929	-0.4	-12	0922	0.1	3			
1537	1.2	37		1549	1.2	37	1543	1.4	43	1528	1.6	49			
1923	0.9	27		2023	0.7	21	2112	0.3	9	2142	0.2	6			
11 M	0134	2.3	70	26 Tu	0223	1.9	58	11 Th	0318	1.9	58	26 F	0327	1.8	55
0918	-0.7	-21		0937	-0.4	-12	1003	-0.2	-6	0946	0.2	6			
1605	1.2	37		1609	1.3	40	1612	1.5	46	1552	1.7	52			
2012	0.8	24		2110	0.6	18	2210	0.2	6	2226	0.1	3			
12 Tu	0220	2.2	67	27 W	0303	1.8	55	12 F	0415	1.7	52	27 Sa	0425	1.4	43
0956	-0.6	-18		1006	-0.3	-9	1037	0.0	0	1011	0.4	12			
1635	1.2	37		1631	1.4	43	1645	1.7	52	1620	1.8	55			
2107	0.7	21		2159	0.5	15	2316	0.1	3	2317	0.1	3			
13 W	0311	2.1	64	28 Th	0347	1.6	49	13 Sa	0521	1.4	43	28 M	0518	1.2	37
1035	-0.5	-15		1035	-0.1	-3	1111	0.3	9	1038	0.5	15			
1708	1.3	40		1657	1.5	46	1724	1.8	55	1653	1.8	55			
2210	0.6	18		2254	0.4	12				2341	0.0	0			
14 Th	0406	1.8	55	29 F	0436	1.4	43	14 Su	0032	0.0	0	29 Tu	0619	1.2	37
1116	-0.3	-9		1105	0.1	3	0647	1.1	34	0628	1.1	34			
1744	1.4	43		1727	1.5	46	1145	0.6	18	1106	0.7	21			
2324	0.5	15		2356	0.3	9	1809	1.8	55	1732	1.8	55			
15 F	0512	1.5	46	30 Sa	0535	1.2	37	15 M	0158	-0.1	-3	30 Tu	0136	-0.2	-6
1157	0.0	0		1137	0.3	9	0855	0.9	27	1222	0.8	24			
1824	1.5	46		1803	1.6	49	● 1905	1.9	58	1718	2.1	64			
				31 Su	0106	0.3	9								
				0653	1.0	30									
				1212	0.5	15									
				● 1844	1.7	52									

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

St. Petersburg, Florida, 2016

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
1 F	0309	0.0	0	16	0427	0.1	3	1	0323	0.1	3	16	0411	0.6	18
	1108	1.3	40	Sa	1141	1.6	49	Su	1031	1.7	52	W	1036	2.2	67
	1400	1.2	37		1645	1.1	34	M	1535	1.1	34		1722	0.7	21
	2002	1.9	58		2227	1.7	52		2111	1.9	58		2314	1.6	49
2 Sa	0413	-0.1	-3	17	0512	0.2	6	2	0417	0.1	3	2	0454	0.8	24
	1137	1.4	43	Su	1203	1.7	52	M	1101	1.8	55	Th	1111	2.4	73
	1543	1.1	34		1741	0.8	24		1646	0.8	24		1806	0.5	15
	2131	1.9	58		2332	1.7	52		2236	1.8	55				
3 Su	0506	-0.1	-3	18	0549	0.3	9	3	0503	0.3	9	3	0106	1.6	49
	1202	1.5	46	M	1223	1.8	55	Tu	1128	2.0	61	F	0524	0.8	24
	1654	0.9	27		1824	0.6	18		1744	0.5	15		1146	2.1	64
	2248	2.0	61						2349	1.8	55		1845	0.2	6
4 M	0552	-0.1	-3	19	0025	1.7	52	4	0545	0.5	15	4	0211	1.5	46
	1225	1.7	52	Tu	0619	0.4	12	W	1156	2.1	64	Sa	0607	1.1	34
	1751	0.7	21		1240	1.9	58		1836	0.1	3		1225	2.7	82
	2353	2.0	61		1901	0.4	12					●	2011	-0.4	-12
5 Tu	0632	0.0	0	20	0110	1.7	52	5	0054	1.8	55	5	0311	1.5	46
	1248	1.8	55	W	0645	0.6	18	Th	0621	0.6	18	Su	0640	1.2	37
	1841	0.4	12		1255	2.0	61		1224	2.3	70		1304	2.8	85
					1934	0.2	6		1925	-0.1	-3		2058	-0.5	-15
6 W	0051	2.0	61	21	0150	1.6	49	6	0155	1.7	52	6	0407	1.4	43
	0708	0.2	6	Th	0708	0.7	24	F	0654	0.8	24	M	0715	1.3	40
	1311	1.9	58		1310	2.1	64		1255	2.5	76		1344	2.8	85
	1929	0.1	3		2006	0.1	3	●	2014	-0.3	-9		2145	-0.4	-12
7 Th	0147	2.0	61	22	0228	1.6	49	7	0254	1.6	49	7	0500	1.4	43
	0740	0.4	12	F	0729	0.8	24	Sa	0724	1.0	30	Tu	0755	1.3	40
	1337	2.1	64		1327	2.2	67		1328	2.6	79		1427	2.7	82
	●	2017	-0.1	-3	O	2038	0.0	0		2103	-0.4	-12		2230	-0.3	-9
8 F	0242	1.8	55	23	0304	1.5	46	8	0354	1.5	46	8	0550	1.4	43
	0811	0.6	18	Sa	0749	0.9	27	Su	0752	1.1	34	M	0845	1.3	40
	1405	2.3	70		1349	2.3	70		1404	2.7	82		1346	2.6	79
	2107	-0.3	-9		2112	-0.1	-3		2154	-0.5	-15		2138	-0.2	-6
9 Sa	0338	1.7	52	24	0342	1.5	46	9	0458	1.4	43	9	0638	1.5	46
	0839	0.8	24	Su	0810	1.0	30	M	0822	1.2	37	Tu	0949	1.3	40
	1437	2.4	73		1415	2.4	73		1443	2.6	79		1421	2.6	79
	2200	-0.4	-12		2149	-0.2	-6		2246	-0.4	-12		2219	-0.2	-6
10 Su	0441	1.5	46	25	0425	1.4	43	10	0611	1.4	43	10	0001	0.0	0
	0906	1.0	30	M	0834	1.0	30	Tu	0854	1.3	40	W	0835	1.2	37
	1512	2.4	73		1447	2.4	73		1527	2.5	76		1502	2.5	76
	2257	-0.3	-9		2231	-0.2	-6		2342	-0.3	-9		2304	-0.2	-6
11 M	0556	1.3	40	26	0516	1.4	43	11	0734	1.4	43	11	0047	0.2	6
	0932	1.1	34	Tu	0902	1.1	34	W	0940	1.3	40	Sa	0803	1.7	52
	1553	2.4	73		1523	2.4	73		1616	2.3	70		1250	1.3	40
					2320	-0.1	-3					1811	1.8	55	
12 Tu	0000	-0.2	-6	27	0621	1.3	40	12	0039	-0.1	-3	12	0132	0.3	9
	0742	1.3	40	W	0937	1.2	37	F	0847	1.5	46	Su	0842	1.8	55
	0957	1.2	37		1606	2.3	70		1107	1.4	43		1426	1.1	34
	1640	2.3	70						1717	2.1	64	●	1942	1.6	49
13 W	0111	-0.1	-3	28	0016	-0.1	-3	13	0138	0.0	0	13	0218	0.5	15
	1741	2.1	64	Th	0744	1.3	40	F	0932	1.6	49	M	0918	1.9	58
					1028	1.2	37		1313	1.4	43		1546	0.9	27
					1659	2.2	67	●	1840	1.8	55		2121	1.5	46
14 Th	0224	-0.1	-3	29	0119	0.0	0	14	0234	0.2	6	14	0303	0.7	21
	1054	1.4	43	F	0904	1.4	43	Sa	1006	1.7	52	W	0845	1.7	52
	1305	1.3	40		1201	1.3	40		1507	1.2	37		1352	1.2	37
	1910	1.9	58	●	1807	2.1	64		2025	1.7	52	●	1919	1.9	58
15 F	0331	0.0	0	30	0223	0.0	0	15	0326	0.3	9	15	0234	0.2	6
	1118	1.5	46	Sa	0955	1.5	46	W	1035	1.8	55	M	0925	1.9	58
	1521	1.3	40		1359	1.3	40		1626	1.0	30		1522	0.9	27
	2059	1.8	55		1935	1.9	58		2159	1.6	49		2057	1.7	52
												31	0325	0.4	12
												Tu	1001	2.0	61
												1635	0.6	18	
												2231	1.6	49	

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

St. Petersburg, Florida, 2016

Times and Heights of High and Low Waters

July				August				September			
Time	Height	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 F 0011	1.5	46	16 Sa 0057	1.5	46	1 M 0214	1.6	49	16 Tu 0142	1.7	52
0405	1.1	34	0413	1.3	40	0534	1.4	43	0535	1.4	43
1038	2.6	79	1045	2.4	73	1209	2.7	82	1156	2.7	82
1828	-0.1	-3	1840	0.1	3	1952	-0.1	-3	1929	0.1	3
2 Sa 0126	1.5	46	17 Su 0148	1.5	46	2 Tu 0244	1.6	49	17 W 0206	1.7	52
0450	1.2	37	0456	1.3	40	0626	1.3	40	0621	1.3	40
1124	2.7	82	1126	2.5	76	1256	2.7	82	1241	2.7	82
1919	-0.3	-9	1921	0.0	0	● 2029	0.0	0	2004	0.1	3
3 Su 0226	1.5	46	18 M 0226	1.5	46	3 W 0309	1.6	49	18 Th 0227	1.8	55
0533	1.3	40	0537	1.3	40	0715	1.2	37	0707	1.1	34
1209	2.8	85	1206	2.6	79	1339	2.7	82	1326	2.8	85
2006	-0.3	-9	1957	-0.1	-3	2101	0.1	3	○ 2038	0.2	6
4 M 0314	1.5	46	19 Tu 0255	1.5	46	4 Th 0330	1.7	52	19 F 0249	1.8	55
0618	1.3	40	0619	1.3	40	0802	1.1	34	0753	1.0	30
1254	2.8	85	1245	2.7	82	1420	2.6	79	1412	2.7	82
● 2049	-0.3	-9	○ 2033	-0.1	-3	2131	0.2	6	2111	0.3	9
5 Tu 0353	1.5	46	20 W 0320	1.5	46	5 F 0350	1.8	55	20 Sa 0314	2.0	61
0705	1.3	40	0702	1.3	40	0850	1.1	34	0843	0.9	27
1338	2.7	82	1326	2.7	82	1501	2.4	73	1501	2.6	79
2129	-0.2	-6	2108	-0.1	-3	2200	0.4	12	2145	0.5	15
6 W 0426	1.5	46	21 Th 0344	1.6	49	6 Sa 0413	1.9	58	21 Su 0342	2.1	64
0755	1.2	37	0749	1.2	37	0939	1.0	30	0937	0.7	21
1421	2.6	79	1410	2.7	82	1543	2.3	70	1554	2.4	73
2206	-0.1	-3	2143	-0.1	-3	2229	0.5	15	2218	0.7	21
7 Th 0456	1.5	46	22 F 0411	1.7	52	7 Su 0439	2.0	61	22 M 0415	2.2	67
0850	1.2	37	0841	1.1	34	1031	0.9	27	1038	0.7	21
1506	2.5	76	1456	2.6	79	1630	2.1	64	1654	2.2	67
2241	0.0	0	2219	0.1	3	2259	0.7	21	2253	0.9	27
8 F 0526	1.6	49	23 Sa 0440	1.7	52	8 M 0509	2.1	64	23 Tu 0453	2.3	70
0950	1.2	37	0939	1.0	30	1129	0.9	27	1147	0.6	18
1552	2.3	70	1547	2.5	76	1725	1.9	58	1806	1.9	58
2317	0.2	6	2256	0.2	6	2332	0.9	27	2329	1.1	34
9 Sa 0558	1.7	52	24 Su 0514	1.9	58	9 Tu 0545	2.1	64	24 W 0538	2.4	73
1057	1.2	37	1044	1.0	30	1236	0.8	24	1308	0.6	18
1644	2.1	64	1645	2.2	67	1833	1.7	52	1945	1.7	52
2353	0.4	12	2335	0.4	12	● ○			2349	1.5	46
10 Su 0633	1.8	55	25 M 0553	2.0	61	10 W 0008	1.1	34	25 Th 0009	1.3	40
1211	1.1	34	1159	0.9	27	0627	2.2	67	0634	2.5	76
1745	1.8	55	1754	1.9	58	1351	0.8	24	1436	0.5	15
● ○	1.6	49	○ 2005	1.6	49	2152	1.6	49	2152	1.6	49
11 M 0031	0.6	18	26 Tu 0015	0.7	21	11 Th 0049	1.2	37	26 F 0102	1.5	46
0711	1.9	58	0636	2.1	64	0717	2.2	67	0744	2.5	76
1331	1.0	30	1323	0.7	21	1509	0.7	21	1600	0.4	12
● ○	1.6	49	○ 1921	1.7	52	2158	1.5	46	2334	1.6	49
12 Tu 0111	0.8	24	27 W 0058	0.9	27	12 F 0140	1.3	40	27 Sa 0219	1.5	46
0752	2.0	61	0726	2.3	70	0815	2.3	70	0904	2.5	76
1451	0.8	24	1451	0.6	18	1621	0.5	15	1710	0.3	9
2039	1.5	46	2112	1.5	46	2333	1.6	49	2334	1.6	49
13 W 0154	0.9	27	28 Th 0144	1.1	34	13 Sa 0242	1.4	43	28 Su 0030	1.7	52
0836	2.1	64	0821	2.4	73	0917	2.4	73	0344	1.5	46
1603	0.6	18	1613	0.3	9	1720	0.4	12	1019	2.6	79
2223	1.4	43	2307	1.5	46	1809	0.3	9	1805	0.2	6
14 Th 0240	1.1	34	29 F 0236	1.3	40	14 Su 0033	1.6	49	29 W 0105	1.8	55
0920	2.2	67	0921	2.5	76	0347	1.5	46	0456	1.5	46
1704	0.4	12	1723	0.1	3	1016	2.4	73	1123	2.6	79
2350	1.4	43				1809	0.3	9	1849	0.2	6
15 F 0327	1.2	37	30 Sa 0035	1.5	46	15 M 0113	1.7	52	30 Tu 0133	1.8	55
1003	2.3	70	0335	1.4	43	0445	1.4	43	0553	1.3	40
1756	0.3	9	1021	2.6	79	1109	2.6	79	1216	2.6	79
			1821	0.0	0	1851	0.2	6	1926	0.3	9
31 Su 0133	1.6	49				31 W 0154	1.9	58			
0436	1.4	43				0641	1.2	37			
1118	2.7	82				1301	2.6	79			
1910	-0.1	-3				1957	0.4	12			

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
 Heights are referred to mean lower low water which is the chart datum of soundings.

St. Petersburg, Florida, 2016

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	0132	2.3 70		16 Su	0102	2.5 76		1 Tu	0123	2.5 76	
	0756	0.6 18		0748	0.2 6		0851	0.0 0	0134	2.7 82	
	1419	2.2 67		1422	2.3 70		1537	1.8 55	0923	-0.5 -15	
	2001	1.0 30		1947	1.1 34		1957	1.3 40	1633	1.6 49	
2 Su	0148	2.4 73		17 M	0131	2.6 79		2 W	0150	2.5 76	
	0830	0.5 15		0836	0.0 0		0927	0.0 0	0215	2.7 82	
	1455	2.1 64		1517	2.1 64		1617	1.7 52	1016	-0.4 -12	
	2023	1.1 34		2017	1.2 37		2022	1.3 40	1739	1.5 46	
3 M	0208	2.4 73		18 Tu	0204	2.7 82		3 Th	0221	2.5 76	
	0905	0.4 12		0928	-0.1 -3		1007	0.0 0	0300	2.6 79	
	1533	2.0 61		1618	1.9 58		1703	1.6 49	1110	-0.3 -9	
	2045	1.2 37		2047	1.4 43		2053	1.4 43	1850	1.5 46	
4 Tu	0232	2.5 76		19 W	0241	2.7 82		4 F	0258	2.5 76	
	0943	0.4 12		1024	0.0 0		1054	0.1 3	0352	2.3 70	
	1615	1.9 58		1728	1.8 55		1800	1.6 49	1208	-0.1 -3	
	2110	1.3 40		2118	1.5 46		2134	1.4 43	1956	1.5 46	
5 W	0301	2.5 76		20 Th	0323	2.7 82		5 Sa	0341	2.4 73	
	1026	0.4 12		1126	0.0 0		1147	0.2 6	0456	2.1 64	
	1704	1.8 55		1858	1.7 52		1908	1.6 49	1307	0.1 3	
	2139	1.4 43		2155	1.6 49		2235	1.5 46	2046	1.6 49	
6 Th	0336	2.5 76		21 F	0413	2.6 79		6 Su	0434	2.2 67	
	1117	0.4 12		1235	0.2 6		1246	0.2 6	0100	1.3 40	
	1807	1.8 55		2043	1.7 52		2016	1.7 52	0625	1.8 55	
	2213	1.5 46		2258	1.6 49		O	2124	1.7 52	1405	0.3 9
7 F	0417	2.4 73		22 Sa	0518	2.4 73		7 M	0007	1.5 46	
	1217	0.5 15		1349	0.3 9		0544	2.1 64	0249	1.1 34	
	1931	1.7 52		2152	1.8 55		1349	0.3 9	0816	1.6 49	
	2300	1.6 49		O	2108	1.7 52		2158	1.8 55	1458	0.4 12
8 Sa	0510	2.3 70		23 Su	0059	1.6 49		8 Tu	0152	1.4 43	
	1327	0.5 15		0651	2.2 67		0716	1.9 58	0407	0.8 24	
	2106	1.7 52		1458	0.4 12		1450	0.3 9	0954	1.6 49	
	O			2230	1.8 55		2148	1.8 55	1546	0.6 18	
9 Su	0021	1.6 49		24 M	0259	1.5 46		9 W	0318	1.1 34	
	0620	2.3 70		0844	2.1 64		0854	1.9 58	0503	0.5 15	
	1439	0.5 15		1558	0.5 15		1544	0.4 12	1110	1.5 46	
	2211	1.8 55		2300	1.9 58		2221	2.0 61	1628	0.7 21	
10 M	0207	1.6 49		25 Tu	0421	1.2 37		10 Th	0424	0.8 24	
	0751	2.2 67		1014	2.0 61		1019	1.9 58	0548	0.3 9	
	1544	0.5 15		1646	0.6 18		1633	0.5 15	1212	1.5 46	
	2251	1.9 58		2326	2.0 61		2251	2.1 64	1705	0.9 27	
11 Tu	0333	1.5 46		26 W	0517	1.0 30		11 F	0519	0.5 15	
	0921	2.2 67		1122	2.0 61		1131	1.9 58	0627	0.1 3	
	1638	0.5 15		1725	0.7 21		1715	0.7 21	1305	1.5 46	
	2321	2.0 61		2348	2.1 64		2320	2.3 70	1737	1.0 30	
12 W	0437	1.2 37		27 Th	0602	0.7 24		12 Sa	0608	-0.3 0	
	1035	2.3 70		1217	2.0 61		1014	1.9 58	0508	0.0 0	
	1724	0.5 15		1758	0.8 24		1646	0.6 18	1135	1.4 43	
	2347	2.1 64					2256	2.1 64	1624	0.7 21	
13 Th	0529	1.0 30		28 F	0008	2.2 67		13 Su	0627	0.1 3	
	1138	2.4 73		0640	0.5 15		1335	1.9 58	0627	-0.3 -9	
	1805	0.6 18		1304	2.0 61		1829	1.0 30	1351	1.4 43	
				1827	1.0 30		2350	2.4 73	1746	1.0 30	
14 F	0011	2.2 67		29 Sa	0026	2.3 70		14 M	0026	2.3 70	
	0616	0.7 21		0715	0.3 9		0744	-0.3 -9	0703	-0.1 -3	
	1234	2.4 73		1345	1.9 58		1433	1.8 55	1351	1.4 43	
	1842	0.7 21		1851	1.1 34		O	1901	1.2 37	1824	1.1 34
15 Sa	0036	2.3 70		30 Su	0043	2.4 73		15 Tu	0056	2.7 82	
	0702	0.4 12		0747	0.2 6		0833	-0.5 -15	0809	2.4 73	
	1328	2.3 70		1424	1.9 58		1532	1.7 52	0841	-0.3 -9	
	O	1915	0.9 27	O	1913	1.2 37		1932	1.3 40	1544	1.4 43
				31 M	0101	2.4 73		16 W	0818	0.1 3	
				0818	0.1 3		1500	1.8 55	0830	-0.8 -24	
				1500	1.8 55		1934	1.2 37	1541	1.3 40	
				1934	1.2 37				1903	1.1 34	

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Cedar Key, Florida, 2016

Times and Heights of High and Low Waters

January				February				March			
Time	Height	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 F 0006	0.9	27	16 Sa 0022	0.4	12	1 M 0116	0.5	15	16 Tu 0228	0.1	3
0555	2.7	82	0614	2.8	85	0736	2.2	67	0904	2.2	67
1212	0.6	18	1222	0.5	15	1253	1.1	34	1355	1.5	46
1839	3.1	94	● 1840	3.3	101	1910	3.1	94	2004	3.2	98
2 Sa 0107	0.8	24	17 Su 0133	0.3	9	2 Tu 0231	0.4	12	17 W 0355	0.0	0
0706	2.4	73	0737	2.5	76	0908	2.1	64	1045	2.3	70
1300	0.9	27	1319	0.9	27	1402	1.4	43	1524	1.5	46
● 1927	3.1	94	1937	3.3	101	2013	3.1	94	2123	3.2	98
3 Su 0217	0.7	21	18 M 0253	0.1	3	3 W 0350	0.2	6	18 Th 0507	-0.2	-6
0829	2.3	70	0913	2.3	70	1036	2.3	70	1152	2.5	76
1358	1.1	34	1430	1.2	37	1524	1.5	46	1646	1.4	43
2020	3.1	94	2040	3.3	101	2121	3.2	98	2235	3.3	101
4 M 0331	0.4	12	19 Tu 0411	-0.1	-3	4 Th 0458	-0.1	-3	19 F 0602	-0.4	-12
0953	2.3	70	1046	2.4	73	1144	2.5	76	1237	2.8	85
1505	1.3	40	1547	1.4	43	1639	1.4	43	1748	1.2	37
2115	3.2	98	2145	3.4	104	2224	3.3	101	2335	3.4	104
5 Tu 0436	0.1	3	20 W 0518	-0.4	-12	5 F 0551	-0.4	-12	20 Sa 0645	-0.5	-15
1106	2.5	76	1158	2.6	79	1233	2.7	82	1311	2.9	88
1611	1.4	43	1658	1.4	43	1739	1.3	40	1837	0.9	27
2207	3.3	101	2246	3.5	107	2319	3.5	107	2301	3.5	107
6 W 0530	-0.2	-6	21 Th 0613	-0.7	-21	6 Sa 0637	-0.7	-21	21 Su 0724	3.5	107
1205	2.6	79	1250	2.8	85	1314	2.9	88	0722	-0.5	-15
1710	1.4	43	1757	1.2	37	1830	1.1	34	1340	3.1	94
2255	3.5	107	2340	3.7	113	1918	0.7	21	1918	0.7	21
7 Th 0616	-0.5	-15	22 F 0700	-0.8	-24	7 Su 0010	3.7	113	22 M 0106	3.6	110
1253	2.8	85	1332	2.9	88	0718	-0.8	-24	0755	-0.5	-15
1802	1.3	40	1847	1.1	34	1349	3.1	94	1406	3.2	98
2340	3.6	110	● 1931	0.9	27	1916	0.8	24	● 1956	0.5	15
8 F 0658	-0.7	-21	23 Sa 0028	3.7	113	8 M 0057	3.8	116	23 Tu 0145	3.6	110
1335	3.0	91	0740	-0.9	-27	0758	-0.9	-27	0824	-0.4	-12
1848	1.2	37	1408	3.0	91	1422	3.2	98	1431	3.3	101
● 1932	1.1	34	● 1931	0.9	27	● 2000	0.6	18	2030	0.3	9
9 Sa 0023	3.7	113	24 Su 0112	3.7	113	9 Tu 0144	3.9	119	24 W 0222	3.5	107
0737	-0.8	-24	0817	-0.8	-24	0835	-0.8	-24	0852	-0.2	-6
1413	3.0	91	1439	3.1	94	1454	3.3	101	1456	3.3	101
● 1932	1.1	34	2011	0.8	24	2044	0.4	12	2104	0.2	6
10 Su 0106	3.8	116	25 M 0153	3.7	113	10 W 0230	3.9	119	25 Th 0257	3.4	104
0816	-0.9	-27	0850	-0.7	-21	0913	-0.7	-21	0918	0.0	0
1449	3.1	94	1508	3.1	94	1525	3.4	104	1520	3.4	104
2014	1.0	30	2049	0.7	21	2128	0.2	6	2137	0.1	3
11 M 0148	3.9	119	26 Tu 0232	3.6	110	11 Th 0317	3.7	113	26 F 0334	3.2	98
0854	-0.9	-27	0921	-0.5	-15	0950	-0.4	-12	0945	0.1	3
1523	3.2	98	1536	3.2	98	1557	3.5	107	1545	3.5	107
2057	0.9	27	2126	0.6	18	2214	0.0	0	2211	0.1	3
12 Tu 0232	3.8	116	27 W 0311	3.4	104	12 F 0407	3.4	104	27 Sa 0411	3.0	91
0932	-0.8	-24	0950	-0.3	-9	1027	-0.1	-3	1013	0.4	12
1557	3.2	98	1603	3.2	98	1632	3.5	107	1613	3.5	107
2142	0.7	21	2203	0.5	15	2304	0.0	0	2248	0.1	3
13 W 0319	3.7	113	28 Th 0350	3.2	98	13 Sa 0501	3.1	94	28 Su 0453	2.8	85
1011	-0.6	-18	1019	0.0	0	1106	0.3	9	1044	0.6	18
1632	3.2	98	1631	3.2	98	1710	3.5	107	1644	3.4	104
2229	0.6	18	2242	0.5	15	1755	3.4	104	2331	0.2	6
14 Th 0410	3.5	107	29 F 0432	3.0	91	14 Su 0000	0.0	0	29 M 0544	2.5	76
1051	-0.3	-9	1050	0.2	6	0604	2.7	82	1120	0.9	27
1710	3.3	101	1702	3.2	98	1149	0.8	24	1721	3.4	104
2322	0.5	15	2325	0.5	15	1755	3.4	104	● 1852	3.3	101
15 F 0506	3.1	94	30 Sa 0520	2.7	82	15 M 0107	0.1	3	15 Tu 0043	0.0	0
1134	0.1	3	1123	0.5	15	0724	2.3	70	0712	2.4	73
1752	3.3	101	1736	3.2	98	1242	1.2	37	1216	1.4	43
● 1818	3.2	98	● 1818	3.2	98	1852	3.3	101	● 1816	3.3	101
31 Su 0015	0.5	15	31 Su 0619	2.4	73						
0619	2.4	73	1202	0.8	24						
● 1818	3.2	98	● 1818	3.2	98						

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Cedar Key, Florida, 2016

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 <i>F</i>	0210	0.3 9		16	0401 0.5 15		1	0246 0.4 12		16	0357 1.0 30		1	0415 1.0 30
	0916	2.5 76	Sa	1033 2.8 85		Su	0934 3.0 91		M	1013 3.3 101		W	1023 3.9 119	
	1420	1.6 49		1616 1.3 40			1524 1.3 40			1645 0.9 27			1713 0.2 6	
	2004	3.1 94		2208 3.0 91			2110 3.2 98			2245 3.0 91			2324 3.4 104	
2 <i>Sa</i>	0332	0.2 6	17	0457 0.5 15		2	0356 0.4 12		17	0447 1.0 30		2	0512 1.1 34	
	1026	2.7 82	Su	1113 3.1 94		M	1025 3.3 101		Tu	1052 3.5 107		Th	1108 4.1 125	
	1548	1.4 43		1716 0.9 27			1634 0.9 27			1734 0.5 15			1807 -0.2 -6	
	2132	3.2 98		2312 3.2 98			2228 3.4 104			2340 3.2 98			1829 0.1 3	
3 <i>Su</i>	0440	0.1 3	18	0540 0.5 15		3	0455 0.4 12		18	0530 1.1 34		3	0025 3.6 110	
	1116	3.0 91	M	1146 3.3 101		Tu	1108 3.6 110		W	1127 3.7 113		F	0603 1.2 37	
	1657	1.0 30		1801 0.6 18			1731 0.3 9			1815 0.2 6			1151 4.3 131	
	2244	3.4 104					2333 3.6 110						1856 -0.6 -18	
4 <i>M</i>	0535	-0.1 -3	19	0001 3.3 101		4	0546 0.5 15		19	0026 3.3 101		4	0119 3.6 110	
	1155	3.3 101	Tu	0616 0.5 15		W	1147 3.8 116		Th	0607 1.1 34		Sa	0649 1.3 40	
	1752	0.6 18		1215 3.5 107			1822 -0.1 -3			1159 3.9 119			1233 4.5 137	
	2345	3.7 113		1840 0.3 9						1852 0.0 0		●	1944 -0.7 -21	
5 <i>Tu</i>	0621	-0.1 -3	20	0043 3.4 104		5	0031 3.7 113		20	0107 3.3 101		5	0209 3.6 110	
	1231	3.5 107	W	0648 0.6 18		Th	0632 0.6 18		F	0642 1.2 37		Su	0734 1.4 43	
	1840	0.1 3		1242 3.6 110			1225 4.1 125			1229 4.0 122			1315 4.5 137	
				1915 0.0 0			1910 -0.5 -15			1927 -0.1 -3			2029 -0.7 -21	
6 <i>W</i>	0040	3.8 116	21	0122 3.4 104		6	0124 3.8 116		21	0146 3.4 104		6	0257 3.5 107	
	0704	-0.1 -3	Th	0718 0.6 18		F	0715 0.7 21		Sa	0716 1.2 37		M	0807 1.6 49	
	1304	3.7 113		1308 3.8 116			1302 4.2 128			1259 4.1 125			1357 4.5 137	
	1926	-0.3 -9		1948 -0.1 -3			● 1956 -0.8 -24		O	2000 -0.2 -6			2113 -0.6 -18	
7 <i>Th</i>	0131	3.9 119	22	0158 3.4 104		7	0215 3.7 113		22	0223 3.3 101		7	0341 3.4 104	
	0744	0.1 3	F	0747 0.8 24		Sa	0757 0.9 27		Su	0750 1.3 40		W	0847 1.6 49	
	1337	3.9 119		1334 3.8 116			1339 4.3 131			1329 4.1 125			1420 4.3 131	
	● 2011	-0.6 -18	O	2019 -0.2 -6			2041 -0.8 -24			2034 -0.3 -9			2130 -0.2 -6	
8 <i>F</i>	0220	3.8 116	23	0233 3.3 101		8	0304 3.6 110		23	0259 3.3 101		8	0425 3.3 101	
	0823	0.3 9	Sa	0817 0.9 27		Su	0837 1.1 34		M	0825 1.4 43		W	0929 1.6 49	
	1411	4.0 122		1400 3.9 119			1418 4.3 131			1400 4.1 125		Th	1501 4.2 128	
	2056	-0.7 -21		2051 -0.2 -6			2127 -0.7 -21			2107 -0.3 -9			2238 -0.1 -3	
9 <i>Sa</i>	0309	3.6 110	24	0308 3.3 101		9	0352 3.4 104		24	0337 3.3 101		9	0507 3.3 101	
	0901	0.6 18	Su	0847 1.0 30		M	0918 1.3 40		Tu	0901 1.5 46		Th	1015 1.5 46	
	1446	4.1 125		1428 3.9 119			1458 4.2 128			1434 4.1 125			1547 4.1 125	
	2141	-0.7 -21		2123 -0.2 -6			2213 -0.5 -15			2143 -0.2 -6			2248 0.1 3	
10 <i>Su</i>	0358	3.4 104	25	0344 3.2 98		10	0441 3.2 98		25	0416 3.2 98		10	0551 3.2 98	
	0939	0.9 27	M	0919 1.1 34		Tu	1001 1.4 43		W	0940 1.5 46		Sa	1106 1.5 46	
	1523	4.0 122		1457 3.9 119			1541 4.0 122			1511 4.0 122			1640 3.8 116	
	2229	-0.6 -18		2158 -0.2 -6			2301 -0.2 -6			2222 -0.1 -3			2333 0.3 9	
11 <i>M</i>	0450	3.1 94	26	0424 3.0 91		11	0533 3.0 91		26	0459 3.2 98		11	0005 0.6 18	
	1019	1.1 34	Tu	0953 1.3 40		W	1048 1.6 49		Th	1024 1.6 49		Sa	0637 3.2 98	
	1603	3.9 119		1531 3.8 116			1629 3.7 113			1554 3.9 119			1225 1.6 49	
	2320	-0.3 -9		2237 -0.1 -3			2352 0.1 3			2306 0.0 0			1810 3.2 98	
12 <i>Tu</i>	0548	2.8 85	27	0510 2.9 88		12	0630 2.9 88		27	0547 3.2 98		12	0053 0.9 27	
	1103	1.4 43	W	1034 1.4 43		Th	1145 1.7 52		F	1117 1.6 49		Su	0727 3.3 101	
	1650	3.6 110		1610 3.7 113			1727 3.4 104			1647 3.7 113			1336 1.5 46	
				2324 0.0 0						2357 0.2 6			● 1927 3.0 91	
13 <i>W</i>	0018	0.0 0	28	0607 2.8 85		13	0048 0.4 12		28	0642 3.2 98		13	0147 1.2 37	
	0656	2.6 79	Th	1125 1.6 49		F	0731 2.8 85		Sa	1222 1.6 49		M	0750 3.7 113	
	1159	1.6 49		1700 3.5 107			1256 1.7 52			1754 3.4 104			1435 1.0 30	
	● 1749	3.3 101					● 1841 3.1 94						2051 2.9 88	
14 <i>Th</i>	0128	0.3 9	29	0021 0.2 6		14	0151 0.7 21		29	0056 0.5 15		14	0246 1.4 43	
	0818	2.5 76	F	0716 2.8 85		Sa	0833 2.9 88		Su	0742 3.3 101		W	0848 3.9 119	
	1316	1.7 52		1234 1.7 52			1420 1.6 49			1339 1.5 46			1551 0.6 18	
	1909	3.1 94	O	1808 3.3 101			2010 2.9 88			● 1920 3.2 98			2209 2.9 88	
15 <i>F</i>	0247	0.5 15	30	0130 0.3 9		15	0257 0.9 27		30	0202 0.7 21		15	0345 1.5 46	
	0936	2.6 79	Sa	0829 2.8 85		Su	0928 3.1 94		M	0841 3.4 104		W	0945 4.1 125	
	1451	1.6 49		1400 1.6 49			1542 1.3 40			1459 1.2 37			1700 0.7 21	
	2044	2.9 88		1938 3.2 98			2135 2.9 88			2051 3.2 98			2313 3.0 91	
31 0311 0.9 27 31 0934 3.6 110 31 1611 0.7 21 31 2213 3.3 101														

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Cedar Key, Florida, 2016

Times and Heights of High and Low Waters

July				August				September			
Time	Height	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 F 0442	1.6	49	16 Sa 0448	1.9	58	1 M 0103	3.5	107	1 Th 0140	3.7	113
1038	4.3	131	1042	4.0	122	0618	1.6	49	0732	1.0	30
1755	-0.2	-6	1804	0.3	9	1207	4.5	137	1328	4.3	131
						1920	-0.2	-6	2007	0.3	9
2 Sa 0022	3.4	104	17 Su 0033	3.2	98	2 Tu 0142	3.6	110	2 Th 0207	3.8	116
0539	1.6	49	0540	1.8	55	0705	1.5	46	0809	0.8	24
1128	4.4	134	1128	4.2	128	1254	4.5	137	1406	4.2	128
1846	-0.4	-12	1845	0.1	3	2000	-0.2	-6	2037	0.5	15
3 Su 0114	3.5	107	18 M 0115	3.4	104	3 W 0216	3.6	110	3 Sa 0233	3.8	116
0630	1.6	49	0627	1.7	52	0748	1.3	40	0844	0.7	21
1216	4.5	137	1210	4.3	131	1337	4.5	137	1443	4.0	122
1933	-0.5	-15	1924	-0.1	-3	2035	0.0	0	2105	0.6	18
4 M 0201	3.5	107	19 Tu 0153	3.5	107	4 Th 0247	3.7	113	4 Su 0259	3.9	119
0717	1.6	49	0710	1.6	49	0828	1.2	37	0918	0.7	21
1301	4.6	140	1251	4.4	134	1417	4.3	131	1520	3.9	119
● 2017	-0.5	-15	2000	-0.2	-6	2108	0.1	3	2133	0.8	24
5 Tu 0242	3.6	110	20 W 0228	3.6	110	5 F 0317	3.7	113	5 M 0326	3.9	119
0802	1.5	46	0752	1.5	46	0907	1.2	37	0953	0.7	21
1345	4.5	137	1332	4.4	134	1457	4.2	128	1559	3.7	113
2057	-0.3	-9	2036	-0.2	-6	2139	0.4	12	2202	1.1	34
6 W 0320	3.5	107	21 Th 0301	3.6	110	6 Sa 0345	3.7	113	6 Tu 0355	3.9	119
0845	1.5	46	0833	1.4	43	0945	1.1	34	1031	0.7	21
1428	4.4	134	1413	4.4	134	1537	4.0	122	1641	3.4	104
2135	-0.1	-3	2112	-0.1	-3	2209	0.6	18	2235	1.3	40
7 Th 0356	3.5	107	22 F 0334	3.7	113	7 Su 0414	3.7	113	7 W 0427	3.8	116
0928	1.5	46	0916	1.3	40	1025	1.1	34	1114	0.8	24
1511	4.2	128	1457	4.3	131	1620	3.7	113	1731	3.2	98
2211	0.1	3	2149	0.0	0	2240	0.9	27	2312	1.5	46
8 F 0430	3.5	107	23 Sa 0407	3.7	113	8 M 0446	3.8	116	8 Th 0506	3.8	116
1011	1.4	43	1001	1.2	37	1107	1.1	34	1206	0.9	27
1555	3.9	119	1544	4.2	128	1707	3.4	104	1837	2.9	88
2246	0.4	12	2228	0.3	9	2313	1.2	37			
9 Sa 0504	3.5	107	24 Su 0443	3.8	116	9 Tu 0521	3.8	116	9 F 0000	1.7	52
1056	1.4	43	1051	1.1	34	1157	1.1	34	0557	3.6	110
1643	3.7	113	1637	3.9	119	1803	3.1	94	1314	1.0	30
2321	0.7	21	2309	0.6	18	2352	1.4	43	2001	2.8	85
10 Su 0541	3.5	107	25 M 0523	3.8	116	10 W 0603	3.7	113	10 Th 0106	1.9	58
1147	1.4	43	1148	1.0	30	1257	1.1	34	0706	3.5	107
1737	3.3	101	1739	3.5	107	1916	2.9	88	1436	0.9	27
2359	1.0	30	2354	1.0	30				2129	2.8	85
11 M 0622	3.6	110	26 Tu 0609	3.9	119	11 Th 0042	1.7	52	11 Su 0230	2.0	61
1246	1.4	43	1254	1.0	30	0657	3.7	113	0827	3.6	110
1843	3.1	94	1855	3.2	98	1411	1.1	34	1555	0.8	24
● O						2043	2.8	85	2238	3.0	91
12 Tu 0044	1.3	40	27 W 0048	1.4	43	12 F 0147	1.9	58	12 M 0350	1.9	58
0709	3.6	110	0704	3.9	119	0801	3.7	113	0942	3.7	113
1355	1.3	40	1412	0.8	24	1531	1.0	30	1657	0.5	15
2003	2.9	88	2025	3.0	91	2208	2.9	88	2328	3.3	101
13 W 0138	1.6	49	28 Th 0153	1.7	52	13 Sa 0305	2.0	61	13 Tu 0412	1.9	58
0802	3.7	113	0808	4.0	122	0909	3.8	116	1045	4.0	122
1510	1.1	34	1533	0.6	18	1641	0.7	21	1746	0.3	9
2127	2.8	85	2159	3.0	91	2316	3.0	91			
14 Th 0242	1.8	55	29 F 0308	1.9	58	14 M 0417	2.0	61	14 W 0000	3.3	101
0858	3.7	113	0915	4.1	125	1011	3.9	119	0516	1.6	49
1620	0.8	24	1646	0.3	9	1734	0.4	12	1112	4.1	125
2243	2.9	88	2318	3.1	94				1821	0.1	3
15 F 0348	1.9	58	30 Sa 0421	1.9	58	15 M 0006	3.3	101	15 Th 0008	3.5	107
0953	3.9	119	1019	4.2	128	0516	1.8	55	0546	1.3	40
1717	0.5	15	1746	0.0	0	1106	4.1	125	1139	4.2	128
2344	3.1	94				1819	0.2	6	1829	0.2	6
31 Su 0017	3.3	101				31 W 0111	3.6	110			
						0524	1.8	55	0653	1.1	34
						1116	4.4	134	1248	4.3	131
						1836	-0.2	-6	1936	0.2	6

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Cedar Key, Florida, 2016

Times and Heights of High and Low Waters

October				November				December									
	Time	Height			Time	Height			Time	Height							
1 Sa	0125	3.8	116	16 Su	0106	4.1	125	1 Tu	0140	3.9	119	16 W	0152	4.2	128		
	0749	0.3	9		0743	-0.3	-9		0834	-0.2	-6		0903	-0.9	-27		
	1355	3.9	119		1356	4.1	125		1456	3.4	104		1531	3.4	104		
	2004	0.8	24		1957	0.7	21		2034	1.2	37		2059	1.2	37		
2 Su	0151	3.9	119	17 M	0141	4.2	128	2 W	0209	3.9	119	17 Th	0235	4.1	125		
	0822	0.3	9		0828	-0.5	-15		0906	-0.1	-3		0950	-0.7	-21		
	1430	3.8	116		1445	3.9	119		1532	3.3	101		1621	3.2	98		
	2032	0.9	27		2037	0.9	27		2107	1.3	40		2145	1.3	40		
3 M	0217	3.9	119	18 Tu	0217	4.2	128	3 Th	0239	3.8	116	18 F	0320	4.0	122		
	0854	0.2	6		0914	-0.5	-15		0940	-0.1	-3		1038	-0.4	-12		
	1506	3.7	113		1535	3.7	113		1611	3.2	98		1712	3.1	94		
	2101	1.1	34		2118	1.2	37		2143	1.4	43		2234	1.4	43		
4 Tu	0243	3.9	119	19 W	0256	4.2	128	4 F	0313	3.8	116	19 Sa	0411	3.7	113		
	0926	0.2	6		1003	-0.4	-12		1018	0.0	0		1129	-0.1	-3		
	1543	3.5	107		1627	3.4	104		1654	3.1	94		1805	2.9	88		
	2131	1.2	37		2200	1.4	43		2224	1.5	46		2330	1.5	46		
5 W	0312	3.9	119	20 Th	0338	4.1	125	5 Sa	0353	3.6	110	20 Su	0510	3.4	104		
	1001	0.3	9		1054	-0.2	-6		1102	0.2	6		1223	0.3	9		
	1623	3.3	101		1725	3.1	94		1746	3.0	91		1901	2.9	88		
	2204	1.4	43		2248	1.6	49		2314	1.6	49		2358	1.2	37		
6 Th	0344	3.8	116	21 F	0427	3.9	119	6 Su	0442	3.5	107	21 O	0037	1.4	43		
	1041	0.4	12		1152	0.1	3		1154	0.3	9		0623	3.0	91		
	1709	3.1	94		1830	2.9	88		1846	2.9	88		1323	0.6	18		
	2243	1.5	46		2345	1.7	52		1959	2.9	88		1959	2.9	88		
7 F	0422	3.7	113	22 Sa	0528	3.6	110	7 M	0018	1.6	49	22 Tu	0155	1.3	40		
	1128	0.5	15		1259	0.4	12		0547	3.2	98		0749	2.8	85		
	1808	2.9	88		1944	2.8	85		1257	0.5	15		1427	0.8	24		
	2332	1.7	52		O	1953	3.0	91		1953	3.0	91		2053	3.0	91	
8 Sa	0511	3.6	110	23 Su	0058	1.8	55	8 Tu	0135	1.5	46	23 W	0314	1.0	30		
	1228	0.7	21		0649	3.3	101		0713	3.1	94		0915	2.8	85		
	1923	2.8	85		1414	0.6	18		1409	0.6	18		1529	1.0	30		
	O				2057	2.9	88		2055	3.1	94		2142	3.2	98		
9 Su	0039	1.9	58	24 M	0225	1.7	52	9 W	0254	1.3	40	24 Th	0421	0.7	21		
	0619	3.4	104		0822	3.2	98		0843	3.1	94		1029	2.9	88		
	1343	0.8	24		1528	0.7	21		1519	0.6	18		1624	1.0	30		
	2043	2.9	88		2156	3.0	91		2148	3.3	101		2224	3.3	101		
10 M	0202	1.8	55	25 Tu	0347	1.3	40	10 Th	0403	0.8	24	25 F	0513	0.3	9		
	0748	3.3	101		0947	3.2	98		1001	3.3	101		1127	3.0	91		
	1502	0.7	21		1629	0.7	21		1621	0.6	18		1710	1.1	34		
	2150	3.1	94		2240	3.2	98		2233	3.5	107		2302	3.5	107		
11 Tu	0323	1.6	49	26 W	0450	1.0	30	11 F	0502	0.3	9	11 Sa	0440	0.0	0		
	0913	3.4	104		1053	3.3	101		1108	3.5	107		1056	3.0	91		
	1610	0.6	18		1716	0.8	24		1716	0.7	21		1638	1.0	30		
	2241	3.3	101		2316	3.4	104		2314	3.8	116		2234	3.7	113		
12 W	0430	1.3	40	27 Th	0538	0.6	18	12 Sa	0553	-0.2	-6	12 Su	0636	-0.2	-6		
	1023	3.6	110		1145	3.5	107		1207	3.6	110		1257	3.2	98		
	1706	0.4	12		1755	0.8	24		1804	0.7	21		1828	1.1	34		
	2322	3.5	107		2348	3.6	110		2353	4.0	122		2337	3.6	110		
13 Th	0524	0.8	24	28 F	0619	0.3	9	13 Su	0642	-0.6	-18	13 O	0010	3.7	113		
	1123	3.9	119		1228	3.6	110		1301	3.7	113		0711	-0.4	-12		
	1753	0.4	12		1829	0.8	24		1849	0.9	27		1336	3.2	98		
	2358	3.7	113		O	1932	1.0	30		1904	1.2	37		1914	1.1	34	
14 F	0612	0.4	12	29 Sa	0017	3.7	113	14 M	0032	4.1	125	14 Tu	0042	3.8	116		
	1216	4.1	125		0655	0.1	3		0729	-0.8	-24		0746	-0.4	-12		
	1836	0.4	12		1307	3.6	110		1352	3.7	113		1413	3.2	98		
	O	1917	0.5		1901	0.9	27		O	1933	1.0	30		●	1939	1.2	37
15 Sa	0032	3.9	119	30 Su	0045	3.8	116	15 Tu	0111	4.2	128	15 W	0113	3.8	116		
	0658	0.0	0		0729	-0.1	-3		0816	-0.9	-27		0819	-0.4	-12		
	1307	4.1	125		1344	3.5	107		1442	3.6	110		1448	3.2	98		
	O	1917	0.5		●	1932	1.0	30		2016	1.1	34		2014	1.2	37	
				31 M	0113	3.9	119					31 Sa	0209	3.7	113		
					0802	-0.1	-3						0912	-0.6	-18		
					1420	3.5	107						1543	3.1	94		
					2003	1.1	34						2118	1.0	30		

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

St. Marks River Entrance, Florida, 2016

Times and Heights of High and Low Waters

January				February				March			
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height
1 F 0026 0.9 27 0603 2.2 67 1216 0.8 24 1857 2.5 76	0029 0.2 6 0636 2.4 73 1225 0.5 15 1842 3.0 91	16 Sa 0157 0.5 15 0814 1.9 58 1255 1.2 37 1910 2.4 73	1 M 0256 -0.1 -3 0953 2.1 64 1357 1.5 46 2004 2.8 85	16 Tu 0053 0.4 12 0720 2.1 64 1204 1.3 40 1755 2.7 82	16 W 0231 0.1 3 0940 2.2 67 1324 1.8 55 1916 2.7 82						
2 Sa 0142 0.8 24 0733 2.0 61 1310 1.1 34 1955 2.5 76	0149 0.1 3 0814 2.2 67 1326 0.9 27 1941 2.9 88	2 Tu 0322 0.3 9 1002 2.0 61 1420 1.5 46 2034 2.4 73	17 W 0422 -0.2 -6 1115 2.3 70 1539 1.6 49 2148 2.7 82	2 W 0217 0.4 12 0909 2.1 64 1322 1.6 49 1903 2.5 76	17 Th 0402 0.1 3 1059 2.4 73 1529 1.8 55 2138 2.6 79						
3 Su 0304 0.6 18 0922 1.9 59 1420 1.3 40 2101 2.5 76	0316 -0.1 -3 0957 2.2 67 1441 1.2 37 2053 2.9 88	3 W 0434 0.1 3 1118 2.2 67 1554 1.5 46 2201 2.5 76	18 Th 0529 -0.4 -12 1208 2.5 76 1705 1.4 43 2308 2.9 88	3 Th 0344 0.2 6 1041 2.3 70 1511 1.7 52 2101 2.5 76	18 F 0511 0.1 3 1147 2.6 79 1703 1.5 46 2307 2.8 85						
4 M 0416 0.3 9 1046 2.1 64 1536 1.4 43 2201 2.6 79	0434 -0.4 -12 1117 2.4 73 1600 1.3 40 2207 3.0 91	4 Th 0530 -0.3 -9 1208 2.5 76 1707 1.4 43 2303 2.7 82	19 F 0620 -0.6 -18 1248 2.7 82 1805 1.1 34	4 F 0451 -0.1 -3 1138 2.6 79 1643 1.5 46 2234 2.7 82	19 Sa 0600 0.0 0 1223 2.9 88 1759 1.1 34						
5 Tu 0512 0.0 0 1143 2.4 73 1641 1.4 43 2251 2.7 82	0537 -0.7 -21 1216 2.6 79 1711 1.3 40 2311 3.1 94	5 F 0615 -0.6 -18 1249 2.8 85 1801 1.2 37 2353 3.0 91	20 Sa 0005 3.1 94 0701 -0.6 -18 1322 2.9 88 1851 0.8 24	5 Sa 0543 -0.4 -12 1220 2.9 88 1743 1.2 37 2337 3.0 91	20 Su 0002 3.0 91 0639 0.0 0 1253 3.1 94 1842 0.7 21						
6 W 0558 -0.3 -9 1228 2.6 79 1734 1.3 40 2333 2.9 88	0630 -0.9 -27 1302 2.8 85 1808 1.1 34	6 Sa 0655 -0.8 -24 1325 3.0 91 1845 1.0 30	21 Su 0050 3.2 98 0737 -0.6 -18 1353 3.1 94 1931 0.5 15	6 Su 0627 -0.6 -18 1256 3.1 94 1831 0.8 24	21 M 0045 3.1 94 0711 0.0 0 1322 3.3 101 1918 0.4 12						
7 Th 0638 -0.6 -18 1308 2.8 85 1818 1.2 37	0005 3.2 98 0715 -1.0 -30 1342 2.9 88 1857 0.9 27	7 F 0038 3.2 98 0733 -1.0 -30 1359 3.1 94 1926 0.7 21	22 Su 0129 3.2 98 0807 -0.5 -15 1421 3.2 98 2007 0.3 9	7 M 0028 3.3 101 0707 -0.7 -21 1329 3.3 101 1914 0.5 15	22 Tu 0121 3.2 98 0738 0.1 3 1348 3.4 104 1953 0.1 3						
8 F 0011 3.0 91 0716 -0.8 -24 1345 3.0 91 1858 1.1 34	0052 3.3 101 0755 -1.0 -30 1418 3.0 91 1939 0.8 24	8 M 0121 3.4 104 0808 -1.1 -34 1431 3.2 98 2007 0.4 12	23 Tu 0205 3.2 98 0834 -0.4 -12 1447 3.2 98 2042 0.2 6	8 W 0115 3.6 110 0744 -0.7 -21 1400 3.5 107 2055 0.1 3	23 O 0155 3.3 101 0802 0.2 6 1412 3.5 107 2025 0.0 0						
9 Sa 0048 3.2 98 0752 -1.0 -30 1420 3.1 94 1937 0.9 27	0134 3.3 101 0830 -0.9 -27 1450 3.0 91 2019 0.6 18	9 Tu 0204 3.5 107 0843 -1.0 -30 1502 3.3 101 2048 0.2 6	24 W 0239 3.2 98 0858 -0.2 -6 1512 3.3 101 2116 0.1 3	9 W 0201 3.7 113 0820 -0.5 -15 1429 3.6 110 2037 -0.3 -9	24 Th 0227 3.3 101 0825 0.3 9 1435 3.5 107 2057 -0.1 -3						
10 Su 0126 3.3 101 0827 -1.1 -34 1454 3.2 98 2016 0.8 24	0212 3.3 101 0901 -0.7 -21 1521 3.0 91 2057 0.5 15	10 M 0248 3.5 107 0917 -0.8 -24 1532 3.4 104 2130 0.0 0	25 Th 0312 3.1 94 0921 0.0 0 1535 3.2 98 2150 0.0 0	10 F 0247 3.7 113 0854 -0.3 -9 1459 3.7 113 2120 -0.5 -15	25 F 0300 3.3 101 0848 0.4 12 1456 3.5 107 2128 -0.2 -6						
11 M 0205 3.4 104 0902 -1.1 -34 1528 3.2 98 2056 0.6 18	0248 3.2 98 0929 -0.5 -15 1549 3.0 91 2134 0.4 12	11 Tu 0333 3.4 104 0951 -0.5 -15 1602 3.4 104 2216 -0.2 -6	26 F 0347 3.0 91 0944 0.2 6 1557 3.2 98 2225 0.1 3	11 F 0333 3.5 107 0927 0.1 3 1528 3.7 113 2204 -0.6 -18	26 Sa 0333 3.2 98 0913 0.5 15 1518 3.5 107 2200 -0.1 -3						
12 Tu 0247 3.4 104 0937 -0.9 -27 1602 3.2 98 2140 0.5 15	0324 3.0 91 0955 -0.2 -6 1616 3.0 91 2213 0.4 12	12 W 0423 3.1 94 1026 -0.1 -3 1634 3.3 101 2307 -0.2 -6	27 Sa 0424 2.8 85 1010 0.4 12 1619 3.1 94 2304 0.1 3	12 Sa 0422 3.2 98 1000 0.5 15 1558 3.7 113 2253 -0.5 -15	27 Su 0410 3.1 94 0941 0.7 21 1540 3.4 104 2235 0.0 0						
13 W 0332 3.3 101 1014 -0.7 -21 1637 3.2 98 2228 0.4 12	0401 2.8 85 1020 0.0 0 1642 2.9 88 2254 0.4 12	13 Th 0518 2.7 82 1103 0.4 12 1708 3.3 101 1749 3.1 94	28 Su 0507 2.6 79 1039 0.7 21 1644 3.0 91 2350 0.3 9	13 Su 0516 2.8 85 1034 0.9 27 1630 3.5 107 2349 -0.3 -9	28 M 0450 2.9 88 1012 0.9 27 1606 3.3 101 2316 0.1 3						
14 Th 0422 3.1 94 1053 -0.4 -12 1713 3.1 94 2323 0.3 9	0442 2.6 79 1047 0.3 9 1709 2.8 85 2341 0.4 12	14 Su 0008 -0.1 -3 0628 2.3 70 1144 0.9 27 1749 3.1 94	29 M 0602 2.3 70 1115 1.0 30 1714 2.8 85	14 M 0620 2.4 73 1111 1.3 40 1706 3.3 101	29 Tu 0540 2.7 82 1049 1.2 37 1636 3.2 98						
15 F 0521 2.8 85 1136 0.1 3 1754 3.0 91	0531 2.3 70 1118 0.6 18 1739 2.7 82	15 M 0124 -0.1 -3 0802 2.1 64 1238 1.3 40 1842 2.9 88	15 W 0100 0.0 0 0749 2.2 67 1200 1.6 49 1753 3.0 91	15 Tu 0100 0.0 0 0749 2.2 67 1200 1.6 49 1753 3.0 91	30 W 0009 0.2 6 0647 2.5 76 1137 1.5 46 1820 2.8 85						
31 W 0311 2.3 70 0637 2.0 61 1158 0.9 27 1816 2.5 76	0040 0.5 15 0637 2.0 61 1158 0.9 27 1816 2.5 76				31 Th 0120 0.3 9 0818 2.4 73 1251 1.8 55 1820 2.8 85						

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

St. Marks River Entrance, Florida, 2016

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 0246 0.3 9 0951 2.6 79 1437 1.8 55 2012 2.7 82	16 Sa 0434 0.6 18 1109 2.8 85 1650 1.5 46 2254 2.7 82		1 Su 0307 0.4 12 0958 3.1 94 1544 1.5 46 2138 2.9 88			16 M 0429 1.2 37 1058 3.1 94 1718 1.0 30 2327 2.7 82			1 W 0425 1.0 30 1045 3.7 113 1733 0.2 6 2355 3.3 101			16 Th 0456 1.6 49 1125 3.4 104 1819 0.4 12
	2 Sa 0402 0.2 6 1054 2.8 85 1615 1.6 49 2205 2.8 85	17 Su 0526 0.6 18 1146 3.0 91 1745 1.0 30 2350 2.9 88	2 M 0413 0.4 12 1050 3.3 101 1656 1.0 30 2301 3.2 98			17 Tu 0514 1.2 37 1135 3.3 101 1803 0.7 21			2 Th 0522 1.1 34 1132 3.9 119 1828 -0.3 -9			17 F 0035 2.9 88 0541 1.6 49 1200 3.5 107 1859 0.2 6
	3 Su 0502 0.0 0 1140 3.1 94 1721 1.1 34 2319 3.1 94	18 M 0605 0.6 18 1217 3.2 91 1826 0.7 21	3 Tu 0510 0.4 12 1133 3.6 110 1752 0.4 12			18 W 0014 2.9 88 0551 1.2 37 1207 3.5 107 1842 0.3 9			3 F 0054 3.5 107 0613 1.2 37 1215 4.1 125 1918 -0.6 -18			18 Sa 0115 3.0 91 0621 1.6 49 1233 3.6 110 1935 0.0 0
	4 M 0552 -0.1 -3 1218 3.4 104 1813 0.7 21	19 Tu 0033 3.0 91 0636 0.7 21 1246 3.4 104 1902 0.3 9	4 W 0005 3.4 104 0600 0.5 15 1211 3.8 116 1842 -0.1 -3			19 Th 0053 3.0 91 0623 1.3 40 1236 3.6 110 1918 0.1 3			4 Sa 0146 3.6 110 0700 1.3 40 1257 4.2 128 2006 -0.8 -24			19 Su 0151 3.2 98 0659 1.5 46 1303 3.8 116 2008 -0.2 -6
5 Tu 0017 3.4 104 0636 -0.1 -3 1252 3.6 110 1858 0.2 6	20 W 0109 3.2 98 0703 0.7 21 1312 3.6 110 1936 0.1 3		5 Th 0101 3.6 110 0644 0.7 21 1247 4.0 122 1929 -0.5 -15			20 F 0129 3.2 98 0654 1.3 40 1303 3.7 113 1951 -0.1 -3			5 Su 0234 3.6 110 0743 1.4 43 1337 4.2 128 2051 -0.8 -24			20 M 0227 3.3 101 0735 1.5 46 1334 3.9 119 2041 -0.3 -9
	6 W 0108 3.7 113 0716 0.0 0 1324 3.8 116 1942 -0.3 -9	21 Th 0143 3.3 101 0728 0.8 24 1337 3.7 113 2008 -0.1 -3	6 F 0152 3.7 113 0725 0.8 24 1323 4.1 125 2015 -0.8 -24			21 Sa 0204 3.3 101 0724 1.3 40 1329 3.8 116 2024 -0.2 -6			6 M 0320 3.5 107 0825 1.5 46 1417 4.2 128 2134 -0.7 -21			21 Tu 0302 3.4 104 0811 1.4 43 1406 3.9 119 2113 -0.4 -12
	7 Th 0157 3.8 116 0753 0.2 6 1355 3.9 119 2025 -0.6 -18	22 F 0215 3.3 101 0753 0.8 24 1400 3.7 113 2039 -0.2 -6	7 Sa 0241 3.7 113 0804 1.0 30 1358 4.2 128 2100 -0.9 -27			22 Su 0238 3.3 101 0754 1.3 40 1354 3.8 116 2055 -0.3 -9			7 Tu 0403 3.4 104 0906 1.5 46 1456 4.1 125 2216 -0.4 -12			22 W 0337 3.5 107 0849 1.4 43 1440 4.0 122 2146 -0.4 -12
	8 F 0245 3.7 113 0829 0.4 12 1426 4.0 122 2109 -0.8 -24	23 Sa 0248 3.3 101 0819 0.9 27 1422 3.7 113 2110 -0.2 -6	8 Su 0328 3.6 110 0842 1.2 37 1432 4.2 128 2145 -0.8 -24			23 M 0313 3.4 104 0827 1.3 40 1421 3.9 119 2127 -0.3 -9			8 W 0445 3.3 101 0948 1.5 46 1535 3.9 119 2256 -0.1 -3			23 Th 0412 3.5 107 0929 1.4 43 1519 4.0 122 2221 -0.3 -9
9 Sa 0332 3.6 110 0903 0.7 21 1457 4.0 122 2154 -0.8 -24	24 Su 0322 3.3 101 0847 0.9 27 1445 3.7 113 2141 -0.2 -6		9 M 0415 3.4 104 0919 1.4 43 1508 4.1 125 2230 -0.5 -15			24 Tu 0349 3.4 104 0901 1.3 40 1451 3.9 119 2201 -0.3 -9			9 Th 0527 3.1 94 1033 1.6 49 1616 3.6 110 2336 0.3 9			24 F 0449 3.5 107 1014 1.3 40 1602 3.8 116 2300 -0.1 -3
	10 Su 0420 3.3 101 0937 1.0 30 1528 3.9 119 2241 -0.6 -18	25 M 0359 3.3 101 0918 1.1 34 1510 3.7 113 2215 -0.2 -6	10 Tu 0503 3.1 94 0957 1.6 49 1544 3.8 116 2317 -0.2 -6			25 W 0428 3.4 104 0939 1.4 43 1525 3.8 116 2238 -0.2 -6			10 F 0611 3.0 91 1125 1.6 49 1702 3.2 98			25 Sa 0529 3.5 107 1105 1.3 40 1653 3.6 110 2343 0.1 3
	11 M 0511 3.0 91 1011 1.3 40 1601 3.7 113 2333 -0.3 -9	26 Tu 0439 3.2 98 0952 1.2 37 1539 3.6 110 2254 -0.1 -3	11 W 0554 2.9 88 1040 1.7 52 1623 3.5 107			26 Th 0511 3.3 101 1022 1.5 46 1604 3.7 113 2320 -0.1 -3			11 Sa 0018 0.7 21 0701 2.9 88 1232 1.7 52 1801 2.8 85			26 Su 0613 3.5 107 1207 1.2 37 1756 3.3 101
	12 Tu 0611 2.7 82 1050 1.6 49 1638 3.5 107	27 W 0526 3.0 91 1032 1.4 43 1614 3.5 107 2341 0.0 0	12 Th 0009 0.2 6 0654 2.7 82 1135 1.8 55 1710 3.1 94			27 F 0559 3.2 98 1115 1.6 49 1653 3.5 107			12 Su 0104 1.0 30 0758 2.9 88 1356 1.6 49 1931 2.5 76			27 M 0032 0.5 15 0702 3.5 107 1321 1.1 34 1919 3.0 91
13 W 0036 0.1 3 0727 2.4 73 1142 1.8 55 1723 3.1 94	28 Th 0623 2.9 88 1123 1.6 49 1659 3.3 101		13 F 0109 0.6 18 0805 2.6 79 1256 1.9 58 1821 2.7 82			28 Sa 0010 0.1 3 0654 3.2 98 1222 1.6 49 1758 3.2 98			13 M 0200 1.3 40 0859 2.9 88 1527 1.4 43 2125 2.4 73			28 Tu 0129 0.9 27 0758 3.5 107 1446 0.9 27 2059 2.9 88
	14 Th 0156 0.4 12 0902 2.4 73 1309 2.0 61 1842 2.7 82	29 F 0041 0.2 6 0735 2.8 85 1234 1.8 55 1803 3.0 91	14 Sa 0219 0.9 27 0917 2.7 82 1444 1.8 55 2031 2.5 76			29 Su 0109 0.3 9 0755 3.2 98 1345 1.5 46 1930 3.0 91			14 Tu 0302 1.5 46 0956 3.1 94 1640 1.1 34 2250 2.5 76			29 W 0233 1.2 37 0859 3.6 110 1607 0.5 15 2232 2.9 88
	15 F 0323 0.6 18 1020 2.6 79 1517 1.8 55 2118 2.6 79	30 Sa 0152 0.3 9 0852 2.9 88 1410 1.8 55 1945 2.8 85	15 Su 0330 1.1 34 1014 2.9 88 1618 1.4 43 2221 2.5 76			30 M 0215 0.6 18 0857 3.3 101 1513 1.2 37 2116 2.9 88			15 W 0403 1.6 49 1044 3.2 98 1735 0.7 21 2349 2.7 82			30 Th 0341 1.4 43 1001 3.7 113 1717 0.1 3 2346 3.1 94
						31 Tu 0322 0.8 24 0955 3.5 107 1630 0.7 21 2245 3.1 94						

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

St. Marks River Entrance, Florida, 2016

Times and Heights of High and Low Waters

July				August				September			
Time	Height	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 F 0447	1.6	49	16 Sa 0012	2.8	85	1 M 0121	3.3	101	1 Th 0203	3.6	110
1059	3.9	119	502	1.9	58	0627	1.6	49	0745	0.9	27
1817	-0.3	-9	1127	3.4	104	1235	4.1	125	1353	4.0	122
			1836	0.3	9	1943	-0.3	-9	2026	0.4	12
2 Sa 0046	3.3	101	17 Su 0056	3.0	91	2 0201	3.5	107	2 0232	3.7	113
0546	1.6	49	554	1.8	55	0716	1.4	43	0823	0.8	24
1152	4.0	122	1207	3.6	110	1321	4.1	125	1429	4.0	122
1909	-0.5	-15	1914	0.0	0	2022	-0.2	-6	2052	0.5	15
3 Su 0137	3.4	104	18 M 0134	3.2	98	3 W 0237	3.5	107	3 Sa 0259	3.7	113
0639	1.6	49	0638	1.7	52	0800	1.2	30	0859	0.7	21
1241	4.2	128	1244	3.8	116	1402	4.1	125	1503	3.9	119
1956	-0.6	-18	1949	-0.2	-6	2056	-0.1	-3	2117	0.7	21
4 M 0222	3.5	107	19 Tu 0209	3.4	104	4 Th 0310	3.6	110	4 Su 0324	3.7	113
0727	1.5	46	0719	1.6	49	0840	1.1	34	0934	0.7	21
1326	4.2	128	1320	3.9	119	1441	4.0	122	1538	3.8	116
2039	-0.6	-18	2022	-0.3	-9	2127	0.1	3	2141	0.9	27
5 Tu 0304	3.5	107	20 W 0243	3.5	107	5 F 0340	3.6	110	5 M 0347	3.6	110
0812	1.4	43	0758	1.4	43	0920	1.0	30	1010	0.7	21
1409	4.2	128	1357	4.1	125	1517	3.9	119	1615	3.6	110
2119	-0.5	-15	2055	-0.3	-9	2154	0.3	9	2207	1.1	34
6 W 0342	3.5	107	21 Th 0315	3.6	110	6 Sa 0409	3.5	107	6 Tu 0411	3.6	110
0854	1.4	43	0838	1.3	40	0958	1.0	30	1048	0.8	24
1449	4.1	125	1435	4.1	125	1554	3.7	113	1655	3.3	101
2155	-0.2	-6	2127	-0.3	-9	2220	0.6	18	2237	1.3	40
7 Th 0417	3.4	104	22 F 0347	3.7	113	7 Su 0435	3.5	107	7 W 0437	3.5	107
0936	1.3	40	0919	1.1	34	1039	1.0	30	1134	0.9	27
1528	3.9	119	1517	4.1	125	1633	3.5	107	1652	3.7	113
2228	0.1	3	2201	-0.2	-6	2246	0.9	27	2247	0.9	27
8 F 0451	3.3	101	23 Sa 0419	3.7	113	8 M 0502	3.4	104	8 Th 0449	3.9	119
1019	1.3	40	1003	1.0	30	1123	1.1	34	1133	0.5	15
1607	3.6	110	1602	4.0	122	1716	3.2	98	1751	3.3	101
2259	0.4	12	2236	0.1	3	2314	1.2	37	2328	1.2	37
9 Sa 0524	3.2	98	24 Su 0453	3.7	113	9 Tu 0531	3.3	101	24 W 0529	3.8	116
1105	1.3	40	1052	0.9	27	1217	1.2	37	1240	0.6	18
1650	3.3	101	1653	3.7	113	1810	2.9	88	1906	3.0	91
2329	0.7	21	2315	0.4	12	2349	1.4	43	2359	1.8	55
10 Su 0559	3.2	98	25 M 0530	3.7	113	10 W 0607	3.2	98	10 Th 0016	1.6	49
1159	1.4	43	1150	0.8	24	1326	1.2	37	0619	3.7	113
1739	3.0	91	1754	3.3	101	1926	2.6	79	1404	0.6	18
			2358	0.8	24	2107	2.5	76	2042	2.8	85
11 M 0002	1.1	34	26 Tu 0613	3.7	113	11 Th 0036	1.7	52	11 F 0121	1.9	58
0638	3.1	94	1259	0.8	24	0657	3.1	94	0730	3.5	107
1305	1.4	43	1911	3.0	91	1453	1.2	37	1536	0.6	18
1845	2.6	79	○			2107	2.5	76	2216	2.8	85
12 Tu 0042	1.4	43	27 W 0049	1.2	37	12 F 0143	1.9	58	10 Sa 0106	2.0	61
0727	3.0	91	0705	3.6	110	0816	3.0	91	0701	3.0	91
1427	1.3	40	1423	0.7	21	1615	1.0	30	1519	1.1	34
2018	2.4	73	2048	2.8	85	2240	2.7	82	2155	2.8	85
13 W 0135	1.6	49	28 Th 0152	1.6	49	13 Sa 0310	2.0	61	11 M 0239	2.1	64
0831	3.0	91	0810	3.6	110	0948	3.1	94	0853	3.1	94
1551	1.1	34	1550	0.5	15	1717	0.7	21	1631	0.8	24
2201	2.4	73	2224	2.8	85	2342	2.9	88	2303	3.0	91
14 Th 0244	1.8	55	29 F 0306	1.8	55	14 Su 0431	2.0	61	10 F 0246	2.0	61
0940	3.1	94	0927	3.7	113	1055	3.3	101	0907	3.5	107
1700	0.9	27	1705	0.2	6	1806	0.4	12	1654	0.4	12
2318	2.6	79	2338	3.0	91	2240	2.7	82	2325	3.0	91
15 F 0358	1.9	58	30 Sa 0423	1.8	55	1717	0.7	21	2351	3.2	98
1039	3.2	98	1040	3.8	116	2342	2.9	88	1816	0.6	18
1752	0.6	18	1807	-0.1	-3	2388	3.0	91	1922	0.2	6
31 Su 0035	3.2	98	31 W 0530	1.8	55	1441	3.8	116	1926	0.2	6
			1142	3.9	119	1842	0.2	6	1849	0.2	6
			1858	-0.2	-6	1846	0.2	6	1849	0.2	6

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

St. Marks River Entrance, Florida, 2016

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	0152	3.7 113		16 Su	0126 4.0 122		1 Tu	0203 3.6 110	16 W	0206 4.0 122	1 Th	0205 3.4 104
	0803	0.4 12		0755 -0.3 -9	0850 -0.1 -3		0850 -0.1 -3	0915 -0.9 -27	0906 -0.4 -12	0906 -0.4 -12	0948 -0.9 -27	
	1415	3.8 116		1421 4.1 125	1508 3.5 107		1508 3.5 107	1550 3.5 107	1531 3.2 98	1607 3.2 98	1620 3.1 94	
	2015	0.9 27		2008 0.8 24	2037 1.2 37		2037 1.2 37	2103 1.3 40	2051 1.1 34	2103 1.3 40	2134 1.0 30	
2 Su	0217	3.8 116		17 M	0158 4.1 125		2 W	0228 3.6 110	17 Th	0245 3.9 119	2 F	0235 3.4 104
	0837	0.3 9		0839 -0.4 -12	0922 0.0 0		0922 0.0 0	1002 -0.7 -21	0938 -0.4 -12	1002 -0.7 -21	1030 -0.5 -15	
	1448	3.8 116		1508 4.0 122	1544 3.4 104		1544 3.4 104	1638 3.3 101	1607 3.2 98	1701 2.9 88	1620 3.1 94	
	2040	1.0 30		2044 1.1 34	2109 1.2 37		2109 1.2 37	2145 1.4 43	2128 1.1 34	2221 1.0 30		
3 M	0240	3.8 116		18 Tu	0231 4.1 125		3 Th	0255 3.5 107	18 F	0326 3.7 113	3 Sa	0309 3.3 101
	0910	0.3 9		0925 -0.5 -19	0956 0.1 3		0956 0.1 3	1051 -0.3 -9	1013 -0.3 -9	1051 -0.3 -9	1111 -0.1 -3	
	1522	3.7 113		1557 3.8 116	1622 3.3 101		1622 3.3 101	1728 3.0 91	1646 3.1 94	1742 2.7 82	1701 2.9 88	
	2106	1.1 34		2121 1.3 40	2144 1.3 40		2144 1.3 40	2232 1.5 46	2211 1.2 37	2314 1.0 30		
4 Tu	0304	3.7 113		19 W	0306 4.1 125		4 F	0326 3.5 107	19 Sa	0411 3.4 104	4 Su	0348 3.2 98
	0944	0.4 12		1013 -0.3 -9	1034 0.2 6		1034 0.2 6	1143 0.1 3	1053 -0.2 -6	1143 0.1 3	1152 0.3 9	
	1558	3.6 110		1647 3.5 107	1706 3.2 98		1706 3.2 98	1823 2.8 85	1730 3.1 94	1827 2.6 79	1827 2.6 79	
	2135	1.2 37		2200 1.5 46	2225 1.5 46		2225 1.5 46	2329 1.6 49	2301 1.2 37			
5 W	0328	3.6 110		20 Th	0343 3.9 119		5 Sa	0402 3.3 101	20 Su	0506 3.0 91	5 M	0437 3.0 91
	1019	0.5 15		1106 -0.1 -3	1119 0.3 9		1119 0.3 9	1243 0.5 15	1243 0.5 15	1243 0.5 15	0019 1.0 30	
	1637	3.4 104		1743 3.2 98	1758 3.1 94		1758 3.1 94	1926 2.7 82	1926 2.7 82	1926 2.7 82	0558 2.4 73	
	2207	1.4 43		2243 1.7 52	2316 1.6 49		2316 1.6 49		1140 0.0 0	1819 3.0 91	1238 0.7 21	1918 2.5 76
6 Th	0355	3.5 107		21 F	0426 3.7 113		6 Su	0448 3.1 94	21 M	0046 1.6 49	6 Tu	0003 1.2 37
	1059	0.6 18		1207 0.3 9	1215 0.5 15		1215 0.5 15	0625 2.6 79	0625 2.6 79	0540 2.8 85	0733 2.1 64	
	1724	3.2 98		1850 2.9 88	1901 3.0 91		1901 3.0 91	1351 0.8 24	1351 0.8 24	1236 0.2 6	1334 1.1 34	
	2245	1.6 49		2339 1.9 58				2033 2.7 82	2033 2.7 82	1915 2.9 88	2018 2.5 76	
7 F	0428	3.4 104		22 Sa	0519 3.3 101		7 M	0024 1.7 52	22 Tu	0220 1.4 43	7 W	0119 1.1 34
	1150	0.8 24		1321 0.6 18	0554 2.9 88		0554 2.9 88	0827 2.4 73	0827 2.4 73	0708 2.6 79	0927 2.0 61	
	1823	3.0 91		2009 2.8 85	1324 0.6 18		1324 0.6 18	1502 1.1 34	1341 0.5 15	1442 1.3 40	1442 1.3 40	
	2334	1.8 55		○	2012 3.0 91		○	2133 2.8 85	2014 3.0 91	2120 2.6 79	2120 2.6 79	
8 Sa	0511	3.2 98		23 Su	0058 1.9 58		8 Tu	0149 1.6 49	23 W	0346 1.1 34	8 F	0241 0.8 24
	1258	0.9 27		0644 3.0 91	0733 2.8 85		0733 2.8 85	1009 2.5 76	0852 2.6 79	1449 0.7 21	1049 2.2 67	
	1941	2.9 88		1445 0.8 24	1437 0.6 18		1437 0.6 18	1605 1.2 37	2223 2.9 88	2113 3.1 94	1551 1.4 43	
	○			2127 2.8 85	2117 3.1 94		2117 3.1 94			2215 2.7 82		
9 Su	0043	2.0 61		24 M	0240 1.8 55		9 W	0314 1.3 40	24 Th	0448 0.7 21	9 F	0355 0.3 9
	0617	3.0 91		0856 2.9 88	0919 2.9 88		0919 2.9 88	1113 2.7 82	1113 2.7 82	1020 2.8 85	1144 2.4 73	
	1420	0.9 27		1600 0.9 27	1543 0.7 21		1543 0.7 21	1655 1.2 37	1555 0.8 24	1649 1.4 43	1649 1.4 43	
	2106	2.9 88		2225 3.0 91	2211 3.2 98		2211 3.2 98	2303 3.1 94	2206 3.2 98	2301 2.8 85		
10 M	0215	2.0 61		25 Tu	0408 1.5 46		10 Th	0422 0.9 27	25 F	0536 0.3 9	10 Sa	0458 -0.2 -6
	0806	3.0 91		1030 3.0 91	1038 3.2 98		1038 3.2 98	1641 0.7 21	1200 2.8 85	1200 2.8 85	1226 2.5 76	
	1535	0.8 24		1658 1.0 30	1641 0.7 21		1641 0.7 21	1735 1.2 37	1655 0.9 27	1735 1.3 40	1735 1.3 40	
	2214	3.1 94		2309 3.1 94	2256 3.4 104		2256 3.4 104	2339 3.2 98	2255 3.4 104	2341 2.9 88		
11 Tu	0343	1.8 55		26 W	0509 1.1 34		11 F	0518 0.4 12	26 Sa	0617 0.0 0	11 M	0554 -0.7 -21
	0949	3.1 94		1129 3.2 98	1141 3.4 104		1141 3.4 104	1732 0.7 21	1228 3.2 98	1228 3.2 98	0638 -0.4 -12	
	1637	0.6 18		1741 1.0 30	1732 0.7 21		1732 0.7 21	1809 1.2 37	1748 1.0 30	1748 1.0 30	1303 2.7 82	
	2304	3.3 101		2345 3.3 101	2336 3.6 110		2336 3.6 110		2342 3.6 110	2342 3.6 110	1816 1.2 37	
12 W	0448	1.4 43		27 Th	0555 0.7 21		12 Sa	0609 -0.1 -3	27 M	0011 3.3 101	12 Tu	0645 -1.0 -30
	1059	3.4 104		1214 3.3 101	1236 3.7 113		1236 3.7 113	0654 -0.2 -6	1315 3.1 94	1315 3.1 94	0714 -0.5 -15	
	1727	0.5 15		1816 1.0 30	1818 0.8 27		1818 0.8 27	1841 1.2 37	1837 1.1 34	1337 2.9 88	1852 1.1 34	
	2344	3.5 107										
13 Th	0540	0.9 27		28 F	0017 3.5 107		13 Su	0014 3.8 116	28 M	0040 3.4 104	13 Tu	0026 3.7 113
	1155	3.7 113		0634 0.4 12	0656 -0.6 -18		0656 -0.6 -18	0729 -0.3 -9	1349 3.2 98	1349 3.2 98	0748 -0.6 -18	
	1811	0.5 15		1252 3.4 104	1327 3.8 116		1327 3.8 116	1901 0.9 27	1912 1.2 37	1923 1.1 34	1410 3.0 91	
	○			1846 1.1 34							1928 1.0 30	
14 F	0020	3.7 113		29 Sa	0046 3.6 110		14 M	0051 3.9 119	29 Tu	0109 3.4 104	14 W	0110 3.8 116
	0626	0.5 15		0711 0.2 6	0743 -0.8 -24		0743 -0.8 -24	0802 -0.4 -12	1422 3.2 98	1422 3.2 98	0820 -0.7 -21	
	1246	4.0 122		1327 3.5 107	1416 3.8 116		1416 3.8 116	1843 1.1 34	1943 1.1 34	1443 3.1 94		
	1852	0.5 15		1913 1.1 34	○		○			2007 1.1 34	2003 0.9 27	
15 Sa	0053	3.9 119		30 Su	0113 3.6 110		15 Tu	0128 4.0 122	30 W	0136 3.4 104	15 Th	0153 3.8 116
	0711	0.1 3		0745 0.0 0	0829 -0.9 -27		0829 -0.9 -27	0834 -0.4 -12	1503 3.7 113	1456 3.2 98	0850 -0.7 -21	
	1334	4.1 125		1401 3.5 107	1503 3.7 113		1503 3.7 113	2022 1.2 37	2016 1.1 34	1538 3.2 98	1515 3.1 94	
	○	1.931 0.7 21		● 1940 1.1 34						2050 1.1 34	2039 0.8 24	
31 Sa	0139	3.7 113		31 M	0139 3.7 113						31 Sa	0225 3.3 101
	0818	0.0 0		0818 0.0 0							0921 0.7 21	0921 0.7 21
	1434	3.5 107		1434 3.5 107							1548 3.1 94	1548 3.1 94
	2008	1.1 34		2008 1.1 34							2117 0.8 24	2117 0.8 24

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.

Heights are referred to mean lower low water which is the chart datum of soundings.

Apalachicola, Florida, 2016

Times and Heights of High and Low Waters

January				February				March			
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height
h m	ft	cm		h m	ft	cm		h m	ft	cm	
1 F	0305	0.4	12	16 Sa	0259	0.2	6	1 M	0431	0.0	0
0758	0.8	24		0832	0.8	24		1050	0.7	21	
1412	0.2	6		1415	0.3	9		1426	0.6	18	
2057	1.2	37		2042	1.2	37		2058	1.2	37	
2 Sa	0420	0.3	9	17 Su	0428	0.1	3	2 Tu	0545	-0.1	-3
0929	0.7	21		1025	0.7	21		1255	0.8	24	
1450	0.4	12		1459	0.5	15		1531	0.7	21	
2130	1.2	37		2120	1.2	37		2144	1.2	37	
3 Su	0531	0.1	3	18 M	0550	-0.1	-3	3 Th	0647	-0.2	-6
1122	0.7	21		1255	0.7	21		1422	0.9	27	
1539	0.5	15		1559	0.6	18		1715	0.8	24	
2206	1.2	37		2204	1.3	40		2238	1.2	37	
4 M	0632	-0.1	-3	19 Tu	0700	-0.3	-9	4 Th	0740	-0.3	-9
1318	0.8	24		1449	0.9	27		1510	1.0	30	
1645	0.7	21		1730	0.8	24		1843	0.9	27	
2245	1.3	40		2256	1.3	40		2336	1.3	40	
5 Tu	0724	-0.2	-6	20 W	0758	-0.5	-15	5 F	0826	-0.4	-12
1441	0.9	27		1543	1.0	30		1546	1.1	34	
1800	0.8	24		1855	0.9	27		1946	0.9	27	
2326	1.3	40		2353	1.3	40		2050	0.7	21	
6 W	0810	-0.4	-12	21 Th	0849	-0.6	-18	6 Sa	0036	1.3	40
1534	1.0	30		1620	1.0	30		0907	-0.5	-15	
1907	0.9	27		2002	0.9	27		1616	1.1	34	
7 Th	0009	1.3	40	22 F	0051	1.3	40	7 Su	0133	1.4	43
0851	-0.5	-15		0933	-0.6	-18		0945	-0.5	-15	
1615	1.1	34		1650	1.1	34		1643	1.1	34	
2003	0.9	27		2054	0.8	24		2118	0.7	21	
8 F	0053	1.3	40	23 Sa	0145	1.3	40	8 M	0228	1.4	43
0929	-0.6	-18		1013	-0.6	-18		1021	-0.5	-15	
1651	1.1	34		1716	1.1	34		1707	1.1	34	
2050	0.9	27		2139	0.7	21		2159	0.6	18	
9 Sa	0139	1.4	43	24 Su	0236	1.3	40	9 Tu	0321	1.4	43
1005	-0.6	-18		1047	-0.5	-15		1055	-0.4	-12	
1723	1.1	34		1737	1.1	34		1729	1.1	34	
2131	0.9	27		2220	0.7	21		2241	0.5	15	
10 Su	0226	1.4	43	25 M	0323	1.3	40	10 W	0416	1.4	43
1039	-0.6	-18		1116	-0.4	-12		1128	-0.3	-9	
1752	1.1	34		1755	1.1	34		1751	1.1	34	
2212	0.8	24		2259	0.6	18		2326	0.4	12	
11 M	0314	1.4	43	26 Tu	0409	1.2	37	11 Th	0512	1.3	40
1113	-0.6	-18		1141	-0.3	-9		1201	-0.1	-3	
1819	1.1	34		1813	1.1	34		1813	1.2	37	
2253	0.7	21		2339	0.5	15					
12 Tu	0404	1.4	43	27 W	0455	1.1	34	12 F	0018	0.2	6
1148	-0.5	-15		1204	-0.2	-6		0614	1.2	37	
1846	1.1	34		1831	1.1	34		1233	0.1	3	
2340	0.6	18						1839	1.2	37	
13 W	0458	1.3	40	28 Th	0022	0.4	12	13 Sa	0118	0.1	3
1223	-0.4	-12		0544	1.0	30		0724	1.0	30	
1912	1.1	34		1225	0.0	0		1305	0.3	9	
				1852	1.1	34		1908	1.3	40	
14 Th	0034	0.5	15	29 F	0110	0.3	9	14 Su	0232	0.0	0
0557	1.2	37		0639	0.9	27		0851	0.9	27	
1258	-0.2	-6		1248	0.1	3		1338	0.5	15	
1940	1.1	34		1917	1.2	37		1943	1.3	40	
15 F	0140	0.4	12	30 Sa	0206	0.2	6	15 M	0400	-0.1	-3
0706	1.0	30		0744	0.8	24		1051	0.8	24	
1336	0.0	0		1315	0.3	9		1416	0.7	21	
2009	1.2	37		1945	1.2	37		2026	1.3	40	
				31 Su	0314	0.1	3				
				0905	0.7	21					
				1346	0.4	12					
				2019	1.2	37					

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
 Heights are referred to mean lower low water which is the chart datum of soundings.

Apalachicola, Florida, 2016

Times and Heights of High and Low Waters

April						May						June					
	Time	Height		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		h m	ft cm
1 <i>F</i>	0453	0.1 3	16	0624	0.3 9	1	0502	0.2 6	16	0608	0.6 18	1	0046	1.2 37	16	0236	1.2 37
	1225	1.3 40	<i>Sa</i>	1259	1.3 40	<i>Su</i>	1202	1.4 43	<i>M</i>	1210	1.4 43	<i>W</i>	0606	0.8 24	<i>Th</i>	0627	1.0 30
	1702	1.1 34		1847	0.8 24		1806	0.8 24		1917	0.4 12		1200	1.6 49		1157	1.6 49
	2131	1.3 40		2358	1.2 37		2255	1.2 37					1944	0.1 3		2022	0.0 0
2 <i>Sa</i>	0605	0.1 3	17	0715	0.3 9	2	0607	0.3 9	17	0121	1.1 34	2	0220	1.3 40	17	0337	1.3 40
	1312	1.3 40	<i>Su</i>	1328	1.3 40	<i>M</i>	1236	1.4 43	<i>Tu</i>	0654	0.7 21	<i>Th</i>	0704	0.9 27	<i>F</i>	0719	1.1 34
	1820	0.9 27		1939	0.6 18		1903	0.6 18		1236	1.5 46		1233	1.6 49		1230	1.6 49
	2301	1.3 40								2002	0.2 6		2035	-0.1 -3		2103	-0.1 -3
3 <i>Su</i>	0704	0.1 3	18	0123	1.2 37	3	0030	1.3 40	18	0232	1.2 37	3	0336	1.4 43	18	0424	1.4 43
	1347	1.3 40	<i>M</i>	0758	0.4 12	<i>Tu</i>	0704	0.5 15	<i>W</i>	0736	0.8 24	<i>F</i>	0758	1.1 34	<i>Sa</i>	0807	1.2 37
	1918	0.8 24		1352	1.4 43		1305	1.5 46		1300	1.5 46		1308	1.7 52		1304	1.7 52
				2023	0.4 12		1953	0.4 12		2044	0.1 3		2123	-0.3 -9		2139	-0.2 -6
4 <i>M</i>	0026	1.4 43	19	0226	1.3 40	4	0154	1.4 43	19	0329	1.3 40	4	0440	1.4 43	19	0503	1.4 43
	0754	0.1 3	<i>Tu</i>	0835	0.6 18	<i>W</i>	0755	0.6 18	<i>Th</i>	0813	1.0 30	<i>Sa</i>	0847	1.2 37	<i>Su</i>	0850	1.2 37
	1415	1.3 40		1411	1.4 43		1332	1.5 46		1324	1.6 49		1346	1.7 52		1341	1.7 52
	2006	0.6 18		2102	0.3 9		2040	0.1 3		2121	0.0 0		● 2209	-0.4 -12		2213	-0.2 -6
5 <i>Tu</i>	0141	1.4 43	20	0317	1.3 40	5	0307	1.4 43	20	0418	1.3 40	5	0534	1.5 46	20	0538	1.5 46
	0839	0.2 6	<i>W</i>	0905	0.7 21	<i>Th</i>	0840	0.8 24	<i>F</i>	0847	1.0 30	<i>Su</i>	0933	1.2 37	<i>M</i>	0930	1.3 40
	1440	1.4 43		1428	1.4 43		1400	1.6 49		1348	1.6 49		1426	1.8 55		1419	1.7 52
	2050	0.4 12		2138	0.2 6		2126	-0.1 -3		2155	-0.1 -3		2254	-0.4 -12		2244	-0.2 -6
6 <i>W</i>	0248	1.5 46	21	0403	1.3 40	6	0412	1.5 46	21	0501	1.4 43	6	0621	1.5 46	21	0611	1.5 46
	0920	0.3 9	<i>Th</i>	0932	0.8 24	<i>F</i>	0922	0.9 27	<i>Sa</i>	0919	1.1 34	<i>M</i>	1019	1.3 40	<i>Tu</i>	1010	1.3 40
	1502	1.4 43		1446	1.5 46		1428	1.6 49		1415	1.6 49		1510	1.8 55		1459	1.7 52
	2133	0.2 6		2210	0.1 3		● 2212	-0.2 -6		○ 2227	-0.1 -3		2338	-0.3 -9		2314	-0.2 -6
7 <i>Th</i>	0350	1.5 46	22	0445	1.4 43	7	0513	1.5 46	22	0541	1.4 43	7	0703	1.5 46	22	0641	1.5 46
	0957	0.5 15	<i>F</i>	0955	0.9 27	<i>Sa</i>	1001	1.1 34	<i>Su</i>	0950	1.2 37	<i>Tu</i>	1107	1.2 37	<i>W</i>	1051	1.2 37
	1525	1.4 43		1505	1.5 46		1500	1.7 52		1444	1.6 49		1556	1.7 52		1543	1.7 52
	● 2217	0.0 0	<i>O</i>	2240	0.0 0		2258	-0.3 -9		2256	-0.2 -6					2345	-0.2 -6
8 <i>F</i>	0450	1.5 46	23	0527	1.4 43	8	0611	1.5 46	23	0619	1.4 43	8	0021	-0.2 -6	23	0711	1.5 46
	1033	0.7 21	<i>Sa</i>	1018	0.9 27	<i>Su</i>	1040	1.1 34	<i>M</i>	1024	1.2 37	<i>W</i>	0740	1.5 46	<i>Th</i>	1136	1.2 37
	1550	1.5 46		1528	1.6 49		1536	1.7 52		1518	1.7 52		1200	1.2 37		1631	1.6 49
	2303	-0.1 -3		2308	0.0 0		2346	-0.3 -9		2325	-0.2 -6		1646	1.6 49			
9 <i>Sa</i>	0551	1.5 46	24	0609	1.4 43	9	0708	1.5 46	24	0658	1.4 43	9	0102	-0.1 -3	24	0019	-0.1 -3
	1107	0.8 24	<i>Su</i>	1045	1.0 30	<i>M</i>	1122	1.2 37	<i>Tu</i>	1102	1.2 37	<i>F</i>	0815	1.4 43	<i>F</i>	0741	1.5 46
	1619	1.6 49		1555	1.6 49		1615	1.7 52		1556	1.6 49		1301	1.1 34		1229	1.1 34
	2353	-0.2 -6		2336	0.0 0					2356	-0.2 -6		1740	1.5 46		1724	1.6 49
10 <i>Su</i>	0654	1.4 43	25	0654	1.4 43	10	0035	-0.2 -6	25	0737	1.5 46	10	0143	0.1 3	25	0055	0.0 0
	1142	1.0 30	<i>M</i>	1117	1.1 34	<i>Tu</i>	0802	1.4 43	<i>W</i>	1147	1.2 37	<i>Sa</i>	0848	1.4 43	<i>Su</i>	0811	1.5 46
	1652	1.6 49		1627	1.6 49		1211	1.2 37		1638	1.6 49		1412	1.0 30		1332	1.0 30
							1700	1.6 49					1843	1.3 40		1826	1.4 43
11 <i>M</i>	0047	-0.2 -6	26	0008	0.0 0	11	0128	-0.1 -3	26	0032	-0.1 -3	11	0224	0.2 6	26	0135	0.1 3
	0801	1.3 40	<i>Tu</i>	0743	1.4 43	<i>W</i>	0855	1.4 43	<i>Th</i>	0818	1.5 46	<i>Sa</i>	0919	1.4 43	<i>Su</i>	0842	1.5 46
	1221	1.1 34		1156	1.1 34		1314	1.2 37		1242	1.2 37		1530	0.9 27		1448	0.9 27
	1730	1.6 49		1704	1.6 49		1752	1.5 46		1726	1.5 46		1958	1.2 37		1941	1.3 40
12 <i>Tu</i>	0149	-0.1 -3	27	0047	0.0 0	12	0223	0.0 0	27	0115	-0.1 -3	12	0306	0.4 12	27	0219	0.4 12
	0914	1.3 40	<i>W</i>	0838	1.4 43	<i>Th</i>	0944	1.4 43	<i>F</i>	0859	1.5 46	<i>Su</i>	0951	1.5 46	<i>M</i>	0915	1.5 46
	1313	1.1 34		1246	1.1 34		1434	1.1 34		1350	1.1 34		1645	0.7 21		1611	0.7 21
	1816	1.5 46		1746	1.5 46		1855	1.4 43		1824	1.4 43		● 2132	1.1 34		● 2117	1.1 34
13 <i>W</i>	0259	0.0 0	28	0136	0.0 0	13	0321	0.2 6	28	0204	0.1 3	13	0351	0.6 18	28	0307	0.6 18
	1030	1.3 40	<i>Th</i>	0935	1.4 43	<i>F</i>	1028	1.4 43	<i>Sa</i>	1602	1.0 30	<i>M</i>	1022	1.5 46	<i>Tu</i>	0949	1.6 49
	1431	1.1 34		1354	1.2 37		1602	1.0 30		1512	1.0 30		1751	0.5 15		1730	0.5 15
	● 1913	1.4 43		1839	1.5 46		● 2015	1.2 37		1937	1.3 40		2323	1.0 30		2314	1.1 34
14 <i>Th</i>	0414	0.1 3	29	0238	0.1 3	14	0420	0.3 9	29	0300	0.2 6	14	0440	0.8 24	29	0402	0.8 24
	1135	1.3 40	<i>F</i>	1031	1.4 43	<i>Sa</i>	1106	1.4 43	<i>Su</i>	1720	0.8 24	<i>M</i>	1018	1.5 46	<i>W</i>	1025	1.6 49
	1612	1.1 34		1523	1.1 34		1720	0.8 24		2156	1.1 34		● 2110	1.2 37			
	2030	1.3 40		● 1947	1.4 43												
15 <i>F</i>	0524	0.2 6	30	0350	0.2 6	15	0516	0.5 15	30	0401	0.4 12	15	0113	1.1 34	30	0120	1.1 34
	1223	1.3 40	<i>Sa</i>	1121	1.4 43	<i>Su</i>	1140	1.4 43	<i>M</i>	1053	1.5 46	<i>W</i>	0533	0.9 27	<i>Th</i>	0507	1.0 30
	1741	0.9 27		1654	1.0 30		1824	0.6 18		1749	0.6 18		1125	1.6 49		1105	1.7 52
	2212	1.2 37		2115	1.3 40		2347	1.1 34		2258	1.1 34		1938	0.1 3		1938	0.0 0
													31	0504	0.6 18		
													<i>Tu</i>	1127	1.5 46		
													<i>1850</i>	0.4 12			

Apalachicola, Florida, 2016

Times and Heights of High and Low Waters

July				August				September			
Time	Height	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 F 0300	1.3	40	16 Sa 0326	1.3	40	1 M 0431	1.5	46	16 Tu 0353	1.6	49
0618	1.2	37	0639	1.2	37	0821	1.3	40	0946	1.0	30
1149	1.7	52	1150	1.7	52	1325	1.8	55	1522	1.8	55
2031	-0.2	-6	2040	0.0	0	2154	-0.1	-3	2234	0.5	15
2 Sa 0405	1.4	43	17 Su 0406	1.4	43	2 Tu 0458	1.5	46	2 W 0419	1.6	49
0726	1.3	40	0741	1.3	40	0912	1.2	37	1023	0.9	27
1235	1.8	55	1237	1.7	52	1419	1.8	55	1411	1.9	58
2120	-0.3	-9	2119	-0.1	-3	● 2232	0.0	0	2202	0.1	3
3 Su 0453	1.5	46	18 M 0440	1.5	46	3 W 0520	1.5	46	3 Th 0442	1.6	49
0825	1.3	40	0831	1.3	40	0956	1.1	34	1059	0.8	24
1324	1.8	55	1323	1.8	55	1509	1.8	55	1651	1.7	52
2205	-0.3	-9	2154	-0.2	-6	2304	0.1	3	2316	0.7	21
4 M 0532	1.5	46	19 Tu 0510	1.5	46	4 Th 0539	1.5	46	4 F 0503	1.6	49
0917	1.3	40	0915	1.3	40	1039	1.0	30	1019	1.0	30
1413	1.8	55	1410	1.8	55	1557	1.7	52	1556	1.9	58
● 2247	-0.3	-9	○ 2227	-0.2	-6	2331	0.2	6	2305	0.3	9
5 Tu 0604	1.5	46	20 W 0536	1.5	46	5 F 0556	1.5	46	5 Sa 0524	1.6	49
1006	1.2	37	0955	1.2	37	1121	1.0	30	1101	0.9	27
1503	1.8	55	1457	1.8	55	1645	1.7	52	1651	1.8	55
2325	-0.2	-6	2258	-0.1	-3	2355	0.4	12	2336	0.4	12
6 W 0632	1.5	46	21 Th 0601	1.5	46	6 Sa 0614	1.6	49	21 Su 0546	1.7	52
1053	1.2	37	1036	1.2	37	1204	0.9	27	1149	0.7	52
1552	1.7	52	1546	1.8	55	1734	1.6	49	1750	1.7	52
2329	-0.1	-3	2329	-0.1	-3						
7 Th 0000	-0.1	-3	22 F 0624	1.5	46	7 Su 0016	0.5	15	22 M 0007	0.6	18
0656	1.5	46	1119	1.1	34	0633	1.6	49	0610	1.7	52
1143	1.1	34	1637	1.7	52	1252	0.8	18	1245	0.6	18
1642	1.6	49				1828	1.5	46	1856	1.6	49
8 F 0031	0.1	3	23 Sa 0000	0.1	3	8 M 0039	0.7	21	23 Tu 0039	0.8	24
0720	1.5	46	0648	1.6	49	0657	1.7	52	0640	1.8	55
1236	1.0	30	1209	1.0	30	1347	0.7	21	1354	0.5	15
1735	1.5	46	1734	1.6	49	1932	1.4	43	2017	1.4	43
9 Sa 0100	0.2	6	24 Su 0033	0.2	6	9 Tu 0105	0.8	24	24 W 0113	1.0	30
0743	1.5	46	0713	1.6	49	0725	1.7	52	0714	1.8	55
1335	0.9	27	1308	0.8	24	1453	0.6	18	1518	0.5	15
1834	1.4	43	1838	1.5	46	2049	1.3	40	● 2202	1.4	43
10 Su 0128	0.4	12	25 M 0107	0.4	12	10 W 0136	1.0	30	25 Th 0151	1.2	37
0808	1.5	46	0741	1.6	49	0758	1.7	52	0757	1.8	55
1443	0.8	24	1419	0.7	21	1609	0.6	18	1649	0.4	12
1943	1.2	37	1956	1.3	40	● 2228	1.2	37			
11 M 0158	0.6	18	26 Tu 0143	0.7	21	11 Th 0217	1.1	34	26 F 0021	1.4	43
0836	1.6	49	0812	1.7	52	0838	1.7	52	0249	1.3	40
1556	0.6	18	1544	0.6	18	1724	0.5	15	0852	1.8	55
● 2108	1.1	34	○ 2135	1.2	37				1809	0.3	9
12 Tu 0231	0.7	21	27 W 0222	0.9	27	12 F 0024	1.3	40	27 Sa 0200	1.5	46
0908	1.6	49	0849	1.7	52	0320	1.2	37	0441	1.4	43
1707	0.5	15	1711	0.4	12	0926	1.7	52	1001	1.8	55
2255	1.1	34	2348	1.2	37	1829	0.3	9	1914	0.2	6
13 W 0312	0.9	27	28 Th 0308	1.1	34	13 Sa 0154	1.4	43	28 Su 0243	1.5	46
0943	1.6	49	0933	1.8	55	0456	1.3	40	0619	1.4	43
1812	0.3	9	1826	0.2	6	1021	1.7	52	1120	1.8	55
						1923	0.2	6	2008	0.2	6
14 Th 0056	1.1	34	29 F 0208	1.3	40	14 Su 0245	1.5	46	29 M 0315	1.6	49
0409	1.0	30	0424	1.2	37	0622	1.4	43	0729	1.3	40
1022	1.7	52	1025	1.8	55	1121	1.8	55	1236	1.8	55
1908	0.2	6	1930	0.0	0	2010	0.1	3	2054	0.2	6
15 F 0230	1.2	37	30 Sa 0319	1.4	43	15 M 0322	1.6	49	30 Tu 0341	1.6	49
0525	1.1	34	0602	1.3	40	0727	1.3	40	0822	1.2	37
1105	1.7	52	1124	1.8	55	1221	1.8	55	1341	1.8	55
1957	0.1	3	2024	-0.1	-3	2051	0.1	3	2133	0.3	9
			31 Su 0359	1.5	46				31 W 0402	1.6	49
			0721	1.4	43				0907	1.1	34
			1225	1.8	55				1435	1.8	55
			2112	-0.1	-3				2206	0.4	12

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Apalachicola, Florida, 2016

Times and Heights of High and Low Waters

October				November				December			
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height
1 Sa 0326 1.7 52	16 Su 0255 1.7 52	1 Tu 0307 1.7 52	16 W 0312 1.7 52	1 Th 0303 1.5 46	16 F 0341 1.5 46						
1009 0.6 18	0953 0.3 9	1055 0.1 3	1121 -0.4 -12	1113 -0.3 -9	1200 -0.5 -15						
1620 1.7 52	1628 1.8 55	1758 1.5 46	1843 1.5 46	1838 1.3 40	1913 1.2 37						
2218 0.9 27	2205 1.0 30	2232 1.2 37	2256 1.2 37	2252 1.0 30	2334 0.9 27						
2 Su 0342 1.7 52	17 M 0321 1.8 55	2 W 0334 1.7 52	17 Th 0353 1.7 52	2 F 0341 1.5 46	17 Sa 0432 1.4 43						
1040 0.5 15	1037 0.1 3	1123 0.1 3	1211 -0.3 -9	1141 -0.3 -9	1242 -0.4 -12						
1702 1.7 52	1728 1.7 52	1840 1.5 46	1937 1.4 43	1913 1.3 40	1913 1.2 37						
2238 1.0 30	2240 1.1 34	2303 1.2 37	2343 1.2 37	2333 1.0 30							
3 M 0400 1.8 55	18 Tu 0350 1.8 55	3 Th 0406 1.7 52	18 F 0439 1.7 52	3 Sa 0422 1.4 43	18 Su 0031 0.8 24						
1110 0.4 12	1125 0.0 0	1152 0.1 3	1303 -0.2 -6	1212 -0.2 -6	0526 1.3 40						
1746 1.6 49	1830 1.7 52	1926 1.5 46	2028 1.4 43	1949 1.3 40	1323 -0.2 -6						
2259 1.1 34	2315 1.2 37	2342 1.2 37			2019 1.2 37						
4 Tu 0423 1.8 55	19 W 0424 1.9 58	4 F 0443 1.7 52	19 Sa 0043 1.1 34	4 Su 0022 1.0 30	19 M 0138 0.7 21						
1141 0.4 12	1218 0.0 0	1228 0.1 3	0531 1.5 46	0508 1.4 43	0627 1.1 34						
1834 1.6 49	1936 1.6 49	2015 1.5 46	1358 -0.1 -3	1249 -0.2 -6	1403 0.0 0						
2325 1.2 37	2355 1.3 40		2116 1.3 40	2027 1.3 40	2050 1.2 37						
5 W 0450 1.8 55	20 Th 0503 1.9 58	5 Sa 0032 1.2 37	20 Su 0159 1.1 34	5 M 0123 0.9 27	20 Tu 0254 0.6 18						
1215 0.4 12	1319 0.1 3	0525 1.6 49	0633 1.4 43	0602 1.3 40	0739 1.0 30						
1927 1.6 49	2047 1.5 46	1312 0.1 3	1456 0.1 3	1331 -0.1 -3	1443 0.2 6						
2359 1.2 37		2108 1.5 46	2200 1.3 40	2104 1.3 40	2121 1.2 37						
6 Th 0524 1.8 55	21 F 0045 1.4 43	6 Su 0138 1.2 37	21 M 0328 0.9 27	6 Tu 0238 0.8 24	21 W 0414 0.4 12						
1256 0.4 12	0550 1.8 55	0616 1.5 46	0752 1.2 37	0709 1.1 34	0911 0.8 24						
2029 1.5 46	1429 0.2 6	1408 0.2 6	1555 0.3 9	1421 0.0 0	1527 0.3 9						
	2200 1.5 46		2240 1.3 40	2142 1.3 40	2152 1.2 37						
7 F 0042 1.3 40	22 Sa 0200 1.3 40	7 M 0304 1.2 37	22 Tu 0452 0.8 24	7 W 0401 0.7 21	22 Th 0526 0.2 6						
0603 1.8 55	0647 1.7 52	0722 1.4 43	0933 1.1 34	0836 1.0 30	1106 0.8 24						
1351 0.4 12	1544 0.3 9	1515 0.3 9	1652 0.4 12	1518 0.2 6	1618 0.5 15						
2139 1.5 46	2305 1.5 46	2248 1.5 46	2314 1.3 40	2218 1.3 40	2226 1.2 37						
8 Sa 0143 1.4 43	23 Su 0340 1.3 40	8 Tu 0433 1.1 34	23 W 0601 0.5 15	8 Th 0518 0.5 15	23 M 0628 0.0 0						
0650 1.7 52	0804 1.5 46	0848 1.3 40	1129 1.0 30	1022 0.9 27	1306 0.8 24						
1505 0.5 15	1656 0.4 12	1625 0.3 9	1746 0.6 18	1621 0.4 12	1716 0.7 21						
2251 1.5 46	2355 1.5 46	2329 1.5 46	2345 1.4 43	2253 1.3 40	2300 1.2 37						
9 Su 0313 1.4 43	24 M 0513 1.1 34	9 W 0545 0.9 27	24 Th 0658 0.3 9	9 F 0622 0.2 6	24 M 0722 -0.2 -6						
0752 1.6 49	0947 1.4 43	1028 1.3 40	1310 1.1 34	1214 0.9 27	1432 0.9 27						
1627 0.5 15	1759 0.5 15	1731 0.4 12	1836 0.7 21	1727 0.6 18	1817 0.8 24						
2353 1.6 49				2328 1.4 43	2336 1.3 40						
10 M 0451 1.3 40	25 Tu 0032 1.5 46	10 Th 0004 1.5 46	25 F 0013 1.4 43	10 Sa 0718 0.0 0	25 Su 0808 -0.3 -9						
0912 1.6 49	0623 0.9 27	0642 0.7 21	0746 0.1 3	1353 1.0 30	1529 1.0 30						
1737 0.4 12	1138 1.4 43	1205 1.3 40	1425 1.1 34	1831 0.7 21	1914 0.8 24						
	1852 0.6 18	1830 0.5 15	1920 0.8 24								
11 Tu 0039 1.6 49	26 W 0102 1.5 46	11 F 0034 1.5 46	26 Sa 0039 1.4 43	11 Su 0004 1.4 43	26 M 0013 1.3 40						
0605 1.2 37	0717 0.7 21	0731 0.4 12	0828 0.0 0	0810 -0.3 -9	0850 -0.4 -12						
1042 1.6 49	1307 1.4 43	1330 1.4 43	1522 1.2 37	1512 1.1 34	1613 1.1 34						
1836 0.4 12	1937 0.7 21	1923 0.7 21	2000 0.9 27	1930 0.9 27	2005 0.9 27						
12 W 0115 1.6 49	27 Th 0127 1.5 46	12 Sa 0103 1.6 49	27 Su 0104 1.4 43	12 M 0042 1.5 46	27 Tu 0051 1.3 40						
0700 1.0 30	0804 0.5 15	0817 0.2 6	0907 -0.2 -6	0859 -0.5 -15	0928 -0.5 -15						
1207 1.6 49	1414 1.5 46	1444 1.4 43	1609 1.3 40	1615 1.2 37	1649 1.1 34						
1926 0.5 15	2015 0.8 24	2010 0.8 24	2037 1.0 30	2022 1.0 30	2049 0.9 27						
13 Th 0144 1.6 49	28 F 0147 1.6 49	13 Su 0131 1.6 49	28 M 0130 1.5 46	13 M 0123 1.5 46	28 W 0130 1.3 40						
0746 0.9 27	0845 0.4 12	0902 -0.1 -3	0943 -0.2 -6	0946 -0.6 -18	1003 -0.5 -15						
1321 1.7 52	1507 1.5 46	1549 1.5 46	1651 1.3 40	1708 1.3 40	1720 1.2 37						
2011 0.5 15	2048 0.9 27	2054 1.0 30	2110 1.0 30	2111 1.0 30	2129 0.9 27						
14 F 0209 1.7 52	29 Sa 0205 1.6 49	14 M 0202 1.7 52	29 W 0159 1.5 46	14 W 0206 1.6 49	29 Th 0210 1.3 40						
0829 0.6 18	0922 0.3 9	0947 -0.2 -6	1015 -0.3 -9	1032 -0.6 -18	1033 -0.5 -15						
1427 1.7 52	1554 1.5 46	1650 1.5 46	1728 1.3 40	1755 1.3 40	1749 1.2 37						
2052 0.7 21	2116 1.0 30	2134 1.1 34	2143 1.0 30	2157 1.0 30	2206 0.9 27						
15 Sa 0232 1.7 52	30 Su 0223 1.6 49	15 Tu 0235 1.7 52	30 W 0229 1.5 46	15 W 0252 1.6 49	30 F 0251 1.3 40						
0910 0.4 12	0955 0.2 6	1034 -0.3 -9	1045 -0.3 -9	1117 -0.6 -18	1101 -0.5 -15						
1528 1.8 55	1637 1.5 46	1748 1.5 46	1803 1.3 40	1836 1.2 37	1816 1.2 37						
2129 0.8 24	2141 1.1 34	2214 1.1 34	2216 1.1 34	2243 1.0 30	2242 0.8 24						
	31 M 0243 1.7 52										
	1026 0.1 3										
	1717 1.5 46										
	2206 1.1 34										

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Pensacola, Florida, 2016

Times and Heights of High and Low Waters

January					February					March							
Time	Height																
h m	ft	cm															
1 F 1023 1919	0.0 0.5	0 15	16 Sa 0921 1736	0.1 0.5	3 15	1 M 0416 1721	-0.2 0.8	-6 24	16 Tu 0359 1736	-0.4 1.1	-12 34	1 Tu 0231 1556	-0.1 0.9	-3 27	16 W 0327 1654	-0.3 1.2	-9 37
2 Sa 0924 1849	0.0 0.6	0 18	17 Su 0327 1748	-0.1 0.8	-3 24	2 Tu 0439 1801	-0.3 0.9	-9 27	17 W 0502 1841	-0.5 1.1	-15 34	2 W 0334 1656	-0.2 1.0	-6 30	17 Th 0426 1811	-0.3 1.1	-9 34
3 Su 0634 1848	0.0 0.8	0 24	18 M 0421 1820	-0.3 0.9	-9 27	3 W 0516 1849	-0.4 1.0	-12 30	18 Th 0556 1944	-0.5 1.1	-15 34	3 Th 0426 1802	-0.3 1.1	-9 34	18 F 0513 1925	-0.2 1.1	-6 34
4 M 0533 1904	-0.2 0.9	-6 27	19 Tu 0514 1904	-0.5 1.1	-15 34	4 Th 0557 1939	-0.5 1.1	-15 34	19 F 0641 2042	-0.5 1.1	-15 34	4 F 0513 1909	-0.4 1.1	-12 34	19 Sa 0546 2031	-0.1 1.0	-3 30
5 Tu 0548 1931	-0.3 1.0	-9 30	20 W 0607 1954	-0.6 1.2	-18 37	5 F 0639 2030	-0.6 1.1	-18 34	20 Sa 0718 2132	-0.4 1.0	-12 30	5 Sa 0555 2013	-0.4 1.2	-12 37	20 Su 0606 2131	0.0 0.9	0 27
6 W 0620 2005	-0.4 1.1	-12 34	21 Th 0658 2044	-0.7 1.2	-21 37	6 Sa 0719 2121	-0.6 1.2	-18 37	21 Su 0744 2217	-0.3 0.9	-9 27	6 Su 0633 2116	-0.4 1.1	-12 34	21 M 0611 2229	0.2 0.8	6 24
7 Th 0659 2045	-0.6 1.2	-18 37	22 F 0745 2132	-0.7 1.2	-21 37	7 Su 0757 2211	-0.6 1.2	-18 37	22 M 0758 2259	-0.2 0.8	-6 24	7 M 0707 2221	-0.3 1.0	-9 30	22 Tu 0601 1207	0.3 0.5	9 15
8 F 0740 2127	-0.6 1.2	-18 37	23 Sa 0825 2216	-0.7 1.1	-21 34	8 M 0832 2302	-0.6 1.1	-18 34	23 Tu 0801 2340	-0.1 0.7	-3 21	8 Tu 0734 2331	-0.1 0.9	-3 27	23 W 0538 1143	0.4 0.7	12 21
9 Sa 0822 2210	-0.7 1.3	-21 40	24 Su 0857 2255	-0.6 1.0	-18 30	9 Tu 0901 2356	-0.4 0.9	-12 27	24 W 0752 1439	0.0 0.3	0 6	9 W 0747 1304	0.1 0.3	3 6	24 Th 0048 0456	0.5 0.4	15 12
●																	
10 Su 0902 2254	-0.7 1.2	-21 37	25 M 0919 2329	-0.5 0.9	-15 27	10 W 0921 2329	-0.2 0.9	-6 27	25 Th 0024 0732	0.5 0.2	15 6	10 Th 0053 0733	0.7 0.3	21 9	25 F 1149 2035	0.9 0.1	27 3
11 M 0939 2338	-0.7 1.1	-21 34	26 Tu 0931 2359	-0.4 0.7	-12 21	11 Th 0056 0923	0.7 0.0	21 0	26 F 0119 0656	0.4 0.2	12 6	11 F 0254 0620	0.5 0.4	15 12	26 Sa 1207 2136	1.0 0.1	30 3
12 Tu 1011	-0.6	-18	27 W 0931	-0.2	-6	12 F 0212 0850	0.4 0.2	12 6	27 Sa 0247 0541	0.3 0.2	9 6	12 Sa 1257 2252	0.9 -0.1	27 -3	27 Su 1233 2246	1.1 0.0	34 0
13 W 0022 1035	1.0 -0.4	30 -12	28 Th 0024 0919	0.5 -0.1	15 -3	13 Sa 1510	0.6 0.1	18 3	28 Su 1430	0.8 0.1	24 3	13 Su 1340	1.1 0.1	34 3	28 M 1309	1.1 0.1	34 3
14 Th 0108 1045	0.8 -0.2	24 -6	29 F 0034 0852	0.4 0.0	12 0	14 Su 0056 1545	-0.1 0.8	-3 24	29 M 0109 1507	0.0 0.9	0 27	14 M 0038 1435	-0.2 1.2	-6 37	29 Tu 0006 1353	0.0 1.2	0 37
15 F 0156 1031	0.5 0.0	15 0	30 Sa 0758 1640	0.0 0.5	0 15	15 M 0244 1636	-0.3 1.0	-9 30	●			15 Tu 0212 1540	-0.3 1.2	-9 37	30 W 0123 1448	-0.1 1.2	-3 37
			31 Su 0543 1653	0.0 0.6	0 18							31 Th 0228 1552	-0.1 1.2	-3 37	●		

Time meridian 90° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
 Heights are referred to mean lower low water which is the chart datum of soundings.

Pensacola, Florida, 2016

Times and Heights of High and Low Waters

April						May						June					
	Time	Height		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
	0322	-0.2	-6	16	0349	0.1	3	1	0246	0.1	3	16	0122	0.4	12	1	0812
1 F	1707	1.2	37	Sa	1836	0.9	27	Su	1741	1.0	30	M	0924	0.9	27	W	1721
2 Sa	0407	-0.1	-3	17	0359	0.3	9	2 M	0309	0.2	6	17	0011	0.5	15	2 Th	0821
	1829	1.2	37	Su	2009	0.8	24	M	1124	0.7	21	Tu	0900	1.0	30	Th	1814
3 Su	0446	-0.1	-3	18	0351	0.4	12	3 Tu	0315	0.4	12	18	0857	1.2	37	3 F	0846
	1955	1.1	34	M	1048	0.7	21	M	0950	0.8	24	W	1834	0.2	6	Sa	1911
	1648	0.6	18	1648	0.6	18	Tu	1620	0.5	15					18 Sa	0854	
	2151	0.7	21	2151	0.7	21	231	0.7	21						1946	-0.1	
4 M	0517	0.1	3	19	0321	0.5	15	4 W	0241	0.6	18	19	0906	1.3	40	4 Sa	0923
	2124	1.0	30	Tu	1016	0.9	27	M	0921	1.0	30	Th	1904	0.1	3	2025	-0.2
	1252	0.4	12	1752	0.4	12	W	1733	0.2	6						2027	1.6
5 Tu	0536	0.3	9	20	1008	1.0	30	5 Th	0922	1.2	37	20	0924	1.4	43	5 Su	1005
	1136	0.5	15	W	1840	0.3	9	M	1838	0.0	0	F	1939	0.0	0	2107	-0.4
	1552	0.4	12													2106	-0.3
	2302	0.9	27													O	-9
6 W	0535	0.5	15	21	1013	1.1	34	6 F	0943	1.4	43	21	0948	1.5	46	6 M	1051
	1045	0.7	21	Th	1922	0.2	6	M	1942	-0.2	-6	Sa	2018	-0.1	-3	2203	-0.4
	1737	0.2	6													2144	-0.3
																49	-9
7 Th	0110	0.7	21	22	1027	1.2	37	7 Sa	1017	1.6	49	22	1017	1.5	46	7 Tu	1135
	0444	0.6	18	F	2004	0.1	3	M	2048	-0.3	-9	Su	2102	-0.1	-3	2252	-0.3
	1035	0.9	27													2219	-0.3
	1900	0.1	3													O	-9
8 F	1051	1.1	34	23	1047	1.3	40	8 Su	1059	1.7	52	23	1050	1.6	49	8 W	1217
	2018	-0.1	-3	Sa	2049	0.0	0	M	2156	-0.3	-9	M	2149	-0.2	-6	2351	-0.2
	1124	1.3	40													2251	-0.2
9 Sa	2138	-0.2	-6													1158	49
	1124	1.3	40													2316	-0.1
	2141	0.0	0													1236	43
10 Su	1206	1.4	43	24	1114	1.4	43	9 M	1145	1.7	52	24	1127	1.6	49	9 Th	1253
	2301	-0.2	-6	Su	2141	0.0	0	M	2303	-0.3	-9	F	2236	-0.2	-6	2356	0.0
	1124	1.4	43													2316	-0.1
	2141	0.0	0													O	-3
11 M	1256	1.5	46	25	1147	1.4	43	10 Tu	1233	1.6	49	25	1205	1.6	49	10 F	1316
	2240	-0.1	-3	M	2240	-0.1	-3	M	1320	-1.5	-6	W	2320	-0.2	-6	2332	0.1
	1256	1.5	46													1313	37
12 Tu	0024	-0.2	-6													1343	30
	1352	1.4	43													2332	9
	1452	1.4	43													O	9
13 W	0138	-0.2	-6	27	1310	1.4	43	12 Th	0054	-0.1	-3	27	0000	-0.2	-6	12 Su	0934
	1452	1.4	43	F	1359	-0.1	-3	M	1404	-1.3	-40	F	1327	-1.4	-43	2325	0.4
	1452	1.4	43													0811	24
	1452	1.4	43													O	12
14 Th	0237	-0.1	-3	28	0039	-0.1	-3	13 F	0129	0.0	0	28	0033	-0.1	-3	13 M	0813
	1558	1.2	37	Sa	1359	1.4	43	M	1438	1.2	37	Sa	1409	1.2	37	M	2204
	1558	1.2	37													0706	30
	1558	1.2	37													1630	12
																O	
15 F	0321	0.0	0	29	0129	-0.1	-3	14 Sa	0147	0.2	6	29	0058	0.1	3	14 Tu	0749
	1712	1.1	34	F	1455	1.3	40	M	1432	1.0	30	Su	1451	1.0	30	M	1827
	1712	1.1	34													0658	37
															W	1656	
																0716	36
																0716	43
																1743	-3

Time meridian 90° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Pensacola, Florida, 2016

Times and Heights of High and Low Waters

July						August						September											
	Time	Height		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		h m	ft cm						
1 F	0749 1836	1.6 -0.2	49 -6	16 Sa	0754 1859	1.5 -0.1	46 -3	1 M	0919 2013	1.7 -0.1	52 -3	16 Tu	0906 1939	1.7 0.1	52 3	1 Th	1058 1944	1.4 0.6	43 18	16 F	1114 1909	1.4 0.8	43 24
2 Sa	0831 1930	1.7 -0.3	52 -9	17 Su	0835 1937	1.6 -0.1	49 -3	2 Tu	1007 2047	1.7 0.0	52 0	17 W	0955 2010	1.7 0.1	52 3	2 F	1147 1929	1.2 0.7	37 21	17 Sa	0010 0511	0.9 0.8	27 24
3 Su	0918 2022	1.8 -0.4	55 -12	18 M	0916 2015	1.6 -0.2	49 -6	3 W	1050 2111	1.6 0.1	49 3	18 Th	1046 2036	1.6 0.2	49 6	3 Sa	0120 0606	0.9 0.8	27 24	18 Su	0659 1452	0.6 1.1	18 34
4 M	1005 2110	1.8 -0.3	55 -9	19 Tu	0958 2049	1.7 -0.2	52 -6	4 Th	1129 2122	1.4 0.3	43 9	19 F	1140 2054	1.5 0.4	46 12	4 Su	0103 0751	1.1 0.8	34 24	19 M	0835	0.5	15
●				○																			
5 Tu	1050 2150	1.7 -0.3	52 -9	20 W	1039 2121	1.7 -0.1	52 -3	5 F	1205 2119	1.3 0.4	40 12	20 Sa	1241 2054	1.3 0.6	40 18	5 M	0108 0924	1.2 0.7	37 21	20 Tu	0021 1014	1.5 0.4	46 12
6 W	1130 2221	1.6 -0.1	49 -3	21 Th	1121 2148	1.6 -0.1	49 -3	6 Sa	1237 2100	1.1 0.5	34 15	21 Su	0247 0651 1358 2024	0.8 0.7 1.1 0.8	24 21 34 24	6 Tu	0127 1057	1.3 0.6	40 18	21 W	0105 1157	1.6 0.3	49 9
7 Th	1206 2239	1.4 0.0	43 0	22 F	1204 2208	1.5 0.1	46 3	7 Su	0443 0815 1305 2024	0.9 0.8 0.9 0.6	27 24 27 18	22 M	0217 0932	1.0 0.7	30 21	7 W	0156 1236	1.4 0.6	43 18	22 Th	0201 1332	1.7 0.2	52 6
8 F	1233 2243	1.2 0.2	37 6	23 Sa	1250 2218	1.3 0.3	40 9	8 M	0400 1917	1.0 0.6	30 18	23 Tu	0231 1156	1.2 0.5	37 15	8 Th	0237 1402	1.5 0.5	46 15	23 F	0307 1451	1.7 0.2	52 6
○				○																			
9 Sa	1242 2230	1.0 0.3	30 9	24 Su	1341 2206	1.0 0.5	30 15	9 Tu	0402 1557	1.1 0.6	34 18	24 W	0308 1355	1.4 0.3	43 9	9 F	0329 1510	1.5 0.4	46 12	24 Sa	0422 1554	1.7 0.2	52 6
10 Su	0854 2158	0.9 0.4	27 12	25 M	0537 1127 1450 2112	0.8 0.7 0.8 0.6	24 21 24 18	10 W	0423 1547	1.2 0.4	37 12	25 Th	0401 1522	1.6 0.2	49 6	10 Sa	0431 1604	1.6 0.3	49 9	25 Su	0543 1644	1.7 0.3	52 9
○				○																			
11 M	0641 2052	0.9 0.4	27 12	26 Tu	0506 1439	1.0 0.5	30 15	11 Th	0458 1624	1.3 0.3	40 9	26 F	0505 1631	1.7 0.1	52 3	11 Su	0539 1650	1.6 0.3	49 9	26 M	0702 1719	1.6 0.4	49 12
○				○																			
12 Tu	0620 1821	1.1 0.4	34 12	27 W	0519 1550	1.2 0.2	37 6	12 F	0542 1706	1.4 0.2	43 6	27 Sa	0614 1729	1.7 0.1	52 3	12 M	0647 1730	1.6 0.3	49 9	27 Tu	0815 1740	1.5 0.5	46 15
13 W	0626 1732	1.2 0.2	37 6	28 Th	0553 1650	1.4 0.1	43 3	13 Sa	0633 1748	1.5 0.1	46 3	28 Su	0722 1819	1.7 0.1	52 3	13 Tu	0752 1805	1.7 0.3	52 9	28 W	0923 1743	1.3 0.7	40 21
14 Th	0647 1750	1.3 0.1	40 3	29 F	0640 1747	1.6 -0.1	49 -3	14 Su	0725 1828	1.6 0.1	49 3	29 M	0824 1859	1.7 0.2	52 6	14 W	0856 1836	1.6 0.4	49 12	29 Th	0010 0331	0.9 0.8	27 24
15 F	0717 1822	1.4 0.0	43 0	30 Sa	0733 1840	1.7 -0.2	52 -6	15 M	0816 1905	1.7 0.0	52 0	30 Tu	0920 1928	1.6 0.3	49 9	15 Th	1002 1859	1.5 0.6	46 18	30 F	0520 1145 1651	0.8 1.1 0.9	24 34 27
				31 Su	0827 1930	1.7 -0.2	52 -6					31 W	1011 1944	1.5 0.4	46 12					●	2259	1.2	37

Time meridian 90° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
 Heights are referred to mean lower low water which is the chart datum of soundings.

Pensacola, Florida, 2016

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	0633 2303	0.7 1.3	21 40	16 Su	0641 2223	0.4 1.5	12 46	1 Tu	0840 2254	0.2 1.6	6 49	16 W	0933 2324	-0.3 1.7	-9 52	1 Th	0934 2309	-0.3 1.4	-9 43	16 F	1032 F	-0.6 —	-18
2 Su	0732 2317	0.6 1.4	18 43	17 M	0754 2255	0.2 1.7	6 52	2 W	0930 2326	0.1 1.6	3 49	17 Th	1040 —	-0.3 —	-9 —	2 F	1017 2345	-0.3 1.4	-9 43	17 Sa	0005 1113	1.3 -0.5	40 -15
3 M	0827 2337	0.5 1.5	15 46	18 Tu	0911 2338	0.1 1.8	3 55	3 Th	1025 —	0.1 —	3 —	18 F	0013 1142	1.7 -0.3	52 -9	3 Sa	1057 —	-0.3 —	-9 —	18 Su	0044 1140	1.1 -0.3	34 -9
4 Tu	0925	0.5	15	19 W	1032	0.1	3	4 F	0003 1122	1.6 0.1	49 3	19 Sa	0102 1233	1.5 -0.2	46 -6	4 Su	0022 1132	1.3 -0.3	40 -9	19 M	0113 1149	0.9 -0.2	27 -6
5 W	0005 1031	1.5 0.4	46 12	20 Th	0029 1154	1.8 0.0	55 0	5 Sa	0043 1214	1.6 0.1	49 3	20 Su	0147 1309	1.4 0.0	43 0	5 M	0058 1202	1.2 -0.2	37 -6	20 Tu	0104 1136	0.7 0.0	21 0
6 Th	0041 1145	1.6 0.4	49 12	21 F	0124 1309	1.8 0.1	55 3	6 Su	0128 1300	1.5 0.1	46 3	21 M	0224 1328	1.1 0.1	34 3	6 Tu	0133 1224	1.0 -0.1	30 -3	21 W	1050 1933	0.1 0.6	3 18
7 F	0124 1259	1.6 0.4	49 12	22 Sa	0225 1409	1.7 0.1	52 3	7 M	0216 1338	1.4 0.1	43 3	22 Tu	0216 1323	0.9 0.3	27 9	7 W	0156 1233	0.8 0.1	24 3	22 Th	0837 1916	0.1 0.8	3 24
8 Sa	0216 1401	1.6 0.3	49 9	23 Su	0331 1454	1.5 0.2	46 6	8 Tu	0315 1408	1.3 0.2	40 6	23 W	1249 2050	0.4 0.9	12 27	8 Th	1218 2005	0.2 0.7	6 21	23 F	0548 1922	-0.1 0.9	-3 27
9 Su	0318 1452	1.6 0.3	49 9	24 M	0446 1522	1.4 0.4	43 12	9 W	0446 1428	1.1 0.4	34 12	24 Th	0546 2031	0.4 1.0	12 30	9 F	0422 1947	0.3 0.9	9 27	24 Sa	0556 1941	-0.2 1.0	-6 30
10 M	0431 1534	1.6 0.3	49 9	25 Tu	0616 1531	1.2 0.5	37 15	10 Th	0243 0714	0.8 0.9	24 27	25 F	0556 2033	0.2 1.1	6 34	10 Sa	0501 1956	0.0 1.1	0 34	25 Su	0622 2007	-0.3 1.1	-9 34
11 Tu	0555 1609	1.5 0.4	46 12	26 W	0301 0802	0.9 1.0	27 30	11 F	0414 1008	0.6 0.7	18 21	26 Sa	0623 2045	0.1 1.2	3 37	11 Su	0551 2023	-0.3 1.3	-9 40	26 M	0655 2039	-0.4 1.1	-12 34
12 W	0725 1636	1.4 0.5	43 15	27 Th	0448 1002	0.7 0.9	21 27	12 Sa	0517 2059	0.3 1.3	9 40	27 Su	0654 2106	-0.1 1.3	-3 40	12 M	0646 2101	-0.5 1.4	-15 43	27 Tu	0732 2114	-0.5 1.2	-15 37
13 Th	0900 1651	1.3 0.7	40 21	28 F	0548 2138	0.6 1.3	18 40	13 Su	0617 2120	0.0 1.5	0 46	28 M	0729 2131	-0.1 1.4	-3 43	13 Tu	0745 2146	-0.6 1.5	-18 46	28 W	0811 2151	-0.5 1.2	-15 37
14 F	0356 1043	0.8 1.2	24 37	29 Sa	0634 2147	0.4 1.4	12 43	14 M	0719 2154	-0.1 1.6	-3 49	29 Tu	0808 2201	-0.2 1.4	-6 43	14 W	0844 2234	-0.7 1.5	-21 46	29 Th	0848 2227	-0.6 1.2	-18 37
15 Sa	0525 1305	0.6 1.0	18 30	30 Su	0715 2204	0.3 1.5	9 46	15 Tu	0825 2237	-0.3 1.7	-9 52	30 W	0850 2234	-0.3 1.4	-9 43	15 Th	0941 2321	-0.7 1.5	-21 46	30 F	0923 2303	-0.6 1.2	-18 37
16 O	0206 2251	0.9 1.0	27 30	31 M	0756 2226	0.2 1.5	6 46								31 Sa	0954 2339	-0.6 1.1	-18 34					

Time meridian 90° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
 Heights are referred to mean lower low water which is the chart datum of soundings.

Dauphin Island, Alabama, 2016

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 F 1935	1002 0.5	0 15	16 Sa	0830 1748	0.0 0.5	1 M	0439 1722	-0.2 0.7	16 Tu	0436 1725	-0.4 1.0	1 Tu	0245 1554	-0.1 0.8	16 W	0352 1639	-0.2 1.1	-6 34	
2 Sa	0850 1842	0.0 0.6	0 18	17 Su	0551 1744	-0.1 0.7	2 Tu	0450 1754	-0.3 0.8	17 W	0532 1821	-0.4 1.0	2 W	0333 1646	-0.2 0.9	17 Th	0454 1748	-0.2 1.0	-6 30
3 Su	0701 1838	0.0 0.7	0 21	18 M	0524 1811	-0.3 0.9	3 W	0521 1832	-0.4 0.9	18 Th	0628 1917	-0.5 1.0	3 Th	0423 1741	-0.3 1.0	18 F	0549 1855	-0.1 1.0	-3 30
4 M	0602 1852	-0.2 0.9	-6 27	19 Tu	0555 1849	-0.4 1.0	4 Th	0601 1913	-0.5 1.0	19 F	0722 2009	-0.4 1.0	4 F	0515 1837	-0.3 1.0	19 Sa	0638 1957	0.0 0.9	0 27
5 Tu	0606 1915	-0.3 1.0	-9 30	20 W	0640 1932	-0.6 1.1	5 F	0646 1956	-0.5 1.1	20 Sa	0813 2057	-0.4 0.9	5 Sa	0606 1934	-0.3 1.1	20 Su	0716 2055	0.1 0.8	3 24
6 W	0632 1944	-0.4 1.1	-12 34	21 Th	0730 2017	-0.6 1.1	6 Sa	0734 2041	-0.6 1.1	21 Su	0856 2141	-0.3 0.8	6 Su	0658 2031	-0.3 1.0	21 M	0719 2152	0.2 0.7	6 21
7 Th	0708 2017	-0.5 1.1	-15 34	22 F	0821 2100	-0.6 1.1	7 Su	0823 2127	-0.6 1.1	22 M	0928 2222	-0.2 0.7	7 M	0749 2130	-0.2 0.9	22 Tu	0614 0946	0.3 0.4	9 12
8 F	0750 2054	-0.6 1.2	-18 37	23 Sa	0909 2142	-0.6 1.0	8 M	0909 2213	-0.5 1.0	23 Tu	0927 2300	0.0 0.6	8 Tu	0838 2234	-0.1 0.8	23 W	0458 1003	0.4 0.5	12 15
9 Sa	0836 2132	-0.6 1.2	-18 37	24 Su	0949 2220	-0.5 0.9	9 Tu	0952 2259	-0.4 0.8	24 W	0828 2337	0.1 0.5	9 W	0917 2349	0.1 0.6	24 Th	0024 0326	0.5 0.4	15 12
10 Su	0922 2212	-0.6 1.2	-18 37	25 M	1018 2254	-0.4 0.8	10 W	1021 2345	-0.2 0.6	25 Th	0718 1301	0.2 0.3	10 Th	0726 1037	0.3 0.4	25 F	1102 2038	0.8 0.2	24 6
11 M	1005 2252	-0.6 1.1	-18 34	26 Tu	1029 2322	-0.3 0.7	11 Th	1003 2003	0.0 0.0	26 F	0016 0603	0.3 0.2	11 F	1126 2104	0.6 0.1	26 Sa	1135 2200	0.9 0.1	27 3
12 Tu	1043 2330	-0.5 0.9	-15 27	27 W	1013 2339	-0.1 0.5	12 F	0025 0817	0.4 0.1	27 Sa	0113 0355	0.2 0.1	12 Sa	1221 2344	0.8 0.0	27 Su	1210 2314	0.9 0.0	27 0
13 W	1109	-0.4	-12	28 Th	0930 2317	0.0 0.3	13 Sa	0518 1458	0.1 0.5	28 Su	0111 1424	0.1 0.7	13 Su	1320 1424	0.9 0.7	28 M	1250 1531	1.0 1.1	30 34
14 Th	0002 1109	0.7 -0.2	21 -6	29 F	0831 1730	0.0 0.3	14 Su	0307 1539	-0.1 0.7	29 M	0159 1507	0.0 0.8	14 M	0127 1423	-0.2 1.0	29 Tu	0022 1336	0.0 1.0	0 30
15 F	0009 1021	0.5 0.0	15 0	30 Sa	0714 1649	0.0 0.4	15 M	0345 1630	-0.3 0.9				15 Tu	0244 1529	-0.2 1.1	30 W	0126 1430	-0.1 1.1	-3 34
				31 Su	0529 1658	-0.1 0.6							31 Th	0225 1531	-0.1 1.1				

Time meridian 90° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
 Heights are referred to mean lower low water which is the chart datum of soundings.

Dauphin Island, Alabama, 2016

Times and Heights of High and Low Waters

April						May						June											
	Time	Height		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		h m	ft cm						
1 F	0320 1639	-0.1 1.1	-3 34	16 Sa	0415 1811	0.2 0.9	6 27	1 Su	0250 1644	0.1 0.9	3 27	16 M	0037 0828 2237	0.5 0.8 0.5	15 24 15	1 W	0741 1753	1.0 0.2	30 6	16 Th	0731 1831	1.2 0.0	37 0
2 Sa	0412 1752	-0.1 1.1	-3 34	17 Su	0415 1935	0.3 0.7	9 21	2 M	0309 1841	0.3 0.8	9 24	17 Tu	0802 1750	0.9 0.3	27 9	2 Th	0749 1835	1.2 0.0	37 0	17 F	0755 1902	1.3 -0.1	40 -3
3 Su	0459 1909	0.0 1.0	0 30	18 M	0333 0914 1444 2115	0.5 0.6 0.5 0.6	15 18 15 18	3 Tu	0249 0922 1551 2153	0.5 0.7 0.5 0.6	15 21 15 18	18 W	0809 1822	1.1 0.2	34 6	3 F	0816 1927	1.4 -0.2	43 -6	18 Sa	0823 1938	1.4 -0.1	43 -3
4 M	0539 2031	0.1 0.9	3 27	19 Tu	0220 0849 1648	0.5 0.7 0.4	15 21 12	4 W	0057 0831 1729	0.5 0.9 0.3	15 27 9	19 Th	0827 1857	1.2 0.1	37 3	4 Sa	0852 2024	1.5 -0.3	46 -9	19 Su	0854 2018	1.4 -0.2	43 -6
5 Tu	0559 2209	0.3 0.7	9 21	20 W	0900 1807	0.9 0.3	27 9	5 Th	0837 1843	1.1 0.1	34 3	20 F	0851 1935	1.3 0.0	40 0	5 Su	0934 2123	1.6 -0.3	49 -9	20 M	0927 2100	1.5 -0.2	46 -6
6 W	0513 0916 1634	0.5 0.6 0.3	15 18 9	21 Th	0922 1909	1.0 0.2	30 6	6 F	0906 1953	-1.3 -0.1	40 -3	21 Sa	0917 2015	1.4 -0.1	43 -3	6 M	1017 2221	1.6 -0.3	49 -9	21 Tu	1001 2143	1.5 -0.2	46 -6
7 Th	0924 1837	0.8 0.2	24 6	22 F	0948 2003	1.1 0.1	34 3	7 Sa	0944 2103	-1.4 -0.2	43 -6	22 Su	0946 2058	-1.4 -0.1	43 -3	7 Tu	1101 2312	1.5 -0.2	46 -6	22 W	1036 2224	1.4 -0.2	43 -6
●																							
8 F	1001 2022	1.0 0.0	30 0	23 Sa	1016 2054	1.2 0.0	37 0	8 Su	1028 2213	-1.5 -0.2	46 -6	23 M	1018 2145	-1.4 -0.1	43 -3	8 W	1143 2353	1.4 -0.1	43 -3	23 Th	1112 2259	1.4 -0.2	43 -6
9 Sa	1048 2158	1.2 -0.1	37 -3	24 Su	1046 2148	1.2 0.0	37 0	9 M	1115 2320	-1.5 -0.2	46 -6	24 Tu	1052 2233	-1.4 -0.2	43 -6	9 Th	1220	1.3	40	24 F	1146 2326	1.3 0.0	40 0
10 Su	1139 2328	1.3 -0.1	40 -3	25 M	1119 2244	1.3 0.0	40 0	10 Tu	1204	1.5	46	25 W	1128 2320	-1.4 -0.1	43 -3	10 F	0017 1250	0.0 1.1	0 34	25 Sa	1213 2337	1.1 0.1	34 3
11 M	1233	1.3	40	26 Tu	1157 2342	-1.3 -0.1	40 -3	11 W	0021 1253	-0.1 -1.4	-3 43	26 Th	1206	1.4	43	11 Sa	0017 1254 2345	0.2 0.9 0.3	6 27 9	26 Su	1211 2316	0.9 0.3	27 9
12 Tu	0048 1332	-0.1 1.3	-3 40	27 W	1239	1.3	40	12 Th	0112 1341	0.0 1.2	0 37	27 F	0003 1244	-0.1 -1.3	-3 40	12 Su	1032 2241	0.7 0.4	21 12	27 M	0910 2159	0.7 0.4	21 12
●																							
13 W	0158 1434	-0.1 1.2	-3 37	28 Th	0038 1327	-0.1 1.3	-3 40	13 F	0146 1426	0.1 1.0	3 30	28 Sa	0038 1320	0.0 1.1	0 34	13 M	0741 2054	0.8 0.4	24 12	28 Tu	0701 1843	0.8 0.3	24 9
●																							
14 Th	0257 1541	0.0 1.1	0 34	29 F	0129 1422	-0.1 1.2	-3 37	14 Sa	0157 1505	0.2 0.9	6 27	29 Su	0101 1337	0.1 0.9	3 27	14 Tu	0709 1826	0.9 0.3	27 9	29 W	0637 1742	1.0 0.1	30 3
15 F	0345 1653	0.1 1.0	3 30	30 Sa	0215 1524	0.0 1.1	0 34	15 Su	0135 1205	0.4 0.7	12 21	30 M	0058 1040	0.3 0.7	9 21	15 W	0713 1812	1.1 0.1	34 3	30 Th	0651 1810	1.3 -0.1	40 -3
															31 Tu	0007 0816 1807	0.4 0.8 0.4	12 24 12					

Time meridian 90° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Dauphin Island, Alabama, 2016

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		h m	ft	cm		
1 F	0722 1855	1.4 -0.2	43 -6		16 Sa	0723 1849	1.4 -0.1	43 -3	1 M	0839 2046	1.6 -0.1	49 -3		16 Tu	0817 1946	1.5 0.1	46 3	1 Th	1010 2051	1.2 0.6	37 18
2 Sa	0801 1947	1.5 -0.3	46 -9		17 Su	0758 1929	1.4 -0.1	43 -3	2 Tu	0925 2131	1.5 0.0	46 0		17 W	0903 2029	1.5 0.1	46 3	2 F	1057 1922 2326	1.1 0.7 0.8	34 21 24
3 Su	0844 2042	1.6 -0.3	49 -9		18 M	0835 2012	1.5 -0.2	46 -6	3 W	1007 2205	1.4 0.1	43 3		18 Th	0949 2105	1.4 0.2	43 6	3 Sa	0412 1150 1755 2348	0.7 0.9 0.8 0.9	21 27 24 27
4 M	0928 2134	1.6 -0.3	49 -9		19 Tu	0913 2053	1.5 -0.2	46 -6	4 Th	1046 2218	1.3 0.3	40 9		19 F	1037 2126	1.3 0.4	40 12	4 Su	0717 1318 1557	0.7 0.8 0.7	21 24 21
●					○											19 M	0904 2349	0.6 1.4	18		
5 Tu	1011 2220	1.5 -0.2	46 -6		20 W	0952 2132	1.5 -0.1	46 -3	5 F	1119 2151	1.1 0.4	34 12		20 Sa	1127 2057	1.1 0.6	34 18	5 M	0021 1004	1.1 0.7	34 21
6 W	1051 2255	1.4 -0.1	43 -3		21 Th	1030 2206	1.4 0.0	43 0	6 Sa	1144 2046	0.9 0.5	27 15		21 Su	1222 1909	0.9 0.7	27 21	6 Tu	0058 1158	1.2 0.6	37 18
7 Th	1127 2313	1.3 0.1	40 3		22 F	1107 2228	1.3 0.1	40 3	7 Su	1137 1926	0.8 0.6	24 18		22 M	0144 1055	0.9 0.7	27 21	7 W	0138 1307	1.3 0.5	40 15
8 F	1154 2304	1.1 0.2	34 6		23 Sa	1139 2227	1.1 0.3	34 9	8 M	0334 1739	0.8 0.5	24 15		23 Tu	0205 1345	1.1 0.5	34 15	8 Th	0223 1402	1.4 0.4	43 12
9 Sa	1203 2222	0.9 0.3	27 9		24 Su	1150 2138	0.9 0.4	27 12	9 Tu	0339 1546	1.0 0.4	30 12		24 W	0250 1448	1.3 0.3	40 9	9 F	0313 1454	1.4 0.3	43 9
10 Su	1037 2115	0.7 0.4	21 12		25 M	0655 1944	0.7 0.5	21 15	10 W	0406 1543	1.1 0.3	34 9		25 Th	0344 1548	1.4 0.2	43 6	10 Sa	0407 1544	1.5 0.3	46 9
●					○											25 Su	0505 1703	1.6 0.4	49		
11 M	0627 1942	0.8 0.4	24 12		26 Tu	0500 1653	0.9 0.3	27 9	11 Th	0441 1612	1.2 0.2	37 6		26 F	0443 1648	1.5 0.1	46 3	11 Su	0504 1634	1.5 0.3	46 9
○					○											26 M	0615 1748	1.5 0.5	46		
12 Tu	0552 1752	0.9 0.3	27 9		27 W	0503 1639	1.1 0.2	34 6	12 F	0520 1650	1.3 0.2	40 6		27 Sa	0543 1747	1.6 0.1	49 3	12 M	0602 1721	1.5 0.3	46 9
13 W	0559 1725	1.1 0.2	34 6		28 Th	0533 1716	1.3 0.0	40 0	13 Sa	0603 1732	1.4 0.1	43 3		28 Su	0643 1845	1.6 0.1	49 3	13 Tu	0700 1806	1.5 0.3	46 9
14 Th	0621 1741	1.2 0.0	37 0		29 F	0615 1805	1.5 -0.1	46 -3	14 Su	0647 1817	1.5 0.1	46 3		29 M	0740 1938	1.6 0.2	49 6	14 W	0758 1847	1.5 0.4	46 12
15 F	0650 1811	1.3 0.0	40 0		30 Sa	0702 1859	1.5 -0.1	46 -3	15 M	0732 1902	1.5 0.0	46 0		30 Tu	0834 2025	1.5 0.3	46 9	15 Th	0900 1918	1.4 0.6	43 18
					31 Su	0751 1954	1.6 -0.1	49 -3						31 W	0923 2101	1.4 0.5	43 15	●	0353 1055 1524 2143	0.8 1.0 0.9 1.1	24 30 27 34

Time meridian 90° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
 Heights are referred to mean lower low water which is the chart datum of soundings.

Dauphin Island, Alabama, 2016

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	0554 2209	0.7 1.2	21 37	16 Su	0652 2147	0.5 1.5	15 46	1 Tu	0857 2231	0.2 1.5	6 46	16 W	1002 2257	-0.2 -1.7	-6 52	1 Th	0941 2239	-0.2 -1.4	-6 43	16 F	1106 2331	-0.5 -1.3	-15 40
2 Su	0728 2238	0.6 1.3	18 40	17 M	0822 2227	0.3 1.6	9 49	2 W	0944 2303	0.2 1.5	6 46	17 Th	1107 2345	-0.2 -1.6	-6 49	2 F	1023 2311	-0.2 -1.3	-6 40	17 Sa	1148	-0.4	-12
3 M	0846 2310	0.5 1.4	15 43	18 Tu	0946 2314	0.2 1.7	6 52	3 Th	1034 2337	0.2 1.5	6 46	18 F	1206	-0.1	-3	3 Sa	1102 2343	-0.2 -1.3	-6 40	18 Su	0009 1214	1.1	34
4 Tu	0954 2344	0.5 1.5	15 46	19 W	1106	0.1	3	4 F	1123	0.1	3	19 Sa	0032 1255	1.5 0.0	46 0	4 Su	1138	-0.2	-6	19 M	0039 1213	0.9	27
5 W	1057	0.4	12	20 Th	0006 1220	1.8 0.1	55 3	5 Sa	0014 1211	1.5 0.1	46 3	20 Su	0118 1327	1.3 0.1	40 3	5 M	0014 1207	1.2 -0.1	37 -3	20 Tu	0046 1136	0.7 0.1	21 3
6 Th	0022 1157	1.5 0.4	46 12	21 F	0101 1327	1.7 0.1	52 3	6 Su	0054 1254	1.5 0.1	46 3	21 M	0158 1336	1.1 0.2	34 6	6 Tu	0039 1225	1.0 0.0	30 0	21 W	1025 1930	0.2 0.6	6 18
7 F	0104 1254	1.5 0.4	46 12	22 Sa	0200 1423	1.6 0.2	49 6	7 M	0136 1332	1.4 0.2	43 6	22 Tu	0222 1310	0.9 0.4	27 12	7 W	0037 1222	0.9 0.1	27 3	22 Th	0839 1854	0.1 0.7	3 21
8 Sa	0152 1347	1.5 0.3	46 9	23 Su	0301 1507	1.5 0.3	46 9	8 Tu	0221 1400	1.3 0.3	40 9	23 W	1207 2022	0.5 0.8	15 24	8 Th	1138 2015	0.2 0.7	6 21	23 F	0637 1900	0.0 0.9	0 27
9 Su	0247 1437	1.5 0.3	46 9	24 M	0406 1531	1.3 0.5	40 15	9 W	0307 1411	1.1 0.4	34 12	24 Th	1010 1953	0.5 1.0	15 30	9 F	0852 1936	0.3 0.9	9 27	24 Sa	0618 1920	-0.1 1.0	-3 30
10 M	0348 1521	1.5 0.4	46 12	25 Tu	0517 1523	1.2 0.6	37 18	10 Th	0049 1348	0.9 0.6	27 18	25 F	0626 1958	0.3 1.1	9 34	10 Sa	0606 1938	0.0 1.1	0 34	25 Su	0636 1946	-0.3 1.1	-9 34
11 Tu	0457 1559	1.4 0.4	43 12	26 W	0640 1435	1.0 0.7	30 21	11 F	0500 0833	0.6 0.7	18 21	26 Sa	0638 2017	0.2 1.2	6 37	11 Su	0633 2003	-0.2 -1.3	-6 40	26 M	0706 2016	-0.3 1.1	-9 34
12 W	0614 1626	1.3 0.6	40 18	27 Th	0332 0836	0.7 0.8	21 24	12 Sa	0552 2030	0.4 1.3	12 40	27 Su	0707 2041	0.0 1.3	0 40	12 M	0720 2038	-0.3 -1.4	-9 43	27 Tu	0742 2048	-0.4 1.2	-12 37
13 Th	0742 1629	1.2 0.7	37 21	28 F	0522 2049	0.6 1.2	18 37	13 Su	0649 2053	0.2 1.5	6 46	28 M	0741 2108	-0.1 1.4	-3 43	13 Tu	0816 2119	-0.5 1.5	-15 46	28 W	0819 2120	-0.4 1.2	-12 37
14 F	0232 0933	0.8 1.0	24 30	29 Sa	0629 2109	0.5 1.3	15 40	14 M	0750 2129	0.0 1.6	0 49	29 Tu	0819 2137	-0.1 1.4	-3 43	14 W	0915 2203	-0.5 1.5	-15 46	29 Th	0858 2153	-0.5 1.2	-15 37
15 Sa	0509 2120	0.7 1.2	21 37	30 Su	0722 2134	0.4 1.4	12 43	15 Tu	0856 2211	-0.1 1.7	-3 52	30 W	0859 2208	-0.2 1.4	-6 43	15 Th	1013 2248	-0.5 1.4	-15 43	30 F	0934 2225	-0.5 1.1	-15 34
O				31 M	0810 2202	0.3 1.5	9 46								31 Sa	1009 2256	-0.5 1.1	-15 34					

Time meridian 90° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Mobile, Alabama, 2016

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 F 1113 1959	0.0 0.7	0 21	16 Sa 1036 1849	0.1 0.7	3 21	1 M 0703 1821	-0.1 1.0	-3 30	16 Tu 0629 1818	-0.3 1.3	-9 40	1 Tu 0513 1723	0.1 1.3	3 40	16 W 0547 1738	-0.1 1.5	-3 46
○			○						○								
2 Sa 0946 1926	0.0 0.8	0 24	17 Su 0653 1842	-0.1 0.9	-3 27	2 Tu 0705 1858	-0.2 1.1	-6 34	17 W 0715 1910	-0.4 1.4	-12 43	2 W 0601 1807	-0.1 1.4	-3 43	17 Th 0640 1831	-0.1 1.5	-3 46
3 Su 0824 1931	-0.1 0.9	-3 27	18 M 0703 1905	-0.3 1.1	-9 34	3 W 0728 1945	-0.4 1.2	-12 37	18 Th 0756 2011	-0.5 1.3	-15 40	3 Th 0641 1900	-0.2 1.4	-6 43	18 F 0721 1934	-0.1 1.4	-3 43
4 M 0755 1955	-0.2 1.0	-6 30	19 Tu 0737 1946	-0.5 1.2	-15 37	4 Th 0756 2040	-0.5 1.3	-15 40	19 F 0830 2117	-0.4 1.3	-12 40	4 F 0718 2006	-0.3 1.4	-9 43	19 Sa 0750 2054	0.0 1.2	0 37
5 Tu 0759 2030	-0.4 1.2	-12 37	20 W 0814 2037	-0.6 1.3	-18 40	5 F 0827 2138	-0.6 1.3	-18 40	20 Sa 0858 2218	-0.4 1.2	-12 37	5 Sa 0752 2123	-0.3 1.4	-9 43	20 Su 0807 2221	0.2 1.1	6 34
6 W 0820 2112	-0.5 1.2	-15 37	21 Th 0851 2131	-0.7 1.3	-21 40	6 Sa 0859 2234	-0.6 1.4	-18 43	21 Su 0916 2310	-0.3 1.1	-9 34	6 Su 0824 2238	-0.3 1.4	-9 43	21 M 0806 2335	0.3 1.0	9 30
7 Th 0848 2156	-0.6 1.3	-18 40	22 F 0925 2222	-0.7 1.3	-21 40	7 Su 0930 2327	-0.6 1.3	-18 40	22 M 0922 2356	-0.1 1.0	-3 30	7 M 0852 2348	-0.2 1.3	-6 40	22 Tu 0755 1455	0.4 0.8	12 24
									○								
8 F 0919 2240	-0.7 1.4	-21 43	23 Sa 0955 2308	-0.7 1.2	-21 37	8 M 0958 2308	-0.5 1.2	-15 37	23 Tu 0917 2308	0.0 1.2	0 37	8 Tu 0911 2308	0.0 1.2	0 37	23 W 0049 1417	0.9 0.9	27 27
									●								
9 Sa 0953 2325	-0.7 1.4	-21 43	24 Su 1018 2351	-0.6 1.1	-18 34	9 Tu 0019 1018	-1.2 -0.4	-37 37	24 W 0042 0913	0.9 0.1	27 33	9 W 0104 1653	1.1 0.6	34 18	24 Th 0238 1605	0.8 0.6	24 30
									●								
10 Su 1026	-0.7	-21	25 M 1029	-0.5	-15	10 W 0114 1021	1.1 -0.2	34 -6	25 Th 0130 0909	0.7 0.2	21 6	10 Th 0243 0853	0.9 0.4	27 12	25 F 0434 1347	0.8 1.2	24 37
									●								
11 M 0008 1056	1.3 -0.7	40 -21	26 Tu 0031 1030	1.0 -0.3	30 -9	11 Th 0219 1009	0.8 0.0	24 0	26 F 0228 0900	0.6 0.3	18 9	11 F 0431 1452	0.8 1.0	24 30	26 Sa 1407 0835	1.3 0.6	40 39
									●								
12 Tu 0052 1119	1.2 -0.6	37 -18	27 W 0107 1028	0.9 -0.2	27 -6	12 F 0345 0953	0.6 0.2	18 6	27 Sa 0356 0830	0.5 0.4	15 12	12 Sa 1451 1556	1.2 1.0	37 30	27 Su 1437 2356	1.4 0.3	43 9
									●								
13 W 0136 1128	1.1 -0.4	34 -12	28 Th 0139 1023	0.7 -0.1	21 -3	13 Sa 0545 0920	0.3 0.2	9 6	28 Su 0055 1617	0.3 1.1	9 34	13 Su 0104 1522	0.2 1.4	6 43	28 M 1512	1.5	46
									●								
14 Th 0216 1123	0.8 -0.2	24 -6	29 F 0155 1007	0.5 0.0	15 0	14 Su 0416 1704	0.1 1.1	3 34	29 M 0408 1647	0.2 1.2	6 37	14 M 0315 1603	0.1 1.5	3 46	29 Tu 0215 1551	0.3 1.6	9 49
									●								
15 F 0235 1111	0.6 0.0	18 0	30 Sa 0923 1742	0.1 0.8	3 24	15 M 0532 1735	-0.1 1.2	-3 37				15 Tu 0439 1649	0.0 1.5	0 46	30 W 0336 1634	0.2 1.6	6 49
									●								
			31 Su 0754 1754	0.0 0.9	0 27							31 Th 0441 1720	0.1 1.6	3 49	○		

Time meridian 90° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
 Heights are referred to mean lower low water which is the chart datum of soundings.

Mobile, Alabama, 2016

Times and Heights of High and Low Waters

April						May						June											
	Time	Height		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		h m	ft cm						
1 F	0537 1813	0.1 1.6	3 49	16 Sa	0615 1832	0.4 1.3	12 40	1 Su	0451 1821	0.3 1.4	9 43	16 M	0311 1144 2138	0.7 1.1 0.7	21 34 21	1 W	1006 1957	1.3 0.5	40 15	16 Th	0903 2037	1.5 0.3	46 9
2 Sa	0623 1922	0.1 1.5	3 46	17 Su	0627 1937	0.5 1.1	15 34	2 M	0519 2144	0.5 1.1	15 34	17 Tu	0031 0236 1107 2035	0.8 0.7 1.2 0.7	24 21 37 21	2 Th	0947 2033	1.5 0.2	46 6	17 F	0939 2101	1.6 0.2	49 6
3 Su	0702 2110	0.1 1.4	3 43	18 M	0611 1314 1750 2350	0.6 1.0 0.9 1.0	18 30 27 30	3 Tu	0517 1224 1820	0.7 1.1 0.8	21 34 24	18 W	1034 2030	1.4 0.5	43 15	3 F	1009 2116	1.7 0.1	52 3	18 Sa	1019 2130	1.7 0.1	52 3
4 M	0733 2307	0.2 1.3	6 40	19 Tu	0551 1244 1920	0.8 1.1 0.7	24 34 21	4 W	0037 0454 1149 1939	1.0 0.9 1.2 0.6	30 27 37 18	19 Th	1037 2051	1.5 0.4	46 12	4 Sa	1047 2205	1.9 0.0	58 0	19 Su	1101 2202	1.8 0.1	55 3
5 Tu	0749 1421 1754	0.4 0.9 0.8	12 27 24	20 W	0206 0536 1209 2008	0.9 0.8 1.2 0.6	27 24 37 18	5 Th	1117 2036	1.4 0.3	43 9	20 F	1059 2120	1.6 0.3	49 9	5 Su	1131 2257	2.0 -0.1	61 -3	20 M	1143 2235	1.9 0.0	58 0
6 W	0053 0738 1342 1928	1.1 0.7 0.9 0.6	34 21 27 18	21 Th	1200 2047	1.3 0.5	40 15	6 F	1122 2133	1.6 0.2	49 6	21 Sa	1128 2153	1.7 0.2	52 6	6 M	1217 2348	2.0 -0.1	61 -3	21 Tu	1226 2308	1.9 0.0	58 0
7 Th	0253 0715 1257 ● 2038	1.0 0.9 1.1 0.4	30 27 34 12	22 F	1214 2125	1.5 0.4	46 12	7 Sa	1152 2238	1.8 0.1	55 3	22 Su	1203 2231	1.8 0.2	55 6	7 Tu	1304	1.9	58	22 W	1310 2339	1.9 0.0	58 0
8 F	1243 2146	1.3 0.3	40 9	23 Sa	1239 2205	1.6 0.3	49 9	8 Su	1232 2351	1.9 0.0	58 0	23 M	1240 2314	1.8 0.1	55 3	8 W	0033 1350	0.0 1.9	0 58	23 Th	1354	1.8	55
9 Sa	1307 2316	1.5 0.2	46 6	24 Su	1311 2254	1.7 0.3	52 9	9 M	1318	1.9	58	24 Tu	1321	1.9	58	9 Th	0107 1434	0.1 1.7	3 52	24 F	0006 1439	0.1 1.7	3 52
10 Su	1347	1.7	52	25 M	1348	1.7	52	10 Tu	0101 1406	0.0 1.9	0 58	25 W	0000 1403	0.1 1.9	3 58	10 F	0125 1512	0.3 1.5	9 46	25 Sa	0024 1521	0.2 1.6	6 49
11 M	0114 1433	0.1 1.8	3 55	26 Tu	0003 1428	0.2 1.8	6 55	11 W	0158 1454	0.1 1.8	3 55	26 Th	0046 1446	0.1 1.8	3 55	11 Sa	0124 1542	0.4 1.3	12 40	26 Su	0033 1555	0.4 1.3	12 40
12 Tu	0238 1522	0.1 1.8	3 55	27 W	0122 1511	0.2 1.8	6 55	12 Th	0245 1538	0.2 1.7	6 52	27 F	0126 1529	0.2 1.7	6 52	12 Su	0115 1548	0.6 1.1	18 34	27 M	0032 0908 1227 ●	0.6 1.1 1.0 1.1	18 34 30 34
13 W	0347 1611	0.1 1.7	3 52	28 Th	0226 1555	0.2 1.8	6 55	13 F	0320 1617	0.3 1.5	9 46	28 Sa	0159 1608	0.2 1.6	6 49	13 M	0053 1002 2147	0.7 1.1 0.7	21 34 21	28 Tu	0018 0808 1946	0.7 1.2 0.7	21 37 21
14 Th	0448 1658	0.2 1.6	6 49	29 F	0320 1640	0.2 1.7	6 52	14 Sa	0334 1648	0.5 1.3	15 40	29 Su	0220 1642	0.4 1.3	12 40	14 Tu	0847 2039	1.2 0.6	37 18	29 W	0736 1935	1.4 0.5	43 15
15 F	0539 1744	0.2 1.5	6 46	30 Sa	0408 1726	0.2 1.5	6 46	15 Su	0326 1230 1443 1657	0.6 1.1 1.0 1.1	18 34 30 34	30 M	0229 1144 1431 1644	0.6 1.1 1.0 1.1	18 34 30 34	15 W	0837 2026	1.4 0.5	43 15	30 Th	0756 2006	1.6 0.2	49 6
																31 Tu	0224 1045 1950	0.7 1.1 0.8	21 34 24				

Time meridian 90° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
 Heights are referred to mean lower low water which is the chart datum of soundings.

Mobile, Alabama, 2016

Times and Heights of High and Low Waters

July						August						September											
Time			Height			Time			Height			Time			Height			Time					
	h m	ft cm		h m	ft cm		h m	ft cm		h m	ft cm		h m	ft cm		h m	ft cm		h m	ft cm			
1 F	0842 2045	1.7 0.1	52 3	16 Sa	0853 2048	1.7 0.2	52 6	1 M	1026 2152	1.9 0.2	58 6	16 Tu	1036 2116	1.9 0.3	58 9	1 Th	1246 2108	1.6 0.8	49 24	16 F	0309 0621	1.1 1.0	34 30
2 Sa	0937 2126	1.9 0.0	58 0	17 Su	0951 2117	1.8 0.1	55 3	2 Tu	1124 2220	1.9 0.3	58 9	17 W	1138 2142	1.9 0.4	58 12	2 F	0351 0720 1403 2058	1.1 1.0 1.5 1.0	34 30 46 30	17 Sa	0231 0738 1514 2027	1.2 0.9 1.5 1.1	37 27 46 34
3 Su	1031 2209	1.9 -0.1	58 -3	18 M	1045 2147	1.9 0.1	58 3	3 W	1217 2236	1.8 0.4	55 12	18 Th	1239 2201	1.8 0.5	55 15	3 Sa	0315 0822 1532 2054	1.2 0.9 1.3 1.1	37 27 40 34	18 Su	0139 0841 1656 2010	1.3 0.7 1.4 1.3	40 21 43 40
4 M	1123 2249	2.0 0.0	61 0	19 Tu	1135 2217	1.9 0.1	58 3	4 Th	1307 2233	1.7 0.5	52 15	19 F	1346 2205	1.7 0.7	52 21	4 Su	0227 0913 1657 2045	1.3 0.9 1.3 1.1	40 27 40 34	19 M	0115 0944	1.5 0.6	46 18
●				O																			
5 Tu	1212 2324	1.9 0.1	58 3	20 W	1224 2243	1.9 0.1	58 3	5 F	1357 2224	1.5 0.7	46 21	20 Sa	0501 0750 1505 2156	1.1 1.0 1.5 0.9	34 30 46 27	5 M	0225 1002	1.5 0.8	46 24	20 Tu	0138 1100	1.7 0.5	52 15
6 W	1259 2347	1.8 0.2	55 6	21 Th	1314 2303	1.8 0.2	55 6	6 Sa	0543 0839 1450 2217	1.1 1.0 1.4 0.8	34 30 43 24	21 Su	0430 0903 1631 2143	1.2 0.9 1.4 1.0	37 27 43 30	6 Tu	0246 1056	1.6 0.8	49 24	21 W	0219 1313	1.9 0.5	58 15
7 Th	1344 2353	1.7 0.3	52 9	22 F	1406 2313	1.7 0.4	52 12	7 Su	0505 0946 1541 2204	1.2 1.0 1.2 0.9	37 30 37 27	22 M	0354 1016 1808 2119	1.3 0.8 1.2 1.1	40 24 37 34	7 W	0317 1218	1.7 0.8	52 24	22 Th	0307 1511	2.0 0.5	61 15
8 F	1426 2346	1.5 0.5	46 15	23 Sa	1501 2310	1.6 0.6	49 18	8 M	0435 1100 1628 2119	1.3 0.9 1.1 1.0	40 27 34 30	23 Tu	0341 1158	1.5 0.8	46 24	8 Th	0353 1459	1.8 0.7	55 21	23 F	0359 1638	2.0 0.4	61 12
9 Sa	1502 2337	1.4 0.6	43 18	24 Su	0643 0915 1557 2303	1.0 0.9 1.3 0.7	30 27 40 21	9 Tu	0437 1304	1.4 0.8	43 24	24 W	0404 1541	1.7 0.7	52 21	9 F	0434 1651	1.8 0.7	55 21	24 Sa	0452 1749	1.9 0.5	58 15
10 Su	0735 1020 1527 2317	1.1 1.0 1.2 0.7	34 30 37 21	25 M	0609 1102 1652 2242	1.1 0.9 1.1 0.9	34 27 34 27	10 W	0459 1805	1.6 0.7	49 21	25 Th	0443 1731	1.8 0.5	55 15	10 Sa	0520 1759	1.8 0.6	55 18	25 Su	0547 1843	1.8 0.5	55 15
●				O																			
11 M	0635 2151	1.2 0.8	37 24	26 Tu	0541 1733	1.3 0.8	40 24	11 Th	0531 1838	1.7 0.6	52 18	26 F	0530 1840	1.9 0.4	58 12	11 Su	0614 1846	1.8 0.5	55 15	26 M	0649 1922	1.7 0.6	52 18
●				O																			
12 Tu	0621 2012	1.3 0.7	40 21	27 W	0544 1826	1.5 0.6	46 18	12 F	0612 1912	1.7 0.5	52 15	27 Sa	0625 1931	1.9 0.3	58 9	12 M	0723 1925	1.8 0.5	55 15	27 Tu	0822 1942	1.5 0.8	46 24
13 W	0638 1948	1.4 0.5	43 15	28 Th	0615 1912	1.7 0.4	52 12	13 Sa	0704 1945	1.8 0.4	55 12	28 Su	0733 2013	1.9 0.4	58 12	13 Tu	0900 1957	1.7 0.5	52 15	28 W	1107 1933	1.4 0.9	43 27
14 Th	0711 1958	1.6 0.4	49 12	29 F	0703 1956	1.8 0.2	55 6	14 Su	0811 2017	1.8 0.3	55 9	29 M	0900 2047	1.8 0.4	55 12	14 W	1037 2025	1.7 0.6	52 18	29 Th	0142 0557 1256 1910	1.2 1.0 1.3 1.0	37 30 40 30
15 F	0758 2020	1.7 0.3	52 9	30 Sa	0805 2037	1.9 0.1	58 3	15 M	0926 2047	1.8 0.3	55 9	30 Tu	1030 2112	1.7 0.6	52 18	15 Th	1201 2043	1.6 0.8	49 24	30 F	0109 0712 1449 1900	1.3 0.9 1.2 1.1	40 27 37 34
				31 Su	0918 2116	1.9 0.1	58 3					31 W	1141 2120	1.7 0.7	52 21								

Time meridian 90° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
 Heights are referred to mean lower low water which is the chart datum of soundings.

Mobile, Alabama, 2016

Times and Heights of High and Low Waters

October					November					December						
	Time	Height		Time	Height		Time	Height		Time	Height		Time	Height		
1 Sa	0025 0805 1640 1851	1.4 0.8 1.2 1.1	43 24 37 34	16 Su	0826 2341	0.4 1.6	12 49	1 Tu	0950	0.1	3	16 W	1114	-0.3	-9	
2 Su	0020 0849	1.5 0.7	46 21	17 M	0924	0.3	9	2 W	0020 1029	1.7 0.1	52 3	17 Th	0029 1217	-1.8 -0.3	55 -9	
3 M	0037 0929	1.6 0.6	49 18	18 Tu	0011 1031	1.8 0.2	55 6	3 Th	0055 1116	1.7 0.1	52 3	18 F	0116 1311	-1.7 -0.2	52 -6	
4 Tu	0104 1010	1.7 0.5	52 15	19 W	0051 1159	1.9 0.1	58 3	4 F	0133 1211	1.7 0.1	52 3	19 Sa	0203 1351	-1.6 -0.1	49 -3	
5 W	0137 1058	1.8 0.5	55 15	20 Th	0139 1329	2.0 0.1	61 3	5 Sa	0213 1305	1.7 0.1	52 3	20 Su	0248 1412	-1.4 0.0	43 0	
6 Th	0215 1208	1.8 0.5	55 15	21 F	0230 1437	1.9 0.2	58 6	6 Su	0256 1350	1.6 0.1	49 3	21 M	0326 1411	-1.2 0.2	37 -6	
7 F	0256 1349	1.8 0.5	55 15	22 Sa	0322 1534	1.8 0.3	55 9	7 M	0340 1426	1.5 0.2	46 6	22 Tu	0347 1359	-1.0 0.3	30 9	
8 Sa	0341 1507	1.8 0.5	55 15	23 Su	0412 1619	1.7 0.4	52 12	8 Tu	0422 1454	1.3 0.3	40 9	23 W	1335 2228	-0.4 1.0	12 30	
9 Su	0429 1610	1.8 0.5	55 15	24 M	0458 1643	1.5 0.5	46 15	9 W	0500 1511	1.1 0.4	34 12	24 Th	0858 2152	-0.4 1.1	12 34	
10 M	0521 1704	1.7 0.5	52 15	25 Tu	0541 1629	1.2 0.7	37 21	10 Th	1516 2310	0.6 1.1	18 34	25 F	0822 2137	-0.2 1.2	6 37	
11 Tu	0625 1748	1.6 0.6	49 18	26 W	0017 0419	1.1 0.9	34 27	11 F	0657 2238	0.6 1.2	18 37	26 Sa	0822 2150	-0.0 1.3	0 40	
12 W	0826 1819	1.4 0.7	43 21	27 Th	0652 1325	0.8 0.9	24 27	12 Sa	0736 2220	0.3 1.4	9 43	27 Su	0841 2215	-0.1 1.4	-3 43	
13 Th	0124 0440	1.2 1.1	37 34	28 F	0731 2254	0.6 1.4	18 43	13 Su	0822 2234	0.0 1.6	0 49	28 M	0908 2246	-0.2 1.5	-6 46	
14 F	0047 0621	1.2 0.9	37 27	29 Sa	0806 2300	0.4 1.5	12 46	14 M	0913 2305	-0.2 1.7	-6 52	29 Tu	0939 2320	-0.3 1.5	-9 46	
15 Sa	0010 0729	1.3 0.6	40 18	30 Su	0840 2321	0.3 1.6	9 49	15 Tu	1010 2345	-0.3 1.8	-9 55	30 W	1013 2355	-0.3 1.5	-9 46	
16 ○	1538 1755	1.2 1.1	37 34	31 M	0914 2349	0.2 1.7	6 52					15 Th	1119	-0.7	-21	
	2335	1.4	43										30 F	1038	-0.6	-18
													31 Sa	0021 1059	1.3 -0.6	40 -18

Time meridian 90° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

South Pass, Louisiana, 2016

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		h m	ft cm		h m	ft cm		h m	ft cm		h m	ft cm		
1 F 0802 1800	0.0 0.4	0 12		16 Sa 0559 1541	0.0 0.4	0 12	1 M 0227 1505	-0.3 0.5	-9 15	16 Tu 0204 1521	-0.6 0.9	-18 27	1 Tu 0041 1332	-0.2 0.8	-6 24	16 W 0123 1426	-0.3 1.1	-9 34							
2 Sa 0610 1652	0.1 0.5	3 15		17 Su 0213 1544	-0.2 0.6	-6 18	2 Tu 0240 1547	-0.4 0.6	-12 18	17 W 0255 1625	-0.6 0.9	-18 27	2 W 0127 1432	-0.3 0.8	-9 24	17 Th 0217 1543	-0.3 1.0	-9 30							
3 Su 0359 1642	-0.1 0.6	-3 18		18 M 0237 1615	-0.4 0.7	-12 21	3 W 0308 1636	-0.5 0.7	-15 21	18 Th 0342 1728	-0.6 0.9	-18 27	3 Th 0210 1538	-0.3 0.9	-9 27	18 F 0303 1705	-0.2 0.9	-6 27							
4 M 0335 1657	-0.2 0.7	-6 21		19 Tu 0317 1657	-0.6 0.9	-18 27	4 Th 0341 1726	-0.6 0.8	-18 24	19 F 0424 1827	-0.6 0.9	-18 27	4 F 0252 1648	-0.4 0.9	-12 27	19 Sa 0339 1821	-0.1 0.8	-3 24							
5 Tu 0349 1724	-0.3 0.8	-9 24		20 W 0401 1745	-0.7 0.9	-21 27	5 F 0416 1816	-0.7 0.9	-21 27	20 Sa 0500 1919	-0.5 0.8	-15 24	5 Sa 0333 1757	-0.4 1.0	-12 30	20 Su 0406 1929	0.0 0.8	0 24							
6 W 0414 1758	-0.5 0.9	-15 27		21 Th 0444 1833	-0.8 1.0	-24 30	6 Sa 0453 1906	-0.7 0.9	-21 27	21 Su 0530 2006	-0.4 0.7	-12 21	6 Su 0414 1904	-0.4 0.9	-12 27	21 M 0419 2032	0.2 0.7	6 21							
7 Th 0445 1835	-0.6 1.0	-18 30		22 F 0525 1919	-0.8 0.9	-24 27	7 Su 0531 1956	-0.7 0.9	-21 27	22 M 0552 2048	-0.3 0.6	-9 18	7 M 0452 2011	-0.3 0.9	-9 27	22 Tu 0416 1011	0.3 0.5	9 15							
8 F 0519 1915	-0.6 1.0	-18 30		23 Sa 0603 2001	-0.7 0.9	-21 27	8 M 0608 2047	-0.6 0.8	-18 24	23 Tu 0602 2129	-0.1 0.5	-3 15	8 Tu 0526 2123	-0.1 0.7	-3 21	23 W 0352 1612	0.4 0.3	12 9							
9 Sa 0555 1955	-0.7 1.0	-21 30		24 Su 0637 2039	-0.6 0.8	-18 24	9 Tu 0643 2139	-0.5 0.7	-15 21	24 W 0557 2210	0.0 0.4	0 12	9 W 0547 1115	0.1 0.2	3 6	24 Th 0258 1719	0.4 0.3	12 9							
10 Su 0633 2036	-0.7 1.0	-21 30		25 M 0704 2113	-0.5 0.7	-15 21	10 W 0710 2235	-0.3 0.5	-9 15	25 Th 0533 1135	0.1 0.2	3 6	10 Th 0536 1020	0.3 0.4	9 12	25 F 0929 1824	0.8 0.2	24 6							
11 M 0711 2117	-0.6 0.9	-18 27		26 Tu 0722 2143	-0.4 0.5	-12 15	11 Th 0716 2344	-0.1 0.3	-3 9	26 F 0442 1123	0.2 0.4	6 12	11 F 0116 0348	0.4 0.3	12 9	26 Sa 0947 1933	0.9 0.1	27 3							
12 Tu 0747 2158	-0.6 0.8	-18 24		27 W 0728 2205	-0.3 0.4	-9 12	12 F 0630 1252	0.1 0.2	3 6	27 Sa 0010 0255	0.2 0.1	6 3	12 Sa 1042 2118	0.8 -0.1	24 -3	27 Su 1015 2047	1.0 0.1	30 3							
13 W 0819 2236	-0.4 0.6	-12 18		28 Th 0714 2206	-0.1 0.2	-3 6	13 Sa 1255 2354	0.4 -0.2	12 -6	28 Su 1203 2345	0.6 -0.1	18 -3	13 Su 1125 2300	1.0 -0.2	30 -6	28 M 1049 2202	1.0 0.0	30 0							
14 Th 0836 2255	-0.3 0.4	-9 12		29 F 0633 1450	-0.1 0.2	-3 6	14 Su 1330	0.6	18	29 M 1242	0.7	21	14 M 1217	1.1	34	29 Tu 1130 2310	1.1	34							
15 F 0817 1648	-0.1 0.2	-3 6		30 Sa 0508 1419	0.0 0.3	0 9	15 M 0108 1421	-0.4 0.8	-12 24				15 Tu 0019 1317	-0.3 1.1	-9 34	30 W 1218	1.1	34							
				31 Su 0305 1432	-0.1 0.4	-3 12										31 Th 0010 1317	-0.1 1.1	-3 34							
				○												○									

Time meridian 90° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

South Pass, Louisiana, 2016

Times and Heights of High and Low Waters

April						May						June											
	Time	Height		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		h m	ft cm						
1 F	0103 1430	-0.1 1.1	-3 34	16 Sa	0152 1558	0.2 0.9	6 27	1 Su	0037 1445	0.2 1.0	6 30	16 M	0739 1637	0.9 0.5	27 15	1 W	0617 1541	1.0 0.2	30 6	16 Th	0558 1640	1.2 0.0	37 0
2 Sa	0151 1601	-0.1 1.1	-3 34	17 Su	0211 1102	0.4 0.7	12 21	2 M	0111 0953	0.3 0.8	9 24	17 Tu	0701 1624	1.0 0.4	30 12	2 Th	0618 1624	1.2 -0.1	37 -3	17 F	0619 1705	1.3 -0.1	40 -3
3 Su	0235 1741	0.0 1.0	0 30	18 M	0209 0903	0.5 0.7	15 21	3 Tu	0126 0806	0.5 0.8	15 24	18 W	0651 1643	1.1 0.3	34 9	3 F	0640 1712	1.4 -0.2	43 -6	18 Sa	0646 1734	1.3 -0.2	40 -6
4 M	0313 1922	0.1 0.9	3 27	19 Tu	0135 0815	0.6 0.8	18 24	4 W	0050 0725	0.7 1.0	21 30	19 Th	0658 1709	1.2 0.2	37 6	4 Sa	0714 1803	1.6 -0.4	49 -12	19 Su	0716 1806	1.4 -0.2	43 -6
5 Tu	0342 0955	0.3 0.5	9 15	20 W	0758 1641	0.9 0.4	27 12	5 Th	0719 1648	1.2 0.1	37 3	20 F	0715 1739	1.3 0.1	40 3	5 Su	0753 1854	1.6 -0.4	49 -12	20 M	0749 1839	1.4 -0.2	43 -6
6 W	0349 0850	0.5 0.7	15 21	21 Th	0800 1722	1.0 0.3	30 9	6 F	0736 1749	1.4 -0.1	43 -3	21 Sa	0738 1812	1.4 0.0	43 0	6 M	0835 1944	1.6 -0.4	49 -12	21 Tu	0823 1912	1.4 -0.2	43 -6
	1354 2109	0.4 0.8	12 24	○	●			○	●		○	○		○	○		○						
7 Th	0253 0830	0.6 0.9	18 27	22 F	0813 1803	1.1 0.2	34 6	7 Sa	0808 1850	1.5 -0.2	46 -6	22 Su	0805 1847	1.4 -0.1	43 -3	7 Tu	0915 2031	1.6 -0.3	49 -9	22 W	0857 1947	1.4 -0.2	43 -6
●	1707 0.1	0.1	3 3																				
8 F	0842 1828	1.1 0.0	34 0	23 Sa	0834 1846	1.2 0.1	37 3	8 Su	0847 1952	1.6 -0.2	49 -6	23 M	0835 1925	1.5 -0.1	46 -3	8 W	0952 2111	1.4 -0.1	43 -3	23 Th	0931 2021	1.4 -0.2	43 -6
9 Sa	0913 1949	1.3 -0.1	40 -3	24 Su	0900 1933	1.3 0.1	40 3	9 M	0929 2052	1.6 -0.2	49 -6	24 Tu	0907 2006	1.5 -0.1	46 -3	9 Th	1022 2142	1.3 0.0	40 0	24 F	1004 2051	1.3 -0.1	40 -3
10 Su	0954 2108	1.4 -0.2	43 -6	25 M	0931 2023	1.4 0.1	43 3	10 Tu	1012 2149	1.6 -0.1	49 -3	25 W	0941 2047	1.5 -0.1	46 -3	10 F	1037 2157	1.1 0.2	34 6	25 Sa	1031 2114	1.1 0.1	34 3
11 M	1040 2224	1.4 -0.2	43 -6	26 Tu	1005 2117	1.4 0.0	43 0	11 W	1052 2240	1.5 0.0	46 0	26 Th	1017 2130	1.4 0.0	43 0	11 Sa	1011 2147	0.9 0.3	27 9	26 Su	1025 2116	0.9 0.2	27 6
12 Tu	1129 2332	1.4 -0.1	43 -3	27 W	1044 2211	1.4 0.0	43 0	12 Th	1126 2321	1.3 0.1	40 3	27 F	1051 2210	1.3 0.0	40 0	12 Su	0813 2049	0.8 0.4	24 12	27 M	0656 2022	0.8 0.4	24 12
○				○	○			○	○		○	○		○	○		○						
13 W	1220	1.3	40	28 Th	1126 2304	1.4 0.0	43 0	13 F	1145 2347	1.1 0.3	34 9	28 Sa	1121 2244	1.2 0.2	37 6	13 M	0636 1755	0.8 0.4	24 12	28 Tu	0523 1526	0.8 0.3	24 9
○				○	○			○	○		○	○		○	○		○						
14 Th	0030 1315	0.0 1.2	0 37	29 F	1214 2353	1.3 0.1	40 3	14 Sa	1107 2350	1.0 0.4	30 12	29 Su	1115 2303	1.0 0.3	30 9	14 Tu	0556 1625	0.9 0.3	27 9	29 W	0503 1516	1.0 0.1	30 3
15 F	0117 1418	0.1 1.0	3 30	30 Sa	1311 2315	1.2 0.5	37	15 Su	0900 2315	0.9 0.5	27 15	30 M	0815 2247	0.8 0.5	24 15	15 W	0548 1622	1.0 0.1	30 3	30 Th	0514 1550	1.2 -0.2	37 -6

Time meridian 90° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
 Heights are referred to mean lower low water which is the chart datum of soundings.

South Pass, Louisiana, 2016

Times and Heights of High and Low Waters

July					August					September									
Time		Height			Time		Height			Time		Height			Time		Height		
	h m	ft	cm	43		h m	ft	cm	40		h m	ft	cm	46		h m	ft	cm	40
1 F	0543 1632	1.4 -0.3	43 -9		16 Sa	0546 1644	1.3 -0.2	40 -6		1 M	0702 1750	1.5 -0.2	46 -6		16 Tu	0651 1717	1.5 0.0	46 0	
2 Sa	0622 1717	1.5 -0.4	46 -12		17 Su	0623 1716	1.4 -0.2	43 -6		2 Tu	0748 1826	1.5 -0.1	46 -3		17 W	0739 1749	1.5 0.1	46 3	
3 Su	0704 1803	1.6 -0.4	49 -12		18 M	0702 1748	1.4 -0.2	43 -6		3 W	0830 1855	1.4 0.0	43 0		18 Th	0828 1818	1.4 0.2	43 6	
4 M	0748 1847	1.6 -0.4	49 -12		19 Tu	0741 1820	1.4 -0.2	43 -6		4 Th	0908 1913	1.2 0.2	37 6		19 F	0918 1840	1.3 0.4	40 12	
●					○					●					4 Su	0512 1111 1557 2255	0.8 0.9 0.8 1.1	24 27 24 34	
5 Tu	0830 1927	1.5 -0.3	46 -9		20 W	0819 1852	1.4 -0.2	43 -6		5 F	0939 1915	1.1 0.3	34 9		20 Sa	1013 1844	1.2 0.6	37 18	
6 W	0908 2000	1.4 -0.2	43 -6		21 Th	0858 1922	1.3 -0.1	40 -3		6 Sa	1002 1855	0.9 0.5	27 15		21 Su	0124 0402 1120 1806	0.8 0.7 1.0 0.7	24 21 30 21	
7 Th	0940 2024	1.2 0.0	37 0		22 F	0937 1947	1.2 0.0	37 0		7 Su	0959 1804	0.8 0.5	24 15		22 M	0024 0758	0.9 0.7	27 21	
8 F	1001 2033	1.1 0.1	34 3		23 Sa	1013 2000	1.1 0.2	34 6		8 M	0210 1629	0.8 0.5	24 15		23 Tu	0029 1106	1.1 0.5	34 15	
9 Sa	1000 2018	0.9 0.3	27 9		24 Su	1036 1946	0.9 0.4	27 12		9 Tu	0156 1436	0.9 0.5	27 15		24 W	0102 1232	1.3 0.3	40 9	
10 Su	0825 1927	0.7 0.4	21 12		25 M	0425 1817	0.7 0.5	21 15		10 W	0214 1415	1.0 0.3	30 9		25 Th	0152 1333	1.4 0.1	43 3	
11 M	0519 1740	0.8 0.4	24 12		26 Tu	0318 1408	0.9 0.3	27 9		11 Th	0249 1433	1.2 0.2	37 6		26 F	0252 1427	1.6 0.1	49 3	
●					○					●					11 Su	0320 1438	1.6 0.4	49 12	
12 Tu	0429 1558	0.9 0.3	27 9		27 W	0320 1417	1.1 0.1	34 3		12 F	0333 1502	1.3 0.1	40 3		12 M	0430 1517	1.6 0.4	49 12	
13 W	0426 1538	1.0 0.1	30 3		28 Th	0349 1456	1.2 -0.1	37 -3		13 Sa	0422 1535	1.4 0.1	43 3		28 Su	0504 1603	1.6 0.1	49 3	
14 Th	0443 1551	1.1 0.0	34 0		29 F	0432 1540	1.4 -0.2	43 -6		14 Su	0513 1609	1.4 0.0	43 0		29 Tu	0607 1643	1.6 0.2	49 6	
15 F	0512 1615	1.2 -0.1	37 -3		30 Sa	0521 1625	1.5 -0.3	46 -9		15 M	0602 1643	1.5 0.0	46 0		30 Th	0705 1717	1.5 0.3	46 9	
					31 Su	0612 1709	1.5 -0.3	46 -9							31 W	0756 1740	1.4 0.5	43 15	

Time meridian 90° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to mean lower low water which is the chart datum of soundings.

South Pass, Louisiana, 2016

Times and Heights of High and Low Waters

October						November						December											
	Time	Height		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	0418 1129 1353 2055	0.9 1.1 1.0 1.3	27 34 30 40	16 Su	0446 2020	0.6 1.6	18 49	1 Tu	0638 2045	0.4 1.6	12 49	16 W	0727 2112	-0.1 1.8	-3 55	1 Th	0712 2055	-0.1 1.4	-3 43	16 F	0813 2146	-0.5 1.3	-15 40
2 Su	0522 2106	0.8 1.4	24 43	17 M	0603 2051	0.5 1.7	15 52	2 W	0722 2115	0.4 1.7	12 52	17 Th	0829 2157	-0.1 1.7	-3 52	2 F	0750 2128	-0.1 1.4	-3 43	17 Sa	0858 2222	-0.3 1.1	-9
3 M	0624 2127	0.8 1.5	24 46	18 Tu	0721 2131	0.3 1.9	9 58	3 Th	0811 2149	0.4 1.7	12 52	18 F	0930 2240	-0.1 1.6	-3 49	3 Sa	0829 2202	-0.1 1.3	-3 40	18 Su	0933 2243	-0.2 0.9	-6 27
4 Tu	0728 2154	0.7 1.6	21 49	19 W	0839 2218	0.3 1.9	9 58	4 F	0902 2225	0.3 1.6	9 49	19 Sa	1024 2319	0.1 1.4	3 43	4 Su	0907 2235	-0.1 1.2	-3 37	19 M	0951 2223	0.0 0.7	0 21
5 W	0838 2228	0.6 1.6	18 49	20 Th	0955 2307	0.2 1.9	6 58	5 Sa	0953 2305	0.3 1.6	9 49	20 Su	1109 2343	0.2 1.2	6 37	5 M	0944 2303	0.0 1.1	0 34	20 Tu	0936 1950	0.1 0.5	3 15
6 Th	0949 2309	0.6 1.7	18 52	21 F	1105	0.3	9	6 Su	1043 2349	0.3 1.5	9 46	21 M	1138 2306	0.4 1.0	12 30	6 Tu	1015 2304	0.1 0.9	3 27	21 W	0811 1758	0.2 0.6	6 18
7 F	1055 2356	0.6 1.7	18 52	22 Sa	0000 1207	1.8 0.4	55 12	7 M	1129	0.4	12	22 Tu	1141 2035	0.5 0.9	15 27	7 W	1033 2001	0.2 0.7	6 21	22 Th	0439 1723	0.1 0.7	3 21
8 Sa	1153 ●	0.5	15	23 Su	0057 1257	1.6 0.5	49 15	8 Tu	0038 1208	1.4 0.5	43 15	23 W	1054 1911	0.6 0.9	18 27	8 Th	1017 1823	0.4 0.7	12 21	23 F	0353 1722	0.0 0.8	0 24
9 Su	0053 1243	1.7 0.5	52 15	24 M	0202 1334	1.5 0.6	46 18	9 W	0149 1239 2120	1.2 0.6 1.0	37 18 30	24 Th	0406 1838	0.6 1.0	18 30	9 F	0300 1752	0.3 0.9	9 27	24 Sa	0402 1738	-0.2 0.9	-6 27
10 M	0203 1328	1.6 0.5	49 15	25 Tu	0345 1353 2219	1.3 0.8 1.1	40 24 34	10 Th	0111 0510 1251 1940	0.9 1.0 0.7 1.0	27 30 21 30	25 F	0409 1832	0.4 1.1	12 34	10 Sa	0317 1755	0.1 1.1	3 34	25 Su	0423 1803	-0.3 0.9	-9 27
11 Tu	0332 1408	1.6 0.6	49 18	26 W	0139 0620 1347 2030	1.0 1.1 0.9 1.1	30 34 27 34	11 F	0229 0847 1213 1903	0.8 0.9 0.8 1.2	24 27 24 37	26 Sa	0431 1842	0.3 1.2	9 37	11 Su	0358 1818	-0.2 1.2	-6 37	26 M	0450 1833	-0.4 1.0	-12 30
12 W	0514 1442	1.5 0.7	46 21	27 Th	0304 0847 1259 1948	0.9 1.0 0.9 1.2	27 30 27 37	12 Sa	0328 1858	0.5 1.3	15 40	27 Su	0459 1901	0.1 1.3	3 40	12 M	0446 1854	-0.4 1.4	-12 43	27 Tu	0520 1905	-0.4 1.0	-12 30
13 Th	0657 1506 2115	1.4 0.9 1.1	43 27 34	28 F	0355 1936	0.8 1.3	24 40	13 Su	0426 1916	0.3 1.5	9 46	28 M	0529 1925	0.0 1.4	0 43	13 Tu	0537 1936	-0.5 1.5	-15 46	28 W	0551 1939	-0.5 1.1	-15 34
14 F	0149 0846 1508 2022	1.0 1.3 1.0 1.2	30 40 30 37	29 Sa	0437 1942	0.7 1.4	21 43	14 M	0524 1948	0.1 1.7	3 52	29 Tu	0601 1953	0.0 1.4	0 43	14 W	0630 2020	-0.6 1.5	-18 46	29 Th	0623 2013	-0.5 1.1	-15 34
15 Sa	0326 1113 1408 ○	0.8 1.2 1.1 2007	24 37 34 43	30 Su	0517 1957	0.6 1.5	18 46	15 Tu	0625 2028	-0.1 1.8	-3 55	30 W	0635 2023	-0.1 1.4	-3 43	15 Th	0722 2105	-0.6 1.4	-18 43	30 F	0655 2047	-0.5 1.0	-15 30
				31 M	0557 2018	0.5 1.6	15 49									31 Sa	0726 2121	-0.5 1.0	-15 30				

Time meridian 90° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Grand Isle (East Point), Louisiana, 2016

Times and Heights of High and Low Waters

Time meridian 90° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to mean lower low water which is the chart datum of soundings.

Grand Isle (East Point), Louisiana, 2016

Times and Heights of High and Low Waters

April						May						June											
	Time	Height		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		h m	ft cm						
1 F	0223 1556	0.0 1.0	0 30	16 Sa	0326 1741	0.2 0.8	6 24	1 Su	0153 1604	0.2 0.8	6 24	16 M	0025 0852 1749	0.5 0.8 0.5	15 24 15	1 W	0719 1705	0.9 0.2	27 6	16 Th	0707 1802	1.0 0.1	30 3
2 Sa	0315 1723	0.0 0.9	0 27	17 Su	0353 2009	0.4 0.7	12 21	2 M	0226 1045 1446 1937	0.4 0.7 0.6 0.7	12 21 18 21	17 Tu	0809 1747	0.8 0.4	24 12	2 Th	0724 1747	1.1 0.0	34 0	17 F	0727 1828	1.1 0.0	34 0
3 Su	0402 1905	0.1 0.9	3 27	18 M	0355 1026 1629 2248	0.5 0.6 0.5 0.6	15 18 15 18	3 Tu	0235 0903 1614	0.5 0.7 0.5	15 21 15	18 W	0756 1807	0.9 0.2	27 6	3 F	0749 1836	1.2 -0.2	37 -6	18 Sa	0755 1858	1.2 -0.1	37 -3
4 M	0445 2055	0.2 0.8	6 24	19 Tu	0308 0922 1725	0.5 0.7 0.4	15 21 12	4 W	0823 1716	0.8 0.3	24 9	19 Th	0802 1834	1.0 0.1	30 3	4 Sa	0825 1926	1.3 -0.3	40 -9	19 Su	0826 1931	1.2 -0.1	37 -3
5 Tu	0518 1102 1523 2259	0.3 0.5 0.4 0.7	9 15 12 21	20 W	0858 1810	0.8 0.3	24 9	5 Th	0819 1815	1.0 0.1	30 3	20 F	0819 1903	1.1 0.1	34 3	5 Su	0907 2018	1.4 -0.3	43 -9	20 M	0900 2004	1.3 -0.1	40 -3
6 W	0526 0949 1713	0.5 0.6 0.3	15 18 9	21 Th	0859 1850	0.9 0.2	27 6	6 F	0841 1913	1.2 -0.1	37 -3	21 Sa	0843 1936	1.2 0.0	37 0	6 M	0950 2108	1.4 -0.2	43 -6	21 Tu	0935 2038	1.3 -0.1	40 -3
7 Th	0927 1838	0.7 0.1	21 3	22 F	0914 1929	1.0 0.2	30 6	7 Sa	0916 2013	1.3 -0.1	40 -3	22 Su	0912 2011	1.2 0.0	37 0	7 Tu	1033 2155	1.3 -0.2	40 -6	22 W	1010 2112	1.3 -0.1	40 -3
●				○				●				○											
8 F	0944 1955	0.9 0.0	27 0	23 Sa	0938 2010	1.0 0.1	30 3	8 Su	0959 2113	1.4 -0.2	43 -6	23 M	0945 2048	1.3 0.0	40 0	8 W	1111 2237	1.2 -0.1	37 -3	23 Th	1046 2144	1.2 -0.1	37 -3
9 Sa	1021 2111	1.1 -0.1	34 -3	24 Su	1007 2055	1.1 0.1	34 3	9 M	1044 2213	1.4 -0.1	43 -3	24 Tu	1019 2128	1.3 0.0	40 0	9 Th	1141 2308	1.1 0.1	34 3	24 F	1118 2211	1.1 0.0	34 0
10 Su	1106 2227	1.1 -0.1	34 -3	25 M	1041 2143	1.1 0.1	34 3	10 Tu	1130 2310	1.3 -0.1	40 -3	25 W	1055 2208	1.3 0.0	40 0	10 F	1154 2324	1.0 0.2	30 6	25 Sa	1142 2228	1.0 0.2	30 6
11 M	1157 2340	1.2 -0.1	37 -3	26 Tu	1119 2235	1.2 0.1	37 3	11 W	1213	1.2	37	26 Th	1132 2248	1.2 0.0	37 0	11 Sa	1119 2312	0.8 0.3	24 9	26 Su	1112 2222	0.8 0.3	24 9
12 Tu	1250	1.2	37	27 W	1201 2328	1.2 0.1	37 3	12 Th	0002 1249	0.0 1.1	0 34	27 F	1207 2325	1.1 0.1	34 3	12 Su	0920 2158	0.7 0.4	21 12	27 M	0738 2059	0.7 0.4	21 12
13 W	0050 1347	0.0 1.1	0 34	28 Th	1246	1.1	34	13 F	0045 1308	0.2 1.0	6 30	28 Sa	1234 2355	1.0 0.2	30 6	13 M	0749 1838	0.8 0.4	24 12	28 Tu	0625 1631	0.8 0.3	24 9
●				○				●				○											
14 Th	0152 1447	0.0 1.0	0 30	29 F	0020 1336	0.1 1.1	3 34	14 Sa	0113 1226	0.3 0.8	9 24	29 Su	1207	0.8	24	14 Tu	0708 1739	0.8 0.3	24 9	29 W	0610 1635	0.9 0.1	27 3
15 F	0245 1556	0.1 0.9	3 27	30 Sa	0109 1433	0.1 1.0	3 30	15 Su	0117 1018	0.4 0.7	12 21	30 M	0006 0902 2324	0.3 0.7 0.5	9 21 15	15 W	0658 1742	0.9 0.2	27 6	30 Th	0624 1711	1.1 -0.1	34 -3
								31 Tu	0745 1639	0.8 0.4	24 12												

Time meridian 90° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Grand Isle (East Point), Louisiana, 2016

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	0655 1755	1.2 -0.2	37 -6	16 Sa	0658 1809	1.2 0.0	37 0	1 M	0820 1921	1.4 -0.1	43 -3	16 Tu	0804 1847	1.3 0.1	40 3	1 Th	1007 1940	1.2 0.6	37 18	16 F	1032 1847	1.2 0.7	37 21
2 Sa	0736 1842	1.3 -0.3	40 -9	17 Su	0735 1842	1.2 -0.1	37 -3	2 Tu	0907 2000	1.3 0.0	40 0	17 W	0854 1921	1.3 0.2	40 6	2 F	1057 1932	1.1 0.7	34 21	17 Sa	0433 1215	0.7 1.1	21 34
3 Su	0820 1929	1.4 -0.3	43 -9	18 M	0814 1915	1.3 -0.1	40 -3	3 W	0950 2031	1.2 0.1	37 3	18 Th	0945 1950	1.3 0.3	40 9	3 Sa	1153 1850	1.0 0.8	30 24	18 Su	0642 2305	0.7 1.1	21 34
4 M	0905 2014	1.4 -0.2	43 -6	19 Tu	0854 1948	1.3 -0.1	40 -3	4 Th	1028 2052	1.1 0.3	34 9	19 F	1039 2012	1.2 0.4	37 12	4 Su	0035 0702	0.9 0.8	27 24	19 M	0830 2334	0.6 1.3	18 40
●				○																			
5 Tu	0948 2056	1.3 -0.2	40 -6	20 W	0933 2020	1.3 0.0	40 0	5 F	1059 2057	1.0 0.4	30 12	20 Sa	1141 2013	1.0 0.6	30 18	5 M	0023 0915	1.0 0.7	30 21	20 Tu	1010	0.5	15
6 W	1027 2131	1.2 -0.1	37 -3	21 Th	1013 2049	1.2 0.0	37 0	6 Sa	1121 2036	0.9 0.5	27 15	21 Su	0251 0616	0.7 0.6	21 18	6 Tu	0037 1113	1.1 0.6	34 18	21 W	0018 1140	1.4 0.4	43 12
7 Th	1059 2156	1.1 0.1	34 3	22 F	1052 2112	1.1 0.1	34 3	7 Su	1059 1934	0.8 0.6	24 18	22 M	0148 1001	0.9 0.6	27 18	7 W	0107 1237	1.2 0.6	37 18	22 Th	0112 1300	1.5 0.3	46 9
8 F	1118 2205	1.0 0.2	30 6	23 Sa	1128 2122	1.0 0.3	30 9	8 M	0352 1726	0.8 0.6	24 18	23 Tu	0152 1222	1.0 0.5	30 15	8 Th	0147 1339	1.2 0.5	37 15	23 F	0214 1411	1.5 0.3	46 9
○				○																			
9 Sa	1109 2149	0.8 0.3	24 9	24 Su	1144 2100	0.8 0.4	24 12	9 Tu	0327 1527	0.9 0.5	27 15	24 W	0225 1345	1.2 0.3	37 9	9 F	0236 1431	1.3 0.4	40 12	24 Sa	0323 1513	1.5 0.3	46 9
10 Su	0902 2049	0.7 0.4	21 12	25 M	0519 1857	0.7 0.5	21 15	10 W	0340 1525	1.0 0.4	30 12	25 Th	0314 1450	1.3 0.2	40 6	10 Sa	0334 1518	1.3 0.4	40 12	25 Su	0440 1607	1.4 0.4	43 12
○				○																			
11 M	0634 1837	0.7 0.4	21 12	26 Tu	0430 1506	0.9 0.3	27 9	11 Th	0410 1551	1.1 0.3	34 9	26 F	0413 1549	1.4 0.1	43 3	11 Su	0437 1602	1.4 0.4	43 12	26 M	0601 1652	1.4 0.5	43 15
○				○																			
12 Tu	0547 1703	0.8 0.3	24 9	27 W	0435 1532	1.0 0.2	30 6	12 F	0451 1624	1.2 0.2	37 6	27 Sa	0518 1643	1.4 0.1	43 3	12 M	0543 1644	1.4 0.4	43 12	27 Tu	0722 1727	1.3 0.6	40 18
13 W	0542 1654	0.9 0.2	27 6	28 Th	0505 1615	1.2 0.0	37 0	13 Sa	0537 1659	1.2 0.2	37 6	28 Su	0624 1733	1.4 0.2	43 6	13 Tu	0650 1723	1.4 0.4	43 12	28 W	0841 1748	1.2 0.7	37 21
14 Th	0557 1712	1.0 0.1	30 3	29 F	0548 1703	1.3 -0.1	40 -3	14 Su	0626 1736	1.3 0.1	40 3	29 M	0726 1818	1.4 0.2	43 6	14 W	0758 1759	1.3 0.5	40 15	29 Th	1002 1745	1.1 0.8	34 24
15 F	0624 1738	1.1 0.0	34 0	30 Sa	0638 1751	1.3 -0.1	40 -3	15 M	0715 1812	1.3 0.1	40 3	30 Tu	0824 1855	1.3 0.3	40 9	15 Th	0911 1830	1.3 0.6	40 18	30 F	0433 1136	0.8 1.0	24 30
				31 Su	0730 1837	1.4 -0.1	43 -3					31 W	0917 1924	1.3 0.5	40 15					30 ●	1658 2218	0.9 1.0	27 30

Time meridian 90° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Grand Isle (East Point), Louisiana, 2016

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	0559 2208	0.8 1.1	24 34	16 Su	0624 2131	0.5 1.3	15 40	1 Tu	0813 2200	0.3 1.3	9 40	16 W	0855 2232	-0.2 1.4	-6 43	1 Th	0845 2213	-0.1 1.1	-3 34	16 F	0943 2310	-0.5 1.0	-15 30
2 Su	0706 2219	0.7 1.2	21 37	17 M	0738 2205	0.4 1.4	12 43	2 W	0855 2232	0.3 1.3	9 40	17 Th	0955 2319	-0.2 1.4	-6 43	2 F	0921 2247	-0.2 1.1	-6 34	17 Sa	1028 2345	-0.3 0.9	-9
3 M	0806 2242	0.6 1.3	18 40	18 Tu	0850 2249	0.3 1.5	9 46	3 Th	0940 2308	0.2 1.3	6 40	18 F	1054	-0.1	-3	3 Sa	0958 2321	-0.1 1.0	-3 30	18 Su	1104	-0.2	-6
4 Tu	0906 2312	0.6 1.3	18 40	19 W	1004 2338	0.2 1.6	6 49	4 F	1028 2347	0.2 1.3	6 40	19 Sa	0004 1148	1.3 0.0	40 0	4 Su	1033 2354	-0.1 1.0	-3 30	19 M	0007 1124	0.7 -0.1	21 15
5 W	1008 2349	0.5 1.4	15 43	20 Th	1116	0.2	6	5 Sa	1116	0.2	6	20 Su	0043 1233	1.1 0.1	34 3	5 M	1106	-0.1	-3	20 Tu	1113 2114	0.0 0.4	0 12
6 Th	1111	0.5	15	21 F	0031 1225	1.5 0.2	46 6	6 Su	0027 1202	1.3 0.2	40 6	21 M	0107 1303	1.0 0.2	30 6	6 Tu	0021 1131	0.8 0.0	24 0	21 W	0949 1928	0.1 0.4	3 12
7 F	0031 1213	1.4 0.5	43 15	22 Sa	0126 1327	1.5 0.3	46 9	7 M	0111 1245	1.2 0.3	37 9	22 Tu	0030 1308	0.8 0.4	24 12	7 W	0013 1140	0.7 0.2	21 6	22 Th	0603 1848	0.1 0.5	3 15
8 Sa	0120 1310	1.4 0.4	43 12	23 Su	0223 1420	1.3 0.4	40 12	8 Tu	0156 1322	1.1 0.4	34 12	23 W	1213 2039	0.5 0.7	15 21	8 Th	1105 1929	0.3 0.6	9 18	23 F	0521 1843	-0.1 0.6	-3 18
9 Su	0216 1402	1.4 0.4	43 12	24 M	0325 1501	1.2 0.5	37 15	9 W	0249 1349	1.0 0.5	30 15	24 Th	0545 1958	0.4 0.8	12 24	9 F	0433 1901	0.2 0.7	6 21	24 Sa	0531 1857	-0.2 0.7	-6 21
10 M	0321 1448	1.4 0.5	43 15	25 Tu	0451 1526	1.1 0.6	34 18	10 Th	0309 0617	0.7 0.8	21 24	25 F	0544 1948	0.3 0.9	9 27	10 Sa	0447 1907	0.0 0.9	0 27	25 Su	0555 1921	-0.3 0.8	-9 24
11 Tu	0442 1530	1.3 0.5	40 15	26 W	0019 0313	0.9 0.8	27 24	11 F	0410 2010	0.6 0.9	18 27	26 Sa	0606 1956	0.2 1.0	6 30	11 Su	0527 1933	-0.2 1.0	-6 30	26 M	0623 1950	-0.3 0.8	-9 24
12 W	0622 1605	1.2 0.6	37 18	27 Th	0446 1052	0.7 0.8	21 24	12 Sa	0504 2007	0.3 1.1	9 34	27 Su	0633 2015	0.1 1.0	3 30	12 M	0615 2011	-0.4 1.1	-12 34	27 Tu	0655 2023	-0.4 0.8	-12 24
13 Th	0818 1629	1.1 0.7	34 21	28 F	0536 2049	0.6 1.1	18 34	13 Su	0559 2028	0.2 1.2	6 37	28 M	0703 2040	0.0 1.1	0 34	13 Tu	0706 2055	-0.5 1.2	-15 37	28 W	0727 2057	-0.4 0.9	-12 27
14 F	0327 1031	0.8 1.0	24 30	29 Sa	0618 2052	0.5 1.1	15 34	14 M	0655 2103	0.0 1.4	0 43	29 Tu	0735 2108	-0.1 1.1	-3 34	14 W	0759 2141	-0.5 1.2	-15 37	29 Th	0759 2131	-0.5 0.9	-15 27
15 Sa	0506 2115	0.7 1.1	21 34	30 Su	0656 2108	0.4 1.2	12 37	15 Tu	0754 2146	-0.1 1.4	-3 43	30 W	0809 2140	-0.1 1.1	-3 34	15 Th	0852 2227	-0.5 1.1	-15 34	30 F	0831 2206	-0.5 0.8	-15 24
O				31 M	0734 2131	0.4 1.3	12 40								31 Sa	0901 2240	-0.4 0.8	-12 24					

Time meridian 90° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Galveston (Galveston Channel), Texas, 2016

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 0527 0.3 9 F 0935 0.5 15 1428 0.3 9 O 2209 0.8 24	16 0333 0.0 0 Sa 0958 0.6 18 1445 0.3 9 O 2122 0.8 24	1 0455 -0.1 -3 M 1256 0.6 18 1524 0.5 15 2126 0.7 21	16 0509 -0.5 -15 Tu 1331 1.0 30 1901 0.8 24 2151 0.9 27	1 0318 0.0 0 Tu 1159 0.9 27 1501 0.8 24 O 1749 0.9 27	16 0438 -0.1 -3 W 1306 1.3 40 1925 1.0 30 2132 1.1 34			
2 0554 0.2 6 Sa 1140 0.5 15 1526 0.4 12 2233 0.8 24	17 0440 -0.2 -6 Su 1155 0.7 21 1614 0.5 15 2155 0.8 24	2 0538 -0.3 -9 Tu 1404 0.7 21 1837 0.6 18 2149 0.7 21	17 0613 -0.5 -15 W 1433 1.0 30 2004 0.8 24 2256 0.9 27	2 0418 -0.1 -3 W 1313 1.0 30	17 0552 -0.1 -3 Th 1402 1.3 40 2001 1.0 30 2302 1.1 34			
3 0619 0.0 0 Su 1320 0.6 18 1706 0.5 15 2255 0.8 24	18 0538 -0.4 -12 M 1329 0.8 24 1812 0.7 21 2233 0.8 24	3 0619 -0.4 -12 W 1446 0.8 24 1954 0.7 21 2224 0.8 24	18 0711 -0.5 -15 Th 1520 1.1 34 2042 0.8 24	3 0518 -0.1 -3 Th 1402 1.1 34	18 0658 -0.1 -3 F 1442 1.2 37 2028 0.9 27			
4 0644 -0.2 -6 M 1423 0.8 24 1849 0.7 21 2316 0.8 24	19 0632 -0.6 -18 Tu 1437 0.9 27 1942 0.7 21 2315 0.8 24	4 0659 -0.5 -15 Th 1521 0.9 27 2003 0.7 21 2313 0.8 24	19 0001 0.9 27 F 0803 -0.5 -15 1556 1.0 30 2110 0.8 24	4 0613 -0.2 -6 F 1438 1.1 34 1935 0.9 27 2251 1.0 30	19 0019 1.1 34 Sa 0754 0.0 0 1511 1.2 37 2051 0.8 24			
5 0710 -0.3 -9 Tu 1507 0.9 27 1952 0.7 21 2338 0.8 24	20 0722 -0.7 -21 W 1530 1.0 30 2041 0.8 24	5 0738 -0.6 -18 F 1553 0.9 27 2013 0.8 24	20 0101 0.9 27 Sa 0848 -0.5 -15 1625 1.0 30 2132 0.7 21	5 0705 -0.3 -9 Sa 1508 1.1 34 1940 0.9 27	20 0123 1.1 34 Su 0840 0.1 3 1532 1.1 34 2110 0.8 24			
6 0738 -0.5 -15 W 1544 0.9 27 2028 0.8 24	21 0002 0.9 27 Th 0809 -0.8 -24 1614 1.0 30 2122 0.8 24	6 0008 0.9 27 Sa 0818 -0.7 -21 1624 1.0 30 2036 0.8 24	21 0155 1.0 30 Su 0928 -0.4 -12 1650 0.9 27 2153 0.6 18	6 0013 1.1 34 Su 0754 -0.3 -9 1534 1.1 34 2009 0.8 24	21 0220 1.2 37 M 0919 0.2 6 1550 1.1 34 2128 0.7 21			
7 0001 0.9 27 Th 0808 -0.6 -18 1618 1.0 30 2050 0.8 24	22 0051 0.9 27 F 0853 -0.8 -24 1654 1.0 30 2153 0.8 24	7 0104 0.9 27 Su 0900 -0.7 -21 1654 1.0 30 2110 0.7 21	22 0247 0.9 27 M 1003 -0.3 -9 1712 0.9 27 O 2217 0.6 18	7 0124 1.1 34 M 0842 -0.3 -9 1600 1.1 34 2047 0.7 21	22 0312 1.2 37 Tu 0951 0.3 9 1606 1.1 34 2149 0.6 18			
8 0029 0.9 27 F 0841 -0.7 -21 1653 1.0 30 2112 0.8 24	23 0140 0.9 27 Sa 0935 -0.8 -24 1729 1.0 30 O 2222 0.7 21	8 0203 1.0 30 M 0942 -0.7 -21 1723 0.9 27 ● 2151 0.6 18	23 0337 0.9 27 Tu 1034 -0.1 -3 1732 0.9 27 2246 0.5 15	8 0232 1.2 37 Tu 0930 -0.2 -6 1624 1.1 34 ● 2131 0.5 15	23 0401 1.2 37 W 1019 0.5 15 1622 1.1 34 O 2214 0.4 12			
9 0103 0.9 27 Sa 0917 -0.7 -21 1729 1.0 30 ● 2140 0.8 24	24 0227 0.9 27 Su 1014 -0.7 -21 1802 0.9 27 2252 0.6 18	9 0305 1.0 30 Tu 1025 -0.6 -18 1751 0.9 27 2238 0.5 15	24 0429 0.9 27 W 1103 0.0 0 1753 0.9 27 2320 0.4 12	9 0339 1.3 40 W 1017 0.0 0 1649 1.0 30 2218 0.3 9	24 0450 1.2 37 Th 1046 0.6 18 1638 1.1 34 2242 0.4 12			
10 0143 1.0 30 Su 0955 -0.8 -24 1805 1.0 30 2216 0.8 24	25 0314 0.8 24 M 1050 -0.6 -18 1832 0.9 27 2328 0.6 18	10 0412 0.9 27 W 1110 -0.4 -12 1819 0.9 27 2331 0.3 9	25 0524 0.9 27 Th 1132 0.2 6 1813 0.8 24 2358 0.3 9	10 0449 1.3 40 Th 1106 0.2 6 1715 1.0 30 2309 0.1 3	25 0541 1.2 37 F 1115 0.7 21 1655 1.1 34 2315 0.3 9			
11 0228 0.9 27 M 1035 -0.7 -21 1841 1.0 30 2300 0.7 21	26 0403 0.8 24 Tu 1124 -0.4 -12 1901 0.8 24	11 0528 0.9 27 Th 1156 -0.2 -6 1847 0.8 24	26 0625 0.8 24 F 1202 0.3 9 1833 0.8 24	11 0602 1.3 40 F 1157 0.4 12 1741 1.0 30	26 0634 1.2 37 Sa 1147 0.8 24 1708 1.1 34 2350 0.2 6			
12 0321 0.9 27 Tu 1117 -0.6 -18 1916 0.9 27 2355 0.6 18	27 0011 0.5 15 W 0458 0.7 21 1156 -0.2 -6 1928 0.8 24	12 0031 0.1 3 F 0654 0.8 24 1246 0.1 3 1915 0.8 24	27 0041 0.2 6 Sa 0736 0.8 24 1234 0.5 15 1851 0.8 24	12 0003 0.0 0 Sa 0721 1.3 40 1253 0.7 21 1808 1.1 34	27 0732 1.2 37 Su 1223 0.9 27 1714 1.1 34			
13 0428 0.8 24 W 1202 -0.5 -15 1949 0.9 27	28 0104 0.4 12 Th 0606 0.6 18 1227 -0.1 -3 1954 0.7 21	13 0136 0.0 0 Sa 0832 0.8 24 1341 0.4 12 1944 0.8 24	28 0128 0.1 3 Su 0857 0.8 24 1310 0.6 18 1904 0.8 24	13 0103 -0.1 -3 Su 0846 1.3 40 1400 0.9 27 1837 1.1 34	28 0030 0.2 6 M 0836 1.2 37 1305 1.0 30 1700 1.1 34			
14 0101 0.5 15 Th 0557 0.7 21 1249 -0.2 -6 2020 0.8 24	29 0205 0.3 9 F 0733 0.5 15 1259 0.1 3 2019 0.7 21	14 0246 -0.2 -6 Su 1018 0.8 24 1454 0.6 18 2017 0.8 24	29 0220 0.1 3 M 1028 0.8 24 1354 0.7 21 1900 0.8 24	14 0208 -0.2 -6 M 1017 1.3 40 1549 1.0 30 1911 1.1 34	29 0114 0.2 6 Tu 0948 1.3 40 1357 1.0 30 1625 1.1 34			
15 0217 0.3 9 F 0753 0.6 18 1341 0.0 0 2051 0.8 24	30 0308 0.1 3 Sa 0918 0.5 15 1333 0.3 9 2042 0.7 21	15 0359 -0.3 -9 M 1204 0.9 27 1700 0.7 21 ● 2057 0.8 24		15 0320 -0.2 -6 Tu 1149 1.3 40 ●	30 0206 0.2 6 W 1104 1.3 40 ●			
	31 0405 0.0 0 Su 1112 0.5 15 1414 0.4 12 ● 2105 0.7 21				31 0306 0.2 6 Th 1211 1.3 40 ●			

Time meridian 90° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.

Heights are referred to mean lower low water which is the chart datum of soundings.

On days when the tide is diurnal, high water has an approximate stand of about 7 hours. Predictions are for beginning of stand.

Galveston (Galveston Channel), Texas, 2016

Times and Heights of High and Low Waters

April						May						June													
	Time	Height		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		h m	ft cm								
1 F	0414 1301	0.2 1.3	6 40	16 Sa	0636 1342	0.4 1.4	12 27	1 Su	0434 1227	0.4 1.4	12 43	16 M	0105 0707	1.1 0.8	34 24	1 W	0133 0640	1.3 0.9	40 30	16 Th	0321 0833	1.2 1.0	37 30		
2 Sa	0523 1337	0.2 1.3	6 40	17 Su	0042 0737	1.2 0.5	37 15	2 M	0550 1254	0.5 1.4	15 43	17 Tu	0214 0804	1.2 0.9	37 27	2 Th	0242 0758	1.4 1.0	43 30	17 F	0358 0918	1.3 1.1	40 34		
1907 2301	1.1 1.2	34 37		1405 2026	1.3 0.8	40 24	1836 1858	1.0 0.7	30 21	1250 1858	1.3 0.7	40 12	1209 2013	1.3 0.4	40 12	1207 2023	1.1 0.2	34 37	1223 2023	1.2 0.2	37 -6				
3 Su	0629 1405	0.2 1.3	6 40	18 M	0149 0826	1.3 0.6	40 18	3 Tu	0103 0702	1.3 0.7	40 21	18 W	0308 0850	1.3 1.0	40 30	3 F	0343 0906	1.6 1.1	49 34	18 Sa	0431 0951	1.4 1.1	43 34		
1918	1.0	30		1423 2044	1.3 0.7	40 21	1319 1932	1.4 0.5	43 15	1321 2032	1.3 0.2	40 6	2032 2041	0.2 -0.4	40 -12	1239 2051	1.2 -0.3	37 -9	1239 2051	1.2 -0.3	37 -9				
4 M	0034 0729	1.3 0.2	40 6	19 Tu	0246 0906	1.3 0.7	40 21	4 W	0218 0809	1.5 0.8	46 24	19 Th	0352 0928	1.4 1.1	43 34	4 Sa	0439 1007	1.7 1.2	52 37	19 Su	0504 1014	1.4 1.1	43 34		
1430 1950	1.3 0.8	40 24		1438 2102	1.3 0.5	40 15	1343 2013	1.4 0.2	43 6	1336 2053	1.3 0.1	40 3	2053 2127	0.1 -0.5	40 -15	1255 2120	1.2 -0.3	37 -9	1255 2120	1.2 -0.3	37 -9				
5 Tu	0150 0825	1.4 0.3	43 9	20 W	0335 0939	1.4 0.9	43 27	5 Th	0324 0910	1.7 0.9	52 27	20 F	0432 1000	1.5 1.2	46 37	5 Su	0532 1104	1.7 1.3	52 40	20 M	0539 1037	1.4 1.1	43 34		
1454 2030	1.3 0.6	40 18		1452 2121	1.3 0.4	40 12	1409 2056	1.4 0.0	43 0	1350 2117	1.3 0.0	40 0	2117 2214	0.0 -0.5	40 -15	1313 2152	1.2 -0.3	37 -9	1313 2152	1.2 -0.3	37 -9				
6 W	0300 0919	1.5 0.5	46 15	21 Th	0421 1008	1.4 1.0	43 30	6 F	0427 1009	1.8 1.1	55 34	21 Sa	0510 1030	1.5 1.2	46 37	6 M	0624 1203	1.7 1.2	52 37	21 Tu	0615 1105	1.4 1.1	43 34		
1518 2113	1.3 0.3	40 9		1506 2144	1.3 0.3	40 9	1436 2141	1.4 -0.2	43 -6	1402 2141	1.3 0.0	40 0	2144 2301	0.0 -0.5	40 -15	1334 2227	1.2 -0.3	37 -9	1334 2227	1.2 -0.3	37 -9				
7 Th	0407 1012	1.6 0.6	49 18	22 F	0505 1036	1.5 1.0	46 30	7 Sa	0527 1107	1.8 1.2	55 37	22 Su	0548 1101	1.6 1.2	49 37	7 Tu	0716 1313	1.6 1.2	49 37	22 W	0653 1143	1.4 1.1	43 34		
● 2159	0.1	3		1521 2211	1.3 0.2	40 6	1504 2229	1.4 -0.3	43 -9	1409 2214	1.3 -0.1	40 -3	2214 2349	-0.1 -0.3	40 -9	1531 2304	1.3 -0.3	40 -9	1400 2304	1.2 -0.3	37 -9				
8 F	0514 1106	1.7 0.8	52 24	23 Sa	0549 1107	1.5 1.1	46 34	8 Su	0627 1209	1.8 1.3	55 40	23 M	0629 1136	1.6 1.2	49 37	8 W	0807 1408	1.5 1.3	46 40	23 Th	0732 2343	1.4 -0.2	43 -6		
1608 2248	1.3 -0.1	40 -3		1532 2241	1.3 0.2	40 6	1534 2318	1.4 -0.3	43 -9	1408 2247	1.3 -0.1	40 -3	2247 2318	-0.1 -0.3	40 -3	1728 2318	0.8 -0.1	24 -3	1728 2318	0.8 -0.1	24 -3				
9 Sa	0621 1203	1.7 1.0	52 30	24 Su	0634 1142	1.5 1.2	46 37	9 M	0728 1323	1.8 1.3	55 40	24 Tu	0712 2323	1.6 -0.1	49 -3	9 Th	0038 0857	-0.1 1.5	46 46	24 F	0809 2343	1.3 -0.2	40 -6		
1635 2339	1.3 -0.1	40 -3		1537 2314	1.3 0.1	40 3	1604 2314	1.4 0.1	43 3	1604 2314	1.4 0.1	43 3	2314 2314	-0.1 -0.1	40 -3	1728 2314	0.8 -0.1	24 -3	1728 2314	0.8 -0.1	24 -3				
10 Su	0731 1308	1.7 1.2	52 37	25 M	0723 1221	1.5 1.2	46 37	10 Tu	0010 0831	-0.2 1.7	-6 52	25 W	0759 1083	1.5 1.7	46 52	10 F	0128 0941	0.1 1.4	3 43	25 Sa	0026 0844	-0.1 1.3	-3 40		
1702	1.3	40		1527 2350	1.3 0.1	40 3	1527 2350	1.3 0.1	40 3	1826 2350	0.5 0.1	15 46	1928 2350	0.9 0.9	27 27	1728 2350	0.8 0.9	27 27	1728 2350	0.8 0.9	27 27				
11 M	0034 0844	-0.1 1.6	-3 49	26 Tu	0818	1.5	46	11 W	0106 0934	-0.1 1.6	-3 49	26 Th	0003 0848	0.0 1.5	0 46	11 Sa	0222 1019	0.3 1.3	9 40	26 Su	0114 0915	0.1 1.2	3 37		
1439 1730	1.2 1.3	37 40		2140 ●	1018	1.5	46	2140 ●	1124 2140	1.5 1.0	46 30	2140 ●	0848 1015	1.5 1.4	0 46	2140 ●	1758 2143	0.7 0.8	21 24	2140 ●	1557 2035	0.7 0.8	21 24		
12 Tu	0135 1000	-0.1 1.6	-3 49	27 W	0031 0917	0.2	6	12 Th	0207 1033	0.1	3	27 F	0047 0934	0.0	0	12 Su	0325 1050	0.5 1.2	15 37	27 M	0208 0943	0.4 1.2	12 37		
2318	1.2	37		1845 ●	1018	1.5	46	1845 ●	1124 2140	1.5 1.0	46 30	1845 ●	0934 1015	1.5 1.4	0 46	1845 ●	2347 2143	0.9 0.8	27 24	1845 ●	2252 2035	0.9 0.8	27 24		
13 W	0244 1116	0.1	3	28 Th	0118 1018	0.2	6	13 F	0317 1124	0.3	9	28 Sa	0138 1015	0.2	6	13 M	0446 1114	0.7	21	28 Tu	0317 1009	0.6	18		
●	1.5	46		1845 ●	1018	1.5	46	1845 ●	1124 2140	0.9	27	1845 ●	0934 1015	0.8	24	1845 ●	2140 ●	1.0	30	1845 ●	1727 2035	0.1	3		
14 Th	0402 1221	0.2	6	29 F	0214 1112	0.3	9	14 Sa	0437 1202	0.5	15	29 Su	0238 1049	0.3	9	14 Tu	0126 0618	1.0	30	29 W	0039 0447	1.0	30		
1915 2134	1.1 1.2	34 37		1910 ●	1112	1.5	46	1910 ●	1202 2134	1.4	43	1910 ●	0618 1037	0.9	27	1910 ●	1134 1812	1.1	34	1910 ●	1037 1812	1.2	37		
15 F	0523 1309	0.3	9	30 Sa	0320 1155	0.3	9	15 Su	0557 1933	0.7	21	30 M	0350 1117	0.5	15	15 W	0234 0734	1.1	34	30 Th	0158 0632	1.2	37		
1940 2318	1.4 1.2	43 37		1155	1.5	46	1933	0.7	21	1801	0.6	18	1936	0.0	0	1936	1151 1858	1.1	34	1936	1107 1858	1.2	37		
													31 Tu	0006 0513	1.1	34									
													1143 1835	1.3 0.3	40 9										

Time meridian 90° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.

Heights are referred to mean lower low water which is the chart datum of soundings.

On days when the tide is diurnal, high water has an approximate stand of about 7 hours. Predictions are for beginning of stand.

Galveston (Galveston Channel), Texas, 2016

Times and Heights of High and Low Waters

July				August				September			
Time	Height	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 F 0300	1.4	43	16 Sa 0347	1.2	37	1 M 0430	1.5	46	1 Th 0408	1.4	43
0800	1.1	34	0906	1.0	30	0939	1.2	37	0840	1.2	37
1142	1.2	37	1120	1.1	34	1310	1.3	40	1241	1.3	40
1944	-0.5	-15	1953	-0.3	-9	2108	-0.4	-12	2038	-0.1	-3
2 Sa 0353	1.5	46	17 Su 0416	1.3	40	2 0505	1.4	43	16 W 0434	1.4	43
0906	1.2	37	0921	1.1	34	1013	1.1	34	0906	1.2	37
1222	1.3	40	1152	1.2	37	1406	1.3	40	1341	1.4	43
2030	-0.6	-18	2025	-0.4	-12	● 2151	-0.3	-9	2117	-0.1	-3
3 Su 0441	1.5	46	18 M 0445	1.3	40	3 W 0538	1.4	43	18 Th 0500	1.4	43
0958	1.2	37	0928	1.1	34	1049	1.0	30	0941	1.1	34
1308	1.3	40	1230	1.2	37	1502	1.2	37	1443	1.4	43
2116	-0.6	-18	2059	-0.4	-12	2231	-0.2	-6	○ 2157	0.0	0
4 M 0526	1.5	46	19 Tu 0516	1.3	40	4 Th 0608	1.3	40	19 F 0525	1.4	43
1044	1.2	37	0947	1.1	34	1130	1.0	30	1024	0.9	27
1356	1.3	40	1314	1.2	37	1559	1.2	37	1551	1.3	40
● 2201	-0.6	-18	○ 2134	-0.4	-12	2307	0.0	0	2239	0.2	6
5 Tu 0610	1.5	46	20 W 0547	1.3	40	5 F 0636	1.3	40	20 Sa 0549	1.4	43
1131	1.1	34	1018	1.1	34	1215	0.8	24	1112	0.8	24
1445	1.2	37	1402	1.2	37	1702	1.1	34	1705	1.3	40
2246	-0.5	-15	2211	-0.3	-9	2342	0.2	6	2322	0.4	12
6 W 0651	1.4	43	21 Th 0618	1.3	40	6 Sa 0702	1.2	37	21 Su 0613	1.4	43
1225	1.0	30	1058	1.0	30	1305	0.7	21	1205	0.6	18
1537	1.1	34	1457	1.1	34	1815	1.0	30	1829	1.3	40
2329	-0.3	-9	2250	-0.2	-6				● 2059	1.3	40
7 Th 0730	1.3	40	22 F 0648	1.3	40	7 Su 0014	0.4	12	22 M 0008	0.6	18
1332	0.9	27	1147	0.9	27	0727	1.2	37	0637	1.3	40
1637	1.0	30	1605	1.1	34	1358	0.6	18	1304	0.4	12
			2331	-0.1	-3	1941	0.9	27	2004	1.3	40
8 F 0010	-0.1	-3	23 Sa 0717	1.2	37	8 M 0044	0.6	18	23 Th 0058	0.9	27
0807	1.2	37	1244	0.8	24	0750	1.2	37	0702	1.4	43
1448	0.8	24	1734	1.0	30	1453	0.5	15	1407	0.2	6
1754	0.9	27				2123	0.9	27	2146	1.3	40
9 Sa 0050	0.1	3	24 Su 0013	0.1	3	9 Tu 0114	0.8	24	24 W 0159	1.1	34
0839	1.2	37	0744	1.2	37	0811	1.2	37	0728	1.4	43
1554	0.7	21	1347	0.6	18	1546	0.4	12	1515	0.1	3
1938	0.8	24	1924	0.9	27	2318	1.0	30	● 2331	1.4	43
10 Su 0128	0.4	12	25 M 0100	0.4	12	10 W 0145	0.9	27	25 Th 0338	1.3	40
0908	1.1	34	0810	1.2	37	0829	1.2	37	0800	1.4	43
1643	0.5	15	1452	0.4	12	1635	0.3	9	1624	0.0	0
2139	0.7	21	2124	0.9	27	● 0			1731	-0.1	-3
11 M 0206	0.6	18	26 Tu 0153	0.6	18	11 Th 0844	1.2	37	26 F 0100	1.5	46
0934	1.1	34	0836	1.2	37	1720	0.2	6	0624	1.3	40
1721	0.3	9	1555	0.1	3				0849	1.4	43
● 2346	0.8	24	○ 2322	1.0	30	1731	-0.1	-3	1731	-0.1	-3
12 Tu 0251	0.7	21	27 W 0304	0.9	27	12 F 0216	1.2	37	27 Sa 0204	1.6	49
0956	1.1	34	0904	1.2	37	0802	1.1	34	0743	1.3	40
1754	0.2	6	1654	-0.1	-3	0847	1.2	37	1002	1.4	43
						1802	0.1	3	1832	-0.1	-3
13 W 0140	0.9	27	28 Th 0100	1.2	37	13 Sa 0247	1.3	40	28 Su 0250	1.6	49
0436	0.8	24	0456	1.1	34	1842	0.0	0	0822	1.3	40
1016	1.1	34	0937	1.2	37				1120	1.4	43
1824	0.0	0	1750	-0.3	-9				1928	-0.1	-3
14 Th 0242	1.1	34	29 F 0212	1.3	40	14 Su 0315	1.4	43	14 W 0327	1.6	49
0709	1.0	30	0702	1.2	37	1921	-0.1	-3	0852	1.3	40
1036	1.1	34	1020	1.3	40				1230	1.4	43
1853	-0.1	-3	1844	-0.4	-12				2017	0.0	0
15 F 0317	1.2	37	30 Sa 0306	1.4	43	15 M 0342	1.4	43	15 W 0358	1.6	49
0825	1.0	30	0816	1.2	37	0834	1.2	37	0919	1.2	37
1055	1.1	34	1113	1.3	40	1140	1.3	40	1333	1.5	46
1923	-0.2	-6	1934	-0.5	-15	1959	-0.1	-3	2101	0.1	3
			31 Su 0350	1.5	46				31 W 0424	1.5	46
			0902	1.2	37				0946	1.1	34
			1212	1.3	40				1431	1.4	43
			2023	-0.5	-15				2140	0.2	6

Time meridian 90° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.

Heights are referred to mean lower low water which is the chart datum of soundings.

On days when the tide is diurnal, high water has an approximate stand of about 7 hours. Predictions are for beginning of stand.

Galveston (Galveston Channel), Texas, 2016

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	0358	1.6 49		16 Su	0310	1.6 49		1 Tu	0311	1.5 46	
	1009	0.8 24		16 Su	0936	0.4 12		1 Tu	1033	0.3 9	
	1644	1.6 49		16 Su	1650	1.9 58		16 W	1826	1.7 52	
	2226	1.1 34		16 Su	2225	1.2 37		16 W	2305	1.4 43	
2 Su	0413	1.6 49		17 M	0333	1.7 52		2 W	0317	1.5 46	
	1036	0.7 21		17 M	1023	0.2 6		2 W	1105	0.3 9	
	1736	1.6 49		17 M	1757	2.0 61		2 W	1915	1.7 52	
	2253	1.2 37		17 M	2318	1.4 43		2 W	2340	1.4 43	
3 M	0428	1.6 49		18 Tu	0357	1.7 52		3 Th	0312	1.5 46	
	1107	0.6 18		18 Tu	1113	0.1 3		3 Th	1140	0.3 9	
	1830	1.6 49		18 Tu	1906	2.0 61		3 Th	2010	1.7 52	
	2323	1.3 40		18 Tu	2111	1.7 52		3 Th	2111	1.7 52	
4 Tu	0439	1.6 49		19 W	0016	1.5 46		4 F	0022	1.4 43	
	1141	0.6 18		19 W	0423	1.7 52		4 F	0257	1.5 46	
	1928	1.6 49		19 W	1206	0.1 3		4 F	1219	0.3 9	
	2356	1.4 43		19 W	2019	1.9 58		4 F	2110	1.6 49	
5 W	0443	1.6 49		20 Th	0130	1.6 49		5 Sa	1304	0.3 9	
	1220	0.5 15		20 Th	0447	1.7 52		5 Sa	2211	1.6 49	
	2034	1.6 49		20 Th	1306	0.1 3		5 Sa	2304	1.5 46	
				20 Th	2136	1.9 58		5 Sa	2304	1.5 46	
6 Th	0035	1.5 46		21 F	1412	0.2 6		6 Su	1355	0.4 12	
	0425	1.6 49		21 F	2252	1.9 58		6 Su	2304	1.6 49	
	1303	0.5 15		21 F	2304	1.6 49		6 Su	2304	1.5 46	
	2147	1.7 52		21 F	2344	1.4 43		6 Su	2344	1.4 43	
7 F	0127	1.5 46		22 Sa	1527	0.3 9		21 M	0621	1.0 30	
	0344	1.6 49		22 Sa	2356	1.8 55		21 M	0855	1.1 34	
	1353	0.5 15		22 Sa	2343	1.6 49		21 M	1610	0.4 12	
	2302	1.7 52		22 Sa	2344	1.4 43		21 M	2344	1.4 43	
8 Sa	1451	0.6 18		23 Su	1646	0.5 15		22 W	0651	0.8 24	
				23 Su	1603	0.5 15		22 W	1101	1.0 30	
				23 Su	1603	0.5 15		22 W	1730	0.6 18	
				23 Su	1603	0.5 15		22 W	2259	1.2 37	
9 Su	0006	1.7 52		24 M	0044	1.7 52		23 W	0014	1.4 43	
	1555	0.6 18		24 M	0723	1.3 40		23 W	0719	0.7 21	
				24 M	1040	1.4 43		23 W	1242	1.1 34	
				24 M	1802	0.6 18		23 W	1842	0.7 21	
10 M	0051	1.7 52		25 Tu	0118	1.7 52		24 W	0037	1.3 40	
	1700	0.6 18		25 Tu	0749	1.2 37		24 W	0745	0.5 37	
				25 Tu	1215	1.4 43		24 W	1359	1.2 37	
				25 Tu	1906	0.7 21		24 W	1941	0.9 27	
11 Tu	0122	1.7 52		26 W	0143	1.6 49		25 W	0055	1.3 40	
	0758	1.4 43		26 W	0815	1.0 30		25 W	0653	0.1 37	
	1029	1.5 46		26 W	1331	1.5 46		25 W	1415	1.2 37	
	1802	0.6 18		26 W	1958	0.9 27		25 W	1913	0.8 24	
12 W	0146	1.7 52		27 Th	0202	1.6 49		26 W	0110	1.3 40	
	0726	1.3 40		27 Th	0837	0.9 27		26 W	0829	0.2 6	
	1211	1.5 46		27 Th	1433	1.5 46		26 W	1545	1.3 40	
	1859	0.6 18		27 Th	2041	1.0 30		26 W	2106	1.1 34	
13 Th	0207	1.7 52		28 F	0218	1.5 46		27 W	0125	1.3 40	
	0743	1.1 34		28 F	0858	0.7 21		27 W	0850	0.1 3	
	1329	1.6 49		28 F	1526	1.6 49		27 W	1625	1.4 43	
	1952	0.7 21		28 F	2116	1.1 34		27 W	2132	1.1 34	
14 F	0228	1.7 52		29 Sa	0232	1.5 46		28 W	0140	1.3 40	
	0815	0.9 27		29 Sa	0918	0.6 18		28 W	0905	0.0 0	
	1438	1.7 52		29 Sa	1613	1.6 49		28 W	1701	1.4 43	
	2043	0.9 27		29 Sa	2144	1.2 37		28 W	2153	1.2 37	
15 Sa	0248	1.6 49		30 Su	0246	1.5 46		29 W	0155	1.3 40	
	0853	0.7 21		30 Su	0939	0.5 15		29 W	0939	-0.1 -3	
	1545	1.9 58		30 Su	1658	1.7 52		29 W	1738	1.4 43	
	O 2134	1.0 30		30 Su	2209	1.3 40		29 W	2216	1.2 37	
31 Sa	0259	1.5 46		31 M	0259	1.5 46		30 W	0209	1.3 40	
				31 M	1004	0.4 12		30 W	1007	-0.2 -6	
				31 M	1741	1.7 52		30 W	1817	1.4 43	
				31 M	2235	1.4 43		30 W	2243	1.2 37	

Time meridian 90° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.

Heights are referred to mean lower low water which is the chart datum of soundings.

On days when the tide is diurnal, high water has an approximate stand of about 7 hours. Predictions are for beginning of stand.

Port O'Connor, Texas, 2016

Times and Heights of High and Low Waters

January				February				March			
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height
h m 1 1506 F 2324	ft -0.1 cm 6	h m 16 0502 M 2006	ft -0.3 cm -9 0	h m 1 0552 Tu 1944	ft -0.4 cm -12	h m 16 0618 W 2025	ft -0.6 cm -18	h m 1 0435 Tu 1659	ft -0.2 cm -6	h m 16 0548 W 1838	ft -0.2 cm -6
Sa 1030 O 1438 ● 2122	-0.2 -0.3 -0.9 0.0 0	Su 2100 ● 2108	-0.1 -12	M 1957	0.0 -15	Th 2117	0.2 -18	Th 1830	0.3 -9	Th 1921	0.5 -15
3 0734 Su 2208	-0.2 6	18 0653 M 2053	-0.5 -15	3 W 2003	-0.6 -18	18 0844 Th 2117	-0.6 -18	3 Th 1830	-0.3 -9	18 0826 F 1937	-0.1 15
4 0750 M 2143	-0.3 6	19 0752 Tu 2108	-0.6 -18	4 Th 2039	-0.6 -18	19 0946 F 2219	-0.6 -18	4 F 1924	-0.3 12	19 0928 Sa 1901	0.0 15
5 0822 Tu 2130	-0.4 -12	20 0851 W 2141	-0.7 -21	5 F 2136	-0.6 -18	20 1037 Sa 2334	-0.5 -15	5 Sa 2031	-0.3 12	20 1015 Su 2206	0.0 12
6 0901 W 2131	-0.5 9	21 0948 Th 2228	-0.7 -21	6 Sa 2254	-0.7 -21	21 1117 Su 2346	-0.5 -15	6 Su 2346	-0.3 9	21 0206 M 1051	0.4 12
7 0944 Th 2156	-0.5 9	22 1041 F 2322	-0.7 -21	7 Su 1015	-0.7 -21	22 1104 M 1148	-0.1 -3	7 M 1039	-0.2 -6	22 0348 Tu 1119	0.4 12
8 1028 F 2240	-0.6 9	23 1127 Sa 1206	-0.7 -21	8 M 1138	-0.6 -18	23 0234 Tu 2123	-0.1 -3	8 Tu 1122	-0.2 -6	23 0506 W 1737	0.4 12
9 1111 Sa 2331	-0.6 9	24 0015 Su 1206	0.2 -6	9 Tu 1217	0.1 -18	24 0356 W 2104	-0.1 -3	9 W 1847	-0.1 3	24 0618 Th 1649	0.4 12
● 1152 Su	-18	25 0103 M 1238	0.1 -3	10 W 1255	-0.5 -15	25 0036 Th 1303	-0.1 -3	10 Th 1248	0.1 6	25 0734 F 1304	0.5 12
11 0022 M 1231	0.3 -18	26 0144 Tu 1305	0.0 -18	11 Th 0517	-0.2 -6	26 0114 F 0641	-0.1 -3	11 F 0726	0.0 9	26 0024 Sa 0908	0.2 15
12 0103 Tu 1310	0.2 -18	27 1329 W 2312	-0.5 -15	12 Th 1332	-0.4 -12	26 0114 F 1335	-0.1 -3	12 F 1331	0.1 3	26 0908 Sa 1403	0.4 12
13 0025 W 1347	0.2 -15	28 1353 Th 2240	-0.4 -12	12 F 1407	-0.2 -6	27 0153 Sa 1411	-0.1 -3	12 F 1708	0.2 6	26 1403 Sa 1553	0.5 15
14 0002 Th 1423	0.1 -12	29 1415 F 2126	-0.3 -9	13 Sa 1005	-0.3 -9	27 0153 Sa 1409	-0.1 -3	12 F 1708	0.2 6	27 0100 Su 1059	0.1 18
15 0411 F 0627	-0.2 -3	30 0420 Sa 0817	-0.3 -9	13 Sa 1428	-0.2 -6	28 0238 Su 1819	-0.2 -6	13 Su 1656	-0.2 12	27 0100 Su 1059	0.1 18
1454 2155	-0.3 -9	1415 2053	-0.3 -9	13 Sa 1918	0.0 0	14 M 1757	-0.2 -6	14 M 1717	-0.2 15	28 0143 M 1240	0.1 18
● 0503 ○	-0.3 -9	31 Su 2026	-0.1 -3	15 M 1918	-0.5 -15	15 Tu 1754	-0.2 -6	15 Tu 1754	-0.2 18	31 Th 1616	0.1 21

Time meridian 90° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Port O'Connor, Texas, 2016

Times and Heights of High and Low Waters

April						May						June											
	Time	Height		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		h m	ft cm						
1 F	0605 1706	0.1 0.7	3 21	16 Sa	0735 1638	0.4 0.7	12 21	1 Su	0608 1556	0.4 0.8	12 24	16 M	0405 0633 1325 2121	0.6 0.5 0.7 0.4	18 15 21 12	1 W	1026 2032	0.6 0.1	18 3	16 Th	0938 2101	0.5 -0.1	15 -3
2 Sa	0715 1747	0.2 0.7	6 21	17 Su	0833 1643 2207	0.4 0.7 0.5	12 21 15	2 M	0716 1525 2049	0.5 0.7 0.6	15 21 18	17 Tu	1216 2123	0.7 0.4	21 12	2 Th	0742 2112	0.7 0.0	21 0	17 F	0844 2133	0.6 -0.2	18 -6
3 Su	0820 1816	0.2 0.6	6 18	18 M	0335 0920 1631 2200	0.6 0.5 0.7 0.5	18 15 21 15	3 Tu	0238 0828 1340 2055	0.7 0.6 0.7 0.5	21 18 21 15	18 W	1113 2138	0.7 0.3	21 9	3 F	0824 2157	0.8 -0.2	24 -6	18 Sa	0844 2210	0.6 -0.2	18 -6
4 M	0919 1821 2112	0.3 0.6 0.5	9 18 15	19 Tu	0518 1002 1519 2213	0.7 0.5 0.6 0.5	21 15 18 15	4 W	0531 0955 1217 2125	0.8 0.6 0.7 0.3	24 18 21 9	19 Th	0747 2201	0.8 0.2	24 6	4 Sa	0916 2247	0.9 -0.2	27 -6	19 Su	0914 2251	0.7 -0.2	21 -6
5 Tu	0207 1015 1714 2136	0.6 0.3 0.5 0.4	18 9 15 12	20 W	0629 1048 1411 2231	0.7 0.6 0.7 0.4	21 18 21 12	5 Th	0659 2205	0.9 0.2	27 6	20 F	0822 2229	0.8 0.1	24 3	5 Su	1012 2340	0.9 -0.2	27 -6	20 M	0951 2333	0.7 -0.3	21 -9
6 W	0417 1113 1532 2214	0.7 0.4 0.5 0.3	21 12 15 9	21 Th	0728 2254	0.8 0.3	24 9	6 F	0815 2251	0.9 0.1	27 3	21 Sa	0900 2302	0.9 0.1	27 3	6 M	1106	0.9	27	21 Tu	1031	0.7	21
7 Th	0611 1216 1432 ● 2259	0.7 0.5 0.6 0.2	21 15 18 6	22 F	0823 2322	0.8 0.3	24 9	7 Sa	0929 2341	1.0 0.0	30 0	22 Su	0943 2340	0.9 0.1	27 3	7 Tu	0032 1152	-0.2 0.8	-6 24	22 W	0014 1107	-0.3 0.6	-9 18
8 F	0801 2349	0.8 0.1	24 3	23 Sa	0917 2355	0.9 0.2	27 6	8 Su	1043	1.0	30	23 M	1030	0.9	27	8 W	0123 1223	-0.2 0.7	-6 21	23 Th	0055 1138	-0.2 0.6	-6 18
9 Sa	0948	0.8	24	24 Su	1015	0.9	27	9 M	0036 1156	0.0 1.0	0 30	24 Tu	0022 1118	0.0 0.9	0 27	9 Th	0210 1240	-0.1 0.7	-3 21	24 F	0133 1159	-0.2 0.5	-6 15
10 Su	0044 1133	0.1 0.9	3 27	25 M	0033 1118	0.2 0.9	6 27	10 Tu	0132 1300	0.0 1.0	0 30	25 W	0105 1205	0.0 0.9	0 27	10 F	0250 1249	0.0 0.6	0 18	25 Sa	0208 1204	-0.1 0.5	-3 15
11 M	0144 1320	0.0 0.9	0 27	26 Tu	0117 1223	0.2 0.9	6 27	11 W	0231 1346	0.1 1.0	3 30	26 Th	0150 1247	0.1 0.8	3 24	11 Sa	0322 1247	0.1 0.5	3 15	26 Su	0238 1125	0.0 0.4	0 12
12 Tu	0248 1500	0.1 0.9	3 27	27 W	0207 1325	0.2 0.9	6 27	12 Th	0328 1412	0.2 0.9	6 27	27 F	0234 1321	0.1 0.8	3 24	12 Su	0339 1217 2253	0.2 0.5 0.2	6 15 6	27 M	0246 1031 1831	0.1 0.4 0.1	3 12 3
13 W	0358 1556	0.1 0.9	3 27	28 Th	0302 1419	0.3 0.9	9 27	13 F	0423 1427	0.3 0.8	9 24	28 Sa	0317 1343	0.2 0.7	6 21	13 M	1119 2026	0.5 0.2	15 6	28 Tu	0952 1849	0.4 0.0	12 0
14 Th	0512 1618	0.2 0.8	6 24	29 F	0401 1505	0.3 0.9	9 27	14 Sa	0513 1434	0.4 0.7	12 21	29 Su	0359 1334	0.2 0.6	6 18	14 Tu	1038 2020	0.5 0.1	15 3	29 W	0919 1927	-0.4 -0.2	12 -6
15 F	0626 1629	0.3 0.8	9 24	30 Sa	0503 1539	0.3 0.9	9 27	15 Su	0556 1425 2158	0.5 0.7 0.5	15 21 15	30 M	0436 1223 2005	0.3 0.6 0.4	9 18 12	15 W	1004 2035	0.5 0.0	15 0	30 Th	0857 2012	0.5 -0.3	15 -9
																31 Tu	1123 2004	0.6 0.2	18 6				

Time meridian 90° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Port O'Connor, Texas, 2016

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	
1 F	0849 2102	0.6 -0.4	18 -12	16 Sa	0823 2110	0.5 -0.3	15 -9	1 M	0950 2247	0.6 -0.3	18 -9	16 Tu	0849 2224	0.7 -0.1	21 -3	
2 Sa	0909 2155	0.6 -0.5	18 -15	17 Su	0841 2156	0.5 -0.4	15 -12	2 Tu	1014 2333	0.6 -0.3	18 -9	17 W	0917 2305	0.7 0.0	21 0	
3 Su	0948 2248	0.7 -0.5	21 -15	18 M	0914 2241	0.5 -0.4	15 -12	3 W	1010	0.5	15	18 Th	0931 2343	0.6 0.1	18 3	
4 M	1030 2339	0.6 -0.4	18 -12	19 Tu	0948 2323	0.5 -0.3	15 -9	4 Th	0010 1006	-0.2 0.5	-6 15	19 F	0926 1232 1459	0.6 0.5 0.6	18 15 18	
●				O									4 Su	0021 0635 1339 2113	0.6 0.7 0.6 0.7	18 21 18 21
5 Tu	1104	0.6	18	20 W	1018	0.5	15	5 F	0039 1003	-0.1 0.4	-3 12	20 Sa	0019 0837 1302 1720	0.2 0.5 0.4 0.5	6 15 12 15	
6 W	0026 1119	-0.4 0.5	-12 15	21 Th	0003 1039	-0.3 0.5	-9 15	6 Sa	0102 0946	0.0 0.4	0 12	21 Su	0054 0720 1343 1941	0.3 0.5 0.4 0.5	9 15 12 15	
7 Th	0107 1125	-0.3 0.4	-9 12	22 F	0039 1048	-0.3 0.4	-9 12	7 Su	0119 0851 1544 1933	0.1 0.4 0.1 0.2	3 12 3 6	22 M	0123 0647 1431	0.4 0.6 0.2	12 18 6	
8 F	0140 1127	-0.2 0.4	-6 12	23 Sa	0113 1033	-0.2 0.3	-6 9	8 M	0119 0814 1608	0.1 0.4 0.2	3 12 6	23 Tu	0629 1525	0.6 0.2	18 6	
9 Sa	0205 1117	-0.1 0.3	-3 9	24 Su	0143 0931 1554 1913	-0.1 0.3 0.1 0.2	-3 9 3 6	9 Tu	0752 1640	0.4 0.1	12 3	24 W	0623 1624	0.7 0.1	21 3	
10 Su	0218 1036	0.0 0.3	0 9	25 M	0203 0848 1626	0.1 0.3 0.0	3 9 0	10 W	0736 1720	0.5 0.0	15 0	25 Th	0631 1728	0.8 0.0	24 0	
●				O									10 Sa	0504 1816	1.1 0.4	34 12
11 M	0001 0951 1836	0.1 0.3 0.0	3 9 0	26 Tu	0821 1710	0.4 -0.1	12 -3	11 Th	0726 1807	0.5 0.0	15 0	26 F	0652 1836	0.9 0.0	27 0	
12 Tu	0923 1844	0.3 -0.1	9 -3	27 W	0803 1802	0.4 -0.2	12 -6	12 F	0719 1859	0.6 -0.1	18 -3	27 Sa	0726 1944	0.9 0.0	27 0	
13 W	0900 1910	0.4 -0.2	12 -6	28 Th	0758 1858	0.5 -0.3	15 -9	13 Sa	0717 1953	0.7 -0.1	21 -3	28 Tu	0804 2049	0.9 0.1	27 3	
14 Th	0845 1945	0.4 -0.2	12 -6	29 F	0808 1957	0.6 -0.4	18 -12	14 Su	0739 2047	0.7 -0.1	21 -3	29 M	0836 2146	0.9 0.1	27 3	
15 F	0833 2026	0.4 -0.3	12 -9	30 Sa	0834 2057	0.6 -0.4	18 -12	15 M	0814 2138	0.7 -0.1	21 -3	30 Tu	0832 2233	0.9 0.2	27 6	
				31 Su	0911 2154	0.7 -0.4	21 -12					31 W	0822 2310	0.8 0.3	24 9	

Time meridian 90° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Port O'Connor, Texas, 2016

Times and Heights of High and Low Waters

October				November				December															
	Time	Height		Time	Height		Time	Height		Time	Height												
1 Sa	0434 1151 2020 2312	1.1 0.9 1.1 1.0	34 27 34 30	16 Su	0202 1057 2101 2350	1.2 0.8 1.3 1.2	37 24 40 37	1 Tu	0052 1203 2323	1.3 0.7 1.3	40 21 40	16 W	0003 1223	1.3 0.2	40 6	1 Th	1226 2353	0.1 1.0	3 30	16 F	0113 1315	0.8 -0.3	24 -9
2 Su	0355 1213	1.1 0.8	34 24	17 M	0135 1142 2247	1.3 0.7 1.4	40 21 43	2 W	1240	0.6	18	17 Th	0100 1320	1.3 0.2	40 6	2 F	1309	0.1	3	17 Sa	0152 1404	0.7 -0.3	21 -9
3 M	0333 1239	1.2 0.8	37 24	18 Tu	1233	0.6	18	3 Th	0001 1322	1.3 0.6	40 18	18 F	0149 1418	1.3 0.2	40 6	3 Sa	0027 1353	0.9 0.1	27 3	18 Su	0125 1448	0.6 -0.2	18 -6
4 Tu	0320 1311	1.2 0.7	37 21	19 W	0043 1329	1.5 0.5	46 15	4 F	0045 1410	1.4 0.6	43 18	19 Sa	0216 1515	1.2 0.3	37 9	4 Su	0059 1435	0.9 0.1	27 3	19 M	0105 1524	0.5 -0.1	15 -3
5 W	0021 1350	1.3 0.7	40 21	20 Th	0204 1430	1.5 0.5	46 15	5 Sa	0129 1501	1.4 0.6	43 18	20 Su	0220 1608	1.1 0.4	34 12	5 M	0126 1516	0.8 0.1	24 3	20 Tu	0057 1548	0.4 0.0	12 0
6 Th	0115 1437	1.3 0.7	40 21	21 F	0257 1535	1.5 0.6	46 18	6 Su	0210 1553	1.3 0.6	40 18	21 M	0221 1655	1.1 0.5	34 15	6 Tu	0144 1552	0.8 0.2	24 6	21 W	0039 1535 2349	0.4 0.1 0.3	12 3 9
7 F	0207 1532	1.4 0.7	43 21	22 Sa	0332 1640	1.5 0.6	46 18	7 M	0245 1645	1.3 0.6	40 18	22 Tu	0222 1731	1.0 0.6	30 18	7 W	0144 1622	0.7 0.3	21 9	22 Th	0900 2307	0.0 0.3	0 9
8 Sa	0258 1631	1.4 0.7	43 21	23 Su	0348 1744	1.4 0.7	43 21	8 Tu	0312 1734	1.2 0.7	37 21	23 W	0214 1127 1501 1752	0.9 0.6 0.7 0.6	27 18 21 18	8 Th	0051 1322 2344	0.6 0.4 0.6	18 12 18	23 F	0846 2240	-0.1 0.4	-3 12
9 Su	0345 1733	1.4 0.7	43 21	24 M	0357 1842	1.4 0.8	43 24	9 W	0325 1823	1.2 0.8	37 24	24 Th	0136 0951	0.9 0.6	27 18	9 F	0811 2256	0.3 0.6	9 18	24 Sa	0856 2227	-0.1 0.4	-3 12
10 M	0426 1833	1.4 0.7	43 21	25 Tu	0404 1931	1.3 0.9	40 27	10 Th	0259 1012 1217 1911	1.1 0.8 0.9 0.8	34 24 27 24	25 F	0043 0948	0.9 0.5	27 15	10 Sa	0828 2228	0.1 0.7	3 21	25 Su	0917 2228	-0.2 0.4	-6 12
11 Tu	0500 1928	1.4 0.8	43 24	26 W	0405 1122 1353 2008	1.2 1.0 1.1 1.0	37 30 34 30	11 F	0134 0907	1.0 0.8	30 24	26 Sa	0006 0958 2345	0.9 0.4 0.9	27 12 27	11 Su	0903 2223	0.0 0.7	0 21	26 M	0945 2238	-0.3 0.4	-9 12
12 W	0523 2021	1.3 0.9	40 27	27 Th	0347 1035 1731 2034	1.2 1.0 1.1 1.0	37 30 34 30	12 Sa	0035 0925 2354	1.0 0.7 1.1	30 21 34	27 Su	1015 2340	0.3 0.9	9 27	12 M	0946 2242	-0.2 0.8	-6 24	27 Tu	1018 2251	-0.4 0.4	-12 12
13 Th	0523 1005 1245 2111	1.2 1.1 1.2 1.0	37 34 37 30	28 F	0247 1039	1.2 0.9	37 27	13 Su	0959 2327	0.5 1.2	15 37	28 M	1039 2335	0.3 0.9	9 27	13 Tu	1035 2325	-0.3 0.8	-9 24	28 W	1057 2308	-0.4 0.4	-12 12
14 F	0407 0955 1611 2201	1.2 1.0 1.2 1.1	37 30 37 34	29 Sa	0158 1052	1.2 0.8	37 24	14 M	1041 2308	0.4 1.3	12 40	29 Tu	1109 2307	0.2 1.0	6 30	14 W	1128	-0.3	-9	29 Th	1137 2328	-0.4	-12
15 Sa	0250 1020 1903 ○ 2253	1.2 0.9 1.2 1.1	37 27 37 34	30 Su	0126 1110	1.2 0.8	37 24	15 Tu	1130	0.3	9	30 W	1145 2321	0.1 1.0	3 30	15 Th	0020 1222	0.8 -0.3	24 -9	30 F	1218 2349	-0.5 0.4	-15 12
				31 M	0113 1134	1.3 0.7	40 21									31 Sa	1257	-0.5	-15				

Time meridian 90° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Padre Island (south end), Texas, 2016

Times and Heights of High and Low Waters

January				February				March				
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	
h m	ft	cm		h m	ft	cm		h m	ft	cm		
1 0338	0.7	21		16 0222	0.2	6		1 0313	0.1	3		
F 0749	0.8	24	Sa	0846	0.7	21	M 1805	1.0	30	Tu 1317	-0.5	-15
1255	0.6	18	Sa	1321	0.5	15						
O 2019	1.2	37	O 1925	1.0	30							
2 0403	0.5	15	17 0310	-0.1	-3	2 0358	-0.1	-3	17 0429	-0.6	-18	
Sa 1116	0.9	27	Su 1127	0.9	27	Tu 1439	1.0	30	W 1414	1.3	40	
1318	0.8	24	Su 1438	0.8	24							
2016	1.1	34	1922	1.0	30							
3 0432	0.3	9	18 0402	-0.4	-12	3 W 0444	-0.2	-6	18 0530	-0.6	-18	
Su 2005	1.1	34	M 1323	1.1	34	W 1447	1.1	34	Th 1456	1.3	40	
			1654	0.9	27							
			1903	1.0	30							
4 0503	0.1	3	19 0454	-0.6	-18	4 Th 0528	-0.4	-12	19 F 0627	-0.6	-18	
M 1454	1.1	34	Tu 1432	1.2	37	Th 1511	1.2	37	F 1531	1.3	40	
1703	1.0	30										
1936	1.1	34										
5 0535	-0.1	-3	20 0546	-0.8	-24	5 F 0613	-0.5	-15	20 Sa 0719	-0.5	-15	
Tu 1515	1.2	37	W 1523	1.3	40	F 1539	1.3	40	Sa 1559	1.2	37	
									2037	1.0	30	
									2331	1.1	34	
6 0608	-0.2	-6	21 0637	-0.8	-24	6 Sa 0657	-0.6	-18	21 Su 0806	-0.3	-9	
W 1543	1.3	40	Th 1606	1.3	40	Sa 1607	1.3	40	Su 1622	1.1	34	
									2055	0.9	27	
7 0642	-0.4	-12	22 0726	-0.8	-24	7 Su 0742	-0.6	-18	22 M 0048	1.1	34	
Th 1613	1.4	43	F 1645	1.3	40	Su 1634	1.3	40	M 0849	-0.2	-6	
									1639	1.1	34	
								O 2120	0.8	24		
8 0719	-0.5	-15	23 0813	-0.8	-24	8 M 0828	-0.6	-18	23 Tu 0154	1.0	30	
F 1645	1.4	43	Sa 1718	1.3	40	M 2152	1.2	37	Tu 0929	0.0	0	
								1651	1.0	30		
								2148	0.7	21		
9 0757	-0.6	-18	24 0856	-0.6	-18	9 Tu 0050	1.0	30	24 W 0256	1.0	30	
Sa 1718	1.5	46	Su 1746	1.2	37	Tu 0914	-0.5	-15	W 1005	0.2	6	
								1657	0.9	27		
								2218	0.6	18		
10 0837	-0.7	-21	25 0937	-0.4	-12	10 W 0218	1.0	30	25 Th 0358	1.0	30	
Su 1751	1.5	46	M 1809	1.2	37	W 1001	-0.3	-9	Th 1039	0.4	12	
			M 2308	0.9	27	W 1730	1.0	30	W 1657	0.9	27	
								2250	0.5	15		
11 0919	-0.6	-18	26 0146	1.0	30	11 Th 0349	0.9	27	10 Th 0328	1.2	37	
M 1820	1.4	43	Tu 1015	-0.2	-6	Th 1050	0.0	0	Th 1006	0.3	9	
			Tu 1826	1.1	34	Th 1738	0.9	27	W 1552	0.9	27	
			2341	0.8	24	Th 2333	0.3	9	W 2156	0.2	6	
12 1003	-0.5	-15	27 0258	0.9	27							
Tu 1845	1.3	40	W 1050	0.0	0							
			1837	1.0	30							
13 1048	-0.3	-9	28 0018	0.7	21							
W 1903	1.2	37	Th 0417	0.8	24							
			1122	0.2	6							
			1841	1.0	30							
14 0109	0.7	21	29 0059	0.6	18							
0349	0.8	24	F 0551	0.7	21							
1135	-0.1	-3	F 1150	0.4	12							
1916	1.1	34	1841	0.9	27							
15 0140	0.5	15	30 0143	0.4	12							
0608	0.7	21	Sa 0758	0.7	21							
1225	0.2	6	Sa 1212	0.6	18							
1923	1.0	30	Sa 1836	0.9	27							
31 0228	0.3	9										
Su 1826	0.9	27										

Time meridian 90° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Padre Island (south end), Texas, 2016

Times and Heights of High and Low Waters

April						May						June								
	Time	Height		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	0246 1219	0.1 1.5	3 46	16 Sa	0438 1234	0.3 1.4	9 43	1 Su	0311 1127	0.3 1.5	9 46	16 M	0504 1114	0.8 1.2	24 37	1 W	0045 0532	1.0 0.8	30 24	
	2250	1.2	37		1830	1.0	30		1810	0.9	27		1814	0.5	15		1009 1758	1.0 -0.2	30 -6	
2 Sa	0357 1251	0.1 1.5	3 46	17 Su	0546 1252	0.5 1.3	15 40	2 M	0429 1144	0.4 1.3	12 40	17 Tu	0114 0620	1.2 0.9	37 27	2 Th	0208 0716	1.2 0.9	37 27	
	1848	0.9	27		1806	0.7	21		1117	1.2	37		1002	1.0	30		1837	-0.5	-15	
3 Su	0505 1315	0.1 1.4	3 43	18 M	0024 0648	1.2 0.7	37 21	3 Tu	0548 1155	0.6 1.2	18 37	18 W	0223 0736	1.3 1.0	40 30	3 F	0317 1920	1.4 -0.8	43 -24	
	1858 2237	1.1 1.2	34 37		1304	1.2	37		1110	1.1	34		1905	0.1	3		18 Sa	0423 1933	1.3 -0.5	40 -15
4 M	0611 1333	0.2 1.3	6 40	19 Tu	0137 0745	1.3 0.8	40 24	4 W	0115 0706	1.3 0.7	40 21	19 Th	0318 1931	1.3 0.0	40 0	4 Sa	0419 2005	1.5 -1.0	46 -30	
	1905	0.9	27		1310	1.2	37		1200	1.1	34		1859	0.0	0		●			
5 Tu	0019 0714	1.2 0.3	37 9	20 W	0239 0840	1.4 0.9	43 27	5 Th	0233 0825	1.4 0.9	43 27	20 F	0407 1956	1.4 -0.1	43 -3	5 Su	0517 2052	1.6 -1.0	49 -30	
	1346 1929	1.2 0.6	37 18		1308	1.1	34		1200	1.0	30		1937	-0.3	-9		20 M	0532 2036	1.4 -0.6	43 -18
6 W	0143 0816	1.3 0.5	40 40	21 Th	0334 0935	1.4 1.0	43 30	6 F	0345 2019	1.6 -0.5	49 -15	21 Sa	0451 2023	1.4 -0.2	43 -6	6 M	0611 2139	1.6 -0.9	49 -27	
	1354 2002	1.1 0.3	34 9		1257	1.1	34		1937	-0.3	-9		○				21 Tu	0606 2111	1.4 -0.6	43 -18
7 Th	0301 0919	1.4 0.6	43 18	22 F	0424 2049	1.4 0.1	43 3	7 Sa	0453 2104	1.6 -0.7	49 -21	22 Su	0533 2052	1.4 -0.3	43 -9	7 Tu	0701 2227	1.5 -0.7	46 -21	
	1358 2041	1.0 0.0	30 0		2000	0.4	12		2104	-0.7	-21		22	0639 2149	1.4 -0.6	43 -18				
8 F	0417 1026	1.5 0.8	46 24	23 Sa	0513 2115	1.4 0.1	43 3	8 Su	0600 2152	1.7 -0.7	52 -21	23 M	0615 2124	1.5 -0.3	46 -9	8 W	0744 2315	1.5 -0.5	46 -15	
	1357 2124	1.0 -0.3	30 -9		2115	0.1	3		2152	-0.7	-21		22	0710 2230	1.4 -0.5	43 -15				
9 Sa	0533 1145	1.5 0.9	46 27	24 Su	0603 2145	1.5 0.0	46 0	9 M	0705 2243	1.7 -0.6	52 -18	24 Tu	0657 2200	1.5 -0.3	46 -9	9 Th	0821 2314	1.4 -0.3	43 -9	
	1345 2212	1.0 -0.4	30 -12		2145	0.0	0		2243	-0.6	-18		24	0738 2314	1.4 -0.3	43 -9				
10 Su	0652 2304	1.6 -0.5	49 -15	25 M	0657 2220	1.5 0.0	46 0	10 Tu	0807 2336	1.6 -0.5	49 -15	25 W	0740 2241	1.5 -0.3	46 -9	10 F	0003 0849	-0.2 1.3	-6 40	
	2304	-0.5	-15		2220	0.0	0		2336	-0.5	-15		2241	-0.3	-9		25 Sa	0800 2304	1.3 40	
11 M	0813	1.6	49	26 Tu	0754 2302	1.5	46	11 W	0903	1.6	49	26 Th	0821 2326	1.6	49	11 Sa	0052 0910	0.1 1.2	3 37	
	2302	0.0	0		2302	0.0	0		2326	-0.2	-6		2326	0.6	18		26 Su	0002 0815	-0.1 1.2	-3 37
12 Tu	0002 0932	-0.4 1.6	-12 49	27 W	0852 2351	1.6	49	12 Th	0033 0948	-0.2 1.5	-6 46	27 F	0857	1.5	46	12 Su	0143 0924	0.4 1.2	12 37	
	0932	1.6	49		2351	0.0	0		0948	1.5	46		0948	0.5	15		27 M	0055 1537	0.2 0.3	6 9
13 W	0105 1040	-0.3 1.6	-9 49	28 Th	0946	1.6	49	13 F	0133 1022	0.1 1.5	3 46	28 Sa	0019 0926	-0.1 1.5	-3 46	13 M	0241 0932	0.6 1.1	18 34	
	1040	1.6	49		1022	1.5	3		1022	-0.8	-24		1022	0.3	9		28 Tu	0201 0829	0.5 1.0	15 30
14 Th	0213 1131	-0.1 1.5	-3 46	29 F	0049 1029	0.1	3	14 Sa	0238 1047	0.3 1.4	9 43	29 Su	0119 0947	0.1 1.4	3 43	14 Tu	0035 0359	0.9 0.8	27 24	
	1131	1.5	46		1029	1.6	49		1047	1.4	43		1047	0.7	21		29 W	0333 0827	0.7 1.0	21 30
15 F	0326 1207	0.1 1.5	3 46	30 Sa	0156 1103	0.2	6	15 Su	0350 1104	0.6 1.3	18 40	30 M	0230 1001	0.4 1.2	12 37	15 W	0204 0542	1.0 0.9	30 27	
	1207	1.5	46		1103	1.6	49		1104	0.7	21		1104	0.5	15		30 Th	0142 0545	1.1 0.9	34 27
									2344	1.1	34		2344	0.9	27		31 Tu	0355 1008	0.6 1.1	18 34
																31 Th	1008 1725	0.1 0.1	3 3	

Time meridian 90° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Padre Island (south end), Texas, 2016

Times and Heights of High and Low Waters

July				August				September											
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height								
h m 0249 F 1821	ft 1.2 -0.9	cm 37 -27	h m 0344 Sa 1834	ft 1.2 -0.4	cm 37 -12	h m 0420 M 1951	ft 1.4 -0.7	cm 43 -21	h m 0347 Tu 1927	ft 1.5 -0.2	cm 46 -6	h m 0405 Th 1356	ft 1.5 0.4	cm 46 12	h m 0300 F 1357	ft 1.6 1.5	cm 49 52		
1 F 1821			16 Sa 1834			1 M 1951			16 Tu 1927			16 F 1356			16 O 2052				
2 Sa	0345 1909	1.4 -1.0	43 -30	17 Su 1910	0.5 -0.5	40 -15	2 Tu 2038	0.5 -0.5	43 -15	17 W 1120	1.2 -0.1	46 -3	2 F 1502	1.0 0.6	43 -30	17 Sa 1515	0.9 1.7	46 52	
							●			2011			2157	0.6	18	2147	0.9	27	
3 Su	0435 1957	1.4 -1.0	43 -30	18 M 1946	0.5 -0.5	40 -15	3 W 1246	1.1 1.2	40 37	18 Th 1249	1.3 1.3	46 40	3 Sa 1606	0.9 1.5	40 46	18 Su 1633	0.6 1.8	43 55	
							2122	-0.3	-9	3 O 2055	0.0	0	2237	0.8	24	2245	1.1	34	
4 M	0520 2044	1.4 -1.0	43 -30	19 Tu 2023	0.6 -0.6	43 -18	4 Th 1021	1.0 1.1	40 34	19 F 1410	1.0 1.3	43 40	4 Su 1712	0.8 1.4	40 43	19 M 1757	0.4 1.8	43 55	
							2204	-0.1	-3	2141	0.1	3	2315	1.0	30	2351	1.3	40	
5 Tu	0600 2130	1.4 -0.8	43 -24	20 W 2102	0.5 -0.5	43 -15	5 F 1057	0.9 1.1	37 34	20 Sa 1534	0.8 1.3	40 40	5 M 1826	0.7 1.4	40 43	20 Tu 1929	0.2 1.8	43 55	
							2242	0.2	6	2229	0.3	9	2355	1.2	37				
6 W	0634 2214	1.3 -0.6	40 -18	21 Th 2143	0.4 -0.4	40 -12	6 Sa 1137	0.8 1.0	34 30	21 Su 1705	1.2 1.2	37 37	6 Tu 1955	0.6 1.4	40 43	21 W 2107	0.1 1.9	3 58	
							2319	0.4	12	2319	0.6	18							
7 Th	0702 2257	1.2 -0.3	37 -9	22 F 2226	0.3 -0.3	40 -9	7 Su 1800	1.0 0.6	34 18	22 M 1848	0.4 1.2	34 37	7 W 2150	1.3 1.5	40 46	22 Th 2241	0.1 1.9	3 58	
							2353	0.6	18										
8 F	0724 2337	1.2 0.0	37 0	23 Sa 1221	0.8 0.9	37 27	8 M 1535	0.5 0.0	34 0	23 Tu 1953	0.9 0.9	34 27	8 Th 2049	1.1 1.3	34 40	23 F 2353	0.1 2.0	3 61	
							2310	0.0	0										
9 Sa	0740 1405	1.1 0.6	34 18	24 Su 1255	0.6 0.8	34 24	9 Tu 1735	1.1 0.8	34 24	24 W 2358	0.8 0.3	24 9	9 F 2258	0.5 1.4	15 43	24 Sa 1520	0.3	9	
							1255	0.6	18										
10 Su	0016 0750	0.2 1.1	6 34	25 M 1339	0.3 0.8	30 24	10 W 1957	0.9 0.8	27 34	25 Th 1448	1.1 0.3	27 9	10 Sa 1521	0.5 0.3	52 15	25 Su 1632	2.0 0.4	61 12	
							1447	0.5	15										
							1941	0.7	21										
11 M	0051 0755	0.5 1.0	15 30	26 Tu 0652	1.0 0.0	15 0	11 Th 1429	0.2 0.0	37 0	26 F 2236	1.2 0.9	1.5 27	11 Su 1622	0.5 0.1	52 15	26 M 1739	0.5 1.9	58 15	
							2236	0.9	27										
12 Tu	0121 0753	0.6 1.0	18 30	27 W 0648	1.0 1.0	24 30	12 F 1523	0.1 -0.3	40 -9	27 Sa 1655	1.3 0.1	40 3	12 M 1719	-0.2 -0.2	49 -6	27 Tu 1107	1.8 1.7	55 52	
							1608	0.2	6							1840	0.7	21	
13 W	0742 1646	1.0 0.0	30 0	28 Th 0408	1.0 1.0	34 30	13 Sa 1715	0.0 0.0	43 40	28 Su 1757	1.7 -0.2	52 -6	13 Tu 1814	0.4 0.4	55 12	28 W 1935	1.8 0.9	55 27	
							0625	1.1	34										
							1618	-0.5	-15										
14 Th	0253 0512	1.0 0.9	30 27	29 F 1714	0.7 -0.7	40 -21	14 Su 1800	1.4 -0.1	43 -3	29 M 1853	1.6 -0.1	49 -3	14 W 1907	1.8 0.4	55 12	29 Th 1347	1.2 1.8	52 55	
							0658	1.0	30										
							1723	-0.2	-6										
15 F	0316 1759	1.1 -0.3	34 -9	30 Sa 1809	0.7 -0.7	43 -21	15 M 1844	1.5 -0.1	46 -3	30 Tu 1944	1.6 0.1	49 3	15 Th 1959	1.7 0.5	52 15	30 F 1451	1.6 1.8	49 55	
							0316									2115	1.2	37	
							31	0342 Su	1.4 1.0	43 -21				31 W 1901	1.5 -0.7	46 -21			

Time meridian 90° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
 Heights are referred to mean lower low water which is the chart datum of soundings.

Padre Island (south end), Texas, 2016

Times and Heights of High and Low Waters

October					November					December							
	Time	Height		Time	Height		Time	Height		Time	Height		Time	Height			
1 Sa	0231 0843 1549 2203	1.6 1.0 1.8 1.3	ft 30 55 40	49 15 64 43	16 Su	0120 0817 1601 2210	1.6 0.5 2.1 1.4	ft 49 15 64 43	0.5 2.0 61	1 Tu	0906 1805	0.5 2.0	ft 15 61	16 W	0928 1843	-0.4 2.1	cm -12 64
2 Su	0228 0911 1646 2254	1.5 0.8 1.9 1.4	ft 46 24 58 43	46 6 64	17 M	0116 0858 1714	1.5 0.2 2.1	ft 46 6 64	0.4 2.0 61	2 W	0935 1855	0.4 2.0	ft 12 61	17 Th	1018 1943	-0.3 2.1	cm -9 64
3 M	0216 0939 1743	1.5 0.8 1.9	ft 46 58 43	18 Tu	0944 1829	0.1 2.2	ft 3 67	0.4 2.0	3 Th	1007 1945	0.4 2.0	ft 12 61	18 F	1111 2035	-0.2 2.0	cm -6 61	
4 Tu	1009 1844	0.7 1.9	ft 21 58	19 W	1035 1945	0.0 2.2	ft 0 67	0.5 2.1	4 F	1044 2035	0.5 2.1	ft 15 64	19 Sa	1205 2118	0.1 2.0	ft 3 61	
5 W	1043 1953	0.7 1.9	ft 21 58	20 Th	1130 2100	0.0 2.2	ft 0 67	0.5 2.1	5 Sa	1127 2120	0.5 2.1	ft 15 64	20 Su	1303 2151	0.4 1.9	ft 12 58	
6 Th	1122 2107	0.7 1.9	ft 21 58	21 F	1230 2205	0.2 2.1	ft 6 64	0.6 2.1	6 Su	1218 2158	0.6 2.1	ft 18 64	21 M	1405 2215	0.7 1.8	ft 21 55	
7 F	1209 2216	0.7 2.0	ft 21 61	22 Sa	1335 2255	0.4 2.1	ft 12 64	0.7 2.0	7 M	1318 2228	0.7 2.0	ft 21 61	22 Tu	0511 0857	1.2 1.3	ft 37 40	
8 Sa	1306 2309	0.7 2.0	ft 21 61	23 Su	1446 2332	0.6 2.0	ft 18 61	0.8 2.0	8 Tu	1428 2251	0.8 2.0	ft 24 61	23 W	0527 1124	1.0 1.4	ft 30 43	
9 ○	1412 2347	0.8 2.1	ft 24 64	24 M	1559 2358	0.8 1.9	ft 24 58	0.6 1.9	9 W	0603 0903	1.3 1.4	ft 40 43	24 Th	0554 1513	0.8 0.9	ft 24 27	
10 M	1523	0.8	ft 24	25 Tu	0610 1026	1.5 1.6	ft 46 49	1.2 1.5	10 Th	0550 1126	1.2 1.5	ft 37 46	24 F	0554 1752	0.8 1.3	ft 24 40	
11 Tu	0017 1633	2.0 0.8	ft 61 24	26 W	0017 0628	1.9 1.3	ft 58 40	0.8 1.7	11 F	0608 1302	0.8 1.7	ft 24 52	25 Sa	0533 1352	0.1 1.5	ft 3 46	
12 W	0040 0645 1026 1741	2.0 1.6 1.7 0.9	ft 61 49 52 27	27 Th	0029 0653 1332 1924	1.8 1.1 1.8 1.4	ft 55 34 55 43	0.5 1.9 1.4 1.5	12 Sa	0637 1420	0.5 1.9	ft 15 58	25 Su	0624 1419	0.6 1.6	ft 18 49	
13 Th	0057 0649 1209 1847	1.9 1.4 1.8 1.0	ft 58 43 55 30	28 F	0036 0720 1438 2028	1.7 0.9 1.9 1.5	ft 52 27 58 46	0.1 1.4 1.9 1.5	13 Su	0714 1530	0.1 2.0	ft 3 61	26 M	0656 1608	-0.5 1.8	ft -15 55	
14 F	0109 0710 1332 1952	1.7 1.1 1.9 1.1	ft 52 34 58 34	29 Sa	0035 0747 1535 2135	1.6 0.8 1.9 1.5	ft 49 24 58 46	-0.1 2.1 1.5 1.5	14 M	0755 1636	-0.1 2.1	ft -3 64	27 Tu	0721 1657	-0.3 1.5	ft -9 46	
15 Sa	0117 0740 1448 2058	1.6 0.8 2.0 1.3	ft 49 24 61 40	30 Su	0022 0813 1627	1.6 0.7 2.0	ft 49 21 61	-0.3 2.1 64	15 Tu	0840 1741	-0.3 2.1	ft -9 64	28 W	0845 1813	0.0 1.8	ft 0 55	
				31 M	0840 1717	0.5 2.0	ft 15 61						15 Th	0918 1838	-0.8 1.8	ft -24 55	
													30 F	0901 1825	-0.4 1.5	ft -12 46	
													31 Sa	0935 1850	-0.3 1.5	ft -9 46	

Time meridian 90° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Tampico Harbor (Madero), Mexico, 2016

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 F 0225 0723 1248 O 1930	0.5 0.7 0.5 1.0	15 21 15 30	16 Sa 0142 0743 1312 O 1904	0.4 0.8 0.6 1.0	12 24 18 30	1 M 0230 1748	0.1 1.0	3 30	16 Tu 0259 1318	-0.2 1.2	-6 37	1 Tu 0127 1152	0.2 1.2	6 37	16 W 0226 1236	-0.1 1.3	-3 40
2 Sa 0303 1031 1323 1937	0.4 0.7 0.6 1.0	12 21 18 30	17 Su 0234 1059 1430 1916	0.1 0.9 0.8 1.0	3 27 24 30	2 Tu 0324 1433	0.0 1.1	0 34	17 W 0409 1420	-0.3 1.2	-9 37	2 W 0219 1308	0.1 1.3	3 40	17 Th 0341 1338	-0.1 1.3	-3 40
3 Su 0344 1933	0.2 1.0	6 30	18 M 0334 1304	-0.1 1.1	-3 34	3 W 0417 1442	-0.1 1.2	-3 37	18 Th 0513 1458	-0.3 1.2	-9 37	3 Th 0321 1351	0.1 1.3	3 40	18 F 0453 1414 1956 2203	0.0 1.2 0.9 1.0	0 37 27 30
4 M 0425 1422	0.1 1.0	3 30	19 Tu 0433 1425	-0.3 1.2	-9 37	4 Th 0506 1502	-0.2 1.3	-6 40	19 F 0612 1525	-0.3 1.2	-9 37	4 F 0423 1416	0.0 1.4	0 43	19 Sa 0558 1433 1953 2320	0.1 1.1 0.9 1.0	3 34 27 30
5 Tu 0504 1451	-0.1 1.1	-3 34	20 W 0528 1508	-0.5 1.2	-15 37	5 F 0553 1522	-0.3 1.3	-9 40	20 Sa 0706 1544 2049 2348	-0.3 1.1 0.8 0.9	-9 34 24 27	5 Sa 0520 1432	0.0 1.4	0 43	20 Su 0655 1438 2001	0.2 1.1 0.8	6 34 24
6 W 0544 1518	-0.2 1.2	-6 37	21 Th 0622 1545	-0.6 1.2	-18 37	6 Sa 0640 1540	-0.3 1.3	-9 40	21 Su 0749 1553 2057	-0.2 1.0 0.8	-6 30 24	6 Su 0617 1444 2014 2307	0.0 1.4 1.1 1.2	0 43 34 37	21 M 0029 0741 1437 2011	1.0 0.3 1.0 0.7	30 9 30 21
7 Th 0624 1545	-0.3 1.3	-9 40	22 F 0713 1616	-0.6 1.2	-18 37	7 Su 0726 1557 2113 2330	-0.4 1.3 1.0 1.1	-12 40 30 34	22 M 0058 0825 1557 O 2107	0.9 -0.1 1.0 0.7	27 -3 30 21	7 M 0712 1455 2014	0.0 1.3 1.0	0 40 30	22 Tu 0136 0817 1439 2023	1.1 0.4 1.0 0.6	34 12 30 18
8 F 0703 1612	-0.4 1.3	-12 40	23 Sa 0756 1642 2154	-0.6 1.1 0.7	-18 34 21	8 M 0809 1613 2120	-0.4 1.3 1.0	-12 40 30	23 Tu 0202 0856 1603 2121	0.9 0.0 1.0 0.6	27 0 30 18	8 ● 0026 0802 1506 2031	1.2 0.0 1.3 0.8	37 0 30 24	23 W 0232 0848 1445 O 2041	1.1 0.5 1.0 0.4	34 15 30 12
9 Sa 0741 1638	-0.5 1.4	-15 43	24 Su 0007 0833 1701 2211	0.8 -0.5 1.0 0.7	24 -15 30 21	9 Tu 0054 0850 1629 2141	1.1 -0.3 1.2 0.8	34 -9 37 24	24 W 0256 0926 1612 2144	1.0 0.2 0.9 0.5	30 6 27 15	9 ● 0150 0849 1520 2058	1.3 0.2 1.2 0.6	40 6 37 18	24 Th 0320 0917 1454 2104	1.2 0.6 1.0 0.3	37 18 30 9
10 Su 0818 1704	-0.5 1.4	-15 43	25 M 0124 0907 1715 2234	0.8 -0.4 1.0 0.7	24 -12 30 21	10 W 0218 0933 1647 2216	1.1 -0.1 1.2 0.7	34 -3 37 12	25 Th 0348 0957 1622 2218	1.0 0.3 1.0 0.4	30 9 30 12	10 Th 0302 0936 1536 2134	1.3 0.4 1.1 0.3	40 12 34 9	25 F 0409 0949 1504 2134	1.2 0.7 1.0 0.3	37 21 30 9
11 M 0856 1729	-0.5 1.3	-15 40	26 Tu 0229 0940 1728 2306	0.8 -0.2 0.9 0.6	24 -6 27 18	11 Th 0332 1021 1704 2306	1.1 0.1 1.1 0.5	34 3 34 15	26 F 0448 1033 1634 2303	1.0 0.5 1.0 0.3	30 15 30 9	11 F 0414 1031 1553 2221	1.3 0.6 1.1 0.1	40 18 34 3	26 Sa 0505 1029 1511 2210	1.2 0.9 1.0 0.2	37 27 30 6
12 Tu 0935 1751	-0.3 1.3	-9 40	27 W 0325 1014 1740 2346	0.8 0.0 0.9 0.5	24 0 27 15	12 F 0455 1120 1722	1.0 0.4 1.1	30 12 34	27 Sa 0556 1118 1643 2354	1.0 0.7 1.0 0.3	30 21 30 9	12 Sa 0537 1143 1609 2320	1.3 0.8 1.1 0.0	40 24 34 0	27 Su 0605 1138 1513 2255	1.2 1.0 1.1 0.2	37 30 34 6
13 W 0001 0230 1021 1811	0.9 1.0 -0.2 1.2	27 30 -6 37	28 Th 0429 1053 1753	0.8 0.2 0.9	24 6 27	13 Sa 0002 0631 1225 1739	0.3 1.0 0.7 1.0	9 30 21 30	28 Su 0715 1211 1645	1.0 0.9 1.0	30 27 30	13 Su 0707 1258 1624	1.2 1.0 1.1	37 30 34	28 M 0712 2345	1.2 0.2	37 6
14 Th 0026 0355 1116 1830	0.8 0.9 0.1 1.1	24 27 3 34	29 F 0024 0548 1136 1805	0.4 0.7 0.4 0.9	12 21 12 27	14 Su 0057 0900 1330 1752	0.1 1.0 0.9 1.0	3 30 27 30	29 M 0041 1032 1301 1625	0.2 1.0 0.9 1.1	6 30 27 34	14 M 0021 0946	-0.1 1.2	-3 37	29 Tu 0937	1.3	40
15 F 0100 0541 1215 1848	0.6 0.8 0.3 1.1	18 24 9 34	30 Sa 0101 0718 1216 1812	0.3 0.7 0.6 0.9	9 21 18 27	15 M 0153 1135	-0.1 1.1	-3 34	15 O 0120 1124	-0.2 1.3	-6 40	15 O 0120 1124	-0.2 1.3	-6 40	30 W 0034 1055	0.2 1.4	6 43
			31 Su 0142 1043 1248 1812	0.2 0.8 0.7 1.0	6 24 21 30							31 Th 0124 1136	0.2 1.4	6 43			

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

Tampico Harbor (Madero), Mexico, 2016

Times and Heights of High and Low Waters

April						May						June															
	Time	Height		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		h m	ft cm										
1 F	0223 1211	0.2 1.5	6 46	16 Sa	0422 1232	0.3 1.1	9 34	1 Su	0248 1109	0.4 1.4	12 43	16 M	0450 1058	0.7 1.0	21 30	1 W	0531 1027	0.8 1.1	24 34	16 Th	0223 1808	1.1 0.0	34 0				
2 Sa	0335 1239	0.2 1.5	6 46	17 Su	0531 1241	0.4 1.1	12 34	2 M	0415 1126	0.5 1.3	15 40	17 Tu	0028 0611	1.0 0.8	30 24	2 Th	0131 0714	1.2 0.9	37 27	17 F	0304 1844	1.2 -0.2	37 -6				
3 Su	0447 1300	0.3 1.4	9 43	18 M	0637 1244	0.6 1.0	18 30	3 Tu	0537 1142	0.6 1.3	18 40	18 W	0148 0728	1.1 0.9	34 27	3 F	0243 0828	1.4 0.9	43 27	18 Sa	0338 1919	1.2 -0.3	37 -9				
4 M	0555 1316	0.3 1.4	9 43	19 Tu	0108 0731	1.1 0.6	34 18	4 W	0033 0659	1.3 0.7	40 21	19 Th	0242 0818	1.2 0.9	37 27	4 Sa	0340 0922	1.4 0.9	43 27	19 Su	0411 1952	1.3 -0.4	40 -12				
5 Tu	0701 1331	0.4 1.3	12 40	20 W	0211 0812	1.2 0.7	37 21	5 Th	0159 0808	1.4 0.8	43 24	20 F	0325 0856	1.3 0.9	40 27	5 Su	0434 2039	1.4 -0.7	43 -21	20 M	0444 2023	1.3 -0.4	40 -12				
6 W	0800 1348	0.5 1.2	15 37	21 Th	0300 0846	1.3 0.8	40 24	6 F	0307 0904	1.5 0.9	46 27	21 Sa	0404 2012	1.3 -0.2	40 -6	6 M	0528 2122	1.4 -0.7	43 -21	21 Tu	0517 2055	1.3 -0.4	40 -12				
7 Th	0230 0853	1.4 0.6	43 18	22 F	0344 0918	1.3 0.9	40 27	7 Sa	0411 1004	1.5 1.0	46 30	22 Su	0446 2042	1.3 -0.2	40 -6	7 Tu	0617 2208	1.3 -0.5	40 -15	22 W	0548 2129	1.4 -0.3	43 -9				
● ●	2030 2030	0.2 0.2	6 6	23 Sa	0430 0955	1.3 1.0	40 30	8 Su	0516 2136	1.5 -0.5	46 -15	23 M	0528 2113	1.4 -0.2	43 -6	8 W	0700 2258	1.2 -0.3	37 -9	23 Th	0617 2208	1.4 -0.2	43 -6				
8 F	0338 0945	1.5 0.8	46 24	24 Sa	0520 0955	1.3 1.0	40 30	9 M	0621 2226	1.5 -0.4	46 -12	24 Tu	0609 2146	1.4 -0.2	43 -6	9 Th	0738 2352	1.1 -0.1	34 -3	24 F	0643 2255	1.3 0.0	40 0				
9 Sa	0450 1054	1.5 0.9	46 27	25 Su	0520 1110	1.3 1.0	40 30	10 Tu	0724 2324	1.4 -0.3	43 -9	25 W	0649 2226	1.4 -0.1	43 -3	10 F	0812 2326	1.1 -0.1	34 -3	25 Sa	0707 2351	1.3 0.2	40 6				
10 Su	0606 1224	1.5 1.0	46 30	26 M	0612 2213	1.4 0.0	43 0	11 W	0843	1.3	40	26 Tu	0730 2315	1.4 0.0	43 0	11 Sa	0040 0839	0.1 1.0	3 30	26 Su	0729 1411	1.3 0.8	40 24				
11 M	0727 2351	1.4 -0.2	43 -6	27 Tu	0706 2258	1.4 0.1	43 3	12 W	0843	1.3	40	27 F	0126 1605	0.4 0.6	12 18	27 Tu	0047 1449	0.4 0.6	12 18	27 O	2017	0.9	27				
12 Tu	0932	1.4	43	28 W	0816 2349	1.4 0.1	43 3	13 F	0022 1028	-0.1 1.2	46 37	27 F	0814	1.4	43	12 O	0126 2143	0.4 0.8	12 24	27 O	0047 2143	0.4 0.8	12 27				
13 W	0051 1050	-0.1 1.3	-3 40	28 Th	0949	1.5	46	13 F	0116 1028	0.1 1.2	3 37	28 Sa	0010 0856	0.1 1.4	3 43	13 M	0217 0913	0.6 1.0	18 30	28 Tu	0148 0812	0.7 1.1	21 34				
● ●	0051 2050	-0.1 1.3	-3 40	29 F	0042 1028	0.2 1.5	6 46	14 Sa	0213 1044	0.3 1.1	9 34	29 Su	0105 0925	0.3 1.3	9 40	14 O	0352 1842	0.8 0.9	24 27	29 W	0343 1626	0.9 0.0	27 0				
14 Th	0152 1136	0.0 1.3	0 40	30 F	0042 1028	0.2 1.5	6 46	15 Sa	0328 1052	0.5 1.0	15 30	30 M	0210 0947	0.5 1.3	15 40	15 W	0109 0545	1.0 0.9	30 27	30 Th	0343 0557	0.9 0.9	27 27				
15 F	0303 1211	0.2 1.2	6 37	30 Sa	0137 1052	0.3 1.5	9 46	15 Su	0328 1738	0.5 0.6	15 18	31 Tu	0348 1007	0.7 1.2	21 37	31 O	0348 1703	0.7 0.4	21 12	30 O	0101 0903	1.1 1.0	34 30				
								15 Su	0328 1738	0.5 0.9	15 27	31 Tu	0348 2307	0.7 1.0	21 30	31 O	0348 2210	0.7 1.0	21 30	30 Th	0101 1734	1.1 0.1	34 3	30 O	0101 1715	-0.2	34 -6

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

Tampico Harbor (Madero), Mexico, 2016

Times and Heights of High and Low Waters

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

Tampico Harbor (Madero), Mexico, 2016

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	0207	1.2	37	16 Su	0118	1.4	43	1 Tu	0843	0.1	3
	0816	0.6	18		0800	0.4	12		1713	1.5	46
	1516	1.5	46		1520	1.8	55				
	2117	0.9	27		2126	1.1	34				
2 Su	0216	1.2	37	17 M	0137	1.3	40	2 W	0914	0.1	3
	0839	0.5	15		0838	0.1	3		1802	1.5	46
	1604	1.5	46		1628	1.8	55				
	2153	1.0	30		2236	1.2	37				
3 M	0225	1.2	37	18 Tu	0155	1.3	40	3 Th	0949	0.1	3
	0907	0.4	12		0921	0.0	0		1851	1.6	49
	1658	1.5	46		1743	1.8	55				
	2250	1.1	34								
4 Tu	0230	1.2	37	19 W	1012	-0.1	-3	4 F	1030	0.2	6
	0940	0.4	12		1858	1.7	52		1943	1.6	49
	1757	1.5	46								
5 W	1021	0.4	12	20 Th	1113	-0.1	-3	5 Sa	1121	0.3	9
	1859	1.5	46		2031	1.7	52		2050	1.6	49
6 Th	1113	0.4	12	21 F	1219	0.0	0	6 Su	1214	0.4	12
	2026	1.6	49		2205	1.6	49		2142	1.6	49
7 F	1209	0.4	12	22 Sa	1322	0.2	6	7 M	1307	0.5	15
	2210	1.6	49		2252	1.5	46		2210	1.6	49
8 Sa	1301	0.5	15	23 Su	1430	0.4	12	8 Tu	1407	0.6	18
	2252	1.7	52		2322	1.5	46		2230	1.6	49
9 Su	1357	0.5	15	24 M	0546	1.0	30	9 W	0537	1.0	30
	2322	1.7	52		0819	1.1	34		0851	1.1	34
					1550	0.5	15		1530	0.8	24
					2340	1.4	43		2246	1.5	46
10 M	1505	0.6	18	25 Tu	0600	1.0	30	10 Th	0529	0.9	27
	2346	1.7	52		1033	1.2	37		1059	1.2	37
					1705	0.7	21		1657	0.9	27
					2351	1.3	40		2302	1.4	43
11 Tu	1618	0.7	21	26 W	0620	0.9	27	11 F	0548	0.7	21
					1148	1.3	40		1221	1.4	43
					1815	0.8	24		1823	1.0	30
					2357	1.2	37		2318	1.3	40
12 W	0006	1.7	52	27 Th	0641	0.7	21	12 Sa	0620	0.4	12
	0639	1.3	40		1303	1.3	40		1345	1.5	46
	1028	1.4	43		1921	0.9	27		1945	1.1	34
	1725	0.7	21						2335	1.3	40
13 Th	0024	1.6	49	28 F	0004	1.2	37	13 Su	0659	0.1	3
	0638	1.1	34		0702	0.6	18		1453	1.6	49
	1143	1.5	46		1408	1.4	43		2048	1.1	34
	1833	0.8	24		2010	1.0	30		2352	1.2	37
14 F	0042	1.5	46	29 Sa	0011	1.2	37	14 M	0740	-0.2	-6
	0657	0.9	27		0724	0.4	12		1553	1.7	52
	1300	1.6	49		1457	1.5	46		2150	1.1	34
	1936	0.9	27		2048	1.1	34		O		
15 Sa	0100	1.4	43	30 Su	0018	1.2	37	15 Tu	0004	1.2	37
	0726	0.6	18		0748	0.3	9		0823	-0.4	-12
	1415	1.7	52		1541	1.5	46		1656	1.7	52
	O 2032	1.0	30		2125	1.1	34				
				31 M	0021	1.2	37				
					0814	0.2	6				
					1625	1.5	46				

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

Cristobal (Colon), Panama, 2016

Times and Heights of High and Low Waters

January				February				March			
Time	Height	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 F 0713	0.8	24	16 0627	1.0	30	1 M 0002	-0.1	-3	16 Tu 0019	-0.2	-6
1300	0.4	12	Sa 1244	0.1	3	720	0.9	27	0625	0.9	27
1745	0.6	18	1747	0.6	18	1429	0.1	3	1344	-0.1	-3
●						1441	-0.2	-6	1900	0.3	9
						1903	0.3	9	2344	0.0	0
2 Sa 0026	-0.1	-3	17 0000	-0.2	-6	2 Tu 0023	0.0	0	20659	0.9	27
0740	0.9	27	Su 0708	1.1	34	750	1.0	30	1424	-0.1	-3
1404	0.3	9	1355	0.0	0	1518	0.0	0	1937	0.2	6
● 1829	0.5	15	1848	0.4	12	1947	0.2	6			
3 Su 0046	-0.1	-3	18 0036	-0.2	-6	3 W 0044	0.0	0	0014	0.0	0
0808	1.0	30	M 0752	1.2	37	8022	1.0	30	0735	1.0	30
1506	0.2	6	1501	-0.1	-3	1606	0.0	0	1505	-0.1	-3
1915	0.4	12	1951	0.3	9	2034	0.2	6	2015	0.2	6
4 M 0103	0.0	0	19 0112	-0.2	-6	4 Th 0108	0.0	0	0050	0.0	0
0837	1.0	30	Tu 0837	1.3	40	0858	1.1	34	0813	1.0	30
1606	0.2	6	1605	-0.1	-3	1655	-0.1	-3	1545	-0.1	-3
2006	0.3	9	2057	0.2	6	2124	0.1	3	2056	0.2	6
5 Tu 0119	0.0	0	20 0150	-0.1	-3	5 F 0135	0.0	0	0132	0.0	0
0907	1.1	34	W 0924	1.3	40	0936	1.1	34	0855	1.0	30
1704	0.1	3	1707	-0.2	-6	1743	-0.1	-3	1625	-0.1	-3
2103	0.2	6	2207	0.2	6	2223	0.1	3	2144	0.2	6
6 W 0133	0.0	0	21 0229	-0.1	-3	6 Sa 0209	0.0	0	0224	0.0	0
0940	1.1	34	Th 1012	1.3	40	1018	1.1	34	0942	1.0	30
1802	0.0	0	1808	-0.2	-6	1828	-0.1	-3	1706	-0.1	-3
2212	0.1	3	2325	0.2	6	2330	0.1	3	2239	0.3	9
7 Th 0143	0.0	0	22 0310	0.0	0	7 Su 0255	0.0	0	0328	0.0	0
1015	1.2	37	F 1101	1.3	40	1103	1.1	34	0516	0.2	6
1855	-0.1	-3	1906	-0.2	-6	1910	-0.2	-6	1225	0.8	24
2344	0.1	3							2004	-0.1	-3
8 F 0146	0.0	0	23 0051	0.2	6	8 M 0043	0.2	6	0447	0.0	0
1053	1.2	37	Sa 0354	0.1	3	0401	0.1	3	1131	0.8	24
1942	-0.1	-3	Sa 1151	1.2	37	1153	1.0	30	1831	-0.1	-3
			○ 2000	-0.2	-6	1949	-0.2	-6	● 2045	-0.1	-3
9 Sa 1134	1.2	37	24 0221	0.2	6	9 Tu 0148	0.3	9	0041	0.5	15
2021	-0.2	-6	Su 0449	0.1	3	0531	0.1	3	0809	0.2	6
●			1242	1.1	34	1249	0.9	27	1418	0.6	18
			2049	-0.2	-6	2025	-0.2	-6	2118	0.0	0
10 Su 1219	1.2	37	25 0335	0.3	9	10 W 0244	0.4	12	0142	0.6	18
2055	-0.2	-6	M 0605	0.2	6	0715	0.2	6	0750	0.0	0
			1333	1.0	30	1349	0.8	24	1349	0.6	18
			2130	-0.2	-6	2102	-0.2	-6	2146	0.0	0
									2002	-0.1	-3
11 M 1307	1.1	34	26 0425	0.4	12	11 Th 0334	0.6	18	0239	0.8	24
2125	-0.2	-6	Tu 0740	0.3	9	0854	0.2	6	0914	-0.1	-3
			Tu 1423	0.9	27	1452	0.7	21	1040	0.1	3
			2205	-0.2	-6	2139	-0.2	-6	1609	0.4	12
									2210	0.0	0
12 Tu 1359	1.1	34	27 0502	0.5	15	12 F 0421	0.7	21	0456	0.7	21
2154	-0.3	-9	W 0913	0.3	9	1021	0.1	3	1134	0.1	3
			1512	0.7	21	1557	0.6	18	1658	0.4	12
			2234	-0.1	-3	2217	-0.2	-6	2232	0.0	0
13 W 0443	0.5	15	28 0532	0.6	18	13 Sa 0507	0.9	27	0524	0.7	21
0820	0.3	9	Th 1035	0.3	9	1136	0.0	0	1221	0.0	0
1453	1.0	30	1600	0.6	18	1701	0.5	15	1743	0.3	9
2224	-0.3	-9	2259	-0.1	-3	2257	-0.2	-6	2254	0.0	0
									2228	-0.1	-3
14 Th 0513	0.6	18	29 0559	0.7	21	14 Su 0553	1.0	30	0554	0.8	24
1001	0.3	9	F 1145	0.3	9	1242	-0.1	-3	1304	0.0	0
1549	0.8	24	1647	0.5	15	1802	0.4	12	1823	0.3	9
2254	-0.3	-9	2322	-0.1	-3	2337	-0.2	-6	2318	0.0	0
15 F 0548	0.8	24	30 0625	0.8	24	15 M 0639	1.2	37	0517	1.1	34
1127	0.2	6	Sa 1245	0.2	6	1343	-0.2	-6	1227	-0.3	-9
1647	0.7	21	1733	0.5	15	1902	0.4	12	1816	0.4	12
2326	-0.3	-9	2342	-0.1	-3	●			2317	-0.1	-3
31 Su 0652	0.8	24	31 0652	0.8	24	16 O 1338	0.1	3	0452	0.8	24
			Su 1338	0.1	3				1229	-0.2	-6
			Su 1818	0.4	12				1835	0.3	9
			●						2226	0.1	3
31 Th 0606	0.9	27	31 0606	0.9	27	15 W 1303	-0.4	-12	0528	0.9	27
			Th 1335	-0.2	-6	Tu 1320	-0.4	-12	1302	0.3	9
			Th 1930	0.3	9	Tu 1910	0.4	12	2305	0.1	3
			●	2349	0.1	3					

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

Cristobal (Colon), Panama, 2016

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
1 F	0646	0.9	27	16 Sa	0153	0.1	3	1 Su	0043	0.2	6	16 M	0310	0.2	6
	1408	-0.2	-6		0803	0.8	24		0648	0.8	24		0815	0.5	15
	2001	0.3	9		1459	-0.2	-6		1348	-0.3	-9		1435	-0.1	-3
					2128	0.6	18		2024	0.6	18		2141	0.8	24
2 Sa	0040	0.1	3	17 Su	0256	0.1	3	2 M	0153	0.1	3	17 Tu	0424	0.1	3
	0728	0.9	27		0853	0.7	21		0738	0.7	21		0909	0.4	12
	1441	-0.2	-6		1536	-0.1	-3		1419	-0.2	-6		1456	0.0	0
	2039	0.4	12		2211	0.6	18		2104	0.8	24		2216	0.8	24
3 Su	0137	0.0	0	18 M	0404	0.1	3	3 Tu	0309	0.1	3	18 W	0540	0.1	3
	0815	0.9	27		0946	0.5	15		0835	0.6	18		1016	0.2	6
	1516	-0.2	-6		1608	0.0	0		1452	-0.2	-6		1509	0.0	0
	2122	0.5	15		2253	0.6	18		2150	0.9	27		2250	0.9	27
4 M	0243	0.0	0	19 Tu	0519	0.1	3	4 W	0430	0.0	0	19 Th	0653	0.0	0
	0906	0.8	24		1047	0.4	12		0942	0.4	12		1152	0.1	3
	1552	-0.2	-6		1636	0.1	3		1530	-0.2	-6		1506	0.0	0
	2210	0.6	18		2333	0.7	21		2239	1.0	30		2323	0.9	27
5 Tu	0359	0.0	0	20 W	0640	0.1	3	5 Th	0551	-0.1	-3	20 F	0756	-0.1	-3
	1005	0.6	18		1207	0.3	9		1102	0.3	9		2357	0.9	27
	1632	-0.1	-3		1659	0.1	3		1612	-0.1	-3		1611	0.0	0
	2304	0.7	21						2332	1.1	34				
6 W	0524	0.0	0	21 Th	0011	0.7	21	6 F	0707	-0.2	-6	21 Sa	0847	-0.2	-6
	1114	0.5	15		0755	0.0	0		1234	0.2	6		1701	0.0	0
	1716	-0.1	-3		1352	0.2	6								
					1712	0.1	3					●			
7 Th	0001	0.8	24	22 F	0048	0.7	21	7 Sa	0027	1.2	37	22 Su	0032	0.9	27
	0650	-0.1	-3		0857	-0.1	-3		0814	-0.3	-9		0929	-0.2	-6
	1233	0.4	12						1407	0.2	6		1633	0.3	9
	● 1805	0.0	0						1758	0.0	0		1940	0.2	6
8 F	0059	0.9	27	23 Sa	0125	0.8	24	8 Su	0124	1.2	37	23 M	0109	1.0	30
	0810	-0.2	-6		0945	-0.1	-3		0914	-0.4	-12		1004	-0.3	-9
	1358	0.4	12						1528	0.3	9		1724	0.4	12
	1859	0.0	0						1905	0.1	3		2104	0.3	9
9 Sa	0157	1.0	30	24 Su	0201	0.8	24	9 M	0220	1.2	37	24 Tu	0149	1.0	30
	0920	-0.3	-9		1024	-0.2	-6		1007	-0.5	-15		1034	-0.3	-9
	1517	0.3	9						1635	0.3	9		1116	-0.5	-15
	1957	0.0	0						2017	0.1	3		1808	0.5	15
10 Su	0253	1.1	34	25 M	0238	0.9	27	10 Tu	0315	1.2	37	25 W	0229	1.0	30
	1020	-0.4	-12		1058	-0.2	-6		1056	-0.5	-15		1101	-0.3	-9
	1627	0.4	12						1730	0.4	12		1849	0.6	18
	2058	0.0	0						2129	0.2	6		2340	0.3	9
11 M	0349	1.1	34	26 Tu	0317	0.9	27	11 W	0409	1.1	34	26 Sa	0311	1.0	30
	1115	-0.5	-15		1129	-0.3	-9		1141	-0.5	-15		1125	-0.3	-9
	1727	0.4	12						1819	0.5	15		1226	-0.3	-9
	2159	0.0	0						2239	0.2	6		1926	0.7	21
12 Tu	0442	1.1	34	27 W	0356	0.9	27	12 Th	0500	1.1	34	27 Su	0355	1.0	30
	1205	-0.5	-15		1157	-0.3	-9		1223	-0.5	-15		1148	-0.3	-9
	1821	0.4	12		1852	0.3	9		1904	0.6	18		1848	0.4	12
	2258	0.1	3						2347	0.2	6		2220	0.3	9
13 W	0534	1.1	34	28 Th	0436	0.9	27	13 F	0550	0.9	27	28 Tu	0440	0.9	27
	1253	-0.5	-15		1225	-0.3	-9		1302	-0.4	-12		1212	-0.3	-9
	1911	0.5	15		1902	0.3	9		1947	0.6	18		1905	0.6	18
	2356	0.1	3		2232	0.2	6					2342	0.3	9	
14 Th	0625	1.0	30	29 F	0518	0.9	27	14 Sa	0053	0.2	6	29 W	0527	0.8	24
	1337	-0.4	-12		1251	-0.3	-9		0639	0.8	24		1237	-0.3	-9
	1958	0.5	15		1922	0.4	12		1337	-0.3	-9		1932	0.7	21
					● 2336	0.2	6		2027	0.7	21		● 2001	0.8	24
15 F	0054	0.1	3	30 Sa	0601	0.9	27	15 Su	0200	0.2	6	30 M	0100	0.2	6
	0714	0.9	27		1319	-0.3	-9		0726	0.6	18		0618	0.7	21
	1420	-0.3	-9		1949	0.5	15		1408	-0.2	-6		1304	-0.3	-9
	2044	0.5	15						2105	0.7	21		2007	0.9	27
												31 Tu	0217	0.1	3
												0714	0.5	15	
												1335	-0.3	-9	
												2047	1.0	30	

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

Cristobal (Colon), Panama, 2016

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 0448	-0.1	-3	16 Sa 0541	0.0	0	1 M 0625	-0.2	-6	16 Tu 0604	0.0	0	1 Th 0003	0.9	27
0927	0.2	6	1001	0.1	3	1153	0.2	6	1107	0.2	6	0723	0.0	0
1417	-0.2	-6	1340	0.0	0	1542	0.1	3	1442	0.1	3	1335	0.5	15
2200	1.4	43	2202	1.1	34	2324	1.2	37	2243	1.1	34	1832	0.3	9
2 Sa 0552	-0.2	-6	17 Su 0635	-0.1	-3	2 Tu 0720	-0.2	-6	17 W 0645	0.0	0	2 F 0104	0.8	24
1048	0.1	3	1122	0.1	3	1314	0.3	9	1213	0.2	6	0808	0.1	3
1458	-0.1	-3	1344	0.0	0	1642	0.1	3	1542	0.1	3	1431	0.6	18
2250	1.4	43	2239	1.1	34	●			2331	1.0	30	2001	0.3	9
3 Su 0653	-0.3	-9	18 M 0725	-0.1	-3	3 W 0017	1.1	34	18 Th 0723	0.0	0	3 Sa 0208	0.7	21
1217	0.1	3	2318	1.1	34	0811	-0.2	-6	1316	0.3	9	0847	0.1	3
1544	0.0	0				1430	0.3	9	1706	0.2	6	1518	0.7	21
2342	1.3	40				1758	0.2	6	○			2122	0.2	6
4 M 0750	-0.3	-9	19 Tu 0807	-0.2	-6	4 Th 0112	1.0	30	19 F 0024	0.9	27	4 Su 0312	0.6	18
1350	0.1	3				0857	-0.2	-6	0758	0.0	0	0921	0.2	6
●						1532	0.4	12	1412	0.5	15	1557	0.7	21
						1928	0.3	9	1847	0.3	9	2228	0.2	6
5 Tu 0035	1.3	40	20 W 0000	1.1	34	5 F 0207	0.9	27	20 Sa 0123	0.8	24	5 M 0411	0.6	18
0842	-0.4	-12	0841	-0.2	-6	0937	-0.1	-3	0833	0.0	0	0951	0.2	6
1512	0.2	6				1620	0.5	15	1501	0.6	18	1632	0.8	24
1752	0.1	3				2100	0.3	9	2028	0.2	6	2322	0.1	3
6 W 0129	1.2	37	21 Th 0045	1.1	34	6 Sa 0303	0.8	24	21 Su 0227	0.7	21	6 Tu 0503	0.5	15
0928	-0.4	-12	0910	-0.2	-6	1012	-0.1	-3	0908	0.0	0	1018	0.2	6
1614	0.3	9				1700	0.6	18	1548	0.8	24	1704	0.9	27
1920	0.2	6				2223	0.3	9	2155	0.2	6	21 W 0454	0.5	15
7 Th 0222	1.1	34	22 F 0134	1.0	30	7 Su 0356	0.7	21	22 M 0333	0.7	21	7 W 0008	0.1	3
1010	-0.3	-9	0936	-0.2	-6	1042	-0.1	-3	0945	0.0	0	0547	0.5	15
1703	0.5	15	1628	0.4	12	1734	0.7	21	1633	1.0	30	1044	0.2	6
2052	0.3	9	1943	0.3	9	2332	0.2	6	2308	0.1	3	1736	0.9	27
8 F 0315	0.9	27	23 Sa 0227	0.9	27	8 M 0447	0.6	18	23 Tu 0437	0.6	18	8 Th 0049	0.1	3
1047	-0.3	-9	1002	-0.2	-6	1108	0.0	0	1024	-0.1	-3	0627	0.4	12
1744	0.6	18	1651	0.6	18	1805	0.8	24	1719	1.1	34	1110	0.2	6
2218	0.3	9	2131	0.3	9							1808	1.0	30
9 Sa 0405	0.8	24	24 Su 0323	0.8	24	9 Tu 0031	0.2	6	24 M 0013	0.0	0	9 F 0128	0.0	0
1120	-0.3	-9	1029	-0.2	-6	0536	0.5	15	0538	0.5	15	24 W 0013	0.4	12
1820	0.7	21	1722	0.7	21	1132	0.0	0	1106	-0.1	-3	1138	0.2	6
2336	0.3	9	2259	0.2	6	1835	0.9	27	○ 1806	1.2	37	○ 1842	1.0	30
10 Su 0454	0.7	21	25 M 0420	0.7	21	10 Th 0123	0.1	3	25 W 0111	-0.1	-3	10 Sa 0206	0.0	0
1149	-0.2	-6	1059	-0.2	-6	0621	0.4	12	0636	0.5	15	0737	0.4	12
1853	0.8	24	1759	0.9	27	1155	0.0	0	1149	-0.1	-3	1208	0.2	6
●						○ 1905	1.0	30	1853	1.3	40	1917	1.1	34
11 M 0047	0.3	9	26 Tu 0015	0.1	3	11 Th 0212	0.1	3	26 F 0207	-0.2	-6	11 Su 0243	0.0	0
0541	0.6	18	0519	0.6	18	0705	0.4	12	0732	0.4	12	0812	0.4	12
1214	-0.2	-6	1131	-0.2	-6	1217	0.0	0	1234	0.0	0	1243	0.2	6
● 1924	0.9	27	○ 1838	1.1	34	1936	1.0	30	1942	1.3	40	1955	1.1	34
12 Tu 0151	0.2	6	27 W 0123	0.0	0	12 F 0258	0.1	3	27 Sa 0301	-0.2	-6	12 M 0321	0.0	0
0628	0.4	12	0619	0.4	12	0748	0.3	9	0828	0.4	12	0849	0.4	12
1237	-0.1	-3	1206	-0.2	-6	1240	0.0	0	1320	0.0	0	1323	0.2	6
1955	0.9	27	1921	1.2	37	2009	1.1	34	2031	1.3	40	2035	1.1	34
13 W 0251	0.1	3	28 Th 0227	0.0	0	13 Sa 0345	0.0	0	28 Su 0354	-0.2	-6	13 Th 0359	0.0	0
0715	0.3	9	0720	0.4	12	0831	0.3	9	0924	0.4	12	0930	0.4	12
1257	-0.1	-3	1244	-0.2	-6	1304	0.1	3	1409	0.0	0	1412	0.2	6
2025	1.0	30	2006	1.3	40	2043	1.1	34	2121	1.2	37	2118	1.0	30
14 Th 0348	0.1	3	29 F 0328	-0.1	-3	14 Su 0432	0.0	0	29 M 0448	-0.1	-3	14 W 0436	0.1	3
0805	0.3	9	0822	0.3	9	0917	0.2	6	1024	0.4	12	1017	0.5	15
1314	0.0	0	1324	-0.1	-3	1330	0.1	3	1501	0.1	3	1513	0.2	6
2056	1.0	30	2053	1.4	43	2120	1.1	34	2212	1.2	37	2207	1.0	30
15 F 0445	0.0	0	30 Sa 0428	-0.2	-6	15 M 0519	0.0	0	30 Tu 0541	-0.1	-3	15 Th 0514	0.1	3
0858	0.2	6	0927	0.2	6	1008	0.2	6	1126	0.4	12	1111	0.6	18
1329	0.0	0	1406	-0.1	-3	1401	0.1	3	1600	0.2	6	1629	0.2	6
2128	1.1	34	2141	1.4	43	2200	1.1	34	2306	1.0	30	2303	0.9	27
			31 Su 0527	-0.2	-6				31 W 0633	0.0	0	●		
			1037	0.2	6				1232	0.4	12			
			1451	0.0	0				1710	0.2	6			
			2232	1.3	40									

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

Cristobal (Colon), Panama, 2016

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	0111	0.6	18	16 Su	0518	0.2	6	1 Tu	1343	1.0	30	16 W	0254	0.4	12				
	0646	0.3	9	1224	1.1	34	2214	0.0	0	0615	0.3	9	1346	1.5	46				
	1326	0.8	24	1946	0.0	0	2140	-0.3	-9	2140	-0.3	-9	1332	1.1	34				
	2033	0.2	6							Th	2225	-0.2	-6	16 F	0354	0.4	12		
2 Su	0235	0.5	15	17 M	0126	0.5	15	2 W	1420	1.1	34	2 Th	1410	1.1	34	17 Sa	0450	0.5	15
	0722	0.4	12	0610	0.2	6	2248	-0.1	-3	0730	0.3	9	1442	1.4	43	0828	0.4	12	
	1408	0.8	24	1320	1.2	37				2229	-0.4	-12	2251	-0.2	-6	1512	1.2	37	
	2136	0.1	3	2055	-0.1	-3							2250	-0.4	-12				
3 M	0353	0.5	15	18 Tu	0250	0.5	15	3 Th	1457	1.1	34	18 F	0503	0.5	15	18 Su	0538	0.6	18
	0755	0.4	12	0708	0.2	6	2318	-0.1	-3	0848	0.4	12	1537	1.4	43	0954	0.4	12	
	1446	0.9	27	1417	1.3	40				2315	-0.4	-12	1606	1.1	34	1606	1.1	34	
	2226	0.1	3	2154	-0.2	-6							2329	-0.3	-9				
4 Tu	0455	0.5	15	19 W	0403	0.5	15	4 F	1536	1.1	34	19 Sa	0554	0.6	18	19 M	0622	0.8	24
	0828	0.4	12	0812	0.3	9	2345	-0.1	-3	1005	0.4	12	1631	1.3	40	1115	0.4	12	
	1522	0.9	27	1513	1.4	43				2358	-0.3	-9	1658	1.0	30				
	2307	0.0	0	2248	-0.3	-9													
5 W	0541	0.5	15	20 Th	0504	0.5	15	5 Sa	1614	1.1	34	20 Su	0640	0.7	21	20 M	0005	-0.3	-9
	0901	0.4	12	0918	0.3	9				1118	0.4	12	1723	1.2	37	0953	0.5	15	
	1558	1.0	30	1608	1.4	43				1615	1.0	30	2355	-0.2	-6	1232	0.3	9	
	2342	0.0	0	2338	-0.3	-9							O	1749	0.8	24			
6 Th	0615	0.5	15	21 F	0558	0.6	18	6 Su	0011	-0.1	-3	21 M	0038	-0.3	-9	21 Tu	0657	0.7	21
	0937	0.4	12	1022	0.3	9	0708	0.5	15	0724	0.8	24	1230	0.4	12	0741	0.9	27	
	1633	1.0	30	1701	1.4	43	1012	0.4	12				O	1815	1.0	30	1344	0.3	9
							1654	1.1	34							1840	0.6	18	
7 F	0015	0.0	0	22 Sa	0024	-0.3	-9	7 M	0035	-0.1	-3	22 Tu	0114	-0.2	-6	22 W	0016	-0.2	-6
	0641	0.5	15	0648	0.7	21	0720	0.6	18	0806	0.9	27	1342	0.3	9	0817	1.0	30	
	1014	0.4	12	1126	0.3	9	1118	0.5	15	1905	0.8	24	1905	0.8	24	1454	0.2	6	
	1709	1.1	34	O	1753	1.3	40	O	1736	1.0	30				O	1748	0.8	24	
8 Sa	0047	0.0	0	23 Su	0109	-0.3	-9	8 Tu	0059	-0.1	-3	23 W	0147	-0.1	-3	23 Th	0040	-0.2	-6
	0705	0.5	15	0735	0.7	21	0741	0.7	21	0846	1.0	30	1454	0.3	9	0852	1.1	34	
	1054	0.4	12	1228	0.3	9	1226	0.4	12	1454	0.3	9	1957	0.7	21	1603	0.2	6	
	O	1746	1.1	34	1845	1.2	37	1820	0.9	27						2025	0.4	12	
9 Su	0118	0.0	0	24 M	0151	-0.2	-6	9 W	0124	-0.1	-3	24 Th	0216	0.0	0	24 Sa	0149	0.0	0
	0730	0.5	15	0821	0.8	24	0810	0.8	24	0924	1.0	30	1609	0.3	9	0925	1.1	34	
	1138	0.3	9	1332	0.3	9	1336	0.4	12	1908	0.8	24	2054	0.5	15	1709	0.1	3	
	1824	1.1	34	1936	1.0	30							O	1941	0.5	15	2127	0.3	9
10 M	0148	0.0	0	25 Tu	0231	-0.1	-3	10 F	0151	-0.1	-3	25 Th	0240	0.1	3	25 Sa	0202	0.1	3
	0757	0.6	18	0906	0.8	24	0845	0.9	27	1001	1.1	34	1725	0.2	6	0958	1.1	34	
	1228	0.3	9	1439	0.3	9	1451	0.3	9				O	2201	0.4	12	1813	0.0	0
	1905	1.0	30	2028	0.9	27	2002	0.7	21	2201	0.4	12				2246	0.2	6	
11 Tu	0218	0.0	0	26 W	0307	0.0	0	11 F	0221	0.0	0	26 Sa	0255	0.2	6	26 M	0203	0.1	3
	0829	0.6	18	0949	0.9	27	0926	1.1	34	1036	1.1	34	1838	0.1	3	1031	1.1	34	
	1324	0.3	9	1551	0.3	9	1608	0.2	6	2332	0.3	9	2332	0.3	9	1912	0.0	0	
	1949	1.0	30	2123	0.7	21	2105	0.6	18										
12 W	0248	0.0	0	27 Th	0341	0.1	3	12 Sa	0254	0.0	0	27 Su	0257	0.2	6	27 Tu	1105	1.1	34
	0906	0.7	21	1032	0.9	27	1012	1.2	37	1110	1.1	34	1942	0.1	3	2003	-0.1	-3	
	1429	0.3	9	1708	0.3	9	1727	0.1	3				O	2340	0.2	6			
	2037	0.9	27	2227	0.6	18	2221	0.4	12										
13 Th	0320	0.0	0	28 F	0409	0.2	6	13 Su	0332	0.1	3	28 M	1144	1.1	34	28 W	1140	1.1	34
	0949	0.8	24	1113	0.9	27	1101	1.3	40	2035	0.0	0	1936	-0.2	-6	2047	-0.1	-3	
	1542	0.3	9	1828	0.2	6	1841	0.0	0				O						
	2133	0.8	24	2348	0.5	15	2351	0.4	12										
14 F	0355	0.1	3	29 Sa	0431	0.3	9	14 M	0416	0.1	3	29 Tu	1219	1.1	34	29 Th	1217	1.1	34
	1037	0.9	27	1152	1.0	30	1154	1.4	43	2118	-0.1	-3	2031	-0.3	-9	2122	-0.2	-6	
	1704	0.2	6	1944	0.2	6	1948	-0.1	-3				O						
	2240	0.7	21																
15 Sa	0434	0.1	3	30 Su	0138	0.4	12	15 Tu	0127	0.3	9	30 W	1254	1.1	34	30 Th	1256	1.1	34
	1129	1.0	30	0441	0.3	9	0510	0.2	6	2154	-0.1	-3	0538	0.2	6	2151	-0.2	-6	
	1828	0.1	3	1230	1.0	30	1249	1.5	46	2047	-0.2	-6							
	O	2359	0.6	18	O	2046	0.1	3											
				31 M	1306	1.0	30									31 Sa	1337	1.1	34
				2134	0.0	0											2215	-0.2	-6

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

St. Georges Island, Bermuda, 2016

Times and Heights of High and Low Waters

January				February				March			
Time	Height	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 F 0109	2.2	67	16 Sa 0058	2.6	79	1 M 0202	2.1	64	16 Tu 0249	2.6	79
0713	0.5	15	0710	0.1	3	0820	0.5	15	0731	0.4	12
1318	2.2	67	1314	2.4	73	1409	1.8	55	1321	1.7	52
1939	0.3	9	● 1933	-0.2	-6	2020	0.3	9	1927	0.2	6
2 Sa 0204	2.2	67	17 Su 0202	2.6	79	2 Tu 0301	2.2	67	2 W 0400	2.6	79
0813	0.6	18	0820	0.1	3	0926	0.5	15	0834	0.5	15
1411	2.0	61	1419	2.3	70	1511	1.7	52	1422	1.7	52
● 2028	0.4	12	2034	-0.1	-3	2118	0.3	9	2027	0.3	9
3 Su 0301	2.2	67	18 M 0310	2.7	82	3 W 0401	2.3	70	3 Th 0506	2.6	79
0917	0.6	18	0933	0.2	6	1030	0.4	12	0942	0.4	12
1509	1.9	58	1528	2.1	64	1615	1.7	52	1531	1.7	52
2121	0.3	9	2138	-0.1	-3	2217	0.2	6	2134	0.2	6
4 M 0357	2.3	70	19 Tu 0417	2.8	85	4 Th 0458	2.4	73	4 F 0603	2.7	82
1019	0.6	18	1044	0.1	3	1127	0.3	9	1229	-0.1	-3
1607	1.9	58	1637	2.1	64	1714	1.8	55	1826	2.1	64
2213	0.3	9	2242	-0.2	-6	2313	0.1	3	2239	0.1	3
5 Tu 0450	2.4	73	20 W 0519	2.9	88	5 F 0549	2.6	79	5 Sa 0027	-0.2	-6
1115	0.4	12	1148	0.0	0	1217	0.1	3	0653	2.8	85
1702	1.9	58	1740	2.2	67	1807	2.0	61	1315	-0.2	-6
2302	0.2	6	2342	-0.2	-6	1914	2.3	70	1914	-0.1	-3
6 W 0538	2.6	79	21 Th 0616	3.0	91	6 Sa 0005	-0.1	-3	6 Su 0115	-0.3	-9
1204	0.3	9	1243	-0.1	-3	0637	2.8	85	0606	2.7	82
1752	2.0	61	1837	2.3	70	1302	-0.1	-3	1228	-0.2	-6
2349	0.1	3				1855	2.2	67	1828	2.3	70
7 Th 0622	2.8	85	22 F 0037	-0.3	-9	7 Su 0054	-0.3	-9	7 M 0115	-0.3	-9
1249	0.1	3	0707	3.0	91	0722	2.9	88	0159	-0.3	-9
1838	2.1	64	1332	-0.2	-6	1345	-0.3	-9	0159	-0.4	-12
			1927	2.3	70	1941	2.4	73	0237	-0.4	-12
8 F 0034	0.0	0	23 Sa 0127	-0.3	-9	8 M 0142	-0.5	-15	8 Tu 0239	-0.3	-9
0705	2.9	88	0753	3.1	94	0806	3.1	94	0854	2.7	82
1331	0.0	0	1417	-0.3	-9	1426	-0.5	-15	1508	-0.3	-9
1921	2.2	67	○ 2014	2.4	73	● 2026	2.6	79	2113	2.5	76
9 Sa 0118	-0.2	-6	24 Su 0213	-0.4	-12	9 Tu 0229	-0.6	-18	9 W 0317	-0.3	-9
0746	3.0	91	0836	3.0	91	0850	3.1	94	0929	2.6	79
1411	-0.1	-3	1458	-0.3	-9	1508	-0.6	-18	1541	-0.3	-9
● 2004	2.3	70	2056	2.4	73	2112	2.7	82	2148	2.5	76
10 Su 0201	-0.3	-9	25 M 0256	-0.3	-9	10 W 0317	-0.6	-18	10 Th 0355	-0.2	-6
0827	3.1	94	0917	3.0	91	0934	3.1	94	1003	2.5	76
1452	-0.2	-6	1536	-0.3	-9	1551	-0.6	-18	1613	-0.2	-6
2047	2.4	73	2137	2.4	73	2159	2.8	85	2224	2.5	76
11 M 0244	-0.3	-9	26 Tu 0338	-0.2	-6	11 Th 0406	-0.6	-18	11 F 0432	-0.1	-3
0909	3.2	98	0955	2.8	85	1020	3.0	91	1037	2.4	73
1533	-0.3	-9	1614	-0.2	-6	1635	-0.6	-18	1646	-0.1	-3
2131	2.5	76	2217	2.4	73	2249	2.9	88	2300	2.4	73
12 Tu 0330	-0.3	-9	27 W 0418	-0.1	-3	12 F 0458	-0.5	-15	12 Sa 0510	0.0	0
0952	3.1	94	1032	2.7	82	1107	2.8	85	1112	2.2	67
1615	-0.4	-12	1650	-0.2	-6	1722	-0.6	-18	1720	0.0	0
2217	2.6	79	2257	2.4	73	2341	2.8	85	2339	2.3	70
13 W 0418	-0.3	-9	28 Th 0459	0.0	0	13 Sa 0554	-0.3	-9	13 Su 0551	0.2	6
1037	3.0	91	1110	2.5	76	1159	2.5	76	1149	2.0	61
1659	-0.4	-12	1726	-0.1	-3	1812	-0.4	-12	1756	0.1	3
2306	2.6	79	2337	2.3	70						
14 Th 0509	-0.2	-6	29 F 0542	0.2	6	14 Su 0038	2.8	85	14 M 0021	2.3	70
1125	2.9	88	1148	2.3	70	0655	-0.1	-3	0637	0.3	9
1746	-0.3	-9	1803	0.1	3	1256	2.3	70	1230	1.9	58
						1908	-0.3	-9	1837	0.2	6
15 F 0000	2.6	79	30 Sa 0021	2.2	67	15 M 0141	2.7	82	15 Tu 0120	2.7	82
0606	-0.1	-3	0628	0.3	9	0804	0.0	0	0747	0.0	0
1217	2.7	82	1229	2.1	64	1400	2.1	64	1344	2.0	61
1837	-0.3	-9	1843	0.2	6	● 2011	-0.2	-6	● 1951	-0.1	-3
			31 Su 0108	2.2	67						
			0720	0.4	12						
			1315	1.9	58						
			● 1928	0.2	6						

Time meridian 60° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

St. Georges Island, Bermuda, 2016

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	
1 F	0226	2.3	70	16	0417	2.3	70	1	0256	2.4	73	16	0433	2.2	67	
	0858	0.4	12	Sa	1042	0.2	6	Su	0924	0.1	3	M	1048	0.2	6	
	1454	1.8	55		1652	2.1	64		1535	2.2	67		1709	2.3	70	
	2057	0.2	6		2258	0.2	6		2142	0.2	6		2321	0.3	9	
2 Sa	0333	2.3	70	17	0514	2.3	70	2	0401	2.5	76	17	0523	2.2	67	
	1003	0.2	6	Su	1133	0.1	3	M	1022	0.0	0	Tu	1132	0.2	6	
	1603	1.9	58		1744	2.2	67		1638	2.5	76		1754	2.5	76	
	2208	0.1	3		2352	0.1	3		2249	0.0	0					
3 Su	0436	2.5	76	18	0603	2.3	70	3	0502	2.6	79	18	0009	0.2	6	
	1100	0.0	0	M	1215	0.0	0	Tu	1117	-0.2	-6	W	0607	2.2	67	
	1705	2.2	67		1828	2.4	73		1736	2.8	85		1212	0.1	3	
	2312	-0.1	-3						2351	-0.2	-6		1834	2.6	79	
4 M	0533	2.6	79	19	0038	0.0	0	4	0558	2.7	82	19	0052	0.2	6	
	1152	-0.2	-6	Tu	0645	2.4	73	W	1209	-0.4	-12	Th	0648	2.2	67	
	1801	2.5	76		1253	0.0	0		1830	3.1	94		1249	0.0	0	
					1907	2.5	76					1912	2.7	82		
5 Tu	0011	-0.3	-9	20	0119	0.0	0	5	0048	-0.4	-12	20	0132	0.1	3	
	0626	2.8	85	W	0723	2.4	73	Th	0652	2.8	85	F	0727	2.3	70	
	1241	-0.4	-12		1327	-0.1	-3		1259	-0.6	-18		1326	0.0	0	
	1853	2.8	85		1943	2.7	82		1922	3.3	101		1949	2.8	85	
6 W	0105	-0.5	-15	21	0157	-0.1	-3	6	0142	-0.6	-18	21	0210	0.0	0	
	0717	2.9	88	Th	0758	2.4	73	F	0744	2.8	85	Sa	0804	2.3	70	
	1328	-0.6	-18		1401	-0.1	-3		1348	-0.7	-21		1401	-0.1	-3	
	1943	3.1	94		2018	2.7	82					O	2025	2.9	88	
7 Th	0158	-0.7	-21	22	0234	-0.1	-3	7	0234	-0.6	-18	22	0247	0.0	0	
	0805	3.0	91	F	0833	2.4	73	Sa	0834	2.8	85	Su	0841	2.3	70	
	1414	-0.8	-24		1433	-0.2	-6		1437	-0.7	-21		1437	-0.1	-3	
	2032	3.3	101	O	2052	2.8	85		2103	3.5	107		2101	2.9	88	
8 F	0249	-0.7	-21	23	0309	-0.1	-3	8	0326	-0.6	-18	23	0324	0.0	0	
	0854	2.9	88	Sa	0907	2.3	70	Su	0925	2.7	82	M	0917	2.2	67	
	1500	-0.8	-24		1506	-0.1	-3		1527	-0.6	-18		1512	0.0	0	
	2121	3.4	104		2126	2.8	85		2153	3.4	104		2138	2.9	88	
9 Sa	0340	-0.7	-21	24	0345	-0.1	-3	9	0418	-0.5	-15	24	0402	0.0	0	
	0943	2.8	85	Su	0942	2.2	67	M	1017	2.6	79	Th	0955	2.2	67	
	1548	-0.8	-24		1539	-0.1	-3		1618	-0.5	-15		1549	0.0	0	
	2211	3.3	101		2201	2.7	82		2245	3.3	101		2215	2.8	85	
10 Su	0432	-0.6	-18	25	0422	0.0	0	10	0511	-0.3	-9	25	0441	0.1	3	
	1033	2.6	79	M	1016	2.1	64	Tu	1110	2.5	76	W	1034	2.1	64	
	1637	-0.6	-18		1613	0.0	0		1710	-0.3	-9		1628	0.1	3	
	2303	3.2	98		2237	2.7	82		2338	3.0	91		2255	2.8	85	
11 M	0527	-0.4	-12	26	0500	0.1	3	11	0605	-0.2	-6	26	0522	0.1	3	
	1126	2.4	73	Tu	1053	2.0	61	W	1206	2.3	70	Th	1117	2.1	64	
	1730	-0.4	-12		1649	0.1	3		1807	-0.1	-3		1712	0.1	3	
	2358	3.0	91		2316	2.6	79					2339	2.7	82		
12 Tu	0625	-0.2	-6	27	0542	0.2	6	12	0034	2.8	85	27	0152	2.4	73	
	1224	2.2	67	W	1135	2.0	61	Th	0703	0.0	0	Su	0815	0.3	9	
	1827	-0.2	-6		1730	0.2	6		1307	2.2	67		1434	2.2	67	
									1908	0.2	6		2041	0.5	15	
13 W	0058	2.8	85	28	0000	2.5	76	13	0134	2.6	79	28	0028	2.2	67	
	0727	0.0	0	Th	0629	0.3	9	F	0803	0.2	6	M	0907	0.3	9	
	1328	2.1	64		1223	1.9	58		1412	2.1	64		1532	2.3	70	
	1931	0.0	0		1820	0.2	6		O	2014	0.3	9		2143	0.5	15
14 Th	0203	2.5	76	29	0052	2.4	73	14	0235	2.4	73	29	0124	2.6	79	
	0835	0.1	3	F	0723	0.3	9	Sa	0903	0.2	6	Th	0752	0.1	3	
	1439	2.0	61		1321	1.9	58		1517	2.1	64		1405	2.3	70	
	2042	0.2	6		O	1920	0.3	9		2122	0.4	12		O	2010	0.3	9
15 F	0312	2.4	73	30	0151	2.4	73	15	0337	2.3	70	30	0226	2.5	76	
	0942	0.2	6	Sa	0823	0.3	9	W	0959	0.2	6	M	0850	0.1	3	
	1549	2.0	61		1427	2.0	61		1617	2.2	67		1510	2.5	76	
	2154	0.2	6		2030	0.3	9		2226	0.4	12		2121	0.2	6	
31	0058	2.8	85	28	0000	2.5	76	13	0330	2.5	76	28	0201	2.5	76	
	0727	0.0	0	Th	0629	0.3	9	F	0803	0.2	6	Tu	0821	0.0	0	
	1328	2.1	64		1223	1.9	58		O	2014	0.3	9		1448	2.7	82
	1931	0.0	0		1820	0.2	6		O	2014	0.3	9		2104	0.3	9
16 Th	0533	2.6	79	30	0151	2.4	73	15	0337	2.3	70	30	0411	2.4	73	
	1126	2.4	73	Sa	0823	0.3	9	W	0959	0.2	6	M	1021	-0.1	-3	
	1730	-0.4	-12		1427	2.0	61		1617	2.2	67		1656	3.0	91	
	2358	3.0	91		2030	0.3	9		2226	0.4	12		2319	0.1	3	
31	0330	2.5	76	31	0330	2.5	76	13	0330	2.5	76	28	0201	2.5	76	
	0949	-0.1	-3	Tu	1614	2.7	82	W	1614	2.7	82	Th	1614	2.7	82	
	1614	2.7	82		2230	0.1	3		2334	0.4	12		2319	0.1	3	
	2230	0.1	3													

Time meridian 60° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.

Heights are referred to mean lower low water which is the chart datum of soundings.

St. Georges Island, Bermuda, 2016

Times and Heights of High and Low Waters

July				August				September				
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	
h m 0514 F 1121 1755	ft 2.5 -0.2 3.2	cm 76 -6 98	h m 16 Sa 1134 1808	ft 2.1 0.3 2.8	cm 64 9 85	h m 1 M 0102 0658 1301 1929	ft 0.0 2.6 -0.2 3.3	cm 0 79 -6 101	h m 16 Tu 0042 0636 1237 1904	ft 0.3 2.4 0.1 3.1	cm 9 73 3 94	
1755 3.2	98	Sa 1808	2.8	M 0151 0748 1351 2015	0.0 2.7 -0.2 3.3	cm 0 82 -6 101	Th 0814 1421 2036	ft 2.9 0.0 3.1	cm 88 0 94	h m 16 Th 0210 0814 1421 2036	ft 0.1 2.9 0.0 3.1	cm 3 88 0 94
1850 3.4	104	Su 1851	2.9	● 2015	-3	101	17 W 0124 0720 1323 1946	0.2 2.6 0.0 3.2	6 79 0 98	h m 2 F 0247 0853 1502 2113	ft 0.1 3.0 0.0 3.0	cm 3 91 0 91
1942 3.4	104	M 1933	3.0	W 0235 0834 1438 2059	0.3 2.8 -0.2 3.2	9 85 -6 98	h m 3 Th 0204 0804 1409 2029	0.0 2.8 -0.1 3.3	0 85 -3 101	h m 17 Sa 0213 0824 1437 2048	ft -0.2 3.4 -0.3 3.3	cm -6 104 -9 101
1942 3.4	104	Tu 2013	3.1	Th 0317 0918 1522 2141	-0.1 2.8 -0.1 3.1	-3 85 -3 94	h m 4 F 0245 0848 1454 2111	-0.1 3.0 -0.2 3.3	-3 91 -6 101	h m 18 Su 0323 0931 1541 2150	0.1 3.0 0.1 2.9	3 91 3 88
2031 3.4	104	W 2053	3.2	W 0357 1001 1605 2221	0.1 2.8 0.0 3.0	3 85 0 91	h m 4 Su 0357 1008 1619 2226	0.2 2.9 0.2 2.7	6 88 6 82	h m 19 M 0341 0959 1617 2222	ft -0.3 3.5 -0.2 3.1	-9 107 -6 94
2119 3.4	104	W 2053	3.2	W 0326 0933 1542 2155	0.1 3.1 -0.2 3.2	-6 94 -6 98	h m 5 M 0432 1045 1659 2302	0.3 2.8 0.4 2.6	9 85 12 79	h m 20 Tu 0428 1050 1711 2313	ft -0.2 3.5 -0.1 2.9	-6 107 -3 88
2205 3.2	98	Th 2134	3.2	W 0435 1042 1648 2300	0.1 2.7 0.2 2.8	3 82 6 85	h m 6 Tu 0507 1125 1741 2341	0.4 2.8 0.5 2.4	12 85 15 73	h m 21 W 0519 1145 1809 21	ft -0.1 3.4 0.1 -3	-3 104 0.1 3
2250 3.0	91	F 2216	3.1	W 0513 1124 1732 2340	0.2 2.7 0.3 2.6	6 82 9 79	h m 7 W 0408 1020 1631 2241	-0.2 3.2 -0.1 3.1	-6 98 -3 94	h m 22 Th 0545 1207 1827 21	0.5 2.7 0.7 21	15 82 21 9
2334 2.8	85	F 2301	3.0	W 0552 1207 1818	-0.1 2.6 0.5	-3 79 15	h m 8 Th 0542 1205 1822	-0.1 3.1 0.2	-3 94 6	h m 23 F 0024 0628 1256 1919	2.3 0.6 2.6 0.8	70 18 79 24
2334 2.8	85	W 2301	3.0	W 0021 0633 1254 1908	2.4 0.4 2.5 0.6	73 12 76 18	h m 9 W 0025 0636 1305 1927	2.7 0.0 3.1 0.3	82 0 94 9	h m 24 Sa 0114 0631 1352 2020	2.1 0.7 2.5 0.8	64 21 76 24
1806 0.3	9	W 2349	2.9	W 0021 0633 1254 1908	2.4 0.4 2.5 0.6	73 12 76 18	h m 9 F 0114 0718 1352 2020	2.1 0.7 2.5 0.8	64 21 76 24	h m 24 Sa 0225 0831 1505 2135	2.4 0.4 2.9 0.5	73 91 88 15
1858 0.5	15	W 2005	0.7	W 0107 0718 1347 2107	-0.1 0.5 2.4 0.8	-3 15 73 24	h m 10 Th 0127 0737 1411 2037	2.5 0.2 3.0 0.4	76 6 91 12	h m 25 Su 0214 0818 1455 2125	2.1 0.7 2.5 0.8	64 21 76 24
1954 0.6	18	W 1940	0.3	W 0159 0809 1444 2107	2.7 0.6 2.4 0.8	82 18 73 24	h m 11 Su 0319 0922 1557 2225	2.1 0.7 2.6 0.7	64 21 79 21	h m 26 M 0445 1052 1715 2336	2.5 0.4 2.9 0.4	76 12 88 12
1954 0.6	18	W 1940	0.3	W 0235 0844 1521 2150	2.4 0.2 3.0 0.4	73 6 91 12	h m 12 M 0421 1024 1654 2318	2.2 0.6 2.7 0.6	67 18 82 18	h m 27 Tu 0542 1149 1807 21	2.7 0.3 3.0 9	82 9 91
2055 0.7	21	W 2050	0.3	W 0258 0905 1544 2210	2.0 0.6 2.5 0.8	61 18 76 24	h m 12 W 0347 0954 1629 2257	2.4 0.2 3.0 0.4	73 6 91 12	h m 27 Tu 0542 1149 1807 21	2.7 0.3 3.0 9	82 9 91
2156 0.7	21	W 2201	0.3	W 0359 1004 1641 2307	2.0 0.5 2.6 0.7	61 15 79 21	h m 13 W 0454 1100 1731 2355	2.5 0.2 3.1 0.3	76 6 94 9	h m 13 Tu 0516 1121 1745 2355	2.4 0.4 2.9 0.3	73 9 88 91
2156 0.7	21	W 2201	0.3	W 0457 1059 1733 2357	2.1 0.4 2.7 0.5	64 12 82 15	h m 14 W 0554 1159 1825	2.6 0.1 3.1	79 3 94	h m 14 W 0005 0606 1212 1833	0.4 2.7 0.2 3.1	12 82 6 94
2254 0.6	18	W 2308	0.2	W 0548 1150 1820	2.3 0.3 2.9	70 9 88	h m 15 M 0046 0646 1251 1913	0.2 2.7 0.0 3.2	6 82 0 98	h m 15 Th 0049 0653 1301 1918	0.1 2.9 0.0 3.2	3 88 0 98
2254 0.6	18	W 2308	0.2	W 0008 0603 1207 1838	2.4 0.0 -0.1 3.3	73 0 -3 101	h m 15 W 0130 0732 1338 1956	0.1 2.8 0.0 3.2	3 85 0 98	h m 29 Th 0104 0712 1322 1933	0.2 2.9 0.1 3.0	6 88 3 91
2345 0.5	15	W 1743	3.2	W 0502 1108 1743	2.4 0.0 -3	73 0 -3	h m 15 W 0130 0732 1338 1956	0.1 2.8 0.0 3.2	3 85 0 98	h m 30 F 0140 0750 1402 2010	0.2 3.0 0.1 2.9	6 91 3 88
2345 0.5	15	W 1743	3.2	W 0008 0603 1207 1838	0.1 2.5 -0.1 3.3	3 76 -3 101	h m 31 W 0130 0732 1338 1956	0.1 2.8 0.0 3.2	3 85 0 98	h m 31 W 0130 0732 1338 1956	0.1 2.8 0.0 3.2	3 85 0 98

Time meridian 60° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
 Heights are referred to mean lower low water which is the chart datum of soundings.

St. Georges Island, Bermuda, 2016

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	0215	0.2 6	16	0144	-0.3 -9	1	0248	0.2 6	16	0257	-0.4 -12	16
	0826	3.1 94	Su	0802	3.7 113	Tu	0908	3.1 94	W	0923	3.8 116	F
	1440	0.1 3		1421	-0.3 -9		1530	0.2 6		1549	-0.3 -9	
	2045	2.9 88	O	2025	3.2 98		2127	2.5 76		2148	2.9 88	
2 Su	0248	0.2 6	17	0229	-0.4 -12	2	0322	0.3 9	17	0348	-0.3 -9	17
	0901	3.1 94	M	0851	3.8 116	W	0943	3.1 94	Th	1015	3.6 110	Sa
	1517	0.2 6		1512	-0.3 -9		1607	0.3 9		1642	-0.2 -6	1714
	2120	2.8 85		2114	3.2 98		2203	2.4 73		2242	2.8 85	2318
3 M	0320	0.2 6	18	0317	-0.3 -9	3	0356	0.4 12	18	0442	-0.1 -3	18
	0936	3.1 94	Tu	0940	3.8 116	Th	1019	3.0 91	F	1109	3.4 104	Su
	1553	0.2 6		1603	-0.3 -9		1645	0.4 12		1737	-0.1 -3	1805
	2154	2.7 82		2204	3.0 91		2240	2.3 70		2339	2.6 79	-0.1 -3
4 Tu	0353	0.3 9	19	0406	-0.2 -6	4	0433	0.5 15	19	0539	0.1 3	4
	1011	3.0 91	W	1032	3.6 110	F	1058	2.9 88	Sa	1205	3.1 94	Su
	1631	0.4 12		1657	-0.1 -3		1725	0.5 15		1834	0.1 3	1233
	2230	2.5 76		2257	2.9 88		2321	2.2 67		2344	2.2 67	1858
5 W	0428	0.4 12	20	0459	-0.1 -3	5	0514	0.6 18	20	0040	2.5 76	5
	1048	2.9 88	Th	1127	3.5 107	Sa	1141	2.8 85	Su	0642	0.3 9	M
	1710	0.5 15		1754	0.1 3		1811	0.6 18		1306	2.9 88	1201
	2307	2.4 73		2355	2.7 82					1935	0.3 9	1830
6 Th	0504	0.5 15	21	0557	0.1 3	6	0008	2.2 67	21	0147	2.4 73	6
	1128	2.8 85	F	1227	3.2 98	Su	0602	0.6 18	M	0750	0.5 15	Tu
	1753	0.6 18		1857	0.3 9		1230	2.7 82		1409	2.7 82	1253
	2348	2.3 70					1902	0.6 18	O	2036	0.3 9	1921
7 F	0546	0.6 18	22	0100	2.5 76	7	0103	2.2 67	22	0254	2.4 73	7
	1213	2.7 82	Sa	0703	0.3 9	M	0700	0.7 21	Tu	0901	0.6 18	W
	1841	0.7 21		1332	3.0 91		1326	2.6 79		1513	2.5 76	1526
			O	2004	0.4 12	O	1958	0.6 18		2135	0.4 12	2017
8 Sa	0037	2.2 67	23	0211	2.5 76	8	0207	2.2 67	23	0357	2.5 76	8
	0635	0.7 21	Su	0815	0.5 15	Tu	0808	0.7 21	W	1009	0.6 18	Th
	1307	2.6 79		1442	2.8 85		1429	2.6 79		1613	2.4 73	1456
	1938	0.8 24		2111	0.4 12		2057	0.5 15		2228	0.4 12	2115
9 Su	0135	2.1 64	24	0322	2.5 76	9	0312	2.4 73	24	0451	2.6 79	9
	0735	0.8 24	M	0929	0.5 15	W	0918	0.6 18	Th	1107	0.5 15	F
	1408	2.6 79		1550	2.7 82		1533	2.6 79		1707	2.4 73	1600
	2040	0.8 24		2213	0.4 12		2154	0.3 9		2314	0.3 9	2213
10 M	0241	2.2 67	25	0427	2.6 79	10	0413	2.7 82	25	0538	2.7 82	10
	0843	0.7 21	Tu	1036	0.5 15	Th	1025	0.4 12	F	1157	0.4 12	Sa
	1512	2.6 79		1650	2.7 82		1633	2.7 82		1753	2.4 73	1702
	2141	0.7 21		2307	0.4 12		2248	0.1 3		2355	0.3 9	2310
11 Tu	0346	2.3 70	26	0522	2.7 82	11	0509	3.0 91	26	0620	2.9 88	11
	0950	0.6 18	W	1133	0.4 12	F	1125	0.2 6	Sa	1240	0.3 9	Su
	1614	2.7 82		1741	2.7 82		1730	2.8 85		1835	2.4 73	1801
	2236	0.5 15		2352	0.3 9		2339	-0.1 -3				1801
12 W	0444	2.6 79	27	0608	2.8 85	12	0602	3.3 101	27	0033	0.2 6	12
	1052	0.4 12	Th	1221	0.3 9	Sa	1221	-0.1 -3	Su	0658	3.0 91	Tu
	1709	2.9 88		1826	2.7 82		1823	2.9 88		1320	0.2 6	1334
	2326	0.3 9								1914	2.4 73	1856
13 Th	0537	2.9 88	28	0032	0.3 9	13	0029	-0.3 -9	28	0110	0.2 6	13
	1148	0.2 6	F	0648	3.0 91	Su	0653	3.6 110	M	0734	3.0 91	Tu
	1801	3.0 91		1303	0.3 9		1315	-0.3 -9		1357	0.2 6	
				1905	2.7 82		1915	3.0 91		1951	2.4 73	O
14 F	0013	0.1 3	29	0107	0.2 6	14	0118	-0.4 -12	29	0146	0.1 3	14
	0626	3.2 98	Sa	0725	3.1 94	M	0743	3.8 116	Tu	0810	3.1 94	W
	1240	0.0 0		1342	0.2 6		1406	-0.4 -12		1434	0.1 3	
	1850	3.1 94		1942	2.7 82	O	2005	3.0 91		2027	2.4 73	
15 Sa	0058	-0.1 -3	30	0141	0.2 6	15	0207	-0.5 -15	30	0221	0.1 3	15
	0714	3.5 107	Su	0800	3.1 94	Tu	0833	3.8 116	W	0845	3.1 94	Th
	1331	-0.2 -6		1418	0.2 6		1458	-0.4 -12		1510	0.1 3	
	1937	3.2 98	O	2017	2.7 82		2056	3.0 91		2104	2.4 73	
31 Sa	0215	0.2 6	31	0215	0.2 6							31
	0834	3.2 98	M	0834	3.2 98							0937
	1454	0.2 6		1454	0.2 6							1601
	2052	2.6 79		2052	2.6 79							2158

Time meridian 60° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Settlement Point, Grand Bahama Island, 2016

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 F 0039 2.2 67 0641 0.3 9 1249 2.3 70 1911 0.1 3	16 0028 2.8 85 0638 -0.1 -3 1245 2.6 79 1904 -0.4 -12		1 0132 2.2 67 0746 0.4 12 1341 2.0 61 1954 0.1 3		16 0216 2.8 85 0839 0.0 0 1436 2.3 70 2047 -0.2 -6		1 0043 2.4 73 0701 0.4 12 1256 2.0 61 1905 0.2 6	
2 Sa 0132 2.2 67 0738 0.4 12 1340 2.1 64 1959 0.1 3	17 0130 2.8 85 0745 0.0 0 1346 2.5 76 2003 -0.3 -9		2 0227 2.3 70 0845 0.4 12 1437 1.9 58 2047 0.1 3		17 0322 2.8 85 0946 0.0 0 1543 2.2 67 2151 -0.2 -6		2 0138 2.4 73 0759 0.4 12 1353 2.0 61 2001 0.2 6	
3 Su 0225 2.3 70 0836 0.4 12 1432 2.0 61 2048 0.1 3	18 0235 2.8 85 0853 0.0 0 1451 2.4 73 2105 -0.4 -12		3 0323 2.4 73 0944 0.3 9 1534 1.9 58 2141 0.0 0		18 0424 2.8 85 1049 0.0 0 1645 2.3 70 2251 -0.2 -6		3 0236 2.4 73 0900 0.3 9 1454 2.0 61 2101 0.1 3	
4 M 0318 2.3 70 0934 0.4 12 1526 2.0 61 2137 0.0 0	19 0339 2.9 88 1000 0.0 0 1555 2.3 70 2205 -0.4 -12		4 0416 2.5 76 1039 0.2 6 1630 2.0 61 2234 -0.1 -3		19 0521 2.9 88 1144 -0.1 -3 1741 2.3 70 2346 -0.3 -9		4 0335 2.6 79 0959 0.2 6 1555 2.2 67 2200 0.0 0	
5 Tu 0409 2.5 76 1028 0.3 9 1618 2.0 61 2224 0.0 0	20 0439 3.0 91 1103 -0.1 -3 1657 2.3 70 2303 -0.4 -12		5 0507 2.7 82 1130 0.0 0 1722 2.2 67 2326 -0.2 -6		20 0611 2.9 88 1232 -0.2 -6 1831 2.4 73 2326 -0.2 -6		5 0431 2.8 85 1053 0.1 3 1652 2.4 73 2258 -0.2 -6	
6 W 0457 2.6 79 1117 0.2 6 1707 2.1 64 2310 -0.1 -3	21 0535 3.0 91 1159 -0.2 -6 1753 2.4 73 2357 -0.5 -15		6 0555 2.9 88 1217 -0.1 -3 1812 2.4 73 2357 -0.5 -15		21 0034 -0.3 -9 0656 2.9 88 1315 -0.2 -6 1916 2.5 76		6 0524 3.0 91 1143 -0.1 -3 1745 2.6 79 2352 -0.3 -9	
7 Th 0542 2.8 85 1204 0.0 0 1754 2.2 67 2356 -0.2 -6	22 0627 3.1 94 1250 -0.3 -9 1845 2.4 73 2356 -0.2 -6		7 0015 -0.4 -12 0642 3.1 94 1302 -0.3 -9 1901 2.6 79		22 0119 -0.3 -9 0738 2.9 88 1354 -0.3 -9 1957 2.6 79		7 0614 3.1 94 1231 -0.4 -12 1836 2.9 88 1957 2.6 79	
8 F 0626 2.9 88 1248 -0.1 -3 1840 2.3 70	23 0048 -0.5 -15 0714 3.1 94 1336 -0.3 -9 1933 2.5 76		8 0104 -0.5 -15 0728 3.2 98 1347 -0.5 -15 1948 2.8 85		23 0201 -0.3 -9 0816 2.9 88 1431 -0.3 -9 2036 2.6 79		8 0045 -0.5 -15 0703 3.3 101 1318 -0.5 -15 1926 3.1 94	
9 Sa 0040 -0.3 -9 0708 3.1 94 1331 -0.2 -6 1925 2.4 73	24 0135 -0.5 -15 0759 3.1 94 1420 -0.4 -12 2019 2.5 76		9 0153 -0.6 -18 0813 3.3 101 1432 -0.6 -18 2037 2.9 88		24 0241 -0.2 -6 0853 2.8 85 1507 -0.2 -6 2114 2.6 79		9 0136 -0.6 -18 0751 3.3 101 1404 -0.7 -21 2016 3.3 101	
10 Su 0125 -0.4 -12 0751 3.2 98 1414 -0.3 -9 2010 2.5 76	25 0220 -0.4 -12 0841 3.0 91 1501 -0.3 -9 2102 2.5 76		10 0243 -0.6 -18 0900 3.3 101 1517 -0.6 -18 2126 3.0 91		25 0320 -0.2 -6 0930 2.7 82 1542 -0.2 -6 2152 2.6 79		10 0227 -0.7 -21 0839 3.3 101 1451 -0.7 -21 2106 3.4 104	
11 M 0210 -0.5 -15 0835 3.2 98 1457 -0.4 -12 2056 2.6 79	26 0303 -0.3 -9 0921 2.9 88 1540 -0.3 -9 2144 2.4 73		11 0334 -0.6 -18 0948 3.2 98 1604 -0.6 -18 2217 3.0 91		26 0359 -0.1 -3 1006 2.5 76 1617 -0.1 -3 2230 2.5 76		11 0320 -0.6 -18 0928 3.2 98 1540 -0.7 -21 2158 3.4 104	
12 Tu 0257 -0.4 -12 0919 3.2 98 1541 -0.4 -12 2144 2.7 82	27 0345 -0.2 -6 1000 2.7 82 1619 -0.2 -6 2225 2.4 73		12 0427 -0.5 -15 1037 3.0 91 1653 -0.6 -18 2311 3.0 91		27 0439 0.0 0 1043 2.4 73 1653 0.0 0 2311 2.5 76		12 0413 -0.5 -15 1019 3.0 91 1630 -0.6 -18 2252 3.3 101	
13 W 0346 -0.4 -12 1006 3.1 94 1627 -0.5 -15 2235 2.7 82	28 0427 -0.1 -3 1040 2.6 79 1657 -0.1 -3 2308 2.3 70		13 0523 -0.3 -9 1130 2.8 85 1745 -0.5 -15 1842 -0.4 -12		28 0522 0.2 6 1123 2.2 67 1732 0.1 3 2354 2.4 73		13 0510 -0.4 -12 1113 2.8 85 1723 -0.5 -15 2349 3.1 94	
14 Th 0439 -0.3 -9 1055 3.0 91 1716 -0.4 -12 2330 2.7 82	29 0511 0.1 3 1120 2.4 73 1737 0.0 0 2353 2.3 70		14 0009 3.0 91 0624 -0.2 -6 1227 2.6 79 1842 -0.4 -12		29 0609 0.3 9 1206 2.1 64 1815 0.1 3		14 0609 -0.2 -6 1211 2.6 79 1821 -0.3 -9	
15 F 0536 -0.2 -6 1148 2.8 85 1808 -0.4 -12	30 0558 0.2 6 1202 2.2 67 1819 0.0 0		15 0111 2.9 88 0730 0.0 0 1330 2.4 73 1943 -0.3 -9				15 0050 3.0 91 0714 0.0 0 1314 2.4 73 1924 -0.1 -3	
31 Th 0040 2.3 70 0649 0.3 9 1249 2.1 64 1904 0.1 3	31 0649 0.3 9 1249 2.1 64 1904 0.1 3						31 0056 2.5 76 0721 0.3 9 1319 2.1 64 1923 0.2 6	

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Settlement Point, Grand Bahama Island, 2016

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
1 F	0154	2.6	79	16	0335	2.6	79	1	0221	2.7	82	16	0351	2.4	73
	0821	0.3	9	Sa	0958	0.1	3	Su	0845	0.1	3	M	1008	0.1	3
	1421	2.1	64		1609	2.4	73		1458	2.5	76		1627	2.5	76
	2026	0.2	6		2215	0.2	6		2105	0.1	3		2238	0.3	9
2 Sa	0255	2.7	82	17	0430	2.6	79	2	0322	2.8	85	17	0440	2.4	73
	0920	0.2	6	Su	1048	0.1	3	M	0942	-0.1	-3	Tu	1051	0.1	3
	1524	2.3	70		1700	2.5	76		1558	2.8	85		1713	2.6	79
	2131	0.1	3		2308	0.1	3		2210	-0.1	-3		2326	0.2	6
3 Su	0355	2.8	85	18	0519	2.6	79	3	0421	2.9	88	18	0524	2.4	73
	1016	0.0	0	M	1132	0.0	0	Tu	1037	-0.3	-9	W	1132	0.0	0
	1624	2.6	79		1745	2.6	79		1656	3.1	94		1754	2.7	82
	2232	-0.1	-3		2355	0.1	3		2310	-0.2	-6				
4 M	0451	2.9	88	19	0602	2.6	79	4	0517	3.0	91	19	0009	0.1	3
	1109	-0.2	-6	Tu	1212	0.0	0	W	1129	-0.5	-15	Th	0606	2.4	73
	1720	2.9	88		1826	2.7	82		1751	3.3	101		1210	-0.1	-3
	2330	-0.3	-9										1833	2.8	85
5 Tu	0545	3.1	94	20	0037	0.0	0	5	0007	-0.4	-12	20	0050	0.1	3
	1159	-0.4	-12	W	0641	2.5	76	Th	0612	3.0	91	F	0646	2.4	73
	1813	3.2	98		1248	-0.1	-3		1221	-0.6	-18		1247	-0.1	-3
					1903	2.8	85		1844	3.5	107		1911	2.9	88
6 W	0025	-0.5	-15	21	0117	0.0	0	6	0103	-0.6	-18	21	0130	0.0	0
	0637	3.2	98	Th	0718	2.5	76	F	0705	3.0	91	Sa	0725	2.4	73
	1248	-0.6	-18		1323	-0.1	-3		1312	-0.7	-21		1324	-0.1	-3
	1904	3.4	104		1940	2.8	85		● 1936	3.7	113	O	1948	2.9	88
7 Th	0119	-0.6	-18	22	0155	-0.1	-3	7	0156	-0.6	-18	22	0209	0.0	0
	0727	3.2	98	F	0755	2.5	76	Sa	0757	3.0	91	Su	0803	2.3	70
	1337	-0.7	-21		1357	-0.1	-3		1403	-0.8	-24		1401	-0.1	-3
	● 1955	3.6	110	O	2016	2.9	88		2028	3.7	113		2025	3.0	91
8 F	0212	-0.7	-21	23	0232	-0.1	-3	8	0250	-0.6	-18	23	0248	0.0	0
	0818	3.2	98	Sa	0831	2.4	73	Su	0850	2.9	88	M	0842	2.3	70
	1426	-0.8	-24		1432	-0.1	-3		1454	-0.7	-21		1438	-0.1	-3
	2046	3.6	110		2052	2.9	88		2120	3.6	110		2103	3.0	91
9 Sa	0305	-0.7	-21	24	0310	0.0	0	9	0343	-0.5	-15	24	0327	0.0	0
	0909	3.1	94	Su	0907	2.4	73	M	0943	2.8	85	Tu	0921	2.3	70
	1516	-0.7	-21		1507	-0.1	-3		1546	-0.5	-15		1517	0.0	0
	2138	3.6	110		2128	2.8	85		2213	3.4	104		2142	3.0	91
10 Su	0359	-0.6	-18	25	0348	0.0	0	10	0437	-0.4	-12	25	0407	0.0	0
	1001	2.9	88	M	0945	2.3	70	Tu	1039	2.7	82	W	1003	2.3	70
	1607	-0.6	-18		1543	0.0	0		1641	-0.3	-9		1558	0.1	3
	2232	3.4	104		2206	2.8	85		2307	3.2	98		2224	2.9	88
11 M	0454	-0.4	-12	26	0429	0.1	3	11	0533	-0.2	-6	26	0450	0.1	3
	1056	2.7	82	Th	1024	2.2	67	W	1136	2.5	76	Th	1048	2.3	70
	1702	-0.4	-12		1622	0.1	3		1738	-0.1	-3		1644	0.1	3
	2329	3.2	98		2247	2.7	82					2309	2.9	88	
12 Tu	0553	-0.2	-6	27	0512	0.2	6	12	0003	3.0	91	27	0536	0.1	3
	1155	2.5	76	W	1108	2.2	67	F	0631	-0.1	-3	M	1138	2.3	70
	1800	-0.2	-6		1705	0.2	6		1237	2.4	73		1735	0.2	6
					2332	2.7	82		1839	0.1	3		2358	2.8	85
13 W	0028	3.0	91	28	0559	0.2	6	13	0101	2.8	85	28	0626	0.1	3
	0655	-0.1	-3	Th	1157	2.2	67	F	0729	0.0	0	M	1233	2.4	73
	1258	2.4	73		1756	0.2	6		1339	2.3	70		1834	0.2	6
	● 1903	0.0	0									● 1942	0.2	6	
14 Th	0131	2.8	85	29	0024	2.7	82	14	0200	2.6	79	29	0053	2.8	85
	0758	0.1	3	F	0651	0.2	6	Sa	0826	0.1	3	Su	0719	0.0	0
	1404	2.3	70		1254	2.2	67		1440	2.3	70		1333	2.5	76
	2009	0.1	3		● 1854	0.2	6		2045	0.3	9		● 1938	0.2	6
15 F	0235	2.7	82	30	0120	2.7	82	15	0257	2.5	76	30	0152	2.7	82
	0901	0.1	3	Sa	0748	0.2	6	Su	0919	0.1	3	M	0815	-0.1	-3
	1509	2.3	70		1355	2.3	70		1537	2.4	73		1456	2.5	76
	2115	0.2	6		1959	0.2	6		2144	0.3	9		2104	0.5	15
31 0253 2.7 82 Tu 0912 -0.2 -6 1536 2.9 88 2150 0.0 0															

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
 Heights are referred to mean lower low water which is the chart datum of soundings.

Settlement Point, Grand Bahama Island, 2016

Times and Heights of High and Low Waters

July				August				September			
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height
1 F 0434 2.7 82 1043 -0.3 -9 1716 3.4 104 2338 -0.1 -3	h m ft cm	16 Sa 0451 2.3 70 1055 0.2 6 1727 3.0 91 2349 0.4 12	h m ft cm	1 M 0020 0.1 3 0617 2.9 88 1221 -0.1 -3 1849 3.6 110	h m ft cm	16 Tu 0554 2.8 85 1157 0.2 6 1823 3.4 104	h m ft cm	1 Th 0132 0.2 6 0736 3.2 98 1342 0.2 6 1957 3.5 107	h m ft cm	16 F 0052 0.1 3 0701 3.6 110 1311 0.0 0 1924 3.7 113	
	h m ft cm	17 Su 0539 2.4 73 1140 0.2 6 1811 3.1 94	h m ft cm	2 Tu 0110 0.1 3 0708 3.0 91 1312 -0.1 -3 1936 3.6 110	h m ft cm	17 W 0042 0.3 9 0641 3.0 91 1244 0.1 3 1907 3.6 110	h m ft cm	2 F 0211 0.2 6 0818 3.2 98 1424 0.3 9 2036 3.4 104	h m ft cm	17 Sa 0137 0.0 0 0749 3.8 116 1401 -0.1 -3 2011 3.7 113	
	h m ft cm	18 M 0033 0.3 9 0629 2.8 85 1233 -0.4 -12 1903 3.6 110	h m ft cm	3 W 0157 0.0 0 0757 3.0 91 1400 0.0 0 2021 3.5 107	h m ft cm	18 Th 0125 0.2 6 0726 3.2 98 1331 0.0 0 1951 3.7 113	h m ft cm	3 Sa 0249 0.3 9 0857 3.2 98 1505 0.3 9 2114 3.2 98	h m ft cm	18 Su 0222 -0.1 -3 0838 3.9 119 1452 -0.1 -3 2059 3.7 113	
	h m ft cm	19 M 0127 -0.2 -6 0723 2.8 85 1326 -0.4 -12 1954 3.6 110	h m ft cm	4 Th 0240 0.0 0 0843 3.0 91 1446 0.1 3 2104 3.4 104	h m ft cm	19 F 0208 0.1 3 0812 3.3 101 1419 0.0 0 2035 3.7 113	h m ft cm	4 Su 0325 0.3 9 0936 3.2 98 1546 0.4 12 2152 3.1 94	h m ft cm	19 M 0309 -0.1 -3 0928 3.9 119 1544 0.0 0 2149 3.5 107	
5 Tu 0217 -0.2 -6 0815 2.9 88 1417 -0.3 -9 2042 3.5 107	h m ft cm	20 W 0156 0.1 3 0752 2.8 85 1352 0.0 0 2016 3.4 104	h m ft cm	5 F 0322 0.1 3 0927 3.0 91 1530 0.2 6 2145 3.3 101	h m ft cm	20 Sa 0251 0.0 0 0900 3.5 107 1508 0.0 0 2121 3.6 110	h m ft cm	5 M 0402 0.4 12 1016 3.1 94 1627 0.6 18 2231 2.9 88	h m ft cm	20 Tu 0358 -0.1 -3 1021 3.9 119 1639 0.1 3 2242 3.3 101	
	h m ft cm	21 W 0305 -0.2 -6 0905 2.8 85 1506 -0.2 -6 2129 3.4 104	h m ft cm	6 Th 0237 0.0 0 0836 2.9 88 1437 0.0 0 2058 3.5 107	h m ft cm	21 Sa 0403 0.2 6 1011 3.0 91 1615 0.3 9 2227 3.1 94	h m ft cm	6 Tu 0336 0.0 0 0949 3.5 107 1559 0.1 3 2209 3.5 107	h m ft cm	21 W 0451 0.0 0 1117 3.7 113 1738 0.3 9	
	h m ft cm	22 Th 0352 -0.1 -3 0955 2.8 85 1555 0.0 0 2215 3.2 98	h m ft cm	7 F 0319 0.0 0 0922 3.0 91 1523 0.0 0 2142 3.4 104	h m ft cm	22 Su 0443 0.3 9 1054 2.9 88 1700 0.5 15 2308 2.9 88	h m ft cm	7 W 0423 0.0 0 1040 3.5 107 1653 0.2 6 2300 3.3 101	h m ft cm	22 Th 0519 0.6 18 1141 3.0 91 1757 0.8 24 2356 2.6 79	
	h m ft cm	23 F 0438 0.0 0 1044 2.7 82 1645 0.1 3 2301 3.0 91	h m ft cm	8 Sa 0403 0.0 0 1009 3.0 91 1613 0.1 3 2228 3.3 101	h m ft cm	23 M 0523 0.4 12 1139 2.8 85 1747 0.6 18 2351 2.7 82	h m ft cm	8 Th 0513 0.0 0 1136 3.5 107 1752 0.3 9 2355 3.1 94	h m ft cm	23 F 0042 3.0 91 0651 0.3 9 1322 3.5 107 1948 0.5 15	
9 Sa 0524 0.1 3 1133 2.7 82 1735 0.3 9 2347 2.8 85	h m ft cm	24 Su 0448 0.0 0 1100 3.1 94 1707 0.2 6 2318 3.2 98	h m ft cm	9 Tu 0606 0.5 15 1227 2.8 85 1838 0.7 21	h m ft cm	24 W 0608 0.1 3 1236 3.5 107 1855 0.4 12	h m ft cm	9 F 0046 2.5 76 0652 0.8 24 1324 2.9 88 1946 0.9 27	h m ft cm	24 Sa 0150 2.9 88 0758 0.4 12 1429 3.4 104 2055 0.6 18	
	h m ft cm	10 Su 0609 0.2 6 1224 2.6 79 1827 0.5 15	h m ft cm	10 M 0537 0.0 0 1155 3.1 94 1805 0.3 9	h m ft cm	10 W 0038 2.6 79 0651 0.6 18 1318 2.7 82 1933 0.8 24	h m ft cm	10 Th 0055 3.0 91 0708 0.2 6 1340 3.4 104 2002 0.5 15	h m ft cm	10 Sa 0142 2.5 76 0747 0.8 24 1421 2.9 88 2045 0.9 27	
	h m ft cm	11 M 0035 2.6 79 0655 0.3 9 1316 2.6 79 1922 0.6 18	h m ft cm	11 W 0012 3.0 91 0630 0.0 0 1254 3.2 98 1908 0.4 12	h m ft cm	11 Th 0129 2.4 73 0740 0.6 18 1412 2.8 85 2031 0.9 27	h m ft cm	11 F 0201 2.9 88 0812 0.3 9 1446 3.4 104 2110 0.5 15	h m ft cm	11 M 0241 2.5 76 0846 0.8 24 1518 3.0 91 2142 0.8 24	
	h m ft cm	12 Tu 0124 2.5 76 0742 0.3 9 1408 2.6 79 2019 0.6 18	h m ft cm	12 W 0110 2.9 88 0727 0.0 0 1357 3.2 98 2014 0.4 12	h m ft cm	12 F 0224 2.4 73 0833 0.6 18 1507 2.8 85 2129 0.8 24	h m ft cm	12 Sa 0308 2.8 85 0917 0.3 9 1550 3.4 104 2215 0.5 15	h m ft cm	12 M 0339 2.6 79 0944 0.7 21 1612 3.2 98 2234 0.7 21	
13 W 0216 2.3 70 0831 0.4 12 1501 2.6 79 2116 0.6 18	h m ft cm	13 Th 0213 2.8 85 0827 0.0 0 1501 3.3 101 2122 0.4 12	h m ft cm	13 Sa 0320 2.4 73 0926 0.6 18 1601 3.0 91 2223 0.7 21	h m ft cm	13 W 0413 2.9 88 1020 0.3 9 1650 3.5 107 2312 0.4 12	h m ft cm	13 F 0434 2.8 85 1039 0.5 15 1703 3.4 104 2322 0.5 15	h m ft cm	13 W 0549 3.1 94 1156 0.4 12 1810 3.3 101	
	h m ft cm	14 Th 0309 2.3 70 0920 0.3 9 1552 2.7 82 2211 0.6 18	h m ft cm	14 F 0318 2.7 82 0929 0.0 0 1604 3.4 104 2226 0.3 9	h m ft cm	14 M 0415 2.5 76 1019 0.5 15 1651 3.1 94 2313 0.6 18	h m ft cm	14 W 0512 3.0 91 1118 0.3 9 1743 3.5 107	h m ft cm	14 Th 0525 3.1 94 1131 0.3 9 1751 3.5 107	
	h m ft cm	15 F 0401 2.3 70 1008 0.3 9 1641 2.8 85 2302 0.5 15	h m ft cm	15 M 0421 2.8 85 1029 0.0 0 1703 3.5 107 2326 0.2 6	h m ft cm	15 W 0004 0.3 9 0605 3.1 94 1210 0.2 6 1832 3.5 107	h m ft cm	15 Th 0008 0.3 9 0613 3.3 101 1222 0.2 6 1838 3.7 113	h m ft cm	15 F 0024 0.3 9 0633 3.2 98 1241 0.3 9 1852 3.3 101	
	h m ft cm	16 Su 0521 2.8 85 1127 -0.1 -3 1758 3.6 110	h m ft cm	16 W 0050 0.3 9 0652 3.2 98 1258 0.2 6 1916 3.5 107	h m ft cm	16 W 0050 0.3 9 0652 3.2 98 1258 0.2 6 1916 3.5 107	h m ft cm	16 F 0103 0.3 9 0713 3.3 101 1323 0.3 9 1930 3.2 98	h m ft cm		

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Settlement Point, Grand Bahama Island, 2016

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 0139 0.3 9 0751 3.3 101 1402 0.3 9 2007 3.2 98	16 Su 0108 -0.2 -6 0727 3.9 119		1 Tu 0215 0.2 6 0836 3.2 98			16 W 0224 -0.5 -15 0851 3.9 119			1 Th 0223 0.0 0 0848 3.0 91		
	1344 -0.2 -6		1455 0.3 9			1514 -0.4 -12 2114 3.1 94			1512 0.1 3 2105 2.4 73		
	1948 3.6 110		2052 2.7 82						2145 2.3 70		
									2246 2.7 82		
2 Su 0214 0.3 9 0828 3.3 101 1441 0.4 12 2044 3.0 91	17 M 0156 -0.3 -9 0817 4.0 122		2 W 0250 0.3 9 0912 3.2 98			17 Th 0317 -0.4 -12 0944 3.8 116			2 F 0301 0.1 3 0926 3.0 91		
	1436 -0.2 -6		1534 0.3 9			1609 -0.3 -9 2209 2.9 88			1551 0.1 3 2145 2.3 70		
	2039 3.5 107		2129 2.6 79						2246 2.7 82		
3 M 0248 0.3 9 0904 3.3 101 1519 0.4 12 2120 2.9 88	18 Tu 0245 -0.3 -9 0908 4.0 122		3 Th 0326 0.3 9 0950 3.1 94			18 F 0412 -0.3 -9 1038 3.6 110			3 Sa 0340 0.1 3 1005 2.9 88		
	1529 -0.2 -6		1613 0.4 12			1705 -0.2 -6 2307 2.8 85			1631 0.2 6 2228 2.3 70		
	2131 3.3 101		2209 2.5 76						2343 2.5 76		
4 Tu 0323 0.4 12 0941 3.2 98 1558 0.5 15 2157 2.8 85	19 W 0336 -0.2 -6 1002 3.9 119		4 F 0405 0.4 12 1030 3.0 91			19 Sa 0510 -0.1 -3 1135 3.3 101			4 Su 0423 0.2 6 1047 2.9 88		
	1625 0.0 0		1656 0.5 15			1803 0.0 0			1714 0.2 6 2315 2.3 70		
	2226 3.2 98		2251 2.4 73						2315 2.3 70		
5 W 0359 0.5 15 1020 3.1 94 1639 0.6 18 2237 2.7 82	20 Th 0431 -0.1 -3 1058 3.7 113		5 Sa 0447 0.5 15 1114 2.9 88			20 Su 0009 2.7 82 0611 0.1 3			5 M 0511 0.3 9 1133 2.8 85		
	1723 0.1 3		1741 0.5 15			1234 3.1 94			1800 0.2 6		
	2325 3.0 91		2339 2.4 73			1902 0.1 3			1920 0.0 0		
6 Th 0438 0.6 18 1102 3.0 91 1723 0.7 21 2320 2.6 79	21 F 0529 0.1 3 1157 3.5 107		6 Su 0536 0.6 18 1202 2.9 88			21 M 0113 2.6 79 0716 0.3 9			6 Tu 0007 2.4 73 0606 0.3 9		
	1825 0.3 9		1831 0.5 15			1334 2.9 88			1224 2.7 82		
						2001 0.2 6			1850 0.1 3		
									2013 0.0 0		
7 F 0520 0.7 21 1148 3.0 91 1812 0.8 24	22 Sa 0028 2.9 88 0633 0.3 9		7 M 0034 2.4 73 0632 0.6 18			22 Tu 0216 2.6 79 0822 0.4 12			7 W 0104 2.5 76 0707 0.3 9		
	1300 3.3 101		1256 2.8 85			1434 2.7 82			1320 2.7 82		
	1929 0.4 12		1925 0.5 15			2057 0.2 6			1944 0.0 0		
									2104 0.1 3		
8 Sa 0009 2.5 76 0610 0.8 24 1239 2.9 88 1906 0.8 24	23 Su 0136 2.8 85 0740 0.4 12		8 Tu 0133 2.5 76 0734 0.6 18			23 W 0317 2.6 79 0925 0.4 12			8 Th 0204 2.6 79 0813 0.3 9		
	1405 3.2 98		1355 2.9 88			1531 2.6 79			1420 2.7 82		
	2033 0.4 12		2020 0.4 12			2149 0.2 6			2040 -0.1 -3		
									2152 0.0 0		
9 Su 0105 2.5 76 0706 0.8 24 1336 2.9 88 2004 0.8 24	24 M 0243 2.8 85 0848 0.5 15		9 W 0234 2.7 82 0840 0.5 15			24 Th 0410 2.7 82 1021 0.4 12			9 F 0305 2.8 85 0919 0.1 3		
	1508 3.1 94		1454 2.9 88			1622 2.5 76			1521 2.7 82		
	2132 0.4 12		2115 0.2 6			2235 0.1 3			2137 -0.2 -6		
10 M 0205 2.5 76 0808 0.8 24 1435 3.0 91 2100 0.7 21	25 Tu 0345 2.8 85 0952 0.5 15		10 Th 0333 2.9 88 0943 0.3 9			25 F 0458 2.8 85 1111 0.3 9			10 Sa 0405 3.1 94 1022 0.0 0		
	1606 3.0 91		1552 3.0 91			1709 2.5 76			1621 2.7 82		
	2225 0.4 12		2209 0.0 0			2317 0.1 3			2233 -0.4 -12		
									2321 -0.1 -3		
11 Tu 0306 2.7 82 0910 0.7 21 1532 3.1 94 2154 0.5 15	26 W 0440 2.9 88 1048 0.5 15		11 F 0429 3.2 98 1043 0.1 3			26 Sa 0540 2.9 88 1156 0.2 6			11 Su 0502 3.3 101 1122 -0.2 -6		
	1657 3.0 91		1648 3.1 94			1752 2.5 76			1719 2.8 85		
	2311 0.3 9		2301 -0.2 -6			2356 0.0 0			2327 -0.6 -18		
12 W 0403 2.9 88 1010 0.5 15 1627 3.3 101 2244 0.3 9	27 Th 0527 3.0 91 1137 0.4 12		12 Sa 0523 3.5 107 1140 -0.1 -3			27 Su 0620 2.9 88 1238 0.2 6			12 M 0557 3.5 107 1219 -0.4 -12		
	1742 2.9 88		1742 3.2 98			1832 2.5 76			1815 2.8 85		
	2352 0.3 9		2351 -0.4 -12						1843 2.2 67		
13 Th 0456 3.2 98 1106 0.3 9 1719 3.4 104 2333 0.1 3	28 F 0609 3.1 94 1221 0.3 9		13 Su 0615 3.7 113 1234 -0.3 -9			28 M 0033 0.0 0 0657 3.0 91			13 Tu 0021 -0.7 -21 0650 3.7 113		
	1823 2.9 88		1835 3.2 98			1317 0.1 3			1313 -0.5 -15		
	0.1 3		1911 2.4 73			1910 2.9 88			1924 2.2 67		
14 F 0547 3.5 107 1200 0.1 3 1809 3.5 107	29 Sa 0030 0.2 6 0647 3.2 98		14 M 0042 -0.5 -15 0707 3.9 119			29 Tu 0110 0.0 0 0734 3.0 91			14 W 0114 -0.7 -21 0743 3.7 113		
	1301 0.3 9		1328 -0.4 -12			1355 0.1 3			1406 -0.6 -18		
	1902 2.9 88		1928 3.2 98			1949 2.4 73			2004 2.9 88		
									2003 2.3 70		
15 Sa 0020 -0.1 -3 0637 3.8 116 1252 -0.1 -3 1859 3.6 110	30 Su 0106 0.2 6 0724 3.2 98		15 Tu 0133 -0.6 -18 0759 3.9 119			30 W 0146 0.0 0 0811 3.0 91			15 Th 0207 -0.7 -21 0834 3.7 113		
	1340 0.2 6		1421 -0.4 -12			1433 0.1 3			1458 -0.6 -18		
	● 1939 2.8 85		2020 3.2 98			2027 2.4 73			2058 2.8 85		
									2043 2.3 70		
31 M 0140 0.2 6 0800 3.2 98 1418 0.2 6 2015 2.7 82	31 M 0140 0.2 6 0800 3.2 98								31 Sa 0240 -0.2 -6 0904 3.0 91		
	1418 0.2 6								1527 -0.1 -3		
	2015 2.7 82								2124 2.3 70		

Time meridian 75° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Magueyes Island, Puerto Rico, 2016

Times and Heights of High and Low Waters

January						February						March							
	Time	Height		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		
1 F	0047 1115 2312	0.1 0.4 0.1	3 12 3	16 Sa	0947 2113	0.4 0.1	12 3	1 M	0748 1947	0.4 -0.1	12 -3	16 Tu	0723 1926	0.5 -0.2	15 -6	1 Tu	0624 1716	0.4 -0.1	12 -3
			●												●				
2 Sa	0949 2221	0.4 0.1	12 3	17 Su	0833 2052	0.4 0.0	12 0	2 Tu	0753 2038	0.4 -0.1	12 -3	17 W	0750 2049	0.5 -0.2	15 -6	2 W	0650 1801	0.4 -0.1	12 -3
			●												●				
3 Su	0850 2209	0.4 0.0	12 0	18 M	0814 2114	0.5 -0.1	15 -3	3 W	0810 2133	0.5 -0.2	15 -6	18 Th	0819 2212	0.5 -0.2	15 -6	3 Th	0719 1914	0.5 -0.1	15 -3
																18 F	0729 2120	0.4 0.0	12 0
4 M	0836 2218	0.5 0.0	15 0	19 Tu	0826 2153	0.6 -0.2	18 -6	4 Th	0834 2225	0.5 -0.2	15 -6	19 F	0846 2318	0.5 -0.2	15 -6	4 F	0749 2113	0.5 -0.1	15 -3
																19 Sa	0752 2320	0.4 0.0	12 0
5 Tu	0844 2239	0.5 -0.1	15 -3	20 W	0849 2238	0.6 -0.2	18 -6	5 F	0901 2311	0.6 -0.2	18 -6	20 Sa	0910 2244	0.5 -0.1	15 -3	5 Sa	0818 2244	0.5 -0.1	15 -3
																20 Su	0809 1613	0.4 0.0	12 0
6 W	0903 2305	0.6 -0.2	18 -6	21 Th	0916 2322	0.6 -0.2	18 -6	6 Sa	0929 2353	0.6 -0.2	18 -6	21 Su	0010 0929	-0.1 0.4	-3 12	6 Su	0845 2349	0.5 -0.1	15 -3
																21 M	0030 0818 1515 1952	0.0 0.3 0.1 0.2	0 9 3 6
7 Th	0928 2334	0.6 -0.2	18 -6	22 F	0944	0.6	18	7 Su	0956	0.6	18	22 M	0054 0943	-0.1 0.4	-3 12	7 M	0909	0.5	15
																22 Tu	0127 0819 1445 2037	0.1 0.3 0.1 0.2	3 9 3 6
8 F	0956	0.6	18	23 Sa	0004 1010	-0.2 0.6	-6	8 M	0032 1021	-0.2 0.6	-6	23 Tu	0132 0949	-0.1 0.3	-3 9	8 Tu	0046 0924	0.0 0.4	0 12
																23 W	0221 0808 1429 2121	0.1 0.2 0.1 0.3	3 6 3 9
9 Sa	0004 1026	-0.2 0.7	-6 21	24 Su	0042 1034	-0.2 0.5	-6	9 Tu	0109 1041	-0.1 0.5	-3 15	24 W	0206 0946 1627 2046	0.0 0.3 0.1 0.2	0 9 3 6	9 W	0140 0925 1557 2036	0.0 0.4 0.1 0.2	0 12 3 6
																24 Th	0320 0739 1423 2206	0.1 0.2 0.0 0.3	3 6 0 9
10 Su	0034 1056	-0.2 0.7	-6 21	25 M	0115 1052	-0.2 0.5	-6	10 W	0143 1048	-0.1 0.5	-3 15	25 Th	0237 0929 1608 2202	0.1 0.3 0.1 0.2	3 9 3 6	10 Th	0235 0859 1519 2201	0.1 0.3 0.1 0.3	3 9 3 9
																25 F	1425 2257	0.0 0.3	0 9
11 M	0103 1125	-0.2 0.7	-6 21	26 Tu	0142 1103	-0.1 0.4	-3	11 Th	0210 1033	0.0 0.4	0	26 F	0301 0852 1603 2338	0.1 0.2 0.0 0.2	3 6 0 6	11 F	0338 0749 1509 2338	0.1 0.2 0.0 0.3	3 6 0 9
																26 Sa	1433	-0.1	-3
12 Tu	0130 1150	-0.1 0.6	-3 18	27 W	0203 1104	0.0 0.4	0	12 F	0216 0945 1726	0.1 0.3 0.1	3 9 3	27 Sa	0259 0746 1608	0.1 0.2 0.0	3 6 0	12 Sa	1519 0000 1446	-0.1 0.3 -0.1	-3 9 -3
																27 Su	0000 1446	-0.1	-3
13 W	0152 1205	-0.1 0.6	-3 18	28 Th	0211 1049	0.0 0.3	0	13 Sa	0823 1721	0.3 0.0	9	28 Su	0627 1622	-0.3 -0.1	-3	13 Su	0230 1543	0.4 -0.1	12 -3
																28 M	0132 1504	0.4 -0.2	12 -6
14 Th	0200 1159	0.0 0.5	0 15	29 F	0144 1012 1910	0.1 0.3 0.1	3 9 3	14 Su	0715 1743	0.4 -0.1	12 -3	29 M	0607 1644	0.3 -0.1	9	14 M	0442 1614	0.4 -0.2	12 -6
																29 Tu	0325 1525	0.4 -0.2	12 -6
15 F	0130 1115 2316	0.1 0.4 0.1	3 12 3	30 Sa	0910 1855	0.3 0.0	9	15 M	0705 1824	0.4 -0.1	12 -3					30 W	0438 1550	0.4 -0.2	12 -6
																31 Th	0528 1616	0.5 -0.1	15 -3
			●													●			

Time meridian 60° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Magueyes Island, Puerto Rico, 2016

Times and Heights of High and Low Waters

April						May						June							
	Time	Height		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		
	0609	0.5	15		16 0604	0.4	12		1 Su 0514	0.5	15		16 0242	0.3	9		16 1105		
1 F	1642	-0.1	-3	16 Sa	1508	0.0	0	1 Su	1446	0.0	0	16 M	1229	0.0	0	16 Th	2121	-0.1	-3
2 Sa	0644	0.5	15	17 Su	0619	0.3	9	2 M	0533	0.4	12	17 Tu	1208	0.0	0	17 F	1121	-0.1	-3
	1659	0.0	0		1416	0.1	3		1403	0.1	3		2115	0.4	12		2142	0.6	18
	2058	0.2	6		2058	0.2	6												
	2348	0.1	3		2348	0.1	3												
3 Su	0714	0.5	15	18 M	0621	0.3	9	3 Tu	0528	0.4	12	18 W	1201	0.0	0	18 Sa	1141	-0.2	-6
	1639	0.0	0		1338	0.1	3		1318	0.1	3		2124	0.5	15		2207	0.7	21
	2045	0.3	9																
4 M	0737	0.5	15	19 Tu	0143	0.2	6	4 W	1245	0.1	3	19 Th	1205	-0.1	-3	4 Sa	1202	-0.2	-6
	1541	0.1	3		0606	0.3	9		2123	0.5	15		2144	0.5	15		2236	0.7	21
	2002	0.2	6		1317	0.0	0												
	2102	0.3	9																
5 Tu	0014	0.1	3	20 W	1307	0.0	0	5 Th	1232	0.0	0	20 F	1215	-0.2	-6	5 Su	1230	-0.3	-9
	0748	0.4	12		2127	0.4	12		2152	0.6	18		2210	0.6	18		2313	0.7	21
	1445	0.2	6																
	2030	0.3	9																
6 W	0150	0.2	6	21 Th	1307	-0.1	-3	6 F	1237	-0.1	-3	21 Sa	1230	-0.2	-6	6 M	1300	-0.3	-9
	0736	0.3	9		2158	0.4	12		2231	0.6	18		2241	0.6	18		2351	0.7	21
	1404	0.1	3																
	2113	0.4	12																
7 Th	0345	0.1	3	22 F	1314	-0.1	-3	7 Sa	1255	-0.2	-6	22 Su	1248	-0.2	-6	7 Tu	1329	-0.2	-6
	0632	0.2	6		2233	0.5	15		2315	0.6	18		2315	0.6	18		1311	-0.2	-6
	1343	0.0	0																
	2203	0.4	12																
8 F	1343	-0.1	-3	23 Sa	1325	-0.2	-6	8 Su	1320	-0.3	-9	23 M	1307	-0.2	-6	8 W	0026	0.7	21
	2259	0.5	15		2313	0.5	15									23 Th	1329	-0.1	-3
9 Sa	1358	-0.1	-3	24 Su	1340	-0.2	-6	9 M	0004	0.6	18	24 Tu	1327	-0.2	-6	9 Th	0056	0.6	18
																24 F	0032	0.7	21
10 Su	0005	0.5	15	25 M	0000	0.5	15	10 Tu	0056	0.6	18	25 W	0033	0.6	18	10 F	0116	0.6	18
	1422	-0.2	-6		1357	-0.2	-6		1415	-0.2	-6		1346	-0.2	-6		1405	0.0	0
																25 Sa	0051	0.7	21
11 M	0124	0.5	15	26 Tu	0056	0.5	15	11 W	0147	0.6	18	26 Th	0114	0.6	18	11 Sa	0122	0.5	15
	1450	-0.2	-6		1415	-0.2	-6		1437	-0.2	-6		1402	-0.2	-6		1330	0.0	0
																26 Su	0056	0.6	18
12 Tu	0251	0.5	15	27 W	0159	0.5	15	12 Th	0235	0.5	15	27 F	0153	0.6	18	12 Su	0102	0.5	15
	1518	-0.2	-6		1435	-0.2	-6		1449	-0.1	-3		1413	-0.1	-3		2355	0.4	12
																27 M	0229	0.6	18
																	1159	0.1	3
																	2301	0.5	15
13 W	0405	0.5	15	28 Th	0302	0.5	15	13 F	0312	0.5	15	28 Sa	0227	0.6	18	13 M	1132	0.1	3
	1544	-0.2	-6		1454	-0.2	-6		1440	0.0	0		1409	0.0	0		2208	0.4	12
																28 Tu	1057	0.1	3
																	2127	0.6	18
14 Th	0459	0.5	15	29 F	0356	0.5	15	14 Sa	0333	0.4	12	29 Su	0249	0.5	15	14 Tu	1105	0.0	0
	1600	-0.1	-3		1507	-0.1	-3		1401	0.0	0		1343	0.0	0		2117	0.5	15
																29 W	1026	0.1	3
																	2058	0.6	18
15 F	0538	0.4	12	30 Sa	0440	0.5	15	15 Su	0334	0.4	12	30 M	0243	0.5	15	15 W	1058	0.0	0
	1552	0.0	0		1508	0.0	0		1309	0.1	3		1256	0.1	3		2110	0.5	15
																30 Th	1025	0.7	21

Time meridian 60° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Magueyes Island, Puerto Rico, 2016

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	1043 2127	-0.1 0.8	-3 24	16 Sa	1046 2124	-0.1 0.7	-3 21	1 M	1142 2202	0.0 0.8	0 24	16 Tu	1135 2140	0.1 0.9	3 27	1 Th	1314 2134	0.3 0.7	9 21	16 F	1316 2100	0.5 0.8	15 24
2 Sa	1112 2156	-0.2 0.8	-6 24	17 Su	1117 2149	-0.1 0.8	-3 24	2 Tu	1222 2225	0.0 0.8	0 24	17 W	1212 2202	0.1 0.9	3 27	2 F	1350 2128	0.4 0.7	12 21	17 Sa	0343 0828 1410 2036	0.5 0.6 0.5 0.7	15 18 15 21
3 Su	1145 2227	-0.2 0.8	-6 24	18 M	1147 2215	-0.1 0.8	-3 24	3 W	1256 2242	0.1 0.8	3 24	18 Th	1247 2218	0.2 0.8	6 24	3 Sa	0408 0836 1422 2108	0.5 0.6 0.5 0.6	15 18 15 21				
4 M	1220 2257	-0.2 0.8	-6 24	19 Tu	1216 2241	-0.1 0.8	-3 24	4 Th	1326 2251	0.1 0.7	3 21	19 F	1318 2225	0.3 0.8	9 24	4 Su	0349 0956 1447 2029	0.5 0.6 0.5 0.6	15 18 15 18				
●				○												19 M	0256 1127	0.4 0.7	12 21				
5 Tu	1253 2325	-0.2 0.7	-6 21	20 W	1243 2305	0.0 0.8	0 24	5 F	1347 2249	0.2 0.7	6 21	20 Sa	1343 2213	0.4 0.7	12 21	5 M	0346 1136 1445 1923	0.4 0.6 0.5 0.6	12 18 15 18				
6 W	1321 2347	-0.1 0.7	-3 21	21 Th	1307 2326	0.0 0.8	0 24	6 Sa	1355 2232	0.3 0.6	9 18	21 Su	1346 2132	0.5 0.7	15 21	6 Tu	0354 1809	0.4 0.6	12 18	21 W	0328 1625	0.3 0.8	9 24
7 Th	1342	0.0	0	22 F	1326 2338	0.1 0.7	3 21	7 Su	1322 2155	0.4 0.6	12 18	22 M	0522 2018	0.4 0.7	12 21	7 W	0410 1754	0.3 0.7	9 21	22 Th	0401 1721	0.2 0.9	6 27
8 F	0000 1350	0.6 0.1	18 3	23 Sa	1331 2334	0.2 0.7	6 21	8 M	0643 2058	0.3 0.6	9 18	23 Tu	0513 1908	0.4 0.7	12 21	8 Th	0435 1812	0.3 0.7	9 21	23 F	0440 1805	0.2 0.9	6 27
9 Sa	0001 1332 2343	0.6 0.1 0.5	18 3 15	24 Su	1259 2301	0.3 0.6	9 18	9 Tu	0637 2004	0.3 0.6	9 18	24 W	0532 1852	0.3 0.8	9 24	9 F	0509 1838	0.3 0.8	9 24	24 Sa	0527 1843	0.3 0.9	9 27
10 Su	1213 2258	0.2 0.5	6 15	25 M	1040 2151	0.3 0.6	9 18	10 W	0655 1942	0.2 0.7	6 21	25 Th	0610 1909	0.2 0.8	6 24	10 Sa	0556 1906	0.3 0.8	9 24	25 Su	0632 1914	0.3 0.9	9 27
●				○																			
11 M	1025 2151	0.2 0.5	6 15	26 Tu	0850 2039	0.3 0.6	9 18	11 Th	0732 1946	0.2 0.7	6 21	26 F	0707 1936	0.2 0.9	6 27	11 Su	0710 1934	0.3 0.9	9 27	26 M	0852 1938	0.4 0.8	12 24
○				○																			
12 Tu	0942 2056	0.1 0.6	3 18	27 W	0830 2012	0.2 0.7	6 21	12 F	0822 2003	0.1 0.8	3 24	27 Sa	0824 2005	0.2 0.9	6 27	12 M	0901 2001	0.3 0.9	9 27	27 Tu	1052 1954	0.4 0.8	12 24
13 W	0937 2039	0.1 0.6	3 18	28 Th	0848 2019	0.1 0.8	3 24	13 Sa	0918 2026	0.1 0.8	3 24	28 Su	0945 2034	0.2 0.9	6 27	13 Tu	1025 2025	0.3 0.9	9 27	28 W	1207 2002	0.4 0.7	12 21
14 Th	0952 2044	0.0 0.7	0 21	29 F	0926 2041	0.0 0.8	0 24	14 Su	1009 2051	0.1 0.8	3 24	29 M	1052 2058	0.2 0.9	6 27	14 W	1128 2046	0.3 0.9	9 27	29 Th	0301 0730 1308 2000	0.5 0.6 0.5 0.7	15 18 15 21
15 F	1017 2101	0.0 0.7	0 21	30 Sa	1011 2108	0.0 0.8	0 24	15 M	1055 2116	0.1 0.9	3 27	30 Tu	1147 2117	0.2 0.8	6 24	15 Th	1223 2100	0.4 0.8	12 24	30 F	0226 0820 1405 1945	0.5 0.6 0.5 0.6	15 18 15 18
				31 Su	1058 2136	0.0 0.8	0 24					31 W	1233 2130	0.3 0.8	9 24								

Time meridian 60° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Magueyes Island, Puerto Rico, 2016

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	0209 0906 1507 1912	0.5 0.7 0.5 0.6	15 21 15 18	16 Su	0131 0948	0.4 0.8	12 24	1 Tu	0113 1057	0.2 0.8	6 24	16 W	0109 1149	0.0 0.9	0 27	1 Th	0104 1134	0.0 0.7	0 21	16 F	0127 1212	-0.2 0.7	-6 21
2 Su	0204 0952	0.4 0.7	12 21	17 M	0130 1044	0.3 0.9	9 27	2 W	0130 1144	0.1 0.8	3 24	17 Th	0139 1244	0.0 0.9	0 27	2 F	0125 1213	0.0 0.7	0 21	17 Sa	0156 1244	-0.1 0.7	-3 21
3 M	0208 1043	0.4 0.7	12 21	18 Tu	0144 1151	0.2 0.9	6 27	3 Th	0149 1241	0.1 0.8	3 24	18 F	0210 1340	0.0 0.8	0 24	3 Sa	0144 1253	0.0 0.7	0 21	18 Su	0217 1306	0.0 0.6	0 18
4 Tu	0218 1148	0.3 0.7	9 21	19 W	0208 1312	0.2 0.9	6 27	4 F	0208 1345	0.1 0.8	3 24	19 Sa	0236 1431	0.1 0.8	3 24	4 Su	0200 1332	0.0 0.7	0 21	19 M	0222 1309	0.1 0.5	3 15
5 W	0233 1322	0.3 0.8	9 24	20 Th	0238 1441	0.1 0.9	3 27	5 Sa	0228 1448	0.1 0.8	3 24	20 Su	0254 1511	0.1 0.7	3 21	5 M	0210 1406	0.1 0.7	3 21	20 Tu	0155 1241	0.1 0.5	3 15
6 Th	0253 1516	0.2 0.8	6 24	21 F	0309 1555	0.2 0.9	6 27	6 Su	0245 1541	0.2 0.8	6 24	21 M	0251 1535	0.2 0.7	6 21	6 Tu	0206 1428	0.1 0.7	3 21	21 W	0036 1118 2317	0.2 0.4 0.2	6 12 6
7 F	0315 1627	0.2 0.8	6 24	22 Sa	0339 1650	0.2 0.9	6 27	7 M	0256 1624	0.2 0.8	6 24	22 Tu	0212 1534	0.3 0.6	9 18	7 W	0141 1424	0.2 0.6	6 18	22 Th	0931 2242	0.5 0.1	15 3
8 Sa	0339 1715	0.2 0.8	6 24	23 Su	0401 1729	0.3 0.8	9 24	8 Tu	0254 1656	0.3 0.8	9 24	23 W	0108 1435	0.3 0.5	9 15	8 Th	0052 1201	0.2 0.5	6 15	23 F	0848 2236	0.5 0.0	15 0
9 Su	0404 1753	0.3 0.9	9 27	24 M	0401 1755	0.3 0.8	9 24	9 W	0232 1716	0.3 0.7	9 21	24 Th	0018 0910 2353	0.3 0.6 0.2	9 18 6	9 F	0002 0919 2328	0.2 0.6 0.2	6 18 6	24 Sa	0845 2248	0.6 0.0	18 0
10 M	0426 1826	0.3 0.9	9 27	25 Tu	0315 1809	0.4 0.7	12 21	10 Th	0151 1713	0.4 0.7	12 21	25 F	0853 2346	0.6 0.2	18 6	10 Sa	0859 2317	0.7 0.1	21 3	25 Su	0858 2308	0.6 -0.1	18 -3
11 Tu	0435 1853	0.4 0.9	12 27	26 W	0210 0836 1124 1808	0.4 0.5 0.4 0.7	12 15 12 21	11 F	0108 0901	0.4 0.7	12 21	26 Sa	0903 2352	0.7 0.1	21 3	11 Su	0913 2327	0.7 0.0	21 0	26 M	0920 2334	0.6 -0.1	18 -3
12 W	0411 1914	0.5 0.8	15 24	27 Th	0124 0825 1326 1750	0.4 0.6 0.5 0.6	12 18 15 18	12 Sa	0035 0907	0.3 0.7	9 21	27 Su	0924	0.7	21	12 M	0941 2350	0.8 -0.1	24 -3	27 Tu	0946	0.6	18
13 Th	0318 0758 1149 1924	0.5 0.6 0.5 0.8	15 18 15 24	28 F	0100 0843	0.4 0.7	12 21	13 Su	0021 0935	0.3 0.8	9 24	28 M	0005 0951	0.1 0.7	3 21	13 Tu	1016	0.8	24	28 W	0000 1015	-0.2 0.6	-6 18
14 F	0228 0821 1326 1912	0.5 0.7 0.6 0.7	15 21 18 21	29 Sa	0051 0910	0.3 0.7	9 21	14 M	0025 1013	0.2 0.9	6 27	29 Tu	0022 1022	0.0 0.7	0 21	14 W	0021 1055	-0.2 0.8	-6 24	29 Th	0027 1044	-0.2 0.7	-6 21
15 Sa	0151 0900 1518 1813	0.5 0.7 0.5 0.6	15 21 15 18	30 Su	0052 0941	0.3 0.8	9 24	15 Tu	0043 1058	0.1 0.9	3 27	30 W	0043 1057	0.0 0.7	0 21	15 Th	0054 1135	-0.2 0.8	-6 24	30 F	0052 1113	-0.2 0.7	-6 21
				31 M	0100 1016	0.2 0.8	6 24									31 Sa	0114 1140	-0.1 0.6	-3 18				

Time meridian 60° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

San Juan, Puerto Rico, 2016

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
1 F	0203	1.0	30	16	0201	1.2	37	1	0315	1.1	34	16	0401	1.4	43
	0747	0.3	9	Sa	0756	0.2	6	M	0913	0.4	12	Tu	1021	0.3	9
	1403	1.2	37	Sa	1358	1.3	40	M	1425	0.9	27	Tu	1525	0.9	27
	2041	0.2	6	●	2031	-0.1	-3		2104	-0.1	-3		2154	-0.3	-9
2 Sa	0304	1.1	34	17	0310	1.3	40	2	0412	1.2	37	17	0506	1.4	43
	0848	0.4	12	Su	0910	0.3	9	2	1017	0.5	15	W	1129	0.3	9
	1440	1.1	34	Su	1448	1.2	37	Tu	1509	0.8	24		1626	0.9	27
	2119	0.1	3		2122	-0.2	-6		2150	-0.1	-3		2253	-0.3	-9
3 Su	0403	1.1	34	18	0418	1.4	43	3	0508	1.2	37	18	0606	1.4	43
	0953	0.5	15	M	1027	0.4	12	3	1121	0.5	15	Th	1230	0.3	9
	1519	1.0	30	M	1541	1.0	30		1600	0.8	24		1726	0.8	24
	2159	0.0	0		2215	-0.3	-9		2239	-0.2	-6		2351	-0.3	-9
4 M	0500	1.2	37	19	0523	1.5	46	4	0601	1.3	40	19	0701	1.4	43
	1059	0.5	15	Tu	1140	0.4	12	4	1220	0.5	15	F	1323	0.3	9
	1601	0.9	27		1638	0.9	27		1655	0.8	24		1825	0.9	27
	2240	-0.1	-3		2309	-0.3	-9		2329	-0.2	-6				
5 Tu	0552	1.3	40	20	0624	1.6	49	5	0651	1.4	43	20	0045	-0.3	-9
	1202	0.5	15	W	1247	0.4	12	5	1313	0.4	12	Sa	0750	1.4	43
	1646	0.9	27		1736	0.9	27	5	1752	0.8	24	Sa	1409	0.3	9
	2322	-0.1	-3									1919	0.9	27	
6 W	0641	1.4	43	21	0003	-0.4	-12	6	0021	-0.3	-9	21	0137	-0.2	-6
	1259	0.5	15	Th	0719	1.6	49	6	0738	1.5	46	Su	0834	1.4	43
	1733	0.9	27		1345	0.3	9	6	1400	0.4	12	Su	1449	0.2	6
					1833	0.9	27		1849	0.9	27		2010	1.0	30
7 Th	0005	-0.2	-6	22	0056	-0.4	-12	7	0112	-0.3	-9	22	0225	-0.2	-6
	0727	1.5	46	F	0810	1.6	49	7	0824	1.6	49	M	0914	1.4	43
	1352	0.5	15		1437	0.3	9		1445	0.3	9		1526	0.2	6
	1822	0.8	24		1928	0.9	27		1946	1.0	30	○	2058	1.0	30
8 F	0049	-0.3	-9	23	0147	-0.4	-12	8	0204	-0.3	-9	23	0311	-0.1	-3
	0811	1.6	49	Sa	0858	1.6	49	8	0908	1.6	49	M	0950	1.3	40
	1439	0.4	12	Sa	1523	0.3	9		1528	0.2	6	Tu	1600	0.2	6
	1911	0.8	24	○	2020	0.9	27	●	2043	1.0	30		2143	1.1	34
9 Sa	0134	-0.3	-9	24	0236	-0.3	-9	9	0257	-0.3	-9	24	0355	0.0	0
	0854	1.6	49	Su	0941	1.6	49	9	0951	1.6	49	W	1024	1.2	37
	1524	0.4	12	Su	1606	0.2	6		1610	0.2	6		1633	0.2	6
	2002	0.9	27		2111	0.9	27		2141	1.1	34		2228	1.1	34
10 Su	0219	-0.3	-9	25	0322	-0.3	-9	10	0352	-0.2	-6	25	0439	0.0	0
	0936	1.7	52	M	1022	1.5	46	10	1034	1.6	49	Th	1056	1.2	37
	1608	0.4	12		1645	0.2	6	10	1652	0.1	3		1705	0.1	3
	2054	0.9	27		2200	0.9	27		2240	1.2	37		2312	1.1	34
11 M	0306	-0.3	-9	26	0408	-0.2	-6	11	0448	-0.1	-3	26	0523	0.1	3
	1018	1.7	52	Tu	1100	1.4	43	11	1117	1.5	46	F	1127	1.1	34
	1650	0.3	9		1722	0.2	6		1736	0.0	0		1736	0.1	3
	2148	0.9	27		2249	1.0	30		2340	1.3	40		2357	1.2	37
12 Tu	0356	-0.2	-6	27	0453	0.0	0	12	0548	0.0	0	27	0607	0.2	6
	1101	1.7	52	W	1135	1.3	40	12	1201	1.4	43	Sa	1157	1.0	30
	1732	0.3	9		1757	0.2	6		1821	-0.1	-3		1809	0.1	3
	2246	1.0	30		2339	1.0	30						1746	-0.2	-6
13 W	0448	-0.1	-3	28	0538	0.1	3	13	0043	1.4	43	28	0044	1.2	37
	1143	1.6	49	Th	1208	1.2	37	13	0651	0.1	3	Su	0654	0.3	9
	1814	0.2	6		1831	0.1	3		1247	1.2	37		1228	0.9	27
	2347	1.1	34						1909	-0.2	-6		1845	0.0	0
14 Th	0545	0.0	0	29	0029	1.0	30	14	0147	1.4	43	29	0133	1.2	37
	1226	1.6	49	F	0626	0.2	6	14	0758	0.2	6	M	0745	0.4	12
	1858	0.1	3		1240	1.1	34		1336	1.1	34		1302	0.9	27
					1906	0.1	3		2000	-0.2	-6		1925	0.0	0
15 F	0053	1.1	34	30	0122	1.0	30	15	0254	1.4	43	15	0234	1.5	46
	0648	0.1	3	Sa	0716	0.3	9	15	0909	0.3	9	Tu	0902	0.3	9
	1311	1.4	43	Sa	1313	1.0	30		1428	1.0	30		1414	0.9	27
	1943	0.0	0		1942	0.1	3	○	2056	-0.2	-6	○	2031	-0.2	-6
31 Th	0217	1.1	34	31	0217	1.1	34					31	0238	1.3	40
	0812	0.4	12	Su	1347	1.0	30					Th	0910	0.4	12
				○	2021	0.0	0					○	1403	0.8	24
												○	2019	0.0	0

Time meridian 60° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

San Juan, Puerto Rico, 2016

Times and Heights of High and Low Waters

April					May					June							
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height				
1 F 0333 1004 1507 2122	1.4 0.4 0.9 0.0	43 12 27 0	16 Sa 0500 1125 1714 2319	1.3 0.2 1.0 0.1	40 6 30 3	1 Su 0346 1019 1608 2208	1.4 0.2 1.1 0.2	43 6 34 6	16 M 0456 1120 1751 2357	1.1 0.1 1.2 0.3	34 3 37 9	1 W 0452 1119 1811 1909	1.2 -0.2 1.6 1.7	37 -6 49 52	16 Th 0028 0521 1146 1858	0.5 0.9 -0.1 1.4	15 27 -3 43
	0429 1056 1615 2228	1.4 0.4 1.0 0.0		1.2 0.2 1.2 0	37 6 37 0		0439 1106 1716 2321	1.4 0.1 1.2 0.2	43 3 37 6	0538 1156 1840 1909	1.0 0.1 1.3 1.7	30 3 40 52	0026 0547 1208 1924	0.3 1.1 -0.3 1.5	9 34 -9 46		
	0524 1146 1723 2336	1.4 0.3 1.1 0.0		0019 M 0633 1244 1900	0.2 1.2 0.2 1.2	6 37 6 37	0532 1153 1819	1.3 0.0 1.4	40 0 43	0054 0618 1231 1925	0.3 1.0 0.0 1.4	9 30 0 43	0214 0647 1304 2023	0.4 0.8 -0.2 1.6	12 24 -6 49		
	0616 1232 1827	1.4 0.2 1.3		0113 Tu 0713 1319 1945	0.2 1.1 0.1 1.3	6 34 3 40	0032 0625 1240 1919	0.2 1.3 -0.1 1.6	6 40 -3 49	0148 0657 1306 2007	0.3 0.9 -0.1 1.5	9 27 -3 46	0237 0737 1349 2059	0.2 1.0 -0.4 1.9	6 30 -12 58		
5 Tu 0041 0706 1318 1928	0.0 1.4 0.1 1.4	0 43 3 43	20 W 0204 0750 1352 2028	0.2 1.0 0.1 1.4	6 30 3 43	5 Th 0139 0716 1327 2016	0.1 1.2 -0.2 1.8	3 37 -6 55	20 F 0237 0736 1341 2047	0.3 0.8 -0.1 1.5	9 24 -3 46	5 Su 0335 0832 1441 2152	0.2 0.9 -0.4 1.9	6 27 -12 58	20 M 0345 0814 1422 2143	0.4 0.8 -0.2 1.6	12 24 -6 49
	0145 0755 1403 2026	0.0 1.4 0.0 1.6		0251 Th 0825 1424 2108	0.2 1.0 0.0 1.4	6 30 0 43	0243 0808 1415 2111	0.1 1.1 -0.3 1.9	3 34 -9 58	0323 0814 1416 2127	0.3 0.8 -0.1 1.5	9 24 -3 46	0430 0927 1533 2243	0.2 0.9 -0.4 1.8		6 27 -12 55	
	0247 0843 1449 2123	0.0 1.3 -0.2 1.7		0336 F 0859 1456 2148	0.2 0.9 0.0 1.5	6 27 0 46	0343 0900 1504 2206	0.1 1.0 -0.4 1.9	3 30 -12 58	0407 0851 1451 2206	0.3 0.8 -0.1 1.6	9 24 -3 49	0523 1023 1625 2333	0.2 0.9 -0.3 1.8		6 27 -9 55	
	0347 0931 1535 2219	0.0 1.2 -0.2 1.8		0420 Sa 0933 1528 2226	0.2 0.9 0.0 1.5	6 27 0 46	0442 0952 1555 2300	0.1 1.0 -0.4 1.9	3 30 -12 58	0449 0929 1527 2245	0.3 0.7 -0.1 1.6	9 21 -3 49	0614 1121 1718 2341	0.2 0.9 -0.2 1.7		6 27 -6 52	
9 Sa 0447 1020 1624 2315	0.0 1.1 -0.3 1.8	0 34 -9 55	24 Su 0502 1006 1601 2306	0.3 0.8 0.0 1.5	9 24 0 46	9 M 0539 1046 1647 2354	0.1 0.9 -0.3 1.8	3 27 -9 55	24 Tu 0531 1008 1605 2324	0.3 0.7 -0.1 1.6	9 21 -3 49	9 Th 0022 0702 1221 1813	1.7 0.2 0.9 0.0	52 27 27 0	24 F 0624 1131 1721 2341	0.3 0.9 0.0 0.0	9 27 0 0
	0547 1111 1714	0.1 1.0 -0.3		0545 M 1039 1636 2346	0.3 0.8 0.0 1.5	9 24 0 46	0635 1143 1742	0.1 0.9 -0.2 1.5	3 27 -6 46	0612 1051 1646	0.3 0.7 -0.1	9 21 -3 46	0108 0748 1323 1818	1.5 0.2 0.9 0.2		46 27 27 6	
	0647 1204 1808	0.1 0.9 -0.2		0627 Tu 1116 1714	0.3 0.7 0.0 0.0	9 21 0 0	0048 0730 1242 1838	1.7 0.2 0.9 -0.1	52 6 27 -3	0004 0653 1140 1732	1.6 0.3 0.8 0.0	49 9 24 0	0153 0832 1426 2011	1.4 0.2 1.0 0.2		43 6 30 6	
	0747 1300 1905	0.2 0.9 -0.2		0028 W 0711 1158 1757	1.5 0.4 0.7 0.0	46 12 21 0	0141 0823 1346 1939	1.6 0.2 0.9 0.0	49 6 27 0	0047 0735 1238 1826	1.6 0.3 0.8 0.1	49 9 24 3	0236 0913 1529 2115	1.3 0.1 1.1 0.4		40 3 34 12	
13 W 0209 0847 1402 2006	1.6 0.2 0.9 -0.1	49 6 27 -3	28 Th 0113 0757 1248 1848	1.5 0.4 0.8 0.0	46 12 24 0	13 F 0233 0913 1451 2042	1.4 0.2 0.9 0.1	43 6 27 3	28 Sa 0131 0817 1343 1929	1.5 0.3 0.9 0.2	46 9 27 6	13 M 0317 0952 1628 2222	1.2 0.1 1.2 0.4	37 3 37 12	28 Tu 0235 0913 1554 2152	1.3 0.0 1.4 0.4	40 0 43 12
	0309 0945 1507 2110	1.5 0.2 0.9 0.0		0202 F 0844 1349 1947	1.4 0.4 0.8 0.1	43 12 24 3	0324 0959 1556 2148	1.3 0.2 1.0 0.2	40 6 30 6	0218 0900 1453 2040	1.5 0.2 1.0 0.2	46 6 30 6	0358 1029 1722 2327	1.1 0.0 1.2 0.5		34 0 37 15	
	0406 1038 1612 2216	1.4 0.2 0.9 0.1		0253 Sa 0932 1458 2055	1.4 0.3 0.9 0.1	43 9 27 3	0411 1041 1656 2254	1.2 0.1 1.1 0.3	37 3 34 9	0307 0945 1603 2156	1.4 0.1 1.2 0.3	43 3 37 9	0439 1107 1812	1.0 0.0 1.3		30 0 40	
	0426 1038 1612 2216	1.4 0.2 0.9 0.1		0253 Sa 0932 1458 2055	1.4 0.3 0.9 0.1	43 9 27 3	0359 1031 1709 2313	1.3 0.0 1.4 0.3	40 0 43 9	0359 1031 1709 2313	1.3 0.0 1.4 0.3	40 0 43 9	0420 1052 1801	1.1 -0.2 1.7		34 -6 52	

Time meridian 60° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time. Heights are referred to mean lower low water which is the chart datum of soundings.

San Juan, Puerto Rico, 2016

Times and Heights of High and Low Waters

July				August				September			
Time	Height	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 F 0021	0.4	12	16 Sa 0050	0.6	18	1 M 0209	0.5	15	1 Th 0143	0.6	18
0517	1.0	30	0517	0.9	27	0702	1.1	34	0634	1.1	34
1144	-0.3	-9	1146	-0.1	-3	1319	-0.2	-6	1251	0.0	0
1859	1.8	55	1910	1.5	46	2030	1.8	55	2001	1.8	55
2 Sa 0127	0.4	12	17 Su 0141	0.5	15	2 Tu 0257	0.4	12	17 W 0225	0.6	18
0616	1.0	30	0607	0.9	27	0759	1.1	34	0730	1.2	37
1238	-0.4	-12	1231	-0.1	-3	1412	-0.1	-3	1342	0.1	3
1954	1.8	55	1954	1.6	49	● 2116	1.8	55	2042	1.8	55
3 Su 0227	0.3	9	18 M 0227	0.5	15	3 W 0341	0.4	12	18 Th 0305	0.5	15
0714	0.9	27	0657	0.9	27	0854	1.1	34	0825	1.3	40
1331	-0.4	-12	1315	-0.1	-3	1503	-0.1	-3	1433	0.1	3
2047	1.9	58	2036	1.7	52	2159	1.7	52	○ 2123	1.8	55
4 M 0321	0.3	9	19 Tu 0310	0.5	15	4 Th 0422	0.4	12	19 F 0344	0.4	12
0811	0.9	27	0747	0.9	27	0946	1.2	37	0920	1.4	43
1424	-0.4	-12	1400	-0.1	-3	1552	0.0	0	1527	0.2	6
● 2136	1.8	55	○ 2116	1.7	52	2238	1.7	52	2204	1.8	55
5 Tu 0411	0.3	9	20 W 0350	0.4	12	5 F 0500	0.4	12	20 Sa 0424	0.4	12
0908	1.0	30	0838	1.0	30	1038	1.2	37	1016	1.5	46
1516	-0.3	-9	1445	-0.1	-3	1641	0.2	6	1622	0.2	6
2224	1.8	55	2156	1.8	55	2316	1.6	49	2246	1.7	52
6 W 0458	0.3	9	21 Th 0429	0.4	12	6 Sa 0537	0.3	9	21 Su 0505	0.3	9
1004	1.0	30	0931	1.0	30	1129	1.3	40	1114	1.6	49
1607	-0.2	-6	1533	0.0	0	1729	0.3	9	1720	0.3	9
2309	1.7	52	2235	1.8	55	2351	1.5	46	2328	1.6	49
7 Th 0542	0.3	9	22 F 0507	0.4	12	7 Su 0612	0.3	9	22 M 0548	0.2	6
1059	1.0	30	1026	1.1	34	1220	1.3	40	1214	1.7	52
1658	0.0	0	1624	0.1	3	1819	0.4	12	1822	0.4	12
2351	1.6	49	2315	1.7	52	● 2315	1.7	52	1941	0.7	21
8 F 0624	0.2	6	23 Sa 0546	0.3	9	8 M 0024	1.3	40	23 Tu 0012	1.2	37
1156	1.0	30	1124	1.2	37	0647	0.3	9	0627	0.3	9
1749	0.1	3	1718	0.2	6	1312	1.3	40	1323	1.5	46
			2355	1.6	49	1912	0.5	15	1941	0.7	21
9 Sa 0031	1.5	46	24 Su 0626	0.2	6	9 Tu 0058	1.2	37	24 W 0100	1.4	43
0704	0.2	6	1225	1.3	40	0723	0.2	6	0724	0.1	3
1253	1.1	34	1818	0.3	9	1406	1.4	43	1421	1.8	55
1843	0.2	6				2008	0.6	18	○ 2038	0.6	18
10 Su 0109	1.4	43	25 M 0037	1.5	46	10 W 0133	1.1	34	25 Th 0152	1.3	40
0742	0.2	6	0709	0.1	3	0802	0.2	6	0818	0.0	0
1352	1.1	34	1329	1.4	43	1502	1.4	43	1527	1.8	55
1939	0.4	12	1924	0.4	12	● 2109	0.7	21	2150	0.6	18
11 M 0146	1.2	37	26 Tu 0122	1.4	43	11 Th 0211	1.1	34	26 F 0250	1.2	37
0820	0.2	6	0754	0.0	0	0845	0.2	6	0916	0.0	0
1451	1.2	37	1436	1.5	46	1558	1.4	43	1632	1.8	55
● 2040	0.5	15	○ 2036	0.5	15	2211	0.7	21	2259	0.6	18
12 Tu 0223	1.1	34	27 W 0210	1.3	40	12 F 0256	1.0	30	27 Sa 0352	1.2	37
0858	0.1	3	0844	0.0	0	0931	0.1	3	1017	0.0	0
1548	1.2	37	1542	1.6	49	1652	1.5	46	1733	1.8	55
2145	0.5	15	2152	0.5	15	2313	0.7	21	● 2259	0.6	18
13 W 0302	1.0	30	28 Th 0303	1.2	37	13 Sa 0346	1.0	30	28 Su 0001	0.6	18
0938	0.1	3	0936	-0.1	-3	1020	0.1	3	0457	1.2	37
1644	1.3	40	1647	1.7	52	1744	1.6	49	1118	0.0	0
2251	0.6	18	2306	0.6	18				1829	1.8	55
14 Th 0343	1.0	30	29 F 0400	1.1	34	14 Su 0009	0.7	21	29 W 0055	0.6	18
1019	0.0	0	1032	-0.2	-6	0441	1.0	30	0559	1.2	37
1736	1.4	43	1749	1.8	55	1110	0.1	3	M 1216	0.1	3
2353	0.6	18				1832	1.6	49	1920	1.8	55
15 F 0429	0.9	27	30 Sa 0014	0.5	15	15 M 0059	0.7	21	30 Tu 0142	0.6	18
1102	0.0	0	0501	1.1	34	0537	1.0	30	0658	1.3	40
1825	1.5	46	1128	-0.2	-6	1200	0.1	3	Tu 1312	0.1	3
			1847	1.8	55	1918	1.7	52	2006	1.8	55
31 Su 0115	0.5	15				31 W 0224	0.5	15			
0602	1.0	30				0752	1.3	40			
1225	-0.2	-6				1404	0.2	6			
1940	1.8	55				2048	1.7	52			

Time meridian 60° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

San Juan, Puerto Rico, 2016

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	0252	0.4	12	16	0219	0.2	6	1	0313	0.2	6
	0914	1.7	52	Su	0858	2.0	61	Tu	1016	1.8	55
	1531	0.5	15		1518	0.4	12		1650	0.6	18
	2121	1.4	43	O	2056	1.5	46		2144	1.1	34
2 Su	0324	0.4	12	17	0305	0.1	3	2	0346	0.2	6
	0956	1.7	52	M	0953	2.1	64	W	1055	1.8	55
	1617	0.5	15		1619	0.4	12	Th	1733	0.6	18
	2153	1.3	40		2144	1.4	43		2218	1.0	30
3 M	0355	0.4	12	18	0352	0.0	0	3	0420	0.2	6
	1037	1.7	52	Tu	1049	2.2	67	F	1135	1.7	52
	1701	0.6	18		1719	0.5	15		1817	0.6	18
	2225	1.3	40		2234	1.4	43		2254	1.0	30
4 Tu	0427	0.3	9	19	0442	0.0	0	4	0456	0.2	6
	1119	1.7	52	W	1145	2.1	64	Sa	1216	1.7	52
	1746	0.6	18		1820	0.5	15		1901	0.7	21
	2257	1.2	37		2327	1.3	40		2335	1.0	30
5 W	0500	0.3	9	20	0535	0.0	0	5	0537	0.3	9
	1201	1.7	52	Th	1243	2.1	64	Sa	1258	1.7	52
	1832	0.7	21		1921	0.5	15		1946	0.7	21
	2330	1.1	34								
6 Th	0536	0.3	9	21	0025	1.2	37	6	0025	1.0	30
	1246	1.7	52	F	0632	0.1	3	Su	0624	0.3	9
	1920	0.7	21		1342	2.0	61		1343	1.7	52
					2023	0.6	18		2031	0.7	21
7 F	0007	1.1	34	22	0129	1.2	37	7	0125	1.0	30
	0616	0.3	9	Sa	0733	0.2	6	M	0719	0.4	12
	1333	1.7	52		1442	1.9	58		1430	1.7	52
	2011	0.8	24	O	2122	0.6	18		2116	0.6	18
8 Sa	0052	1.1	34	23	0237	1.2	37	8	0233	1.1	34
	0703	0.4	12	Su	0839	0.3	9	Tu	0823	0.4	12
	1423	1.7	52		1540	1.8	55		1519	1.7	52
	2103	0.8	24		2217	0.5	15		2200	0.5	15
9 Su	0146	1.1	34	24	0347	1.2	37	9	0344	1.3	40
	0756	0.4	12	M	0946	0.4	12	W	0934	0.5	15
	1515	1.7	52		1634	1.7	52		1609	1.7	52
	O	2154	0.8	24		2306	0.5	15		2243	0.4	12
10 M	0249	1.1	34	25	0453	1.3	40	10	0452	1.4	43
	0856	0.4	12	Tu	1052	0.4	12	F	1047	0.5	15
	1607	1.7	52		1724	1.6	49		1700	1.6	49
	2242	0.7	21		2349	0.5	15		2328	0.3	9
11 Tu	0357	1.2	37	26	0553	1.4	43	11	0555	1.6	49
	1001	0.4	12	W	1155	0.5	15	Sa	1159	0.5	15
	1657	1.8	55		1809	1.5	46		1750	1.5	46
	2327	0.6	18								
12 W	0504	1.4	43	27	0027	0.4	12	12	0013	0.1	3
	1107	0.4	12	Th	0645	1.5	46	Su	0654	1.8	55
	1747	1.8	55		1253	0.5	15		1307	0.5	15
					1849	1.5	46		1841	1.5	46
13 Th	0010	0.5	15	28	0102	0.4	12	13	0054	0.1	3
	0606	1.5	46	F	0733	1.6	49	M	0756	1.6	49
	1212	0.4	12		1346	0.5	15		1421	0.5	15
	1834	1.7	52		1927	1.4	43		1916	1.0	30
14 F	0052	0.4	12	29	0136	0.3	9	14	0147	-0.1	-3
	0705	1.7	52	Sa	0816	1.7	52	W	0917	1.7	52
	1316	0.4	12		1435	0.6	18		1513	0.4	12
	1921	1.7	52		2002	1.3	40		2023	1.3	40
15 Sa	0135	0.3	9	30	0208	0.3	9	15	0236	-0.2	-6
	0802	1.9	58	Su	0857	1.7	52	W	0940	2.1	64
	1418	0.4	12		1522	0.6	18		1612	0.4	12
	2008	1.6	49	O	2037	1.2	37		2116	1.2	37
				31	0240	0.2	6				
				M	0937	1.8	55				
					1606	0.6	18				
					2111	1.1	34				

Time meridian 60° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Charlotte Amalie, St. Thomas Island, 2016

Times and Heights of High and Low Waters

January						February						March								
	Time	Height		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	0340	0.2	6	16	0323	0.3	9	1 M	0454	0.4	12	16	0526	0.6	18	1 Tu	0336	0.4	12	
	0636	0.1	3	Sa	0804	0.2	6		2120	-0.1	-3	Tu	2134	-0.2	-6		2007	-0.1	-3	
	1325	0.5	15	Sa	1319	0.5	15									16	0447	0.6	18	
	2133	0.1	3	●	2057	0.0	0									W	2100	-0.2	-6	
2 Sa	0507	0.3	9	17	0454	0.5	15	2 Tu	0543	0.5	15	17	0622	0.6	18	2 W	0438	0.5	15	
	0830	0.2	6	Su	1013	0.3	9		2155	-0.2	-6		2227	-0.3	-9		2054	-0.2	-6	
	1342	0.5	15	Su	1339	0.4	12									17	0543	0.6	18	
	2156	0.0	0		2131	-0.1	-3									Th	2206	-0.2	-6	
3 Su	0550	0.4	12	18	0554	0.6	18	3 W	0625	0.5	15	18	0711	0.6	18	3 Th	0530	0.5	15	
	1035	0.3	9	M	2209	-0.2	-6		2232	-0.2	-6		2321	-0.3	-9		2146	-0.2	-6	
	1353	0.4	12													18	0631	0.6	18	
	2221	-0.1	-3													F	1353	0.0	0	
4 M	0628	0.5	15	19	0646	0.7	21	4 Th	0704	0.6	18	19	0755	0.6	18	4 F	0615	0.6	18	
	2248	-0.1	-3	Tu	2250	-0.3	-9		2311	-0.3	-9						Sa	1408	0.1	3
																1742	0.2	6		
5 Tu	0703	0.6	18	20	0733	0.7	21	5 F	0741	0.6	18	20	0013	-0.3	-9	5 Sa	0656	0.6	18	
	2315	-0.2	-6	W	2333	-0.3	-9		2353	-0.3	-9		0833	0.6	18		2335	-0.2	-6	
																20	0010	-0.1	-3	
																Su	0744	0.5	15	
																	1426	0.1	3	
																	1839	0.2	6	
6 W	0738	0.7	21	21	0818	0.7	21	6 Sa	0818	0.7	21	21	0102	-0.2	-6	6 Su	0734	0.7	21	
	2344	-0.2	-6	Th													M	0107	0.0	0
																	0809	0.5	15	
																	1446	0.1	3	
																	1930	0.3	9	
7 Th	0813	0.7	21	22	0017	-0.3	-9	7 Su	0037	-0.3	-9	22	0148	-0.2	-6	7 M	0033	-0.2	-6	
				F	0900	0.7	21		0854	0.7	21		0931	0.5	15		0811	0.7	21	
																	0828	0.4	12	
																	1506	0.1	3	
																	2017	0.4	12	
8 F	0015	-0.2	-6	23	0101	-0.3	-9	8 M	0124	-0.3	-9	23	0234	-0.1	-3	8 Tu	0135	-0.1	-3	
	0848	0.8	24	Sa	0938	0.7	21		0929	0.7	21		0951	0.5	15		0845	0.6	18	
				○													W	1524	0.1	3
																	2103	0.4	12	
9 Sa	0047	-0.3	-9	24	0143	-0.3	-9	9 Tu	0215	-0.2	-6	24	0321	-0.1	-3	9 W	0242	0.0	0	
	0924	0.8	24	Su	1011	0.7	21		1003	0.7	21		1007	0.4	12		0918	0.6	18	
				●					1728	0.1	3		1711	0.1	3		1557	0.1	3	
									2034	0.2	6		2141	0.3	9		2107	0.4	12	
10 Su	0123	-0.3	-9	25	0223	-0.2	-6	10 W	0313	-0.1	-3	25	0411	0.0	0	10 Th	0354	0.0	0	
	1001	0.8	24	M	1040	0.6	18		1036	0.6	18		1023	0.4	12		0948	0.5	15	
									1749	0.1	3		1733	0.1	3		1622	0.1	3	
									2151	0.3	9		2240	0.3	9		2215	0.5	15	
11 M	0202	-0.2	-6	26	0304	-0.1	-3	11 Tu	0421	0.0	0	26	0508	0.1	3	11 F	0511	0.1	3	
	1037	0.8	24	Tu	1104	0.6	18		1107	0.6	18		1039	0.3	9		1016	0.4	12	
									1842	0.1	3		1814	0.1	3		1651	0.0	0	
									2123	0.2	6		2316	0.3	9		2330	0.5	15	
12 Tu	0245	-0.2	-6	27	0346	-0.1	-3	12 F	0541	0.1	3	27	0615	0.1	3	12 Sa	0635	0.1	3	
	1113	0.8	24	W	1124	0.5	15		1135	0.5	15		1055	0.3	9		1040	0.3	9	
									1904	0.1	3		1843	0.0	0		1726	-0.1	-3	
									2236	0.2	6						1634	0.0	0	
13 W	0334	-0.1	-3	28	0434	0.0	0	13 Th	0059	0.4	12	28	0056	0.3	9	13 Su	0052	0.6	18	
	1148	0.8	24		1142	0.5	15		0714	0.2	6		0733	0.1	3		0808	0.1	3	
									1200	0.4	12		1111	0.2	6		1100	0.2	6	
									1917	-0.1	-3		1850	-0.1	-3		1808	-0.1	-3	
14 Th	0437	0.0	0	29	0002	0.2	6	14 Su	0253	0.4	12	29	0218	0.4	12	14 M	0220	0.6	18	
	1221	0.7	21	F	0535	0.1	3		0903	0.2	6		0912	0.1	3		1858	-0.2	-6	
	2003	0.1	3		1159	0.4	12		1219	0.3	9		1119	0.2	6					
						1952	0.0	0		1957	-0.1	-3		1925	-0.1	-3				
15 F	0043	0.2	6	30	0153	0.2	6	15 Sa	0420	0.5	15					15	0340	0.6	18	
	0609	0.1	3		0657	0.1	3		2043	-0.2	-6						1957	-0.2	-6	
	1252	0.6	18		1215	0.4	12									30	0229	0.5	15	
	2028	0.0	0		2019	0.0	0									W	1837	-0.1	-3	
																31	0332	0.6	18	
																Th	1944	-0.1	-3	
																○				

Time meridian 60° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Charlotte Amalie, St. Thomas Island, 2016

Times and Heights of High and Low Waters

April						May						June											
	Time	Height		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		h m	ft cm						
1 F	0427 2055	0.6 -0.1	18 -3	16 Sa	0531 1235	0.6 0.1	18 3	1 Su	0412 1150	0.7 0.1	21 3	16 M	0436 1150	0.5 0.0	15 0	1 W	0006 0419	0.3 0.5	9 15	16 Th	1137 1948	-0.1 0.7	-3 21
2 Sa	0515 1309	0.6 0.1	18 3	17 Su	0605 1254	0.5 0.1	15 9	2 M	0454 1205	0.6 0.1	18 3	17 Tu	0012 0454	0.3 0.4	9 12	2 Th	0159 0448	0.3 0.4	9 12	17 F	1201 2022	-0.1 0.7	-3 21
3 Su	0559 1318	0.6 0.2	18 6	18 M	0008 0630	0.1 0.4	3 12	3 Tu	0533 1224	0.6 0.1	18 3	18 W	0141 0510	0.2 0.3	6 9	3 F	1226 2048	-0.2 0.9	-6 27	18 Sa	1225 2057	-0.2 0.8	-6 24
4 M	0638 1334	0.6 0.2	18 6	19 Tu	0118 0649	0.1 0.4	3 12	4 W	0110 0608	0.2 0.5	6 15	19 Th	0305 0523	0.2 0.3	6 9	4 Sa	1301 2137	-0.2 0.9	-6 27	19 Su	1250 2131	-0.2 0.8	-6 24
5 Tu	0042 0715	0.0 0.6	0 18	20 W	0224 0705	0.2 0.3	6 9	5 Th	0241 0639	0.2 0.4	6 12	20 F	1305 2108	-0.1 0.7	-3 21	5 Su	1339 2225	-0.2 0.9	-6 27	20 M	1316 2206	-0.2 0.8	-6 24
6 W	0201 0748	0.1 0.5	3 15	21 Th	0328 0720	0.2 0.3	6 9	6 F	0407 0706	0.2 0.3	6 9	21 Sa	1322 2144	-0.1 0.7	-3 21	6 M	1420 2313	-0.2 0.9	-6 27	21 Tu	1345 2242	-0.1 0.9	-3 27
7 Th	0319 0819	0.1 0.4	3 12	22 F	0432 0736	0.1 0.2	3 6	7 Sa	1411 2229	-0.2 0.8	-6 24	22 Su	1340 2221	-0.1 0.7	-3 21	7 Tu	1502 2221	-0.2 0.7	-6 27	22 W	1417 2318	-0.1 0.9	-3 27
● ●	2126	0.6	18	O	2149	0.6	18	●	2135	0.8	24	O											
8 F	0439 0847	0.1 0.3	3 9	23 Sa	0537 0751	0.1 0.2	3 6	8 Su	1448 2325	-0.2 0.8	-6 24	23 M	1402 2300	-0.2 0.8	-6 24	8 W	0000 1547	0.8 -0.1	24 -3	23 Th	1452 2354	0.0 0.9	0 27
9 Sa	0600 0912	0.1 0.2	3 6	24 Su	1446 2313	-0.1 0.6	-3 18	9 M	1529	-0.2	-6	24 Tu	1429 2341	-0.1 0.8	-3 24	9 Th	0043 1637	0.8 0.0	24 0	24 F	1534	0.0	0
10 Su	0728 0930	0.1 0.2	3 6	25 M	1508	-0.1	-3	10 Tu	0022 1616	0.8 -0.2	24 -6	25 W	1501	-0.1	-3	10 F	0121 0934	0.7 0.0	21 0	25 Sa	0030 0852	0.8 0.1	24 3
11 M	0039 1705	0.7 -0.2	21 -6	26 Tu	0000 1538	0.7 -0.1	21 -3	11 W	0118 1712	0.8 -0.1	24 -3	26 Th	0023 1539	0.8 -0.1	24 -3	11 Sa	0154 0949	0.7 0.1	21 3	26 Su	0105 0905	0.8 0.2	24 6
12 Tu	0149 1802	0.7 -0.1	21 -3	27 W	0050 1619	0.7 -0.1	21 -3	12 Th	0212 1819	0.7 0.0	21 0	27 F	0106 1626	0.8 0.0	24 0	12 Su	0220 1008	0.6 0.1	18 3	27 M	0138 0923	0.7 0.1	21 3
13 W	0257 1909	0.7 -0.1	21 -3	28 Th	0143 1713	0.7 0.0	21 0	13 F	0259 1056	0.7 0.0	21 0	28 Sa	0149 1021	0.8 0.1	24 3	13 M	0240 1029	0.5 0.0	15 0	28 Tu	0209 0946	0.6 0.1	18 3
● ●				●	1939	0.0	0	●	1939	0.0	3	●	1740	0.1	3	●	1757 2228	0.4 0.3	12 9	●	1732 2249	0.6 0.4	18 12
14 Th	0358 2023	0.6 0.0	18 0	29 F	0236 1830	0.7 0.0	21 0	14 Sa	0340 1111	0.6 0.1	18 3	29 Su	0230 1029	0.7 0.1	21 3	14 Tu	0255 1051	0.4 0.0	12 0	29 W	0235 1013	0.5 0.0	15 0
15 F	0449 1219	0.6 0.1	18 3	30 Sa	0326 1141	0.7 0.1	21 3	15 Su	0411 1130	0.5 0.1	15 3	30 M	0310 1045	0.7 0.1	21 3	15 W	0029 0303	0.3 0.4	9 12	30 Th	1045 1912	-0.1 0.8	-3 24
	1219 1607	0.2 0.0	18 0		1445 2009	0.2 0.1	6 3		1756 2239	0.3 0.2	9 6		1724 2203	0.4 0.3	12 9		1114 1913	0.0 0.6	0 18				
	2139	0.0	0																				

Time meridian 60° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Charlotte Amalie, St. Thomas Island, 2016

Times and Heights of High and Low Waters

July				August				September															
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height												
h m 1121 F 1959	ft -0.2 0.9	cm -6 27	16 Sa	1125 1958	ft -0.1 0.8	cm -3 24	1 M	1237 2112	ft -0.1 1.0	cm -3 30	16 Tu	1218 2029	ft 0.1 1.0	cm 3 30	1 Th	0357 0750 1424 2124	ft 0.5 0.6 0.3 0.8	cm 15 18 9 24	16 F 0301 0749 1420 2042	ft 0.5 0.8 0.4 0.9	cm 15 24 12 27		
2 Sa	1200 2045	-0.2 0.9	-6 27	17 Su	1158 2033	-0.1 0.9	-3 27	2 Tu	1324 2148	0.0 0.9	0 27	17 W	1304 2102	0.1 1.0	3 30	2 F	0419 0846 1518 2141	0.5 0.6 0.4 0.8	15 18 12 24	17 Sa	0321 0851 1534 2112	0.5 0.8 0.5 0.8	15 24 15 24
3 Su	1242 2130	-0.2 0.9	-6 27	18 M	1231 2107	-0.1 0.9	-3 27	3 W	1411 2219	0.0 0.9	0 27	18 Th	0436 0713 1355 2134	0.4 0.5 0.2 1.0	12 15 6 30	3 Sa	0440 0940 1615 2157	0.4 0.7 0.4 0.7	12 15 12 21	18 Su	0344 0956 1654 2139	0.4 0.9 0.5 0.8	12 27 15 24
4 M	1325 2213	-0.2 0.9	-6 27	19 Tu	1306 2141	-0.1 0.9	-3 27	4 Th	0548 0817 1459 2244	0.3 0.4 0.1 0.8	9 12 3 24	19 F	0453 0823 1453 2205	0.5 0.6 0.3 0.9	15 18 9 27	4 Su	0502 1037 1717 2212	0.4 0.7 0.5 0.7	12 21 15 21	19 M	0412 1104 1819 2203	0.4 1.0 0.6 0.7	12 30 18 21
5 Tu	1409 2253	-0.2 0.9	-6 27	20 W	1343 2214	0.0 0.9	0 27	5 F	0608 0926 1548 2305	0.3 0.4 0.2 0.8	9 12 6 24	20 Sa	0513 0935 1601 2234	0.5 0.6 0.3 0.9	15 18 9 27	5 M	0524 1138 1828 2227	0.4 0.7 0.5 0.6	12 21 15 18	20 Tu	0445 1220 1955 2222	0.3 1.0 0.5 0.6	9 30 15 18
6 W	1453 2329	-0.1 0.8	-3 24	21 Th	1425 2246	0.0 0.9	0 27	6 Sa	0631 1038 1645 2322	0.3 0.5 0.3 0.7	9 15 9 21	21 Su	0536 1053 1722 2302	0.4 0.7 0.4 0.8	12 18 12 24	6 Tu	0548 1246 1949 2240	0.4 0.8 0.5 0.6	12 24 15 18	21 W	0525 1341	0.3 1.0	9 30
7 Th	1538	0.0	0	22 F	0653 0855 1513 2319	0.3 0.4 0.1 0.9	9 12 3 27	7 Su	0655 1200 1752 2338	0.3 0.5 0.4 0.6	9 15 12 18	22 M	0604 1222 1855 2327	0.3 0.7 0.5 0.7	9 21 15 21	7 W	0617 1401	0.3 0.8	9 24	22 Th	0615 1500	0.2 1.1	6 34
8 F	0000 0758 1027 1628	0.8 0.2 0.3 0.1	24 Sa	0707 1026 1615 2350	0.3 0.4 0.2 0.8	9 12 6 24	8 M	0721 1339 1914 2352	0.3 0.6 0.5 0.6	9 18 15 18	23 Tu	0636 1404 2039 2347	0.3 0.8 0.5 0.6	9 24 15 18	8 Th	0654 1512	0.3 0.8	9 24	23 F	0714 1608	0.2 1.1	6 34	
9 Sa	0025 0817 1218 1730	0.7 0.2 0.3 0.2	24 Su	0727 1029 1209 1743	0.3 0.4 0.5 0.3	9 12 15 9	9 Tu	0748 1516 2050	0.2 0.6 0.4	6 18 12	24 W	0716 1534	0.2 0.9	6 27	9 F	0738 1613	0.3 0.9	9 27	24 Sa	0820 1706	0.2 1.0	6 30	
10 Su	0046 0839 1457 1853	0.6 0.2 0.4 0.3	25 M	0019 0751 1421 1934	0.7 0.2 0.5 0.4	21 6 15 12	10 W	0003 0819 1625	0.5 0.2 0.7	15 6 21	25 Th	0802 1644	0.2 0.9	6 27	10 Sa	0828 1704	0.3 0.9	9 27	25 Su	0929 1755	0.3 1.0	9 30	
11 M	0103 0902 1632 2033	0.6 0.1 0.5 0.4	26 Tu	0046 0819 1607 2136	0.7 0.2 0.7 0.5	21 6 21 15	11 Th	0854 1717	0.1 0.7	3 21	26 F	0854 1743	0.1 1.0	3 30	11 Su	0921 1748	0.3 1.0	9 30	26 M	0126 0421 1037 1836	0.4 0.5 0.3 1.0	12 15 9 30	
12 Tu	0116 0928 1725 2233	0.5 0.1 0.5 0.4	27 W	0107 0852 1714	0.6 0.1 0.8	18 3 24	12 F	0931 1802	0.1 0.8	3 24	27 Sa	0950 1835	0.1 1.0	3 30	12 M	1016 1828	0.3 1.0	9 30	27 Tu	0140 0538 1144 1910	0.5 0.6 0.4 0.9	15 18 12 27	
13 W	0121 0955 1807	0.5 0.0 0.6	28 Th	0931 1809	0.0 0.9	0 27	13 Sa	1011 1843	0.1 0.9	3 27	28 Su	1048 1920	0.1 1.0	3 30	13 Tu	0219 0419 1112 1904	0.5 0.6 0.3 1.0	15 18 9 30	28 W	0159 0638 1247 1936	0.5 0.7 0.4 0.9	15 21 12 27	
14 Th	1023 1846	0.0 0.7	29 F	1014 1900	0.0 0.9	0 27	14 Su	1052 1920	0.1 0.9	3 27	29 M	1144 2001	0.1 1.0	3 30	14 W	0227 0539 1210 1938	0.5 0.6 0.3 1.0	15 18 9 30	29 Th	0219 0729 1348 1955	0.5 0.7 0.5 0.8	15 21 15 24	
15 F	1054 1923	0.0 0.8	30 Sa	1100 1947	-0.1 1.0	-3 30	15 M	1134 1955	0.1 1.0	3 30	30 Tu	0319 0547 1239 2035	0.4 0.5 0.2 0.9	12 15 6 27	15 Th	0243 0646 1312 2011	0.6 0.7 0.4 1.0	18 21 12 30	30 F	0238 0816 1448 2011	0.5 0.8 0.5 0.8	15 24 15 24	
			31 Su	1148 2031	-0.1 1.0	-3 30					31 W	0337 0652 1332 2103	0.5 0.6 0.2 0.9	15 18 6 27									

Time meridian 60° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Charlotte Amalie, St. Thomas Island, 2016

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	0256	0.4	12	16	0206	0.3	9	1	0213	0.2	6	16	0222	0.0	0
	0901	0.8	24	Su	0907	1.0	30	Tu	1023	1.0	30	W	1102	1.1	34
	1549	0.5	15		1620	0.5	15						1049	0.9	27
	2025	0.7	21	O	2007	0.7	21								
2 Su	0313	0.4	12	17	0232	0.3	9	2	0227	0.2	6	17	0303	0.0	0
	0946	0.9	27	M	1005	1.1	34	W	1104	1.0	30	Th	1158	1.1	34
	1652	0.5	15		1745	0.5	15						1126	0.9	27
	2039	0.6	18		2030	0.6	18								
3 M	0328	0.4	12	18	0304	0.2	6	3	0246	0.2	6	18	0349	0.0	0
	1031	0.9	27	Tu	1106	1.1	34	Th	1148	1.0	30	F	1254	1.1	34
	1800	0.5	15										1204	0.9	27
	2053	0.6	18												
4 Tu	0342	0.3	9	19	0341	0.2	6	4	0312	0.2	6	19	0441	0.1	3
	1119	0.9	27	W	1211	1.1	34	F	1234	1.0	30	Sa	1347	1.0	30
													1243	0.9	27
5 W	0359	0.3	9	20	0426	0.2	6	5	0345	0.2	6	20	0545	0.2	6
	1212	0.9	27	Th	1319	1.1	34	Sa	1322	1.0	30	Su	1435	0.9	27
													1245	0.2	6
6 Th	0424	0.3	9	21	0521	0.2	6	6	0427	0.2	6	21	0221	0.3	9
	1309	0.9	27	F	1425	1.1	34	Su	1411	1.0	30	M	0704	0.2	6
													1515	0.8	24
														2256	0.3	9
7 F	0501	0.3	9	22	0627	0.2	6	7	0527	0.3	9	22	0452	0.4	12
	1410	1.0	30	Sa	1525	1.0	30	M	1457	1.0	30	Tu	0836	0.3	9
													2329	0.3	9
8 Sa	0555	0.3	9	23	0743	0.3	9	8	0224	0.4	12	23	0555	0.5	15
	1508	1.0	30	Su	1617	1.0	30	Tu	0709	0.3	9	W	1014	0.4	12
													1540	1.0	30
													2332	0.4	12
9 Su	0703	0.3	9	24	0002	0.4	12	9	0436	0.5	15	24	0640	0.6	18
	1559	1.0	30	M	0356	0.5	15	W	0906	0.4	12	Th	1154	0.5	15
					0904	0.4	12		1620	0.9	27		1627	0.6	18
					1700	0.9	27		2344	0.4	12		2355	0.2	6
10 M	0820	0.4	12	25	0015	0.4	12	10	0546	0.6	18	25	0720	0.7	21
	1645	1.0	30	Tu	0524	0.6	18	Th	1056	0.5	15	Sa	1331	0.4	12
					1025	0.4	12		1656	0.8	24		1639	0.5	15
					1733	0.9	27								
11 Tu	0044	0.5	15	26	0033	0.4	12	11	0001	0.3	9	26	0016	0.1	3
	0341	0.6	18	W	0622	0.7	21	F	0641	0.8	24	Sa	0755	0.8	24
	0937	0.4	12		1146	0.5	15		1239	0.5	15				
	1726	1.0	30		1758	0.8	24		1730	0.7	21				
12 W	0052	0.5	15	27	0053	0.4	12	12	0021	0.2	6	27	0036	0.1	3
	0509	0.6	18	Th	0709	0.7	21	Sa	0732	0.9	27	Su	0830	0.8	24
	1055	0.4	12		1302	0.5	15		1415	0.5	15				
	1803	1.0	30		1816	0.7	21		1801	0.6	18				
13 Th	0107	0.5	15	28	0112	0.3	9	13	0044	0.2	6	28	0056	0.0	0
	0615	0.7	21	F	0751	0.8	24	Su	0823	1.0	30	M	0904	0.9	27
	1214	0.5	15		1415	0.5	15		1546	0.4	12				
	1838	0.9	27		1831	0.7	21		1826	0.5	15				
14 F	0124	0.5	15	29	0130	0.3	9	14	0112	0.1	3	29	0115	0.0	0
	0714	0.8	24	Sa	0830	0.9	27	M	0914	1.1	34	Tu	0938	0.9	27
	1336	0.5	15		1525	0.5	15								
	1910	0.9	27		1844	0.6	18								
15 Sa	0143	0.4	12	30	0146	0.3	9	15	0145	0.0	0	30	0134	0.0	0
	0811	0.9	27	Su	0907	0.9	27	Tu	1007	1.1	34	W	1013	0.9	27
	1458	0.5	15		1635	0.5	15								
	1940	0.8	24		1856	0.6	18								
					31	0200	0.2	6							
					M	0944	0.9	27							

Time meridian 60° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Lime Tree Bay, St. Croix Island, 2016

Times and Heights of High and Low Waters

January						February						March											
	Time	Height		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 2115	0239 1140 2115	0.2 0.5 0.2	6 15 6	16 Sa 1954	0056 1049 0.1	0.2 0.5 0.1	6 15 3	1 M 1944	0842 1941 -0.1	0.4 -0.2 -3	12 -3	16 Tu 1941	0744 1941 -0.2	0.5 -0.2 -6	15 -6	1 Tu 1817	0616 1817 -0.2	0.4 -0.2 -6	12 -6	16 W 1835	0620 1835 -0.2	0.5 -0.2 -6	
●																●							
2 Sa 2048	1108 2048	0.5 0.1	15 3	17 Su 2008	0949 2008	0.5 0.0	15 0	2 Tu 2027	0819 2027	0.4 -0.2	12 -6	17 W 2039	0810 2039	0.5 -0.2	15 -6	2 W 1908	0640 1908 -0.2	0.4 -0.2 -6	12 -6	17 Th 1939	0704 1939 -0.2	0.5 -0.2 -6	
●																●							
3 Su 2103	1020 2103	0.5 0.0	15 0	18 M 2041	0859 2041	0.5 -0.1	15 -3	3 W 2113	0824 2113	0.5 -0.2	15 -6	18 Th 2139	0840 2139	0.5 -0.2	15 -6	3 Th 2005	0711 2005 -0.2	0.5 -0.2 -6	12 -6	18 F 2049	0737 2049 -0.1	0.4 -0.1 -3	
4 M 2131	0930 -0.1	0.5	15 -3	19 Tu 2123	0851 2123	0.6 -0.2	18 -6	4 Th 2158	0843 2158	0.5 -0.3	15 -9	19 F 2235	0908 2235	0.5 -0.2	15 -6	4 F 2105	0743 2105 -0.2	0.5 -0.2 -6	12 -6	19 Sa 2202	0758 2202 0.0	0.4 0.0 12	
5 Tu 2203	0910 -0.1	0.6	18 -3	20 W 2209	0909 2209	0.6 -0.2	18 -6	5 F 2243	0908 2243	0.6 -0.3	18 -9	20 Sa 2327	0931 2327	0.5 -0.2	15 -6	5 Sa 2206	0814 2206 -0.2	0.5 -0.2 -6	12 -6	20 Su 2313	0804 2313 0.0	0.4 0.0 12	
6 W 2238	0917 -0.2	0.6	18 -6	21 Th 2255	0935 2255	0.6 -0.3	18 -9	6 Sa 2328	0935 2328	0.6 -0.3	18 -9	21 Su 2307	0945 2307	0.4 -0.1	12 -3	6 Su 2307	0843 2307 -0.1	0.5 -0.1 -3	9 6	21 M 1637	0757 1433 0.2	0.3 0.1 0.2	
7 Th 2313	0937 -0.2	0.7	21 -6	22 F 2339	1003 2339	0.6 -0.3	18 -9	7 Su 2302	1002 2302	0.6 -0.3	18 -9	22 M 0949	0015 0949	-0.1 0.4	-3 12	7 M 1900	0906 1900 0.3	0.5 -0.3 9	3 6	22 Tu 1330	0020 0743 1330	0.1 0.3 0.2	
8 F 2349	1002 -0.3	0.7	21 -9	23 Sa 1029	1029 1029	0.6	18	8 M 1026	0011 1026	-0.2 0.6	-6 18	23 Tu 0944	0100 0944	-0.1 0.4	-3 12	8 Tu 0919	0007 0919	-0.1 0.4	-3 12	23 W 1329	0125 0724 1329	0.1 0.3 0.1	
9 Sa	1030	0.7	21	24 Su 1049	0021 1049	-0.2 0.6	-6 18	9 Tu 1043	0054 1043	-0.2 0.5	-6 15	24 W 1530	0142 0933 1530	0.0 0.3 0.1	0 3 3	9 W 1909	0106 0913 1503	0.0 0.4 0.2	0 6 6	24 Th 1344	0231 0658 1344	0.1 0.2 0.0	
10 Su 1059	0024 0.7	-0.3	-9 21	25 M 1101	0100 1101	-0.2 0.5	-6 15	10 W 1047	0136 1047	-0.1 0.5	-3 15	25 Th 1531	0222 0917 1531	0.1 0.3 0.1	3 9 3	10 Th 1439	0207 0844 1439	0.1 0.3 0.2	3 9 6	25 F 2232	0351 0615 1407	0.1 0.2 0.0	
11 M 1126	0100 0.7	-0.2	-6 21	26 Tu 1105	0135 1105	-0.1 0.5	-3 15	11 Th 1033	0215 1033	0.0 0.4	0 12	26 F 1959	0259 0856 1959	0.1 0.3 0.2	3 9 6	11 F 2256	0313 0752 2256	0.2 0.3 0.4	6 9 12	26 Sa 2337	1434 2337 0.4	-0.1 0.4 12	
12 Tu 1148	0134 0.7	-0.2	-6 21	27 W 1100	0207 1100	-0.1 0.4	-3 12	12 F 1704	0246 1704	0.1 0.1	3 3	27 Sa 1617	0333 0826 1617	0.1 0.3 0.0	3 9 0	12 Sa 2109	1521 0844 2109	0.0 0.3 0.3	0 9 9	27 Su 2232	1505 0615 2232	-0.1 0.2 0.4	
13 W 1200	0207 0.6	-0.1	-3 18	28 Th 1048	0233 1048	0.0 0.4	0 12	13 Sa 1722	0250 0911	0.2 0.3	6 9	28 Su 1601	0106 0347 0739	0.3 0.2 0.3	9 6 9	13 Su 1651	0056 0347 1651	0.4 0.2 -0.1	12 9 -3	28 M 1539	0051 1539 -0.2	0.4 -0.2 -6	
14 Th 1157	0235 0.6	0.0	18	29 F 1814	0247 1029	0.1 0.4	3 12	14 Su 1759	0813 1759	0.4 -0.1	12 -3	29 M 1731	0628 1731	0.3 -0.1	9 -3	14 M 1647	0341 1647	0.4 -0.2	12 -6	29 Tu 1616	0215 1616	0.4 -0.2	12 -6
15 F 1133	0246 0.5	0.1	3 15	30 Sa 1833	0006 1001	0.2 0.3	6 9	15 M 1846	0737 1846	0.4 -0.1	12 -3	31 Su 1904	0924 1904	0.4 0.0	12 0	15 Tu 1738	0522 1738	0.5 -0.2	15 -6	30 W 1657	0337 1657	0.5 -0.2	15 -6
31 O	0442 Th	0.5	15																				

Time meridian 60° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Lime Tree Bay, St. Croix Island, 2016

Times and Heights of High and Low Waters

April						May						June					
	Time	Height		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
	0533	0.5	15		0521	0.4	12		0420	0.5	15		0200	0.4	12		1026
1 F	1838	-0.1	-3	16 Sa	1902	0.1	3	1 Su	1721	0.1	3	16 M	1119	0.1	3	1 W	2142
2 Sa	0614	0.5	15	17 Su	0518	0.4	12	2 M	0432	0.5	15	17 Tu	0101	0.4	12	2 Th	1052
3 Su	1945	0.0	0	18 M	2024	0.2	6	3 Tu	0416	0.4	12	18 W	1107	0.0	0	3 F	2137
4 M	2109	0.0	0	18 M	1225	0.2	9	3 Tu	1218	0.2	6	18 W	2130	0.5	15	17 F	2141
5 Tu	2248	0.1	3	19 Tu	0431	0.3	9	4 W	0254	0.4	12	19 Th	1126	-0.1	-3	4 Sa	2204
6 W	0709	0.5	15	19 Tu	1202	0.1	3	4 W	1147	0.1	3	19 Th	2142	0.6	18	19 Su	2238
7 Th	1352	0.2	6	20 W	0210	0.2	6	5 Th	1151	0.0	0	20 F	1151	-0.1	-3	5 Su	1225
8 ●	1825	0.3	9	20 W	0309	0.3	9	5 Th	2134	0.6	18	20 F	2207	0.6	18	5 Su	2318
9 W	0649	0.3	6	21 Th	1228	0.0	0	6 F	1214	-0.1	-3	21 Sa	1219	-0.2	-6	6 M	1303
10 ●	1302	0.2	6	21 Th	2135	0.5	15	6 F	2220	0.7	21	21 Sa	2237	0.6	18	21 Tu	1256
11 ●	2009	0.4	12	22 F	1252	-0.1	-3	7 Sa	1245	-0.2	-6	22 Su	1248	-0.2	-6	22 W	1325
12 ●	2126	0.5	15	22 F	2218	0.5	15	7 Sa	2309	0.7	21	7 Tu	1340	-0.3	-9	22 W	1325
13 F	1321	0.0	0	23 Sa	1319	-0.1	-3	8 Su	1322	-0.3	-9	23 M	1317	-0.2	-6	23 Th	0000
14 ●	2236	0.5	15	23 Sa	2301	0.5	15	8 Su	2346	0.7	21	8 W	1414	-0.2	-6	23 Th	1354
15 Sa	1353	-0.1	-3	24 Su	1348	-0.2	-6	9 M	0000	0.7	21	24 Tu	0023	0.8	24	24 F	1420
16 M	2347	0.6	18	24 Su	2348	0.5	15	9 M	1400	-0.3	-9	24 Tu	0052	0.7	21	24 F	1420
17 Su	1431	-0.2	-6	25 M	1418	-0.2	-6	10 Tu	0049	0.7	21	25 W	0022	0.7	21	25 Sa	0041
18 M	1512	-0.2	-6	25 M	1438	-0.3	-9	10 Tu	1438	-0.3	-9	25 F	1506	0.6	0	25 Sa	1438
19 M	0101	0.6	18	26 Tu	0037	0.6	18	11 W	0134	0.6	18	11 Sa	0104	0.6	18	26 Su	0047
20 Tu	1515	-0.2	-6	26 Tu	1449	-0.2	-6	11 W	1515	-0.2	-6	11 Sa	1509	0.1	3	26 Su	1434
21 Tu	0217	0.6	18	27 W	0129	0.6	18	12 Th	0211	0.6	18	12 Su	0051	0.5	15	27 M	0036
22 W	1555	-0.2	-6	27 W	1521	-0.2	-6	12 Th	1547	-0.1	-3	12 Su	1358	0.2	6	27 M	1215
23 W	0329	0.5	15	28 Th	0221	0.6	18	13 F	0234	0.5	15	13 Sa	0158	0.7	21	28 Tu	0001
24 ●	1639	-0.2	-6	28 Th	1555	-0.2	-6	13 F	1612	0.0	0	13 Sa	1528	0.0	0	28 Tu	0950
25 ●	0427	0.5	15	29 F	0309	0.6	18	14 Sa	0239	0.5	15	29 Tu	0214	0.6	18	29 W	2145
26 Th	1724	-0.1	-3	29 F	1629	-0.1	-3	14 Sa	1615	0.1	15	29 Tu	0954	0.1	3	29 W	0932
27 F	0504	0.5	15	30 Sa	0350	0.6	18	15 Su	0228	0.4	12	15 W	1004	0.0	0	30 Th	0947
28 F	1810	0.0	0	30 Sa	1702	0.0	0	15 Su	1400	0.2	6	15 W	2154	0.6	18	30 Th	2126
29 ●								31 Tu	0137	0.5	15						
30 ●								31 Tu	1109	0.2	6						
31 ●								31 Tu	2355	0.5	15						

Time meridian 60° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
 Heights are referred to mean lower low water which is the chart datum of soundings.

Lime Tree Bay, St. Croix Island, 2016

Times and Heights of High and Low Waters

July						August						September								
	Time	Height		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			
1 F	1016 2141	-0.1 0.8	-3 24	16 Sa	1022 2139	-0.1 0.8	-3 24	1 M	1121 2226	-0.1 0.8	-3 24	16 Tu	1110 2146	0.0 0.9	0 27	1 Th	1245 2130	0.3 0.7	9 21	16 F
2 Sa	1053 2210	-0.2 0.8	-6 24	17 Su	1058 2200	-0.1 0.8	-3 24	2 Tu	1204 2246	0.0 0.8	0 24	17 W	1152 2205	0.1 0.9	3 27	2 F	1330 2113	0.4 0.7	12 21	17 Sa
3 Su	1133 2241	-0.2 0.8	-6 24	18 M	1133 2222	-0.1 0.8	-3 24	3 W	1244 2257	0.0 0.8	0 24	18 Th	1234 2219	0.2 0.8	6 24	3 Sa	0256 0728 1412 2053	0.5 0.6 0.4 0.6	15 18 12 18	18 Su
4 M	1213 2312	-0.2 0.8	-6 24	19 Tu	1207 2246	-0.1 0.8	-3 24	4 Th	1321 2256	0.1 0.7	3 21	19 F	1314 2222	0.2 0.8	6 24	4 Su	0301 0908 1453 2028	0.5 0.6 0.5 0.6	15 18 15 18	19 M
●				○																
5 Tu	1251 2337	-0.2 0.8	-6 24	20 W	1241 2307	-0.1 0.8	-3 24	5 F	1353 2247	0.2 0.7	6 21	20 Sa	1352 2210	0.3 0.7	9 21	5 M	0322 1044 1530 1956	0.4 0.6 0.5 0.6	12 18 15 18	20 Tu
6 W	1327 2354	-0.1 0.7	-3 21	21 Th	1313 2325	0.0 0.8	0 24	6 Sa	1420 2230	0.3 0.6	9 18	21 Su	0519 0752 1425 2142	0.5 0.6 0.4 0.7	15 18 12 21	6 Tu	0352 1243 1554 1908	0.3 0.6 0.5 0.6	9 18 15 18	21 W
7 Th	1358	-0.1	-3	22 F	1344 2335	0.1 0.8	3 24	7 Su	0558 0826 1436 2209	0.3 0.4 0.3 0.6	9 12 9 18	22 M	0448 1102 1432 2057	0.5 0.6 0.5 0.7	15 18 15 21	7 W	0428 1802	0.3 0.7	9 21	22 Th
8 F	0001 1424 2356	0.7 0.0 0.6	21 0 18	23 Sa	1409 2333	0.2 0.7	6 21	8 M	0546 1155 1402 2142	0.3 0.4 0.3 0.6	9 12 9 18	23 Tu	0503 2001	0.4 0.7	12 21	8 Th	0510 1802	0.2 0.7	6 21	23 F
9 Sa	1438 2342	0.1 0.6	3 18	24 Su	1420 2315	0.3 0.7	9 21	9 Tu	0608 2109	0.3 0.6	9 18	24 W	0537 1922	0.3 0.8	9 24	9 F	0557 1829	0.2 0.8	6 24	24 Sa
10 Su	1420 2320	0.2 0.6	6 18	25 M	1243 2239	0.4 0.6	12 18	10 W	0641 2035	0.2 0.7	6 21	25 Th	0622 1927	0.2 0.8	6 24	10 Sa	0649 1859	0.2 0.8	6 24	25 Su
●				○																
11 M	0843 2250	0.3 0.6	9 18	26 Tu	0740 2147	0.3 0.7	9 21	11 Th	0723 2019	0.1 0.7	3 21	26 F	0716 1954	0.1 0.9	3 27	11 Su	0746 1928	0.2 0.9	6 27	26 M
○				○																
12 Tu	0825 2213	0.2 0.6	6 18	27 W	0749 2059	0.2 0.7	6 21	12 F	0809 2023	0.1 0.7	3 21	27 Sa	0815 2027	0.1 0.9	3 27	12 M	0845 1955	0.2 0.9	6 27	27 Tu
13 W	0842 2135	0.1 0.6	3 18	28 Th	0820 2047	0.1 0.8	3 24	13 Sa	0856 2040	0.1 0.8	3 24	28 Su	0915 2058	0.1 0.9	3 27	13 Tu	0945 2020	0.2 0.9	6 27	28 W
14 Th	0911 2118	0.0 0.7	0 21	29 F	0901 2103	0.0 0.8	0 24	14 Su	0942 2101	0.0 0.8	0 24	29 M	1014 2123	0.1 0.8	3 24	14 W	1045 2038	0.3 0.9	9 27	29 Th
15 F	0946 2123	-0.1 0.7	-3 21	30 Sa	0947 2129	-0.1 0.9	-3 27	15 M	1027 2124	0.0 0.9	0 27	30 Tu	1108 2138	0.2 0.8	6 24	15 Th	1144 2048	0.4 0.8	12 24	30 F
				31 Su	1035 2159	-0.1 0.9	-3 27					31 W	1159 2140	0.2 0.8	6 24					

Time meridian 60° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Lime Tree Bay, St. Croix Island, 2016

Times and Heights of High and Low Waters

October						November						December											
	Time	Height		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	0102 0810 1428 1820	0.5 0.7 0.5 0.6	15 21 15 18	16 Su	0045 0915	0.4 0.8	12 24	1 Tu	0102 1046	0.2 0.8	6 24	16 W	0106 1145	0.0 1.0	0 30	1 Th	0106 1128	-0.1 -0.8	-3 24	16 F	0130 1218	-0.2 -0.8	-6 24
2 Su	0119 0916	0.4 0.8	12 24	17 M	0104 1022	0.3 0.9	9 27	2 W	0132 1131	0.1 0.9	3 27	17 Th	0145 1237	0.0 0.9	0 27	2 F	0136 1202	-0.1 -0.8	-3 24	17 Sa	0207 1244	-0.1 -0.7	-3 21
3 M	0144 1018	0.4 0.8	12 24	18 Tu	0134 1132	0.2 0.9	6 27	3 Th	0203 1219	0.1 0.9	3 27	18 F	0225 1325	0.0 0.9	0 27	3 Sa	0205 1235	0.0 0.8	0 24	18 Su	0240 1255	0.0 0.7	0 21
4 Tu	0213 1121	0.3 0.8	9 24	19 W	0212 1245	0.2 0.9	6 27	4 F	0235 1309	0.1 0.9	3 27	19 Sa	0304 1404	0.0 0.8	0 24	4 Su	0233 1305	0.0 0.8	0 24	19 M	0306 1250	0.1 0.6	3 18
5 W	0245 1232	0.3 0.8	9 24	20 Th	0253 1403	0.1 0.9	3 27	5 Sa	0307 1358	0.1 0.9	3 27	20 Su	0339 1427	0.1 0.8	3 24	5 M	0258 1330	0.1 0.8	3 24	20 Tu	0317 1230	0.2 0.6	6 18
6 Th	0320 1353	0.2 0.8	6 24	21 F	0337 1516	0.1 0.9	3 27	6 Su	0339 1443	0.2 0.9	6 27	21 M	0406 1429	0.2 0.7	6 21	6 Tu	0316 1346	0.2 0.7	6 21	21 W	0236 1159 2134	0.3 0.5 0.2	9 15 6
7 F	0358 1515	0.2 0.8	6 24	22 Sa	0422 1615	0.2 0.9	6 27	7 M	0410 1520	0.2 0.9	6 27	22 Tu	0417 1411	0.3 0.7	9 21	7 W	0309 1344	0.3 0.7	9 21	22 Th	1114 2116	0.5 0.1	15 3
8 Sa	0439 1620	0.2 0.9	6 27	23 Su	0507 1654	0.2 0.8	6 24	8 Tu	0437 1548	0.3 0.8	9 24	23 W	0242 1335 2255	0.4 0.6 0.4	12 18 12	8 Th	0057 1313 2251	0.3 0.6 0.3	9 18 9	23 F	1013 2133	0.5 0.1	15 3
9 Su	0523 1709	0.3 0.9	9 27	24 M	0554 1709	0.3 0.8	9 24	9 W	0447 1559	0.4 0.8	12 24	24 Th	1227 2234	0.6 0.3	18 9	9 F	1138 2224	0.6 0.2	18 6	24 Sa	0925 2201	0.6 0.0	18 0
10 M	0614 1747	0.3 0.9	9 27	25 Tu	0644 1701	0.4 0.7	12 21	10 Th	0201 1544	0.5 0.7	15 21	25 F	0947 2245	0.6 0.2	18 6	10 Sa	0926 2232	0.7 0.1	21 3	25 Su	0918 2233	0.6 -0.1	18 -3
11 Tu	0714 1815	0.4 0.9	12 27	26 W	0758 1636	0.5 0.7	15 21	11 F	0003 1423 2332	0.5 0.7 0.4	15 21 12	26 Sa	0911 2307	0.7 0.1	21 3	11 Su	0918 2257	0.8 0.0	24 0	26 M	0932 2308	0.7 -0.2	21 -6
12 W	0834 1834	0.4 0.8	12 24	27 Th	0002 0652 1045 1556 2339	0.5 0.6 0.5 0.6 0.5	15 18 15 18 15	12 Sa	0847 2336	0.8 0.3	24 9	27 Su	0925 2334	0.7 0.0	21 0	12 M	0944 2331	0.8 -0.1	24 -3	27 Tu	0954 2342	0.7 -0.2	21 -6
13 Th	1016 1836	0.5 0.8	15 24	28 F	0755 2348	0.7 0.4	21 12	13 Su	0920 2357	0.8 0.2	24 6	28 M	0950	0.8	24	13 Tu	1021	0.9	27	28 W	1020	0.7	21
14 F	0129 0630 1208 1814	0.6 0.7 0.6 0.7	18 21 18 21	29 Sa	0840	0.8	24	14 M	1005	0.9	27	29 Tu	0004 1021	0.0 0.8	0	14 W	0010 1102	-0.2 -0.9	-6 27	29 Th	0015 1046	-0.2 -0.7	-6 21
15 Sa	0046 0803 1420 1707	0.5 0.8 0.6 0.7	15 24 18 21	30 Su	0008 0921	0.3 0.8	9 24	15 Tu	0029 1054	0.1 1.0	3 30	30 W	0035 1054	0.0 0.8	0	15 Th	0050 1142	-0.2 -0.8	-6 24	30 F	0047 1111	-0.2 -0.7	-6 21
				31 M	0033 1003	0.2 0.8	6 24									31 Sa	0117 1135	-0.2 -0.7	-6 21				

Time meridian 60° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to mean lower low water which is the chart datum of soundings.

Isla Zapara (Malecon), Venezuela, 2016

Times and Heights of High and Low Waters

January				February				March			
Time	Height	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 F 0435	1.5	46	16 0337	1.0	30	1 M 0512	1.8	55	16 Tu 0536	1.1	34
1057	4.1	125	Sa 1010	4.5	137	1127	3.9	119	1045	3.5	107
1721	1.7	52	1627	1.0	30	1750	1.3	40	1657	1.1	34
2255	3.9	119	● 2233	4.2	128	2352	3.6	110	● 2320	3.6	110
2 Sa 0516	1.6	49	17 0437	1.1	34	2 0544	1.7	52	2 W 0509	1.7	52
1134	4.1	125	Su 1105	4.6	140	1204	4.0	122	1124	3.7	113
1802	1.6	49	1727	0.7	21	Tu 1823	1.1	34	1734	0.9	27
● 2341	3.8	116	2337	4.2	128	1909	0.2	6	17 Th 0632	1.0	30
3 Su 0551	1.7	52	18 0536	1.1	34	3 W 0034	3.7	113	17 1232	4.3	131
1208	4.2	128	M 1158	4.7	143	0617	1.7	52	18 1324	0.2	6
1838	1.5	46	1825	0.5	15	1240	4.1	125	1944	0.4	12
4 M 0025	3.8	116	● 19 0039	4.2	128	1858	0.9	27	18 0119	4.2	128
0623	1.8	55	Tu 0635	1.2	37	4 Th 0116	3.8	116	F 0727	0.9	27
1243	4.2	128	1251	4.7	143	0653	1.6	49	1324	4.3	131
1911	1.3	40	1922	0.3	9	1318	4.2	128	19 0208	4.1	125
5 Tu 0108	3.8	116	● 20 0138	4.2	128	1935	0.8	24	M 0818	0.9	27
0654	1.8	55	W 0733	1.3	40	4 F 0226	4.1	125	Sa 1414	4.2	128
1318	4.3	131	1344	4.8	146	0827	1.2	37	2034	0.6	18
1944	1.2	37	2017	0.3	9	1427	4.5	137	19 0252	4.0	122
6 W 0151	3.8	116	● 21 0236	4.2	128	2056	0.4	12	Su 0907	1.0	30
0727	1.8	55	Th 0830	1.4	43	6 Sa 0157	3.8	116	20 1502	4.1	125
1354	4.3	131	1435	4.7	143	0733	1.5	46	2122	0.9	27
2018	1.0	30	2111	0.3	9	1357	4.3	131	5 Tu 0119	3.9	119
7 Th 0234	3.8	116	● 22 0332	4.1	125	2015	0.6	18	20 0252	4.0	122
0804	1.8	55	F 0927	1.5	46	0239	3.9	119	21 0333	3.9	119
1431	4.4	134	1527	4.6	140	0817	1.5	46	M 0953	1.1	34
2055	0.9	27	2204	0.4	12	1438	4.5	137	1548	3.9	119
8 F 0318	3.9	119	● 23 0428	4.0	122	2058	0.5	15	2208	1.1	34
0845	1.8	55	Sa 1023	1.6	49	6 Su 0405	3.9	119	21 0333	3.9	119
1511	4.5	137	1618	4.5	137	1011	1.3	40	M 0953	1.1	34
2136	0.8	24	○ 2257	0.6	18	1604	4.2	128	1548	3.9	119
9 Sa 0403	3.9	119	● 24 0523	3.9	119	2236	0.8	24	2208	1.1	34
0930	1.8	55	Su 1120	1.7	52	7 Su 0323	4.0	122	22 0412	3.7	113
1553	4.5	137	1710	4.4	134	0904	1.4	43	Tu 1039	1.1	34
● 2219	0.7	21	2351	0.8	24	1523	4.5	137	1633	3.8	116
10 Su 0450	3.9	119	● 25 0617	3.9	119	2144	0.5	15	● 2253	1.4	43
1020	1.8	55	M 1218	1.8	55	● 2233	0.5	15	8 Tu 0243	4.1	125
1638	4.5	137	1802	4.2	128	2325	1.1	34	22 0412	3.7	113
2306	0.7	21	1855	4.0	122	2358	0.5	15	Tu 1039	1.1	34
11 M 0539	4.0	122	● 26 0043	1.0	30	10 Th 0457	4.1	125	23 1122	1.2	37
1114	1.8	55	Tu 0710	3.8	116	9 Tu 0014	1.3	40	W 1719	3.7	113
1727	4.5	137	1316	1.8	55	1051	1.2	37	● 2338	1.6	49
2355	0.7	21	1855	4.0	122	1705	4.5	137	8 Tu 0329	4.2	128
12 Tu 0630	4.0	122	● 27 0136	1.2	37	2325	0.6	18	23 0451	3.6	110
1213	1.8	55	W 0800	3.7	113	9 Tu 0457	4.1	125	M 1205	1.2	37
1821	4.4	134	1412	1.8	55	1051	1.2	37	Th 1806	3.6	110
1948	3.9	119	1948	3.9	119	1705	4.5	137	● 2202	0.5	15
13 W 0047	0.7	21	● 28 0227	1.4	43	1547	1.4	43	8 Tu 0936	0.8	24
0723	4.1	125	Th 0848	3.7	113	1232	1.6	49	1551	4.5	137
1315	1.7	52	1506	1.8	55	2325	0.6	18	● 2202	0.5	15
1920	4.4	134	2041	3.7	113	1705	4.5	137	8 Tu 1551	4.5	137
14 Th 0141	0.8	24	● 29 0315	1.6	49	2325	0.7	21	23 0451	3.6	110
0819	4.2	128	F 0931	3.7	113	1051	4.4	134	M 1205	1.2	37
1420	1.5	46	1554	1.7	52	1613	0.5	15	Th 1806	3.6	110
2023	4.3	131	2132	3.7	113	2231	4.2	128	● 2202	0.5	15
15 F 0239	0.9	27	● 30 0359	1.7	52	1051	4.4	134	8 Tu 0418	4.2	128
0914	4.3	131	Sa 1012	3.7	113	1714	0.3	9	24 0531	3.5	107
1524	1.3	40	1637	1.6	49	2335	4.2	128	M 1247	1.3	40
2128	4.3	131	2221	3.6	110	1051	4.4	134	25 0023	1.8	55
16 ● 31 0438	1.7	52	Su 1050	3.8	116	1621	1.3	40	F 0613	3.3	101
1715	1.5	46	1715	1.5	46	2237	3.5	107	25 1247	1.3	40
● 2307	3.6	110	● 31 2307	3.6	110	1226	4.2	128	25 1856	3.5	107

Time meridian 67° 30' W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to the chart datum of soundings.

Isla Zapara (Malecon), Venezuela, 2016

Times and Heights of High and Low Waters

April				May				June			
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height
h m	ft	cm		h m	ft	cm		h m	ft	cm	
1 F 0519	1.6	49	16 Sa 0057	4.3	131	1 Su 0542	1.3	40	16 W 0107	4.4	134
1126	3.7	113	0715	0.9	27	1141	3.9	119	0742	0.9	27
1730	0.7	21	1307	4.0	122	1740	0.7	21	1332	3.8	116
			1919	0.7	21			1932	1.4	43	
2 Sa 0005	3.9	119	17 Su 0140	4.2	128	2 M 0012	4.4	134	2 Th 0119	4.9	149
0601	1.3	40	0803	0.9	27	0630	0.9	27	0824	0.9	27
1210	3.9	119	1356	4.0	122	1233	4.0	122	1418	3.7	113
1814	0.6	18	2006	1.0	30	1829	0.7	21	2012	1.7	52
3 Su 0044	4.1	125	18 M 0219	4.1	125	3 Tu 0054	4.6	140	18 W 0215	4.2	128
0646	1.1	34	0848	0.9	27	0720	0.6	18	0902	0.8	24
1256	4.1	125	1442	3.9	119	1328	4.2	128	1501	3.7	113
1900	0.5	15	2051	1.3	40	1921	0.8	24	2049	1.9	58
4 M 0124	4.2	128	19 Tu 0255	4.0	122	4 W 0139	4.7	143	19 Th 0248	4.1	125
0734	0.8	24	0931	0.9	27	0812	0.3	9	0938	0.8	24
1345	4.3	131	1527	3.7	113	1425	4.3	131	1545	3.6	110
1949	0.5	15	2132	1.5	46	2015	0.9	27	2125	2.0	61
5 Tu 0207	4.4	134	20 W 0329	3.8	116	5 Th 0228	4.7	143	20 F 0323	4.0	122
0825	0.5	15	1011	0.9	27	0907	0.0	0	1012	0.8	24
1438	4.4	134	1611	3.7	113	1525	4.3	131	1630	3.6	110
2040	0.6	18	2213	1.8	55	2113	1.1	34	2202	2.2	67
6 W 0254	4.4	134	21 Th 0405	3.7	113	6 F 0320	4.7	143	21 M 0400	4.6	140
0920	0.3	9	1049	1.0	30	1004	-0.2	-6	1012	0.8	24
1535	4.4	134	1656	3.6	110	1628	4.3	131	1716	3.6	110
2135	0.7	21	2253	1.9	58	● 2216	1.3	40	○ 2242	2.3	70
7 Th 0345	4.4	134	22 F 0442	3.6	110	7 Sa 0417	4.6	140	22 W 0439	3.8	116
1017	0.1	3	1126	1.0	30	1103	-0.2	-6	1120	0.8	24
1636	4.4	134	1743	3.5	107	1734	4.3	131	1804	3.6	110
● 2234	0.9	27	○ 2335	2.1	64	2324	1.4	43	2327	2.4	73
8 F 0441	4.4	134	23 Sa 0522	3.5	107	8 Su 0519	4.5	137	23 M 0520	3.7	113
1118	0.0	0	1202	1.0	30	1205	-0.3	-9	1157	0.8	24
1741	4.3	131	1832	3.5	107	1842	4.3	131	1852	3.7	113
2339	1.1	34									
9 Sa 0543	4.3	131	24 Su 0020	2.2	67	9 M 0036	1.5	46	24 Tu 0017	2.4	73
1221	-0.1	-3	0605	3.4	104	0626	4.3	131	0605	3.6	110
1850	4.3	131	1239	1.0	30	1308	-0.2	-6	1236	0.8	24
			1921	3.5	107	1951	4.4	134	1940	3.8	116
10 Su 0049	1.2	37	25 M 0109	2.2	67	10 Tu 0151	1.5	46	25 W 0110	2.4	73
0649	4.2	128	0652	3.3	101	0735	4.2	128	0652	3.5	107
1326	-0.1	-3	1318	1.0	30	1411	-0.1	-3	1318	0.8	24
2001	4.3	131	2010	3.6	110	2058	4.4	134	2026	3.9	119
11 M 0202	1.3	40	26 Tu 0158	2.2	67	11 ○ 0303	1.5	46	26 Th 0203	2.3	70
0759	4.1	125	0739	3.3	101	0844	4.1	125	0742	3.5	107
1431	-0.1	-3	1358	0.9	27	1512	0.1	3	1401	0.8	24
2110	4.3	131	2057	3.6	110	2200	4.5	137	2108	4.0	122
12 Tu 0315	1.2	37	27 W 0244	2.2	67	12 Th 0410	1.3	40	27 F 0255	2.2	67
0908	4.1	125	0827	3.3	101	0950	4.0	122	0835	3.6	110
1535	0.0	0	1440	0.9	27	1612	0.3	9	1447	0.8	24
2216	4.4	134	2140	3.7	113	2255	4.5	137	2148	4.1	125
13 W 0423	1.1	34	28 Th 0328	2.0	61	13 F 0511	1.2	37	28 Sa 0346	1.9	58
1015	4.1	125	0915	3.4	104	1053	4.0	122	0929	3.7	113
1636	0.1	3	1523	0.8	24	1708	0.6	18	1534	0.8	24
● 2315	4.4	134	2219	3.9	119	○ 2345	4.5	137	2227	4.3	131
14 Th 0526	1.0	30	29 F 0411	1.9	58	14 Sa 0606	1.1	34	29 W 0436	1.6	49
1117	4.1	125	1003	3.5	107	1150	3.9	119	1025	3.8	116
1734	0.2	6	1607	0.8	24	1800	0.8	24	1623	0.9	27
			○ 2256	4.0	122				○ 2306	4.5	137
15 F 0009	4.4	134	30 Sa 0456	1.6	49	15 Su 0028	4.5	137	15 M 0526	1.2	37
0622	0.9	27	1052	3.7	113	0656	1.0	30	1121	3.9	119
1214	4.1	125	1653	0.7	21	1243	3.9	119	1347	3.6	110
1828	0.4	12	2334	4.2	128	1848	1.1	34	2348	4.7	143
16 W 0622	4.4	134							31 Tu 0617	0.8	24
1214	4.1	125							1219	4.0	122
1828	0.4	12							1806	1.0	30

Time meridian 67° 30' W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to the chart datum of soundings.

Isla Zapara (Malecon), Venezuela, 2016

Times and Heights of High and Low Waters

July				August				September			
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height
h m	ft	cm		h m	ft	cm		h m	ft	cm	
1 F 0107	5.0	152		16 Sa 0135	4.4	134		1 M 0245	4.9	149	
0754	0.1	3		0818	0.8	24		0930	0.1	3	
1414	4.1	125	Sa	1437	3.7	113	M	1605	4.3	131	Tu
1950	1.6	49		1954	2.2	67		2149	1.8	55	
2 Sa 0159	5.0	152		17 Su 0211	4.4	134		2 0338	4.8	146	
0848	-0.1	-3		0850	0.7	21		1023	0.2	6	
1515	4.2	128	Su	1520	3.8	116	Tu	1701	4.3	131	
2051	1.7	52		2033	2.2	67		● 2251	1.9	58	
3 Su 0252	5.0	152		18 M 0249	4.4	134		3 W 0431	4.6	140	
0942	-0.1	-3		0924	0.6	18		1115	0.5	18	
1615	4.3	131	M	1603	3.9	119		1756	4.3	131	
2155	1.8	55		2117	2.2	67		2353	1.9	58	
4 M 0348	4.8	146		19 Tu 0328	4.4	134		4 Th 0527	4.3	131	
1037	-0.1	-3		1002	0.6	18		1207	0.8	24	
1717	4.3	131	Tu	1647	4.0	122		1850	4.3	131	
● 2301	1.9	58	O	2205	2.2	67					
5 Tu 0445	4.6	140		20 W 0410	4.4	134		5 F 0056	1.9	58	
1133	0.1	3		1042	0.6	18		0624	4.1	125	
1818	4.3	131		1732	4.1	125		1300	1.0	30	
				2257	2.2	67		1942	4.2	128	
6 W 0009	1.9	58		21 Th 0456	4.3	131		6 Sa 0158	1.9	58	
0545	4.4	134		1126	0.6	18		0722	3.8	116	
1229	0.3	9		1818	4.2	128		1353	1.3	40	
1918	4.4	134		2354	2.1	64		2031	4.2	128	
7 Th 0118	1.9	58		22 F 0547	4.2	128		7 Su 0257	1.8	55	
0646	4.2	128		1212	0.7	21		0822	3.7	113	
1325	0.6	18	F	1906	4.3	131		1444	1.6	49	
2016	4.4	134						2116	4.2	128	
8 F 0225	1.9	58		23 Sa 0055	2.0	61		8 M 0352	1.7	52	
0749	4.0	122		0644	4.1	125		0920	3.6	110	
1421	0.9	27	Sa	1302	0.8	24		1533	1.8	55	
2109	4.4	134		1954	4.4	134		2157	4.2	128	
9 Sa 0328	1.7	52		24 Su 0158	1.8	55		9 Tu 0440	1.5	46	
0852	3.8	116		0746	4.0	122		1016	3.5	107	
1515	1.2	37	Su	1355	1.0	30		1617	1.9	58	
2157	4.4	134		2044	4.5	137		2235	4.2	128	
10 Su 0425	1.6	49		25 M 0301	1.5	46		10 W 0522	1.4	43	
0953	3.7	113		0852	3.9	119		1106	3.5	107	
1606	1.4	43	M	1451	1.1	34		1657	2.0	61	
2239	4.4	134		2135	4.7	143		● 2312	4.3	131	
11 M 0516	1.4	43		26 Tu 0402	1.1	34		11 Th 0558	1.3	40	
1049	3.6	110		1000	3.9	119		1153	3.5	107	
1653	1.6	49	Tu	1549	1.3	40		1731	2.1	64	
● 2316	4.4	134		● 2226	4.8	146		2348	4.3	131	
12 Tu 0601	1.3	40		27 W 0500	0.8	24		12 F 0630	1.1	34	
1141	3.6	110		1107	4.0	122		1236	3.6	110	
1735	1.8	55	W	1649	1.4	43		1805	2.1	64	
2352	4.4	134		2317	4.9	149					
13 W 0641	1.2	37		28 Th 0557	0.5	15		13 Sa 0023	4.4	134	
1228	3.6	110		1211	4.0	122		0701	0.9	27	
1812	2.0	61	Th	1749	1.5	46		1317	3.7	113	
								1840	2.1	64	
14 Th 0026	4.4	134		29 F 0009	5.0	152		14 M 0100	4.5	137	
0716	1.0	30		0651	0.2	6		0733	0.8	24	
1312	3.6	110	F	1312	4.1	125		1358	3.8	116	
1845	2.1	64		1850	1.6	49		1918	2.0	61	
15 F 0100	4.4	134		30 Sa 0101	5.0	152		15 M 0137	4.5	137	
0747	0.9	27		0745	0.1	3		0807	0.7	21	
1355	3.7	113	Sa	1411	4.2	128		1438	3.9	119	
1918	2.1	64		1949	1.7	52		2000	2.0	61	
				31 Su 0153	5.0	152		31 W 0328	4.6	140	
				0838	0.0	0		1005	0.6	18	
				1509	4.2	128		1637	4.2	128	
				2049	1.7	52		2238	1.8	55	

Time meridian 67° 30' W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to the chart datum of soundings.

Isla Zapara (Malecon), Venezuela, 2016

Times and Heights of High and Low Waters

October				November				December			
Time	Height	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 0452	4.0	122	16 Su 0357	4.6	140	1 Tu 0006	1.5	46	16 W 0556	4.5	137
1115	1.7	52	0959	1.0	30	0609	3.7	113	1 Th 1155	2.5	76
1729	4.1	125	1618	4.9	149	1203	2.3	70	1806	3.9	119
			2248	0.7	21	1755	4.9	149			
2 Su 0000	1.7	52	17 M 0500	4.5	137	2 W 0047	1.5	46	2 F 0036	1.3	40
0542	3.8	116	1057	1.2	37	0700	3.6	110	17 Sa 0707	4.4	134
1201	1.9	58	1715	4.9	149	1246	2.4	73	1259	1.7	52
1810	4.0	122	2350	0.5	15	1849	3.9	119	1901	4.9	149
3 M 0049	1.7	52	18 Tu 0607	4.4	134	3 Th 0126	1.5	46	18 F 0141	0.3	9
0634	3.6	110	1202	1.4	43	0751	3.6	110	0817	4.5	137
1247	2.1	64	1817	4.8	146	1330	2.5	76	1411	1.7	52
1854	3.9	119				1934	3.9	119	2009	4.8	146
4 Tu 0135	1.7	52	19 W 0055	0.4	12	4 F 0205	1.4	43	19 Sa 0245	0.3	9
0727	3.6	110	0718	4.4	134	0841	3.7	113	0924	4.5	137
1333	2.2	67	1311	1.5	46	1414	2.5	76	1521	1.7	52
1938	3.8	116	1923	4.8	146	2019	3.9	119	2115	4.7	143
5 W 0220	1.6	49	20 Th 0201	0.3	9	5 Sa 0243	1.4	43	20 Su 0347	0.5	15
0821	3.5	107	0830	4.4	134	0927	3.8	116	21 M 0239	1.2	37
1418	2.3	70	1423	1.6	49	1458	2.5	76	0932	4.0	122
2022	3.8	116	2030	4.8	146	2103	4.0	122	1627	1.6	49
6 Th 0300	1.5	46	21 F 0306	0.3	9	6 Su 0322	1.3	40	22 O 0446	0.6	18
0913	3.6	110	0940	4.4	134	1009	3.9	119	21 M 0322	1.2	37
1501	2.4	73	1534	1.6	49	1542	2.4	73	1123	4.7	143
2105	3.9	119	2136	4.8	146	2146	4.1	125	1728	1.5	46
7 F 0337	1.4	43	22 O 0408	0.3	9	7 M 0401	1.2	37	22 W 0446	0.8	24
1000	3.6	110	1045	4.5	137	1048	4.0	122	1214	4.7	143
1539	2.3	70	1641	1.5	46	1626	2.2	67	1824	1.4	43
2147	4.0	122	2238	4.8	146	2230	4.2	128			
8 Sa 0412	1.3	40	23 Su 0508	0.4	12	8 Tu 0442	1.1	34	23 W 0014	4.5	137
1044	3.7	113	1144	4.6	140	1124	4.2	128	0633	1.1	34
1617	2.3	70	1742	1.5	46	1712	1.9	58	1259	4.6	140
2228	4.1	125	2337	4.8	146	2316	4.3	131	1916	1.3	40
9 Su 0448	1.2	37	24 M 0604	0.5	15	9 W 0525	1.0	30	24 Th 0105	4.3	131
1124	3.9	119	1238	4.6	140	1201	4.4	134	0721	1.3	40
1656	2.2	67	1840	1.4	43	1800	1.6	49	1339	4.6	140
2308	4.2	128							2004	1.3	40
10 M 0524	1.0	30	25 Tu 0032	4.7	143	10 Th 0004	4.4	134	25 F 0543	1.1	34
1201	4.0	122	0657	0.7	21	0610	1.0	30	1212	4.7	143
1737	2.0	61	1327	4.6	140	1240	4.6	140	1834	1.0	30
2348	4.4	134	1934	1.4	43	1849	1.3	40			
11 Tu 0603	0.9	27	26 W 0124	4.6	140	11 O 0055	4.5	137	10 Sa 0335	4.4	134
1238	4.2	128	0746	1.0	30	0657	1.0	30	0635	1.2	37
1821	1.8	55	1411	4.5	137	1322	4.8	146	1258	4.9	149
			2024	1.4	43	1941	1.0	30	1416	4.5	137
12 W 0031	4.5	137	27 Th 0214	4.4	134	2048	1.3	40	2048	4.2	128
0644	0.8	24	0833	1.2	37	0747	1.0	30	1928	0.7	21
1315	4.4	134	1452	4.4	134	1408	4.9	149			
1908	1.5	46	2112	1.4	43	2036	0.7	21	2208	1.3	40
13 Th 0117	4.6	140	28 F 0301	4.2	128	1448	4.6	140	2119	0.2	6
0728	0.8	24	0918	1.5	46	0747	1.0	30			
1355	4.6	140	1530	4.3	131	1408	4.9	149	0925	2.0	61
1958	1.3	40	2158	1.4	43	1458	5.0	152	1527	4.3	131
14 F 0206	4.7	143	29 Sa 0347	4.0	122	2133	0.5	15	1440	5.1	155
0815	0.8	24	1000	1.8	55				2119	0.2	6
1439	4.7	143	1607	4.2	128	0345	4.6	140			
2052	1.0	30	2242	1.5	46	0938	1.3	40	0235	4.4	134
15 Sa 0259	4.7	143	2325	1.5	46	1553	5.0	152	0825	1.3	40
0905	0.9	27				O 2232	0.3	9	1536	5.1	155
1526	4.8	146	31 M 0520	3.7	113				2218	0.1	3
O 2148	0.8	24	1122	2.2	67	0538	3.7	113			
			1724	4.0	122	1041	1.4	43	0406	3.8	116
16 Su 0432	3.9	119				1652	5.0	152	0925	1.4	43
1041	2.0	61	2333	0.2	6	1114	2.4	73	1536	5.1	155
						1122	4.1	125	2218	0.1	3
1737	1.1	34				1642	4.1	125	0544	4.4	134
						1644	4.1	125	1135	1.6	49
1728	4.2	128				1646	4.1	125	1737	4.9	149
2352	1.1	34				2322	1.3	40			
1812	4.1	125							0501	3.7	113

Time meridian 67° 30' W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to the chart datum of soundings.

Amuay, Venezuela, 2016

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
1 F	0251	0.0	0	16	0235	-0.2	-6	1	0326	0.1	3	16	0408	0.1	3
	1052	1.0	30	Sa	0957	1.0	30	M	1053	0.8	24	Tu	1058	1.1	34
	1645	0.3	9	1603	-0.1	-3	M	1726	-0.2	-6	Tu	1750	-0.6	-18	
	2242	0.5	15	●	2231	0.5	15					○	1631	-0.2	-6
2 Sa	0328	0.1	3	17	0325	-0.1	-3	2	0045	0.4	12	17	0059	0.6	18
	1121	1.0	30	Su	1036	1.1	34	2	0408	0.2	6	W	0502	0.2	6
	1736	0.2	6	1709	-0.3	-9	Tu	1113	0.9	27	W	1149	1.1	34	
	●	2355	0.5	15	2354	0.5	15	1808	-0.3	-9	1845	-0.6	-18	1717	-0.3	-9
3 Su	0405	0.2	6	18	0416	0.0	0	3	0138	0.4	12	18	0154	0.6	18
	1146	1.0	30	M	1118	1.2	37	3	0451	0.2	6	W	0555	0.2	6
	1816	0.1	3	1809	-0.4	-12	Th	1132	0.9	27	Th	1239	1.1	34	
								1849	-0.4	-12	1935	-0.6	-18	1801	-0.4	-12
4 M	0101	0.5	15	19	0106	0.5	15	4	0227	0.4	12	19	0246	0.6	18
	0443	0.2	6	Tu	0506	0.1	3	4	0534	0.3	9	F	0645	0.2	6
	1207	1.1	34	1201	1.3	40	Th	1155	1.0	30	F	1327	1.1	34	
	1853	-0.1	-3	1904	-0.6	-18		1929	-0.5	-15	Th	2022	-0.6	-18	
5 Tu	0203	0.5	15	20	0211	0.6	18	5	0311	0.4	12	5	0212	0.5	15
	0520	0.3	9	W	0556	0.2	6	5	0617	0.3	9	Sa	0732	0.2	6
	1222	1.1	34	1245	1.3	40	F	1225	1.0	30	Sa	1414	1.0	30	
	1930	-0.2	-6	1955	-0.7	-21		2008	-0.5	-15	Sa	2104	-0.5	-15	
6 W	0302	0.5	15	21	0311	0.6	18	6	0351	0.4	12	21	0421	0.6	18
	0557	0.4	12	Th	0646	0.3	9	6	0703	0.3	9	Su	0819	0.2	6
	1233	1.1	34	1328	1.3	40	Sa	1302	1.1	34	Su	1500	0.9	27	
	2008	-0.3	-9	2045	-0.7	-21		2049	-0.6	-18	Su	2143	-0.4	-12	
7 Th	0359	0.5	15	22	0408	0.6	18	7	0429	0.5	15	22	0506	0.5	15
	0634	0.4	12	F	0735	0.3	9	7	0753	0.2	6	M	0906	0.2	6
	1247	1.2	37	1411	1.2	37	Su	1345	1.1	34	M	1546	0.8	24	
	2046	-0.4	-12	2131	-0.7	-21		2130	-0.6	-18	O	2219	-0.3	-9	
8 F	0453	0.5	15	23	0503	0.6	18	8	0504	0.5	15	23	0548	0.5	15
	0713	0.4	12	Sa	0824	0.4	12	8	0848	0.2	6	M	0954	0.2	6
	1312	1.2	37	Sa	1453	1.1	34	Th	1433	1.0	30	Tu	1634	0.7	21
	2125	-0.5	-15	○	2215	-0.6	-18	●	2212	-0.6	-18		2252	-0.2	-6
9 Sa	0545	0.6	18	24	0556	0.6	18	9	0539	0.5	15	24	0628	0.5	15
	0756	0.5	15	Su	0914	0.4	12	9	0949	0.2	6	W	1046	0.2	6
	1345	1.2	37	Su	1534	1.0	30		1528	0.9	27	W	1732	0.6	18
	2205	-0.5	-15		2257	-0.5	-15		2256	-0.5	-15		2326	-0.1	-3
10 Su	0630	0.6	18	25	0646	0.6	18	10	0615	0.6	18	25	0706	0.5	15
	0848	0.5	15	M	1008	0.4	12	10	1055	0.1	3	Th	1142	0.2	6
	1425	1.2	37	M	1612	0.9	27		1635	0.8	24	Th	1848	0.5	15
	2247	-0.5	-15		2336	-0.4	-12		2342	-0.4	-12				
11 M	0709	0.6	18	26	0733	0.6	18	11	0655	0.7	21	26	0000	0.0	0
	0949	0.5	15	Tu	1108	0.4	12	11	1206	0.0	0	Sa	0741	0.5	15
	1511	1.1	34	Tu	1649	0.7	21		1802	0.7	21	F	1241	0.1	3
	2330	-0.5	-15									2012	0.4	12	
12 Tu	0742	0.7	21	27	0013	-0.3	-9	12	0030	-0.3	-9	27	0002	0.0	0
	1059	0.5	15	W	0816	0.6	18	27	0738	0.8	24	Sa	0631	0.9	27
	1604	1.0	30		1213	0.4	12		1320	-0.1	-3	Sa	1343	0.1	3
					1739	0.6	18		1948	0.6	18		2131	0.4	12
13 W	0014	-0.5	-15	28	0049	-0.2	-6	13	0122	-0.2	-6	28	0120	0.2	6
	0814	0.7	21	Th	0855	0.7	21	13	0825	0.9	27	Su	0839	0.6	18
	1215	0.4	12		1324	0.3	9		1434	-0.2	-6		1444	0.0	0
	1710	0.9	27		1938	0.4	12		2125	0.5	15		2238	0.4	12
14 Th	0059	-0.4	-12	29	0126	-0.1	-3	14	0216	-0.1	-3	29	0206	0.3	9
	0846	0.8	24	F	0929	0.7	21	14	0915	0.9	27	M	0902	0.6	18
	1334	0.3	9		1437	0.2	6		1545	-0.4	-12		1540	-0.1	-3
	1841	0.7	21		2116	0.4	12		2247	0.5	15		2335	0.5	15
15 F	0147	-0.3	-9	30	0204	0.0	0	15	0312	0.0	0	30	0305	0.3	9
	0920	0.9	27	Sa	1001	0.7	21	15	1007	1.0	30	W	0938	1.0	30
	1451	0.1	3		1544	0.1	3		1650	-0.5	-15	Tu	1624	-0.5	-15
	2047	0.6	18		2237	0.3	9		2357	0.6	18	○	2345	0.8	24
31 Th	0244	0.1	3	31	1029	0.8	24					31	0325	0.5	15
	0600	0.0	0	Su	1640	0.0	0					Th	0821	0.9	27
	0800	0.4	12	○	2345	0.4	12					○	1626	-0.2	-6

Time meridian 67° 30' W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to the chart datum of soundings.

Amuay, Venezuela, 2016

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 <i>F</i>	0025	0.7 21		16	0053 1.1 34		1	0000 1.1 34		16	0049 1.2 37		16	0051 1.3 40
	0419	0.5 15	Sa	0605	0.3 9	Su	0505 0.4 12	M	0654 0.3 9	W	0649 -0.1 -3	Th	0752 0.0 0	
	0940	0.9 27	Sa	1226 1.0 30	Su	1032 0.9 27	M	1321 0.8 24	W	1337 0.8 24	Th	1522 0.8 24		
	1712	-0.2 -6	Sa	1819 -0.1 -3	Su	1710 -0.1 -3	M	1802 0.3 9	W	1803 0.3 9	Th	1818 0.7 21		
2 <i>Sa</i>	0050	0.8 24	17	0131 1.1 34	2	0019 1.1 34	17	0118 1.2 37	2	0036 1.5 46	17	0059 1.3 40		
	0511	0.4 12	Su	0653 0.3 9	M	0559 0.2 6	Tu	0734 0.2 6	Th	0742 -0.3 -9	F	0825 -0.1 -3		
	1050	0.9 27	Su	1325 0.9 27	M	1157 0.9 27	Tu	1424 0.8 24	Th	1450 0.9 27	F	1624 0.8 24		
	1756	-0.3 -9	Su	1857 0.1 3	M	1754 0.0 0	Tu	1835 0.4 12	Th	1852 0.5 15	F	1853 0.7 21		
3 <i>Su</i>	0113	0.8 24	18	0205 1.0 30	3	0043 1.2 37	18	0141 1.2 37	3	0113 1.6 49	18	0054 1.3 40		
	0603	0.3 9	M	0737 0.2 6	Tu	0653 0.1 3	W	0811 0.1 3	F	0834 -0.4 -12	Sa	0900 -0.2 -6		
	1155	1.0 30	M	1423 0.9 27	Tu	1314 0.9 27	W	1527 0.8 24	F	1559 0.9 27	Sa	1725 0.9 27		
	1839	-0.2 -6	M	1932 0.2 6	Tu	1840 0.1 3	W	1907 0.6 18	F	1943 0.6 18	Sa	1927 0.8 24		
4 <i>M</i>	0136	0.9 27	19	0235 1.0 30	4	0111 1.3 40	19	0153 1.2 37	4	0153 1.6 49	19	0100 1.3 40		
	0655	0.1 3	Tu	0818 0.1 3	W	0746 -0.1 -3	Th	0846 0.0 0	Sa	0926 -0.5 -15	Su	0936 -0.2 -6		
	1259	1.0 30	Tu	1522 0.8 24	W	1429 0.9 27	Th	1632 0.8 24	Sa	1707 1.0 30	Su	1707 1.0 30		
	1923	-0.2 -6	Tu	2003 0.3 9	W	1926 0.3 9	Th	1938 0.7 21	●	2037 0.7 21	Su	2037 0.7 21		
5 <i>Tu</i>	0202	0.9 27	20	0258 1.0 30	5	0144 1.4 43	20	0141 1.2 37	5	0236 1.6 49	20	0121 1.3 40		
	0749	0.0 0	W	0857 0.1 3	Th	0840 -0.3 -9	W	0922 -0.1 -3	Su	1019 -0.5 -15	M	1013 -0.2 -6		
	1406	0.9 27	W	1623 0.8 24	Th	1544 0.9 27	W	1738 0.8 24	Su	1811 1.0 30	M	1811 1.0 30		
	2007	-0.1 -3	W	2034 0.5 15	Th	2015 0.4 12	W	2010 0.7 21	Su	2136 0.8 24	O	2136 0.8 24		
6 <i>W</i>	0232	1.0 30	21	0306 0.9 27	6	0222 1.4 43	21	0126 1.2 37	6	0322 1.5 46	21	0152 1.3 40		
	0844	-0.1 -3	Th	0936 0.0 0	F	0935 -0.4 -12	Sa	0959 -0.1 -3	M	1111 -0.5 -15	Tu	1051 -0.2 -6		
	1517	0.9 27	Th	1729 0.8 24	F	1658 0.9 27	Sa	2241 0.8 24	M	1911 1.1 34	Tu	1911 1.1 34		
	2053	0.0 0	Th	2104 0.6 18	F	2107 0.5 15	O	2241 0.8 24	M	2241 0.8 24	Tu	2241 0.8 24		
7 <i>Th</i>	0307	1.1 34	22	0229 0.9 27	7	0304 1.4 43	22	0138 1.2 37	7	0413 1.4 43	22	0230 1.3 40		
	0941	-0.3 -9	F	1016 0.0 0	Sa	1031 -0.5 -15	Su	1037 -0.1 -3	Tu	1204 -0.5 -15	W	1131 -0.2 -6		
	1635	0.9 27	F	1838 0.8 24	Sa	1811 1.0 30	Su	2007 1.2 37	Tu	2038 1.0 30	W	2038 1.0 30		
	2143	0.2 6	O	2137 0.7 21	Sa	2204 0.6 18	Su	2353 0.9 27	Tu	2252 0.9 27	W	2252 0.9 27		
8 <i>F</i>	0348	1.1 34	23	0217 1.0 30	8	0351 1.4 43	23	0205 1.2 37	8	0512 1.2 37	23	0315 1.3 40		
	1041	-0.3 -9	Sa	1057 0.0 0	Su	1128 -0.5 -15	M	1118 -0.2 -6	W	1255 -0.4 -12	Th	1212 -0.2 -6		
	1756	0.9 27	Sa	1949 0.8 24	Su	1921 1.0 30	M	2058 1.2 37	W	2102 1.0 30	Th	2102 1.0 30		
	2236	0.3 9	Sa	2213 0.7 21	Su	2307 0.7 21	M	2307 0.7 21	W	2307 0.7 21	Th	2307 0.7 21		
9 <i>Sa</i>	0436	1.1 34	24	0237 1.0 30	9	0445 1.3 40	24	0240 1.2 37	9	0112 0.8 24	24	0009 0.9 27		
	1142	-0.4 -12	Sa	1141 -0.1 -3	M	1226 -0.5 -15	Tu	1200 -0.2 -6	Th	0630 1.1 34	F	0408 1.2 37		
	1915	0.9 27	Sa	2055 0.8 24	M	2024 1.1 34	Tu	1344 -0.2 -6	Th	1254 -0.2 -6	F	1254 -0.2 -6		
	2335	0.4 12	Sa	2258 0.7 21	M	2258 0.7 21	Tu	2144 1.2 37	Th	2123 1.1 34	F	2123 1.1 34		
10 <i>Su</i>	0532	1.1 34	25	0310 1.0 30	10	0018 0.8 24	25	0323 1.2 37	10	0237 0.7 21	25	0127 0.8 24		
	1245	-0.4 -12	M	1228 -0.1 -3	Tu	0551 1.2 37	W	1243 -0.2 -6	F	0805 0.9 27	Sa	0514 1.0 30		
	2029	0.9 27	M	2148 0.9 27	Tu	1323 -0.4 -12	W	2157 1.0 30	F	1431 -0.1 -3	Sa	1337 -0.1 -3		
			M	2354 0.8 24	Tu	2121 1.2 37	W	2225 1.3 40	F	2142 1.2 37	Su	2142 1.2 37		
11 <i>M</i>	0040	0.5 15	26	0353 1.0 30	11	0134 0.8 24	26	0030 0.9 27	11	0400 0.6 18	26	0241 0.6 18		
	0638	1.1 34	Tu	1316 -0.1 -3	W	0711 1.1 34	Th	0416 1.2 37	Sa	0934 0.8 24	Su	0646 0.9 27		
	1349	-0.4 -12	Tu	2227 0.9 27	W	1420 -0.3 -9	Th	1328 -0.2 -6	Sa	1514 0.1 3	M	1422 0.0 0		
	2135	1.0 30	Tu		W	2212 1.2 37	Th	2219 1.1 34	Sa	2302 1.3 40	Su	2204 1.3 40		
12 <i>Tu</i>	0150	0.6 18	27	0100 0.8 24	12	0253 0.7 21	27	0145 0.9 27	12	0510 0.5 15	27	0350 0.4 12		
	0753	1.1 34	W	0447 1.0 30	Th	0837 1.0 30	F	0520 1.1 34	Su	1054 0.8 24	M	0920 0.7 21		
	1452	-0.4 -12	W	1405 -0.1 -3	Th	1513 -0.2 -6	F	1413 -0.1 -3	Su	1555 0.2 6	M	1509 0.1 3		
	2233	1.0 30	W	2257 0.9 27	Th	2257 1.2 37	F	2237 1.1 34	Su	2336 1.3 40	M	2229 1.4 43		
13 <i>W</i>	0301	0.5 15	28	0207 0.8 24	13	0409 0.6 18	28	0256 0.8 24	13	0602 0.3 9	28	0452 0.2 6		
	0909	1.0 30	Th	0554 1.0 30	F	0957 1.0 30	Sa	0643 0.9 27	M	1207 0.8 24	Tu	1116 0.7 21		
	1551	-0.4 -12	Th	1453 -0.1 -3	F	1602 -0.1 -3	Sa	1458 -0.1 -3	M	1632 0.3 9	W	1557 0.3 9		
	2324	1.1 34	Th	2321 1.0 30	F	2339 1.3 40	Sa	2254 1.2 37	M	2300 1.5 46	W	2300 1.5 46		
14 <i>Th</i>	0409	0.5 15	29	0310 0.7 21	14	0514 0.5 15	29	0401 0.6 18	14	0006 1.3 40	29	0549 0.0 0		
	1020	1.0 30	Th	0717 0.9 27	Sa	1109 0.9 27	W	0836 0.8 24	Tu	0643 0.2 6	W	1240 0.8 24		
	1646	-0.3 -9	Th	1539 -0.1 -3	Sa	1647 0.0 0	W	1543 0.0 0	Tu	1315 0.8 24	W	1646 0.4 12		
			Th	2341 1.0 30	F	2341 1.0 30	Sa	2313 1.3 40	W	1708 0.4 12	W	2335 1.6 49		
15 <i>F</i>	0011	1.1 34	30	0409 0.6 18	15	0016 1.3 40	30	0500 0.4 12	15	0032 1.3 40	30	0642 -0.2 -6		
	0511	0.4 12	Sa	0854 0.9 27	Su	0608 0.4 12	M	1043 0.8 24	W	0718 0.1 3	Th	1351 0.8 24		
	1125	1.0 30	Sa	1625 -0.1 -3	Su	1217 0.9 27	M	1629 0.1 3	W	1419 0.8 24	Th	1737 0.5 15		
	1735	-0.2 -6	Sa		Su	1726 0.2 6	M	2335 1.4 43	W	1743 0.6 18	Th	1737 0.5 15		
							31	0556 0.1 3						
							Tu	1217 0.8 24						
							W	1715 0.2 6						

Time meridian 67° 30' W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to the chart datum of soundings.

Amuay, Venezuela, 2016

Times and Heights of High and Low Waters

July				August				September															
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height												
1 F 0013 0734 1457 1828	h m 1.6 -0.4 0.9 0.6	ft 49 -12 27 18	cm 1.3 -0.1 0.9 0.8	16 Sa 0014 0754 1553 1823	h m 1.3 -0.1 0.9 0.8	ft 40 -3 27 24	cm 1.6 -0.4 0.9 0.8	1 Tu 0136 0857 1631 2008	h m 1.6 -0.4 1.1 0.8	ft 49 -12 34 24	cm 1.5 -12 30 24	16 Th 0325 0948 1715 2153	h m 1.3 0.2 1.2 0.7	ft 40 6 37 21	cm 1.4 0.3 1.4 15								
	0055 Sa 0825 1558 1922	1.7 -0.5 0.9 0.7	52 -15 27 21		0025 Su 0829 1644 1905	1.4 -0.2 0.9 0.8	43 -6 27 24		0222 Tu 0942 1720 2104	1.5 -0.3 1.1 0.8	46 -9 34 24	0422 F 1023 1753 2247	1.2 0.4 1.2 0.7	37 12 37 21	1.3 0.4 1.4 12								
	0138 Su 0914 1657 2017	1.6 -0.5 1.0 0.8	49 -15 30 24		0045 M 0905 1731 1949	1.4 -0.2 0.9 0.8	43 -6 27 24		0310 W 1024 1808 2203	1.4 -0.2 1.1 0.8	43 -6 34 24	0530 Sa 1056 1830 2133	1.1 0.5 1.2 0.7	34 15 37 21	1.2 0.5 1.5 9								
	0223 M 1003 1754 2116	1.6 -0.5 1.0 0.8	49 -15 30 24		0115 Tu 0942 1813 2039	1.4 -0.2 0.9 0.8	43 -6 27 24		0358 Th 1104 1853 2305	1.2 0.0 1.1 0.8	37 0 3 24	0650 Su 1130 1903	1.0 0.6 1.2	30 18 37	1.2 0.5 1.6								
5 Tu 1051 1847 2219	0309 1051 1847 2219	1.5 -0.4 1.1 0.8	46 -12 34 24	20 W 1020 1848 2137	0151 W -0.2 30	1.4 -6 27	43	5 F 1143 1936	0455 F 1143 1936	1.1 0.1 1.1	34 3 34	20 Sa 1104 1815 2343	0354 Sa 1104 1815 2343	1.2 0.2 0.5	37 6 15	5 M 0815 1206 1934	0044 M 1206 1934	0.6 1.0 1.2	18 30 37	20 Tu 0758 1214 1834	0038 Tu 1214 1834	0.2 0.8 1.6	6 37 49
	0356 1137 1937 2327	1.3 -0.3 1.1 0.8	40 -2 34 24		0234 Th 1059 1918 2243	1.3 -0.2 1.0 0.8	40		0012 Sa 0614 1220 2016	0.7 0.9 0.2	21 27 6	0519 Su 1149 1851 2016	1.1 0.3 1.3	34 9 40	0.5 1.0 0.8	0144 W 0935 1248 2001	0.1 1.0 0.8	15 24 37	0.1 1.2 1.6				
	0449 1222 2024	1.2 -0.2 1.2	37 -6 37		0323 F 1139 1945 2355	1.2 -0.1 1.1	37		0125 Su 0752 1257 2054	0.7 0.8 0.4	21 24 12	0054 M 0718 1238 1934	0.4 1.0 0.4	12 30 43	0.5 1.0 1.4	0242 W 1043 1336 2023	0.5 1.0 0.9	15 30 40	0.0 1.3 1.6				
	0043 0602 1305 2106	0.8 1.0 -0.1 1.2	24 30 -3 37		0423 Sa 1221 2011	1.1 0.0 1.1	34		0239 M 0923 1336 2128	0.6 0.8 0.5	18 24 15	0205 Tu 0905 1332 2022	0.3 1.0 0.5	9 30 46	0.4 1.0 1.3	0334 Th 1139 1429 2047	0.4 1.0 0.9	12 30 40	0.0 1.4 1.6				
9 Sa 0744 1345 2145	0206 0.8 1.2	0.7 21	21	24 Su 0546 1306 2039	0110 Su 0546 1306 1.2	0.6 0.9 0.1	18 27 37		9 Tu 1042 1418 2159	0345 Tu 1042 1418 2159	0.5 0.8 0.6	15 24 37	0313 W 1029 1429 2115	0.1 1.0 0.7	3 30 49	0.3 1.1 1.4	0421 F 1225 1523 2122	0.3 1.1 1.0	9 34 43	0.0 1.4 1.6			
	0333 0921 1425 2221	0.6 0.8 0.2 1.3	18 24 6 40		0224 M 0811 1354 2112	0.4 0.2 1.3	12			0437 W 1149 1502 2227	0.3 0.8 0.7	9 24 40	0417 Th 1139 1529 2209	0.0 1.1 0.7	0 34 49	0.2 1.1 1.4	0504 Sa 1305 1616 2204	0.2 1.1 1.0	6 34 43	0.0 1.4 1.6			
	0445 1044 1504 2253	0.4 0.7 0.4 1.3	12 21 12 40		0334 Tu 1011 1444 2150	0.2 0.4 1.5	6			0519 Th 1248 1549 2251	0.2 0.9 0.7	6 27 21	0516 F 1239 1628 2304	-0.1 1.1 0.8	-3 34 49	0.2 1.2 1.4	0544 Su 1339 1706 2248	0.2 1.2 0.9	6 37 43	0.1 1.4 1.6			
	0534 1158 1543 2321	0.3 0.7 0.5 1.3	9 21 15 40		0438 W 1137 1536 2232	0.0 0.8 0.5	0			0558 F 1338 1635 2311	0.1 0.9 0.8	3 27 43	0610 Sa 1332 1726 2357	-0.2 1.2 0.8	-6 37 52	0.1 1.2 1.5	0624 M 1410 1756 2335	0.1 1.2 0.9	3 37 46	0.5 1.3 1.6			
13 W 1304 1623 2345	0611 0.7 0.6 1.3	0.2 21	6	28 Th 1247 1631 2316	0536 Th 1247 1631 1.6	-0.1 0.9 1.6	-3 27 49		13 Sa 1424 1721 2333	0635 Tu 1424 1721 2333	0.0 1.0 1.4	0 30 43	0701 Su 1422 1822	-0.2 1.2 0.8	-6 37 24	0.1 1.2 1.4	0702 Tu 1436 1846	0.1 1.2 0.8	3 37 24	0.1 1.4 1.6			
	0645 1404 1703	0.1 0.8 0.6	3 24 18		0630 F 1350 1725	-0.3 0.9 0.6	-9			0712 Su 1506 1807	0.0 1.0 0.8	0 30 24	0050 M 0747 1508 1916	1.6 -0.1 1.2	49 -3 37	1.5 1.1 1.4	0024 W 0741 1500 1937	1.5 0.1 1.2	46 37 24	1.4 1.2 1.6			
	0003 0719 1500 1743	1.3 0.0 0.8 0.7	40 0 24 21		0002 Sa 0721 1446 1820	1.7 1.0 0.7	-52			0000 M 0749 1544 1853	1.4 -0.1 0.8	43 -3 24	0141 Tu 0831 1553 2008	1.6 0.0 1.2	49 0 24	1.4 0.6 1.6	0117 Th 0820 1523 2031	1.5 0.2 1.3	46 6 21	1.3 0.6 1.8			
	0049 0810 1540 1914	1.6 -0.4 1.0 0.7	49 -12 30 21		0049 Su 1540 1914	1.6 1.0 0.7	49 -12 30 21			0232 W 0911 1635 2100	1.5 0.1 1.2	46 3 37	0232 W 0911 1635 2100	1.5 0.1 1.2	46 3 21	1.4 1.2 1.6							

Time meridian 67° 30' W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
 Heights are referred to the chart datum of soundings.

Amuay, Venezuela, 2016

Times and Heights of High and Low Waters

October				November				December			
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height
1 Sa 0451 1.2 37	16 0403 1.2 37	1 Tu 1439 1.4 43	16 W 0653 1.2 37	1 Th 1435 1.4 43	16 0736 1.0 30	Sa 0932 0.7 21	Su 1517 1.7 52	Th 2342 0.3 9	W 1021 0.9 27	Th 2355 -0.1 -3	16 1107 0.7 21
1638 1.3 40	1517 1.7 52	2342 0.3 9	1615 1.7 52	2355 -0.1 -3	1654 1.3 40	1638 1.3 40	1517 1.7 52	1615 1.7 52	1654 1.3 40	1654 1.3 40	1654 1.3 40
2233 0.6 18	2220 0.2 6										
2 Su 0604 1.1 34	17 0527 1.2 37	2 W 1504 1.5 46	17 0003 -0.3 -9	2 1512 1.3 40	17 0035 -0.5 -15	1002 0.9 27	M 0953 0.8 24	Th 0758 1.2 37	1222 0.7 21	Sa 1222 0.7 21	1802 1.2 37
1648 1.3 40	1559 1.7 52	W 1128 1.0 30	1714 1.6 49			2321 0.5 15	2319 0.0 0				
2321 0.5 15											
3 M 0721 1.1 34	18 0650 1.3 40	3 Th 0025 0.3 9	18 0100 -0.3 -9	3 0035 -0.1 -3	18 0126 -0.4 -12	1034 1.0 30	Tu 1048 0.9 27	F 0857 1.3 40	Sa 0919 1.1 34	Su 1343 0.7 21	1925 1.0 30
1609 1.3 40	Tu 1048 0.9 27	Th 1540 1.5 46	F 1243 1.0 30	Sa 1557 1.3 40	Su 1343 0.7 21						
1111 1.0 30	1648 1.7 52		1824 1.5 46								
1608 1.4 43	1747 1.7 52										
4 Tu 0010 0.5 15	19 0021 0.0 0	4 F 0110 0.2 6	19 0156 -0.2 -6	4 0116 -0.1 -3	19 0215 -0.3 -9	0839 1.1 34	W 0807 1.3 40	Sa 0950 1.4 43	M 1004 1.2 37	M 1508 0.6 18	2054 0.9 27
1111 1.0 30	1151 1.0 30	F 1625 1.4 43	Sa 1403 1.0 30	Su 1259 1.0 30	Su 1508 0.6 18	1608 1.4 43	1747 1.7 52	1403 1.0 30	1023 1.1 34	1004 1.2 37	2054 0.9 27
1608 1.4 43			1946 1.4 43								
5 W 0100 0.5 15	20 0123 -0.1 -3	5 Sa 0155 0.2 6	20 0250 -0.1 -3	5 M 0157 -0.1 -3	20 0301 -0.1 -3	0948 1.2 37	Th 0914 1.4 43	Su 1037 1.4 43	W 1045 1.2 37	Tu 1629 0.4 12	O 2218 0.8 24
1157 1.1 34	1300 1.1 34	Sa 1327 1.2 37	Su 1523 0.9 27	M 1417 0.9 27	O 2218 0.8 24	1638 1.4 43	1856 1.6 49	1720 1.4 43	1038 1.1 34	1045 1.2 37	
1638 1.4 43			2110 1.2 37								
6 Th 0151 0.4 12	21 0224 -0.1 -3	6 Su 0239 0.2 6	21 0341 0.0 0	6 Tu 0239 0.0 0	21 0344 0.0 0	1043 1.2 37	F 1013 1.4 43	M 1120 1.5 46	W 1123 1.2 37	W 1738 0.3 9	2334 0.7 21
1254 1.1 34	1414 1.1 34	Su 1439 1.1 34	Su 1829 1.3 40	M 1639 0.8 24	O 2228 1.1 34	1722 1.4 43	2013 1.6 49	1829 1.3 40	1052 1.1 34	1123 1.2 37	2334 0.7 21
1722 1.4 43											
7 F 0240 0.4 12	22 0323 0.0 0	7 M 0322 0.2 6	22 0427 0.1 3	7 W 0321 0.0 0	22 0423 0.1 3	1125 1.2 37	Sa 1105 1.5 46	Tu 1200 1.5 46	W 1106 1.2 37	Th 1157 1.2 37	1831 0.1 3
1358 1.1 34	1529 1.0 30	M 1544 1.0 30	Tu 1746 0.6 18	W 1632 0.5 15	O 2125 0.8 24	1820 1.4 43	O 2130 1.5 46	1952 1.2 37	2125 0.8 24	1157 1.2 37	1831 0.1 3
1820 1.4 43			2341 1.1 34								
8 Sa 0326 0.3 9	23 0417 0.0 0	8 Tu 0404 0.2 6	23 0508 0.2 6	8 Th 0404 0.1 3	23 0044 0.6 18	1158 1.3 40	Su 1151 1.5 46	W 1236 1.5 46	Th 1123 1.3 40	Sa 0500 0.3 9	1229 1.2 37
1501 1.1 34	Su 1638 0.9 27	Tu 1644 0.9 27	W 1842 0.5 15	W 1730 0.3 9	W 1229 1.2 37	1930 1.4 43	2241 1.5 46	2128 1.2 37	1730 0.3 9	1229 1.2 37	1914 0.0 0
1930 1.4 43			2128 1.2 37								
9 Su 0411 0.3 9	24 0507 0.1 3	9 W 0446 0.2 6	24 0050 1.0 30	9 F 0448 0.2 6	24 0150 0.6 18	1226 1.3 40	M 1234 1.6 49	Th 0545 0.4 12	Sa 0534 0.4 12	Sa 1256 1.2 37	1951 -0.1 -3
1600 1.1 34	M 1742 0.8 24	W 1739 0.7 21	Th 1309 1.5 46	W 1825 0.1 3	Sa 1256 1.2 37	O 2048 1.4 43	2348 1.4 43	2304 1.1 34	1146 1.4 43	1256 1.2 37	1951 -0.1 -3
O 2048 1.4 43			2304 1.1 34								
10 M 0453 0.2 6	25 0553 0.2 6	10 Th 0527 0.3 9	25 0157 0.9 27	10 Sa 0055 0.8 24	25 0254 0.6 18	1251 1.3 40	Tu 1313 1.6 49	F 0619 0.5 15	Su 0608 0.4 12	Su 1317 1.2 37	2025 -0.2 -6
1654 1.0 30	Tu 1838 0.7 21	Th 1833 0.5 15	F 1337 1.4 43	Sa 1216 1.5 46	Su 1317 1.2 37	2203 1.4 43	1929 0.6 18	2011 0.2 6	1918 -0.2 -6	1317 1.2 37	2025 -0.2 -6
2203 1.4 43			1929 0.6 18								
11 Tu 0534 0.2 6	26 0052 1.3 40	11 F 0031 1.1 34	26 0303 0.9 27	11 M 0211 0.8 24	26 0355 0.6 18	1311 1.4 43	W 0633 0.4 12	Sa 0650 0.6 18	W 0641 0.5 15	W 1328 1.2 37	2059 -0.2 -6
1747 0.9 27	W 1349 1.5 46	F 1254 1.6 49	Sa 1359 1.4 43	Sa 1252 1.6 49	Sa 1328 1.2 37	2312 1.4 43	1929 0.6 18	2049 0.2 6	2059 -0.2 -6	1328 1.2 37	2059 -0.2 -6
2312 1.4 43			1929 0.6 18								
12 W 0614 0.3 9	27 0155 1.3 40	12 Sa 0152 1.1 34	27 0409 0.9 27	12 M 0322 0.8 24	27 0457 0.6 18	1330 1.4 43	Th 0708 0.5 15	Su 0719 0.7 21	M 0713 0.5 15	Tu 1326 1.2 37	2134 -0.3 -9
1330 1.4 43	Th 1422 1.5 46	Sa 1323 1.7 52	Tu 1410 1.4 43	Tu 1333 1.6 49	Tu 1326 1.2 37	1839 0.7 21	2015 0.6 18	2125 0.1 3	2134 -0.3 -9	1326 1.2 37	2134 -0.3 -9
1839 0.7 21			2015 0.6 18								
13 Th 0020 1.4 43	28 0258 1.2 37	13 Su 0310 1.1 34	28 0518 0.9 27	13 M 0430 0.8 24	28 1333 1.2 37	0654 0.3 9	F 0740 0.7 21	M 0747 0.8 24	W 2209 -0.3 -9	W 2209 -0.3 -9	-9
1349 1.5 46	W 1449 1.5 46	Su 1359 1.8 55	M 1358 1.3 40	M 1417 1.6 49	M 1417 1.6 49	1932 0.6 18	2058 0.5 15	2114 -0.1 -3	O 2156 -0.6 -18	O 2156 -0.6 -18	-9
1932 0.6 18			2114 -0.1 -3								
14 F 0129 1.3 40	29 0403 1.1 34	14 M 0426 1.1 34	29 1350 1.4 43	14 W 0536 0.9 27	29 1354 1.2 37	0735 0.4 12	Sa 0810 0.8 24	F 0828 0.7 21	Sa 0858 0.6 18	Sa 2246 -0.3 -9	-9
1412 1.6 49	Sa 1509 1.4 43	M 1439 1.8 55	Tu 2237 0.0 0	Tu 1505 1.6 49	Tu 1505 1.6 49	2026 0.4 12	2139 0.4 12	O 2209 -0.2 -6	W 2249 -0.6 -18	O 2249 -0.6 -18	-9
2026 0.4 12			O 2209 -0.2 -6								
15 Sa 0243 1.3 40	30 0513 1.1 34	15 Tu 0541 1.1 34	30 1406 1.4 43	15 W 0638 0.9 27	30 1426 1.1 34	0818 0.5 15	Su 0838 0.9 27	Tu 0922 0.8 24	Sa 0959 0.7 21	Sa 2323 -0.3 -9	-9
1441 1.6 49	Su 1507 1.4 43	Tu 1524 1.8 55	Tu 2315 0.0 0	Tu 1556 1.5 46	Tu 1556 1.5 46	O 2122 0.3 9	O 2219 0.4 12	2306 -0.3 -9	2342 -0.6 -18	2342 -0.6 -18	-9
O 2122 0.3 9			2306 -0.3 -9								
16 M 0626 1.1 34	31 0626 1.1 34	16 M 0905 1.0 30	31 1504 1.1 34	16 Sa 1504 1.1 34	31 1504 1.1 34	0905 1.0 30	1436 1.4 43	2300 0.3 9			
1436 1.4 43	M 1436 1.4 43	2300 0.3 9									
2300 0.3 9											

Time meridian 67° 30' W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to the chart datum of soundings.

Punta Gorda, Venezuela, 2016

Times and Heights of High and Low Waters

January				February				March													
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height										
h m	ft	cm		h m	ft	cm		h m	ft	cm											
1 F 0346	0.6	18		16 1616	0.339	-0.1	-3	1 M 0443	1.0	30		1 Tu 0348	1.0	30							
0923	5.4	165	Sa	0920	6.1	186		16 Tu 0527	0.5	15		16 W 0506	0.8	24							
1616	1.0	30	Sa	1618	0.2	6	M	1009	5.1	155	Tu	0918	5.2	158	16 W 1037	5.3	162				
2133	5.3	162	●	2151	5.5	168		1725	0.7	21	1814	-0.1	-3		1748	0.0	0				
								2243	4.6	140					2349	4.7	143				
2 Sa 0440	0.9	27	17 Su 0442	0.2	6	2 Tu 0548	1.2	37	17 W 0010	4.7	143	2 W 0456	1.3	40	17 Th 0616	0.8	24				
1715	1.1	34	1022	5.9	180	2 Tu 1110	4.9	149	17 W 0638	0.6	18	2 W 1016	4.9	149	17 Th 1158	5.1	155				
● 2233	5.0	152	1728	0.2	6	1830	0.6	18	1222	5.3	162	1744	0.6	18		1856	0.0	0			
			2306	5.1	155	2355	4.4	134	1922	-0.3	-9	2306	4.5	137							
3 Su 0538	1.1	34	18 M 0551	0.5	15	3 W 0653	1.2	37	18 Th 0133	4.8	146	3 Th 0611	1.4	43	18 F 0112	4.8	146				
1113	5.2	158	1132	5.8	177	3 W 1219	5.0	152	18 Th 0744	0.5	15	3 Th 1127	4.8	146	18 F 0723	0.6	18				
1816	0.9	27	1838	0.0	0	1932	0.3	9	1338	5.4	165	1852	0.4	12	18 F 1318	5.1	155				
2341	4.8	146						2023	-0.6	-18					1958	-0.2	-6				
4 M 0638	1.2	37	19 Tu 0029	5.0	152	4 Th 0109	4.5	137	19 F 0241	5.1	155	4 F 0023	4.5	137	19 Sa 0219	5.1	155				
1215	5.3	162	0659	0.5	15	4 Th 0753	1.0	30	19 F 0842	0.2	6	4 F 0719	1.1	34	19 Sa 0821	0.3	9				
1915	0.7	21	1246	5.8	177	1326	5.2	158	1442	5.7	174	1244	5.0	152	19 Sa 1424	5.4	165				
			1943	-0.3	-9	2028	-0.1	-3	2117	-0.9	-27	1953	0.1	3	2052	-0.4	-12				
5 Tu 0051	4.8	146	20 W 0147	5.1	155	5 F 0213	4.8	146	20 Sa 0333	5.4	165	5 Sa 0136	4.8	146	20 Su 0308	5.4	165				
0735	1.1	34	0802	0.3	9	5 F 0847	0.7	21	20 Sa 0933	-0.2	-6	5 Sa 0818	0.7	21	20 Su 0912	-0.1	-3				
1314	5.4	165	1354	6.0	183	1424	5.5	168	1533	5.9	180	1353	5.4	165	20 Su 1515	5.7	174				
2010	0.3	9	2042	-0.7	-21	2118	-0.5	-15	2204	-1.1	-34	2047	-0.4	-12	2138	-0.6	-18				
6 W 0154	5.0	152	21 Th 0252	5.4	165	6 Sa 0306	5.2	158	21 Su 0414	5.7	174	6 Su 0235	5.3	162	21 M 0348	5.7	174				
0827	0.9	27	0859	0.1	3	6 Sa 0935	0.3	9	21 Su 1019	-0.5	-15	6 Su 0910	0.1	3	21 M 0956	-0.4	-12				
1408	5.7	174	1454	6.2	189	1515	6.0	183	1615	6.1	186	1451	5.9	180	21 M 1556	5.9	180				
2059	-0.1	-3	2135	-1.1	-34	2203	-0.9	-27	2246	-1.2	-37	2136	-0.9	-27	2220	-0.7	-21				
7 Th 0247	5.2	158	22 F 0346	5.7	174	7 Su 0352	5.6	171	22 M 0450	5.8	177	7 M 0324	5.8	177	22 Tu 0421	5.9	180				
0915	0.7	21	0950	-0.1	-3	7 Su 1019	-0.1	-3	22 M 1100	-0.7	-21	7 M 0957	-0.4	-12	22 Tu 1037	-0.7	-21				
1455	6.0	183	1544	6.4	195	1600	6.4	195	1652	6.3	192	1542	6.3	192	22 M 1632	6.1	186				
2145	-0.4	-12	2223	-1.3	-40	2246	-1.3	-40	○ 2325	-1.2	-37	2221	-1.2	-37	2258	-0.7	-21				
8 F 0333	5.5	168	23 Sa 0431	5.9	180	8 M 0433	6.0	183	23 Tu 0521	5.9	180	8 Tu 0409	6.3	192	23 W 1114	-0.8	-24				
0959	0.5	15	1037	-0.3	-9	8 M 1102	-0.5	-15	23 Tu 1139	-0.7	-21	8 Tu 1041	-0.9	-27	23 W 1704	6.2	189				
1538	6.3	192	1628	6.6	201	8 M 1644	6.7	204	23 Tu 1725	6.3	192	● 2304	-1.5	-46	○ 2334	-0.6	-18				
2227	-0.8	-24	○ 2307	-1.4	-43	● 2327	-1.5	-46													
9 Sa 0414	5.8	177	24 Su 0510	6.0	183	9 Tu 0513	6.4	195	24 W 0001	-1.0	-30	9 W 1125	6.7	204	24 Th 1150	6.2	189				
1040	0.3	9	1120	-0.4	-12	9 Tu 1144	-0.8	-24	24 W 0550	6.0	183	1757	6.3	192	2347	-1.5	-46	24 Th 1734	6.2	189	
1618	6.6	201	1708	6.6	201	1726	6.9	210	1757	6.3	192										
● 2308	-1.0	-30	2348	-1.3	-40																
10 Su 0453	6.1	186	25 M 0546	6.0	183	10 W 0008	-1.6	-49	25 Th 0553	6.6	201	10 Th 0618	6.0	183	25 F 0546	6.2	189				
1120	0.1	3	1201	-0.4	-12	10 W 1226	-0.9	-27	25 Th 1251	-0.7	-21	10 Th 1282	-1.5	-46	25 F 1224	-0.8	-24				
1658	6.8	207	1744	6.6	201	1809	6.9	210	1828	6.2	189	1757	7.0	213	25 F 1805	6.2	189				
2348	-1.1	-34																			
11 M 0532	6.3	192	26 Tu 0026	-1.2	-37	11 Th 0050	-1.4	-43	26 F 0647	6.0	183	11 F 0613	7.1	216	26 Sa 0614	6.2	189				
1200	0.0	0	0618	6.0	183	1311	-1.0	-30	26 F 1327	-0.5	-15	1254	-1.5	-46	26 Sa 1258	-0.6	-18				
1738	6.9	210	1240	-0.4	-12	1818	6.4	195	1901	6.0	183	1842	6.8	207	1836	6.1	186				
12 Tu 0028	-1.2	-37	27 W 0104	-0.9	-27	12 F 0134	-1.2	-37	27 Sa 0144	-0.2	-6	12 Sa 0656	7.0	213	27 Su 0643	6.1	186				
0611	6.4	195	0650	5.9	180	1319	-0.2	-6	27 Sa 1359	-0.9	-27	1342	-1.3	-40	27 Su 1332	-0.4	-12				
1242	-0.1	-3	1319	-0.2	-6	1942	6.4	195	1936	5.7	174	1929	6.4	195	1910	5.9	180				
1820	6.9	210	1853	6.2	189																
13 W 0109	-1.1	-34	28 Th 0141	-0.5	-15	13 Sa 0222	-0.8	-24	28 Su 0218	0.2	6	13 Su 0202	-0.6	-18	28 M 0716	0.5	15				
0653	6.5	198	0722	5.8	177	0804	6.5	198	0752	5.7	174	1434	-1.0	-30	1409	-0.2	-6				
1326	-0.1	-3	1358	0.0	0	1453	-0.6	-18	1444	0.0	0	2021	5.9	180	1947	5.7	174				
1904	6.7	204	1928	6.0	183	2034	5.9	180	2015	5.4	165										
14 Th 0153	-0.8	-24	29 F 0219	-0.2	-6	14 Su 0316	-0.3	-9	29 M 0258	0.7	21	14 M 0831	-0.1	-3	29 Tu 0755	5.8	177				
0737	6.5	198	0756	5.7	174	0855	6.1	186	1533	0.3	9	1532	-0.6	-18	1453	0.1	3				
1416	0.0	0	1440	0.2	6	1554	-0.3	-9	2101	5.1	155	2119	5.4	165	2031	5.4	165				
1953	6.4	195	2007	5.6	171	2134	5.3	162													
15 F 0242	-0.5	-15	30 Sa 0300	0.3	9	15 M 0418	0.2	6	30 M 0954	5.7	174	15 Tu 0357	0.4	12	30 W 0840	1.2	37				
0826	6.3	192	0834	5.5	168	1528	0.4	12	1703	-0.1	-3	1638	-0.2	-6	1549	0.4	12				
1513	0.1	3	1623	0.6	18	2050	5.3	162	○ 2246	4.9	149				2124	5.1	155				
2048	6.0	183				31 Su 0347	0.7	21	31 Su 0917	5.3	162				31 Th 0412	1.5	46				
						1623	0.6	18	1623	0.6	18				0936	5.2					

Punta Gorda, Venezuela, 2016

Times and Heights of High and Low Waters

April				May				June			
Time	Height	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 F 0532	1.5	46	16 Sa 0037	5.0	152	1 Su 0614	1.2	37	1 W 0050	5.4	165
1046	5.0	152	0656	0.8	24	1135	5.3	162	0719	0.6	18
1811	0.5	15	1248	5.0	152	1839	0.4	12	1312	5.1	155
2344	4.9	149	1926	0.2	6	1940	0.6	18	1940	0.6	18
2 Sa 0645	1.2	37	17 Su 0141	5.3	162	2 M 0021	5.7	174	17 Tu 0143	5.6	171
1207	5.1	155	0754	0.5	15	0719	0.6	18	0811	0.3	9
1917	0.3	9	1355	5.2	158	1253	5.5	168	1409	5.3	162
			2019	0.1	3	1940	0.1	3	2030	0.5	15
3 Su 0058	5.2	158	18 M 0231	5.6	171	3 Tu 0126	6.1	186	18 W 0227	5.9	180
0748	0.7	21	0844	0.1	3	0817	0.0	0	0858	-0.1	-3
1323	5.4	165	1447	5.5	168	1402	5.9	180	1457	5.5	168
2014	-0.1	-3	2107	0.0	0	2036	-0.2	-6	2115	0.5	15
4 M 0201	5.7	174	19 Tu 0311	5.8	177	4 W 0223	6.6	201	19 Th 0306	6.1	186
0843	0.1	3	0929	-0.3	-9	0909	-0.7	-21	0941	-0.4	-12
1426	5.9	180	1530	5.8	177	1501	6.3	192	1537	5.7	174
2106	-0.5	-15	2149	-0.1	-3	2127	-0.4	-12	2157	0.4	12
5 Tu 0254	6.2	189	20 W 0346	6.1	186	5 Th 0314	7.0	213	20 F 0342	6.3	192
0933	-0.6	-18	1010	-0.6	-18	0959	-1.2	-37	1021	-0.6	-18
1521	6.4	195	1607	5.9	180	1554	6.7	204	1614	5.9	180
2154	-0.9	-27	2228	-0.1	-3	2216	-0.6	-18	2237	0.5	15
6 W 0341	6.7	204	21 Th 0417	6.2	189	6 F 0401	7.3	223	21 Sa 0415	6.4	195
1020	-1.2	-37	1048	-0.7	-21	1046	-1.6	-49	1100	-0.7	-21
1611	6.8	207	1640	6.1	186	1644	6.9	210	1648	6.0	183
2240	-1.1	-34	2305	0.0	0	● 2303	-0.6	-18	○ 2314	0.5	15
7 Th 0426	7.1	216	22 F 0446	6.3	192	7 Sa 0447	7.5	229	22 Su 0446	6.5	198
1105	-1.6	-49	1124	-0.8	-24	1133	-1.8	-55	1136	-0.7	-21
1658	7.0	213	1711	6.1	186	1731	6.9	210	1721	6.1	186
● 2324	-1.1	-34	○ 2340	0.1	3	2350	-0.5	-15	2349	0.7	21
8 F 0509	7.4	226	23 Sa 0515	6.4	195	8 Su 0531	7.5	229	23 M 0518	6.5	198
1150	-1.8	-55	1159	-0.8	-24	1220	-1.7	-52	1212	-0.7	-21
1744	7.0	213	1742	6.2	189	1818	6.8	207	1755	6.1	186
9 Sa 0009	-1.0	-30	24 Su 0014	0.3	9	9 M 0038	-0.2	-6	24 Tu 0024	0.8	24
0552	7.4	226	0544	6.4	195	0616	7.2	219	0551	6.5	198
1236	-1.7	-52	1234	-0.7	-21	1307	-1.5	-46	1248	-0.5	-15
1830	6.9	210	1814	6.1	186	1905	6.5	198	1830	6.1	186
10 Su 0055	-0.7	-21	25 M 0046	0.6	18	10 Tu 0127	0.1	3	25 W 0100	1.0	30
0635	7.2	219	0614	6.4	195	0701	6.9	210	0627	6.4	195
1324	-1.5	-46	1308	-0.5	-15	1357	-1.1	-34	1325	-0.4	-12
1917	6.5	198	1848	6.0	183	1953	6.2	189	1908	6.1	186
11 M 0144	-0.2	-6	26 Tu 0119	0.8	24	11 W 0219	0.5	15	26 Th 0139	1.1	34
0720	6.8	207	0648	6.2	189	0749	6.4	195	0708	6.3	192
1415	-1.1	-34	1344	-0.2	-6	1449	-0.6	-18	1406	-0.2	-6
2007	6.1	186	1926	5.9	180	2045	5.8	177	1952	6.0	183
12 Tu 0238	0.2	6	27 W 0154	1.1	34	12 Th 0316	0.8	24	27 F 0226	1.2	37
0809	6.3	192	0727	6.1	186	0841	5.9	180	0754	6.1	186
1511	-0.6	-18	1426	0.0	0	1546	-0.1	-3	1455	0.1	3
2103	5.6	171	2009	5.7	174	2142	5.5	168	2041	6.0	183
13 W 0337	0.7	21	28 Th 0240	1.3	40	13 F 0416	1.0	30	28 Sa 0325	1.3	40
0905	5.8	177	0813	5.8	177	0941	5.4	165	0849	5.8	177
1613	-0.1	-3	1518	0.3	9	1646	0.3	9	1553	0.3	9
● 2208	5.2	158	2100	5.5	168	● 2244	5.3	162	2137	5.9	180
14 Th 0443	1.0	30	29 F 0344	1.5	46	14 M 0520	1.1	34	29 Sa 0434	1.2	37
1011	5.3	162	0909	5.5	168	1050	5.1	155	0954	5.6	171
1719	0.2	6	1622	0.5	15	1747	0.5	15	1658	0.5	15
2322	5.0	152	● 2201	5.4	165	2349	5.3	162	● 2241	5.9	180
15 F 0551	1.0	30	30 Sa 0501	1.5	46	15 W 0622	0.9	27	30 M 0544	0.9	27
1129	5.0	152	1017	5.3	162	1204	5.0	152	1108	5.4	165
1825	0.3	9	1732	0.5	15	1846	0.6	18	1805	0.5	15
			2310	5.4	165				2348	6.1	186
									31 Tu 0651	0.5	15
									1226	5.5	168
									1908	0.4	12

Time meridian 67° 30' W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to the chart datum of soundings.

Punta Gorda, Venezuela, 2016

Times and Heights of High and Low Waters

July				August				September							
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height				
1 F 0129 0828 1428 2043	6.7 -0.6 5.8 0.5	204 -18 177 15	204 186 186 37	16 Sa 0144 0840 1432 2056	5.9 0.2 5.3 1.2	180 6 162 37	1 M 0313 0957 1609 2213	6.9 -0.9 6.4 0.3	210 -27 195 9	16 Tu 0253 0944 1535 2201	6.5 -0.1 6.2 0.9	198 -3 189 27			
2 Sa 0229 0922 1528 2138	6.9 -1.0 6.1 0.3	210 -30 186 9	210 -3 171 34	17 Su 0234 0927 1520 2142	6.1 -0.1 5.6 1.1	186 -3 171 34	2 Tu 0402 1044 1652 2300	7.1 -1.0 6.6 0.2	216 -30 201 6	17 W 0338 1026 1615 2243	6.8 -0.4 6.6 0.6	207 -12 201 18			
				18 M 0318 1010 1602 2225	6.4 -0.4 5.9 0.9	195 -30 180 27	3 W 0446 1127 1731 2343	7.1 -1.0 6.7 0.1	216 -30 204 3	18 Th 0421 1106 1653 2324	7.1 -0.6 7.0 0.3	216 -18 213 9			
				19 Tu 0359 1051 1640 2306	6.6 -0.6 6.2 0.7	201 -18 189 21	4 Th 0526 1208 1806	7.1 -0.8 6.7	216 -24 204	19 F 0502 1145 1731	7.3 -0.7 7.3	223 -21 223			
				20 W 0438 1130 1717 2345	6.8 -0.7 6.4 0.6	207 -21 195 18	5 F 0025 0604 1247 1840	0.2 6.9 -0.5 6.7	6 Sa 0005 0544 1225 1811	0.1 7.4 -0.6 7.5	3 Sa 0000 0541 1218 1806	0.2 7.1 -0.1 7.1	235 -9 247		
5 Tu 1147 1750	7.2 -1.4 -43	219 201	201	20 W 1130 1717 1754	6.8 6.4 6.7	207 195 204	5 F 0025 0604 1247 1840	0.2 6.9 -0.5 6.7	20 Sa 0005 0544 1225 1811	0.1 7.4 -0.6 7.5	18 Su 1202 1747	7.7 -0.3 -9 8.1	235 -9 247		
6 W 1230 1831	0.1 7.1 -1.2 198	3 Th 1208 1754	0.3 -0.7	210 204	6.9 6.7	207 195	6 Sa 0106 0640 1325 1912	0.3 6.7 -0.2 6.6	21 Su 0048 0627 1306 1852	0.0 7.3 -0.4 7.6	21 Tu 0114 0647 1328 1906	0.4 6.8 0.7 6.9	20 Tu 0115 0700 1331 1913	-0.3 7.3 0.3 7.9	-9 223 9 241
7 Th 1313 1910	0.2 6.9 -0.9 195	6 22 F 1247 1833	0.5 -0.7	15 15	0.5 -21	15 Su 0147 0716 1404 1946	0.5 6.5 0.3 6.5	22 M 0134 0713 1351 1936	0.0 7.0 0.0 7.5	22 W 0235 0801 1443 2017	0.9 6.2 1.6 6.5	22 Th 0304 0847 1523 2057	0.3 6.4 1.4 7.0	9 195 43 213	
8 F 1356 1949	0.4 6.5 -0.5 192	12 23 Sa 1328 1914	0.4 -0.5	12 210	0.4 -15	12 M 0230 0755 1444 2023	0.7 6.1 0.7 6.3	23 Tu 0226 0804 1442 2024	0.1 6.7 0.5 7.2	23 Th 0324 0846 1532 2103	1.2 5.8 2.0 6.2	23 F 0409 0955 1631 2203	0.6 6.0 1.7 6.6	18 52 201	
9 Sa 1440 2028	0.6 6.2 0.0 186	18 24 Su 1412 1959	0.4 -0.2	18 210	0.4 -6	18 Tu 0317 0838 1530 2105	0.9 5.8 1.2 6.1	24 W 0324 0901 1541 2120	0.4 6.2 1.0 6.9	24 O 0423 0941 1637 2159	1.4 5.5 2.3 6.0	24 Sa 0519 1116 1744 2321	0.8 5.7 1.9 6.3	24 22 192	
10 Su 0831 1527 2111	0.8 5.8 0.5 180	24 25 M 0818 1503 2049	0.4 0.2 0.8	12 207	1.1 6.6 6.8	10 W 0410 0928 1623 2153	1.1 5.4 1.6 5.9	25 Th 0430 1010 1649 2225	0.5 5.7 1.4 6.6	10 Sa 0529 1049 1750 2307	1.5 5.3 2.4 5.9	25 Su 0628 1241 1853	0.8 5.8 1.7	24 52	
11 M 1617 2158	0.9 0.9 5.8	25 26 Tu 0917 1603 2145	0.5 0.6 6.6	15 201	1.2 1.9 201	11 Th 0510 1028 1725 2251	1.2 5.1 1.9 5.7	26 F 0541 1131 1801 2340	0.6 5.5 1.5 6.4	11 Su 0634 1206 1857	1.3 5.3 2.2	26 M 0042 0731 1352 1955	6.3 0.6 6.1 1.4	192 18 186 43	
12 Tu 1713 2252	1.0 1.2 5.6	26 27 W 1026 1709 2249	0.5 0.9 6.5	15 171 171 198	1.5 27 5.7	12 F 0612 1138 1830 2357	1.1 5.0 1.9 5.7	27 Sa 0650 1256 1911 2174	0.4 5.6 1.4 174	12 M 0021 0734 1317 1957	5.9 1.0 5.6 1.9	27 Tu 0152 0827 1447 2048	6.5 0.4 6.5 1.0	198 12 198 30	
13 W 1812 2350	0.9 1.4 5.6	28 28 Th 1145 1819	0.4 1.1	15 171	12 34	13 Sa 0713 1251 1931	0.9 5.1 1.8	28 Su 0057 0753 1409 2013	6.4 0.2 5.9 1.2	13 Tu 0129 0827 1416 2048	6.2 0.6 6.1 1.4	28 W 0248 0915 1529 2135	6.8 0.2 6.8 0.6	207 6 207 18	
14 Th 1910	0.8 4.9 1.5	29 29 F 0709 1306 1926	0.4 5.5 1.0	15 171 171 198	1.1 168 168 207	14 Su 0103 0808 1356 2027	5.9 0.6 5.3 1.6	29 M 0206 0849 1507 2108	6.6 -0.2 6.3 0.8	14 W 0226 0914 1504 2135	6.7 0.2 6.6 0.9	29 Th 0333 0959 1605 2218	7.0 0.1 7.1 0.3	213 3 216 9	
15 F 1336	5.7 0.5 5.0	30 30 Sa 0111 0811 1419 2027	6.5 -0.3 5.7 0.8	15 174 174 24	1.1 198 174 24	15 M 0201 0858 1450 2116	6.1 0.2 5.7 1.3	30 Tu 0303 0939 1553 2156	6.9 -0.4 6.6 0.5	15 Th 0316 0958 1547 2219	7.1 -0.1 7.1 0.4	30 F 0412 1038 1636 2257	7.1 0.1 7.2 0.2	216 3 219 6	
		31 31 Su 0216 0907 1519 2123	6.7 -0.6 6.1 0.6	15 174 174 18	204 -18 186 18			31 W 0350 1023 1632 2240	7.1 -0.5 6.9 0.3						

Time meridian 67° 30' W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to the chart datum of soundings.

Punta Gorda, Venezuela, 2016

Times and Heights of High and Low Waters

October				November				December							
	Time	Height			Time	Height			Time	Height					
1 Sa	0446	7.2	219	16 Su	0429	7.7	235	1 Tu	0526	6.9	210	16 W	0549	7.4	226
	1115	0.2	6		1057	-0.2	-6		1157	1.0	30		1210	0.2	6
	1705	7.3	223		1643	8.3	253		1732	7.3	223		1751	8.2	250
	2334	0.2	6		2325	-0.7	-21								
2 Su	0518	7.1	216	17 M	0515	7.8	238	2 W	0020	0.2	6	17 Th	0042	-1.0	-30
	1149	0.4	12		1141	-0.1	-3		0557	6.8	207		0636	7.2	219
	1733	7.3	223		1725	8.4	256		1229	1.2	37		1258	0.5	15
									1801	7.2	219		1837	7.9	241
3 M	0010	0.2	6	18 Tu	0011	-0.7	-21	3 Th	0055	0.4	12	18 F	0132	-0.6	-18
	0548	7.1	216		0601	7.7	235		0630	6.7	204		0725	6.9	210
	1223	0.7	21		1226	0.2	6		1302	1.5	46		1350	0.8	24
	1801	7.3	223		1808	8.3	253		1834	7.1	216		1925	7.4	226
4 Tu	0045	0.4	12	19 W	0058	-0.6	-18	4 F	0132	0.6	18	19 Sa	0225	-0.2	-6
	0620	6.9	210		0648	7.4	226		0706	6.5	198		0817	6.5	198
	1256	1.1	34		1314	0.6	18		1335	1.8	55		1446	1.2	37
	1830	7.2	219		1853	8.0	244		1910	6.9	210		2017	6.9	210
5 W	0121	0.6	18	20 Th	0149	-0.3	-9	5 Sa	0212	0.9	27	20 Su	0321	0.3	9
	0653	6.7	204		0738	7.0	213		0748	6.3	192		0915	6.1	186
	1328	1.4	43		1406	1.0	30		1415	2.0	61		1547	1.5	46
	1902	7.0	213		1942	7.6	232		1953	6.7	204		2115	6.3	192
6 Th	0159	0.9	27	21 F	0245	0.1	3	6 Su	0301	1.1	34	21 M	0422	0.6	18
	0730	6.5	198		0834	6.5	198		0836	6.1	186		1019	5.9	180
	1403	1.8	55		1505	1.5	46		1513	2.3	70		1651	1.6	49
	1939	6.8	207		2036	7.1	216		2044	6.4	195		2223	5.9	180
7 F	0243	1.2	37	22 Sa	0347	0.6	18	7 M	0402	1.3	40	22 Tu	0524	0.9	27
	0813	6.1	186		0938	6.1	186		0934	5.9	180		1127	5.8	177
	1446	2.2	67		1611	1.8	55		1629	2.3	70		1756	1.5	46
	2023	6.5	198		2141	6.5	198		2147	6.1	186		2337	5.7	174
8 Sa	0338	1.5	46	23 Su	0453	0.9	27	8 Tu	0509	1.4	43	23 W	0625	1.0	30
	0905	5.8	177		1053	5.9	180		1041	5.9	180		1233	5.9	180
	1550	2.5	76		1721	1.9	58		1744	2.1	64		1857	1.2	37
	2116	6.2	189		2257	6.2	189		2302	6.0	183		2346	5.7	174
9 Su	0444	1.6	49	24 M	0600	1.0	30	9 W	0615	1.2	37	24 Th	0049	5.7	174
	1008	5.6	171		1212	5.9	180		1153	6.1	186		0721	1.0	30
	1709	2.6	79		1829	1.7	52		1851	1.7	52		1330	6.1	186
	● 2223	6.0	183									1952	0.9	27	
10 M	0553	1.5	46	25 Tu	0017	6.1	186	10 Th	0020	6.1	186	25 F	0150	5.8	177
	1122	5.6	171		0702	0.9	27		0715	1.0	30		0813	0.9	27
	1822	2.4	73		1321	6.2	189		1258	6.5	198		1417	6.3	192
	2340	6.0	183		1930	1.4	43		1950	1.0	30		2041	0.5	13
11 Tu	0656	1.3	40	26 W	0128	6.2	189	11 F	0130	6.4	195	26 Sa	0241	6.0	183
	1236	5.9	180		0758	0.8	24		0810	0.6	18		0859	0.8	24
	1925	1.9	58		1414	6.5	198		1356	7.0	213		1457	6.5	198
					2023	1.0	30		2044	0.4	12		2126	0.2	6
12 W	0055	6.3	192	27 Th	0225	6.4	195	12 Sa	0230	6.8	207	27 Tu	0323	6.2	189
	0752	0.9	27		0846	0.6	18		0901	0.3	9		0942	0.7	21
	1338	6.4	195		1457	6.8	207		1448	7.5	229		1533	6.7	204
	2020	1.3	40		2110	0.6	18		2133	-0.3	-9		2207	0.0	0
13 Th	0158	6.7	204	28 F	0310	6.6	201	13 Su	0324	7.2	219	28 W	0400	6.3	192
	0842	0.5	15		0930	0.5	15		0950	0.1	3		1021	0.7	21
	1430	7.0	213		1533	7.0	213		1536	7.9	241		1607	6.9	210
	2109	0.7	21		2153	0.3	9		2221	-0.8	-24		2246	-0.2	-6
14 F	0253	7.1	216	29 Sa	0349	6.8	207	14 M	0414	7.4	226	29 Tu	0434	6.4	195
	0929	0.2	6		1010	0.5	15		1036	0.0	0		1059	0.8	24
	1517	7.5	229		1605	7.2	219		1622	8.2	250		1638	6.9	210
	2156	0.1	3		2232	0.1	3		○ 2308	-1.0	-30		● 2323	-0.2	-6
15 Sa	0343	7.5	229	30 Su	0423	6.9	210	15 Tu	0502	7.5	229	30 W	0507	6.4	195
	1014	-0.1	-3		1047	0.6	18		1123	0.0	0		1134	0.9	27
	1600	8.0	244		1635	7.3	223		1706	8.3	253		1709	7.0	213
	○ 2240	-0.4	-12		● 2309	0.1	3		2355	-1.1	-34		2359	-0.2	-6
31 Sa	0455	6.9	210	31 M	1123	0.7	21								
					1703	7.3	223								
					2345	0.1	3								

Time meridian 67° 30' W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.
Heights are referred to the chart datum of soundings.

Suriname River Entrance, Suriname, 2016

Times and Heights of High and Low Waters

January				February				March			
Time	Height	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 F 0251	1.8	55	16 Sa 0302	1.2	37	1 M 0344	2.1	64	16 Tu 0434	2.2	67
0905	6.6	201	0917	7.2	219	0958	6.5	198	1051	6.6	201
1516	2.1	64	1533	1.4	43	1617	2.1	64	1719	2.0	61
2128	6.5	198	● 2148	7.0	213	2233	6.2	189	2341	6.2	189
2 Sa 0344	2.1	64	17 Su 0402	1.6	49	2 Tu 0445	2.4	73	17 W 0551	2.4	73
1001	6.4	195	1020	7.0	213	1102	6.3	192	1209	6.5	198
1615	2.3	70	1640	1.6	49	1726	2.2	67	1839	2.0	61
● 2229	6.3	192	2257	6.7	204	2344	6.1	186	2256	6.1	186
3 Su 0444	2.2	67	18 M 0510	1.9	58	3 W 0555	2.5	76	18 Th 0100	6.2	189
1102	6.3	192	1128	6.9	210	1213	6.4	195	0708	2.4	73
1720	2.3	70	1752	1.7	52	1837	2.1	64	1324	6.6	201
2334	6.2	189							1949	1.8	55
4 M 0547	2.3	70	19 Tu 0010	6.6	201	4 Th 0056	6.2	189	19 F 0207	6.5	198
1205	6.4	195	0620	2.0	61	0705	2.3	70	0814	2.1	64
1824	2.1	64	1238	6.9	210	1320	6.6	201	1426	6.9	210
			1903	1.6	49	1943	1.8	55	2046	1.5	46
5 Tu 0038	6.3	192	20 W 0120	6.6	201	5 F 0159	6.6	201	20 Sa 0300	6.8	207
0648	2.2	67	0727	1.9	58	0806	2.0	61	0905	1.7	52
1303	6.6	201	1342	7.1	216	1418	7.0	213	1516	7.2	219
1923	1.9	58	2005	1.4	43	2039	1.4	43	2132	1.2	37
6 W 0136	6.5	198	21 Th 0220	6.8	207	6 Sa 0253	7.0	213	21 Su 0343	7.2	219
0743	2.0	61	0826	1.7	52	0858	1.5	46	0948	1.3	40
1356	6.9	210	1439	7.3	223	1509	7.5	229	1558	7.5	229
2015	1.5	46	2059	1.1	34	2127	0.9	27	2211	1.0	30
7 Th 0227	6.8	207	22 F 0312	7.1	216	7 Su 0340	7.5	229	22 M 0420	7.5	229
0832	1.7	52	0916	1.4	43	0945	1.0	30	1026	1.0	30
1443	7.3	223	1527	7.6	232	1556	8.0	244	1635	7.8	238
2101	1.1	34	2146	0.9	27	2212	0.5	15	○ 2246	0.8	24
8 F 0313	7.1	216	23 Sa 0357	7.3	223	8 M 0423	7.9	241	23 Tu 0454	7.7	235
0917	1.4	43	1000	1.2	37	1029	0.6	18	1100	0.8	24
1527	7.6	232	1611	7.8	238	1640	8.3	253	1709	7.9	241
2145	0.8	24	○ 2227	0.8	24	● 2255	0.1	3	2319	0.7	21
9 Sa 0356	7.4	226	24 Su 0437	7.5	229	9 Tu 0505	8.2	250	24 W 0526	7.8	238
0959	1.1	34	1041	1.0	30	1112	0.3	9	1133	0.6	18
1609	8.0	244	1651	7.9	241	1723	8.6	262	1742	8.0	244
● 2227	0.5	15	2305	0.7	21	2336	0.0	0	2351	0.7	21
10 Su 0438	7.7	235	25 M 0514	7.6	232	10 W 0546	8.4	256	25 Th 0558	7.9	241
1041	0.9	27	1118	0.9	27	1154	0.1	3	1206	0.6	18
1651	8.2	250	1728	7.9	241	1805	8.6	262	1815	7.9	241
2308	0.3	9	2342	0.7	21						
11 M 0519	7.9	241	26 Tu 0550	7.6	232	11 Th 0018	0.0	0	26 F 0023	0.7	21
1123	0.7	21	1155	0.9	27	0628	8.4	256	0630	7.8	238
1734	8.3	253	1804	7.9	241	1237	0.1	3	1239	0.7	21
2350	0.2	6				1849	8.4	256	1849	7.8	238
12 Tu 0601	7.9	241	27 W 0017	0.8	24	12 F 0101	0.3	9	27 Sa 0056	0.9	27
1206	0.6	18	0625	7.6	232	0711	8.2	250	0648	8.5	259
1817	8.3	253	1231	1.0	30	1322	0.4	12	1302	0.0	0
			1841	7.7	235	1935	8.1	247	1924	7.5	229
13 W 0034	0.3	9	28 Th 0052	0.9	27	13 Sa 0145	0.6	18	28 M 0131	1.2	37
0645	7.9	241	0701	7.5	229	0756	7.9	241	0739	7.4	226
1252	0.7	21	1308	1.1	34	1410	0.7	21	1351	1.2	37
1903	8.1	247	1918	7.5	229	2024	7.6	232	2003	7.1	216
14 Th 0119	0.5	15	29 F 0129	1.2	37	14 Su 0234	1.1	34	29 Tu 0209	1.6	49
0732	7.8	238	0738	7.3	223	0846	7.5	229	0819	7.1	216
1340	0.9	27	1347	1.3	40	1504	1.2	37	1434	1.5	46
1953	7.8	238	1958	7.2	219	2119	7.0	213	2048	6.7	204
15 F 0208	0.8	24	30 Sa 0209	1.5	46	15 M 0328	1.7	52	15 Tu 0258	1.8	55
0822	7.5	229	0819	7.0	213	0943	7.0	213	0911	6.9	210
1433	1.1	34	1430	1.6	49	1606	1.6	49	1535	1.7	52
2047	7.4	226	2042	6.9	210	● 2224	6.5	198	● 2155	6.4	195
			31 Su 0253	1.8	55				31 Th 0316	2.3	70
			0905	6.7	204				0930	6.5	198
			1519	1.9	58				1558	2.0	61
			● 2133	6.5	198				● 2221	6.1	186

Time meridian 52° 30' W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.

Heights are referred to the chart datum of soundings.

Seasonal variations in sea level have not been included in these predictions.

Suriname River Entrance, Suriname, 2016

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 <i>F</i>	0432	2.6 79	16	0009	6.0 183	1	0531	2.2 67	16	0031	6.3 192	1	0100	7.4 226		
	1049	6.3 192	<i>Sa</i>	0622	2.7 82	<i>Su</i>	1146	6.6 201	<i>M</i>	0645	2.3 70	<i>W</i>	0717	1.2 37		
	1720	2.1 64		1235	6.1 186		1809	1.7 52		1256	6.3 192		1331	7.3 223		
	2346	6.2 189		1857	2.2 67					1910	2.0 61		1941	1.1 34		
2 <i>Sa</i>	0559	2.5 76	17	0117	6.3 192	2	0031	6.8 207	17	0125	6.6 201	2	0156	7.8 238		
	1215	6.4 195	<i>Su</i>	0729	2.3 70	<i>M</i>	0646	1.8 55	<i>Tu</i>	0739	1.9 58	<i>Th</i>	0814	0.7 21		
	1841	1.9 58		1340	6.4 195		1259	7.0 213		1349	6.6 201		1427	7.6 232		
				1954	1.9 58		1916	1.4 43		1958	1.8 55		2034	0.9 27		
3 <i>Su</i>	0103	6.6 201	18	0209	6.7 204	3	0133	7.3 223	18	0210	7.0 213	3	0247	8.1 247		
	0715	2.0 61	<i>M</i>	0820	1.8 55	<i>Tu</i>	0748	1.2 37	<i>W</i>	0824	1.5 46	<i>F</i>	0905	0.4 12		
	1329	6.9 210		1429	6.8 207		1400	7.5 229		1433	6.9 210		1517	7.9 241		
	1948	1.4 43		2039	1.6 49		2012	0.9 27		2039	1.5 46		2123	0.7 21		
4 <i>M</i>	0204	7.2 219	19	0250	7.1 216	4	0226	7.9 241	19	0249	7.3 223	4	0334	8.4 256		
	0816	1.3 40	<i>Tu</i>	0901	1.4 43	<i>W</i>	0841	0.6 18	<i>Th</i>	0903	1.2 37	<i>Sa</i>	0952	0.1 3		
	1427	7.5 229		1509	7.2 219		1452	7.9 241		1512	7.2 219		1604	8.0 244		
	2042	0.9 27		2116	1.3 40		2101	0.5 15		2116	1.3 40		●	2208	0.6 18	
5 <i>Tu</i>	0255	7.8 238	20	0325	7.5 229	5	0313	8.3 253	20	0325	7.6 232	5	0419	8.5 259		
	0906	0.7 21	<i>W</i>	0936	1.0 30	<i>Th</i>	0928	0.1 3	<i>F</i>	0939	0.9 27	<i>Su</i>	1038	0.1 3		
	1518	8.1 247		1545	7.5 229		1540	8.3 253		1548	7.4 226		1649	8.0 244		
	2129	0.4 12		2150	1.0 30		2147	0.3 9		2151	1.1 34		2252	0.7 21		
6 <i>W</i>	0340	8.3 253	21	0358	7.7 235	6	0357	8.7 265	21	0359	7.8 238	6	0503	8.4 256		
	0952	0.1 3	<i>Th</i>	1009	0.7 21	<i>F</i>	1013	-0.2 -6	<i>Sa</i>	1013	0.7 21	<i>M</i>	1121	0.2 6		
	1603	8.5 259		1618	7.7 235		1625	8.4 256		1623	7.5 229		1733	7.8 238		
	2212	0.0 0		2222	0.9 27		●	2230	0.2 6		○	2225	1.1 34		2336	0.8 24
7 <i>Th</i>	0422	8.7 265	22	0429	7.9 241	7	0440	8.8 268	22	0433	7.9 241	7	0546	8.2 250		
	1035	-0.3 -9	<i>F</i>	1041	0.5 15	<i>Sa</i>	1056	-0.3 -9	<i>Su</i>	1048	0.6 18	<i>Tu</i>	1205	0.4 12		
	1646	8.7 265		1649	7.8 238		1708	8.4 256		1657	7.6 232		1817	7.6 232		
	● 2254	-0.1 -3	<i>O</i>	2253	0.8 24		2312	0.3 9		2259	1.0 30					
8 <i>F</i>	0503	8.9 271	23	0500	8.0 244	8	0521	8.7 265	23	0507	7.9 241	8	0019	1.1 34		
	1117	-0.4 -12	<i>Sa</i>	1112	0.4 12	<i>Su</i>	1139	-0.2 -6	<i>M</i>	1123	0.6 18	<i>W</i>	0629	7.9 241		
	1728	8.7 265		1721	7.8 238		1751	8.2 250		1733	7.5 229		1249	0.7 21		
	2334	0.0 0		2324	0.8 24		2354	0.6 18		2334	1.1 34		1901	7.3 223		
9 <i>Sa</i>	0543	8.8 268	24	0531	8.0 244	9	0603	8.4 256	24	0543	7.9 241	9	0104	1.4 43		
	1158	-0.3 -9	<i>Su</i>	1144	0.5 15	<i>M</i>	1222	0.2 6	<i>Tu</i>	1200	0.6 18	<i>Th</i>	0714	7.5 229		
	1810	8.5 259		1754	7.7 235		1834	7.8 238		1811	7.4 226		1334	1.1 34		
				2356	1.0 30							1947	7.0 213			
10 <i>Su</i>	0015	0.3 9	25	0603	7.9 241	10	0037	1.0 30	25	0012	1.2 37	10	0152	1.7 52		
	0624	8.6 262	<i>M</i>	1218	0.6 18	<i>Tu</i>	0646	8.0 244	<i>W</i>	0621	7.8 238	<i>F</i>	0803	7.1 216		
	1241	0.0 0		1829	7.5 229		1306	0.6 18		1240	0.8 24		1423	1.5 46		
	1853	8.0 244					1919	7.3 223		1852	7.3 223		2037	6.7 204		
11 <i>M</i>	0057	0.8 24	26	0031	1.2 37	11	0122	1.4 43	26	0055	1.4 43	11	0244	2.0 61		
	0707	8.1 247	<i>Tu</i>	0639	7.7 235	<i>W</i>	0732	7.5 229	<i>Th</i>	0705	7.5 229	<i>Sa</i>	0856	6.7 204		
	1325	0.5 15		1256	0.8 24		1354	1.2 37		1325	1.0 30		1516	1.9 58		
	1939	7.5 229		1908	7.2 219		2009	6.8 207		1939	7.1 216		2133	6.4 195		
12 <i>Tu</i>	0142	1.3 40	27	0110	1.5 46	12	0213	1.9 58	27	0143	1.6 49	12	0343	2.2 67		
	0752	7.5 229	<i>W</i>	0719	7.4 226	<i>Th</i>	0824	6.9 210	<i>F</i>	0755	7.3 223	<i>Su</i>	0956	6.4 195		
	1414	1.1 34		1339	1.1 34		1448	1.7 52		1417	1.3 40		1615	2.1 64		
	2029	6.8 207					2106	6.4 195		2034	6.9 210		●	2233	6.3 192	
13 <i>W</i>	0233	2.0 61	28	0157	1.8 55	13	0312	2.3 70	28	0241	1.8 55	13	0447	2.3 70		
	0845	6.9 210	<i>Th</i>	0808	7.1 216	<i>F</i>	0925	6.4 195	<i>Sa</i>	0854	7.0 213	<i>M</i>	1100	6.3 192		
	1511	1.7 52		1431	1.5 46		1551	2.1 64		1517	1.5 46		1716	2.2 67		
	2130	6.3 192		2049	6.6 201		●	2213	6.1 186		2137	6.7 204		2335	6.4 195	
14 <i>Th</i>	0336	2.5 76	29	0255	2.2 67	14	0423	2.6 79	29	0348	2.0 61	14	0551	2.3 70		
	0951	6.3 192	<i>F</i>	0908	6.7 204	<i>Sa</i>	1038	6.2 189	<i>Su</i>	1003	6.8 207	<i>Tu</i>	1203	6.3 192		
	1621	2.2 67		1535	1.8 55		1702	2.3 70		1626	1.6 49		1816	2.2 67		
	● 2246	6.0 183	<i>O</i>	2158	6.4 195		2325	6.1 186		●	2247	6.8 207				
15 <i>F</i>	0457	2.8 85	30	0408	2.3 70	15	0539	2.5 76	30	0502	1.9 58	15	0033	6.5 198		
	1113	6.1 186	<i>Sa</i>	1024	6.5 198	<i>Su</i>	1152	6.2 189	<i>M</i>	1117	6.8 207	<i>W</i>	0650	2.1 64		
	1743	2.4 73		1652	1.9 58		1811	2.2 67		1736	1.6 49		1301	6.4 195		
				2317	6.4 195					2356	7.0 213		1910	2.0 61		
										31	0613	1.6 49				
										<i>Tu</i>	1228	7.0 213		29	0541	1.5 46
										<i>Th</i>	1842	1.4 43		30	0027	7.2 219

Time meridian 52° 30' W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.

Heights are referred to the chart datum of soundings.

Seasonal variations in sea level have not been included in these predictions.

Suriname River Entrance, Suriname, 2016

Times and Heights of High and Low Waters

July				August				September			
Time	Height	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 F 0128	7.5	229	16 Sa 0132	6.7	204	1 M 0303	7.5	229	1 Th 0417	7.8	238
0750	1.0	30	0752	1.8	55	0923	1.0	30	1028	0.8	24
1404	7.2	219	1405	6.6	201	1535	7.3	223	1637	7.7	235
2011	1.3	40	2011	1.9	58	2140	1.3	40	2244	0.8	24
2 Sa 0224	7.7	235	17 Su 0223	7.0	213	2 0351	7.7	235	2 F 0453	7.9	241
0845	0.8	24	0842	1.5	46	1008	0.8	24	1102	0.7	21
1459	7.4	226	1454	6.9	210	1619	7.5	229	1710	7.9	241
2103	1.1	34	2058	1.7	52	● 2224	1.0	30	2318	0.6	18
3 Su 0316	7.9	241	18 M 0309	7.3	223	3 W 0434	7.9	241	3 Sa 0527	8.0	244
0936	0.6	18	0927	1.1	34	1049	0.7	21	1135	0.7	21
1548	7.5	229	1539	7.1	216	1659	7.6	232	1742	7.9	241
2152	1.0	30	2142	1.4	43	2304	0.9	27	2351	0.6	18
4 M 0403	8.1	247	19 Tu 0352	7.6	232	4 Th 0514	7.9	241	4 Su 0600	7.9	241
1022	0.5	15	1010	0.8	24	1128	0.7	21	1207	0.8	24
1634	7.6	232	1621	7.4	226	1736	7.7	235	1814	7.8	238
● 2237	0.9	27	○ 2224	1.1	34	2342	0.8	24	1822	8.6	262
5 Tu 0448	8.1	247	20 W 0434	7.9	241	5 F 0552	7.9	241	5 M 0024	0.7	21
1106	0.5	15	1051	0.6	18	1204	0.7	21	0634	7.7	235
1717	7.6	232	1701	7.6	232	1812	7.7	235	1240	1.0	30
2320	0.9	27	2306	0.9	27	○ 1804	8.3	253	1848	7.7	235
6 W 0531	8.0	244	21 Th 0516	8.1	247	6 Sa 0019	0.9	27	6 Tu 0059	0.9	27
1148	0.6	18	1132	0.4	12	0629	7.8	238	0709	7.5	229
1758	7.6	232	1742	7.8	238	1240	0.9	27	1315	1.2	37
			2348	0.7	21	1848	7.6	232	1923	7.4	226
7 Th 0002	1.0	30	22 F 0558	8.2	250	7 Su 0056	1.0	30	7 W 0136	1.2	37
0612	7.9	241	1214	0.4	12	0706	7.6	232	0747	7.1	216
1229	0.8	24	1824	7.9	241	1317	1.1	34	1354	1.6	49
1839	7.4	226				1925	7.4	226	2003	7.1	216
8 F 0044	1.2	37	23 Sa 0031	0.7	21	8 M 0135	1.2	37	8 Th 0218	1.5	46
0654	7.6	232	0642	8.1	247	0745	7.3	223	0831	6.7	204
1310	1.0	30	1257	0.5	15	1355	1.4	43	1438	2.0	61
1920	7.2	219	1908	7.8	238	2005	7.1	216	2049	6.7	204
9 Sa 0126	1.4	43	24 Tu 0117	0.7	21	9 Tu 0216	1.5	46	9 F 0309	1.9	58
0737	7.3	223	0729	7.9	241	0828	7.0	213	0925	6.3	192
1352	1.3	40	1343	0.7	21	1437	1.7	52	1533	2.4	73
2003	7.0	213	1955	7.7	235	2048	6.8	207	● 2147	6.3	192
10 Su 0211	1.6	49	25 M 0206	0.9	27	10 W 0302	1.8	55	10 Th 0413	2.2	67
0822	7.0	213	0819	7.6	232	0916	6.6	201	0934	6.0	183
1436	1.6	49	1433	1.0	30	1526	2.1	64	1645	2.7	82
2049	6.8	207	2046	7.5	229	● 2139	6.6	201	2302	6.2	189
11 M 0259	1.8	55	26 Tu 0301	1.1	34	11 Th 0357	2.1	64	11 Su 0531	2.3	70
0911	6.7	204	0915	7.3	223	1012	6.3	192	0701	2.0	61
1525	1.9	58	1528	1.4	43	1623	2.4	73	1322	6.4	195
● 2140	6.6	201	○ 2143	7.2	219	2239	6.3	192	1932	2.2	67
12 Tu 0353	2.1	64	27 W 0402	1.4	43	12 F 0501	2.2	67	12 M 0022	6.3	192
1006	6.4	195	1018	6.9	210	1119	6.1	186	0648	2.1	64
1620	2.1	64	1630	1.7	52	1730	2.5	76	1308	6.3	192
2236	6.5	198	2248	7.0	213	2347	6.3	192	1918	2.2	67
13 W 0453	2.2	67	28 Th 0510	1.6	49	13 F 0612	2.2	67	28 M 0050	6.6	201
1107	6.3	192	1128	6.7	204	1231	6.1	186	0717	1.8	55
1719	2.3	70	1739	1.9	58	1840	2.4	73	1336	6.5	198
2336	6.4	195	2357	6.9	210				1944	2.1	64
14 Th 0555	2.2	67	29 F 0622	1.6	49	14 Su 0056	6.4	195	14 Th 0157	6.9	210
1210	6.3	192	1241	6.7	204	0719	2.0	61	29 W 0819	1.5	46
1820	2.3	70	1849	1.9	58	1336	6.4	195	M 1434	6.8	207
15 F 0036	6.5	198	30 Sa 0106	7.0	213	1944	2.2	67	2041	1.7	52
0656	2.0	61	0731	1.4	43				● 2105	1.1	34
1310	6.4	195	1347	6.8	207				14 W 0227	7.2	219
1918	2.1	64	1954	1.8	55				0843	1.1	34
			31 Su 0208	7.2	219				14 Th 0843	1.1	34
			0831	1.2	37				1537	7.5	229
			1445	7.0	213				2146	0.9	27
			2051	1.5	46						

Time meridian 52° 30' W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.

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Suriname River Entrance, Suriname, 2016

Times and Heights of High and Low Waters

October				November				December			
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height
1 Sa 0428 0.7 21	7.9 241	16 Su 0420 0.0 0	8.6 262	1 Tu 0504 1106 1713	7.7 0.9 8.0 235 244	16 W 1130 1740 2358	8.3 0.4 8.6 253 262	1 Th 0516 1118 1726	7.5 1.1 7.9 229 241	16 F 1159 1810	7.8 8.2 238 250
1641 8.0 244		1637 8.9 271		2251 0.5 15	0.4 -12	2327 0.5 15	0.0 0	2342 0.7 21			
2 Su 0500 0.7 21	7.9 241	17 M 0502 1108 1717	8.7 0.0 8.9 265 271	2 W 0537 1138 1746	7.6 1.0 7.9 232 241	17 Th 0611 1213 1824	8.0 0.8 8.2 244 250	2 F 0552 1154 1803	7.4 1.2 7.7 226 235	17 Sa 0029 0640 1244	0.5 7.5 1.1 229 238
1711 8.0 244		2333 0.4 12	-0.4 -12							1855 7.8 238	
2322 0.4 12											
3 M 0531 0.8 21	7.9 241	18 Tu 0545 1149 1759	8.5 0.2 8.7 259 265	3 Th 0001 0611 1213	0.7 7.5 1.2 21 229	18 F 0044 0657 1300 1910	0.4 7.5 1.2 212 235	3 Sa 0020 0632 1234	0.8 7.3 1.4 24 43	18 Su 0114 0726 1331	0.9 7.2 1.5 219 223
1135 0.8 244				1820 7.7 235				1843 7.5 229		1942 7.3 223	
1742 0.5 15											
2354 0.5 15											
4 Tu 0603 0.9 27	7.8 238	19 W 0016 0628 1232	-0.1 8.1 0.6 247 18	4 F 0037 0648 1250	0.9 7.2 1.5 27 46	19 Sa 0132 0747 1350	0.9 7.0 1.7 27 52	4 Su 0102 0715 1319	1.0 7.1 1.6 30 49	19 M 0201 0815 1421	1.3 6.9 1.8 40 55
1207 0.9 27		1842 7.8 238		1859 7.4 226		2002 7.1 216		1930 7.3 223		2033 6.9 210	
1814 7.8 238											
5 W 0027 0.7 21	0.7 21	20 Th 0101 0714 1318	0.3 7.6 1.2 232 37	5 Sa 0119 0732 1335	1.2 6.9 1.9 37 58	20 Su 0226 0843 1449	1.5 6.6 2.2 46 67	5 M 0150 0805 1411	1.3 6.9 1.8 40 55	20 Tu 0252 0908 1518	1.7 6.6 2.1 52 64
0637 7.5 229		1928 7.6 232		1945 7.0 213		2102 6.6 201		2024 7.0 213		2131 6.5 198	
1240 1.2 37											
1848 7.6 232											
6 Th 0102 0.7 21	1.0 30	21 F 0150 0805 1409	0.9 7.0 1.8 213 55	6 Su 0208 0824 1429	1.6 6.5 2.2 49 67	21 M 0328 0949 1559	1.9 6.3 2.5 58 76	6 Tu 0246 0904 1514	1.5 6.7 2.0 46 61	21 W 0349 1007 1621	2.0 6.4 2.3 61 70
0714 7.2 219		2021 7.2 219		2042 6.7 204		22 O 2213 6.3 192		2128 6.8 207		2235 6.3 192	
1317 1.6 49											
1925 7.2 219											
7 F 0143 0.8 21	1.4 43	22 Sa 0247 0906 1512	1.5 6.5 2.3 198 70	7 M 0309 0930 1539	1.9 6.3 2.4 58 73	22 Tu 0438 1102 1715	2.2 6.2 2.5 67 76	7 W 0350 1011 1625	1.7 6.7 2.0 52 61	22 Th 0452 1111 1727	2.2 6.3 2.3 67 70
0756 6.8 207		2127 6.5 198		2155 6.4 195		2329 6.2 189		2240 6.7 204		2341 6.2 189	
1400 2.0 61											
2011 6.8 207											
8 Sa 0232 0.8 21	1.8 55	23 Su 0357 1021 1632	2.0 6.1 2.6 186 79	8 Tu 0422 1047 1700	2.0 6.3 2.3 61 70	23 W 0549 1210 1825	2.2 6.3 2.3 67 70	8 Th 0501 1121 1739	1.7 6.8 1.8 52 55	23 F 0555 1212 1830	2.3 6.4 2.2 70 67
0849 6.4 195		2248 6.2 189		2315 6.5 198				2354 6.8 207			
1455 2.4 73											
2108 6.4 195											
9 Su 0336 0.9 21	2.1 64	24 M 0518 1144 1757	2.2 6.1 2.6 186 79	9 W 0539 1201 1816	1.9 6.6 2.0 58 61	24 Th 0036 0650 1306	6.3 2.1 6.6 192 201	9 F 0609 1228 1846	1.6 7.2 1.4 49 43	24 Sa 0043 0653 1308	6.3 2.2 6.6 192 201
0958 6.1 186		2224 6.2 189		1921 2.0 61		1921 2.0 61		1926 1.9 58			
1608 2.6 79											
2224 6.2 189											
10 M 0455 0.9 21	2.2 67	25 Tu 0010 0633 1254	6.2 2.1 6.4 189 195	10 Th 0030 0647 1305	6.8 1.5 7.1 207 216	25 F 0131 0740 1353	6.6 1.8 6.9 201 210	10 Sa 0100 0711 1327	7.1 1.3 7.6 216 232	25 Tu 0138 0745 1357	6.5 2.0 6.9 198 210
1121 6.1 186		1907 2.2 67		1920 1.4 43		2008 1.6 43		1946 0.9 27		2015 1.6 49	
1734 2.6 79											
2349 6.3 192											
11 Tu 0615 0.9 21	2.0 61	26 W 0117 0733 1348	6.5 1.9 6.7 198 204	11 F 0132 0744 1359	7.3 1.1 7.7 223 235	26 Sa 0217 0823 1434	6.9 1.6 7.3 210 223	11 Su 0159 0807 1421	7.5 1.0 8.0 229 244	26 M 0225 0830 1441	6.7 1.8 7.2 204 219
1238 6.4 195		2000 1.8 55		2014 0.8 24		2048 1.3 40		2039 0.5 15		2058 1.3 40	
1850 2.1 64											
12 W 0103 0.7 21	6.7 204	27 Th 0209 0819 1431	6.8 1.6 7.1 207 216	12 Sa 0225 0834 1447	7.8 0.7 8.2 238 250	27 Su 0257 0901 1510	7.1 1.4 7.5 216 229	12 M 0252 0858 1510	7.8 0.7 8.3 238 253	27 Tu 0308 0911 1521	7.0 1.5 7.4 213 226
0722 1.6 49		2042 1.4 43		2102 0.2 6		2124 1.0 30		2129 0.1 3		2137 1.1 34	
1339 7.0 213											
1950 1.5 46											
13 Th 0202 0.8 21	7.3 223	28 F 0251 0858 1507	7.2 1.3 7.5 219 229	13 Su 0313 0920 1531	8.2 0.3 8.6 250 262	28 M 0333 0936 1545	7.3 1.2 7.7 223 235	13 O 0341 0945 1557	8.0 0.6 8.5 244 259	28 W 0347 0950 1559	7.2 1.4 7.6 219 232
0815 1.0 30		2118 1.0 30		2147 -0.2 -6		2159 0.8 24		2215 0.0 0		2215 0.9 27	
1429 7.6 232											
2041 0.8 24											
14 F 0252 0.5 15	7.9 241	29 Sa 0327 0932 1540	7.5 1.0 7.8 229 238	14 M 0359 1004 1614	8.4 0.2 8.8 256 268	29 Tu 0408 1010 1618	7.5 1.1 7.9 229 241	14 W 0427 1031 1641	8.1 0.5 8.6 247 262	29 Th 0425 1027 1636	7.4 1.2 7.8 226 238
0902 0.5 15		2152 0.7 21		O 2231 -0.3 -9		● 2233 0.7 21		2300 0.0 0		2252 0.7 21	
1514 8.2 250											
2126 0.2 6											
15 Sa 0337 0.9 21	8.3 253	30 Su 0400 1004 1612	7.7 0.9 7.9 235 241	15 Tu 0443 1047 1657	8.4 0.2 8.8 256 268	30 W 0442 1043 1651	7.5 1.1 7.9 229 241	15 Th 0512 1115 1726	8.0 0.6 8.4 244 256	30 F 0502 1104 1713	7.5 1.1 7.9 229 241
0946 0.2 6		2224 0.5 15		2315 -0.3 -9		2307 0.6 18		2344 0.2 6		2329 0.6 18	
1556 8.6 262											
2209 -0.2 -6											
31 M 0432 1035 1642	7.8 0.8 8.0 238 244	2255 0.5 15									

Time meridian 52° 30' W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.

Heights are referred to the chart datum of soundings.

Seasonal variations in sea level have not been included in these predictions.

Recife, Brazil, 2016

Times and Heights of High and Low Waters

January				February				March			
Time	Height	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 F 0239	2.3	70	16 Sa 0241	1.6	50	1 M 0323	3.0	90	1 Tu 0447	2.6	80
0847	5.9	180	0853	6.6	200	0941	5.6	170	1049	5.9	180
1500	2.6	80	1504	2.0	60	1600	3.0	90	1728	2.3	70
2108	5.9	180	● 2121	6.6	200	● 2211	5.6	170	2339	5.9	180
2 Sa 0339	2.6	80	17 Su 0353	2.0	60	2 Tu 0439	3.0	90	17 W 0608	2.6	80
0947	5.6	170	1000	6.2	190	1053	5.6	170	1208	6.2	190
1608	3.0	90	1621	2.3	70	1721	3.0	90	1847	2.0	60
● 2211	5.6	170	2238	6.6	200	2326	5.6	170	2241	5.6	170
3 Su 0447	2.6	80	18 M 0509	2.3	70	3 W 0556	3.0	90	18 Th 0053	6.2	190
1051	5.6	170	1113	6.2	190	1200	5.9	180	0713	2.3	70
1719	3.0	90	1743	2.0	60	1832	2.6	80	1311	6.6	200
2315	5.6	170	2354	6.6	200	1945	1.6	50	1945	1.6	50
4 M 0551	2.6	80	19 Tu 0621	2.0	60	4 Th 0034	5.9	180	19 F 0149	6.6	200
1153	5.9	180	1223	6.6	200	0656	2.3	70	0804	2.0	60
1819	2.6	80	1854	1.6	50	1258	6.2	190	1402	6.9	210
5 Tu 0015	5.9	180	20 W 0100	6.6	200	1924	2.0	60	2032	1.3	40
0643	2.3	70	0721	2.0	60	5 F 0126	6.6	200	0232	6.9	210
1245	6.2	190	1321	6.9	210	0747	2.0	60	0845	1.6	50
1908	2.3	70	1951	1.3	40	1347	6.9	210	1445	7.2	220
6 W 0106	6.2	190	21 Th 0156	6.9	210	2009	1.6	50	2109	1.0	30
0728	2.0	60	0811	1.6	50	6 Sa 0213	6.9	210	0100	6.2	190
1330	6.6	200	1411	7.2	220	0828	1.6	50	0717	2.3	70
1953	2.0	60	2039	1.0	30	1432	7.5	230	1319	6.9	210
7 Th 0154	6.6	200	21 Th 0243	7.2	220	2054	1.0	30	1947	1.3	40
0809	1.6	50	0856	1.3	40	7 Su 0300	7.5	230	0232	6.2	190
1411	6.9	210	1456	7.5	230	0909	1.0	30	0100	6.6	200
2032	1.3	40	2121	0.7	20	1513	7.9	240	0726	1.6	50
8 F 0236	7.2	220	23 Sa 0324	7.2	220	2136	0.3	10	0845	1.6	50
0849	1.3	40	0936	1.0	30	● 2215	0.0	0	1445	7.2	220
1454	7.5	230	Sa 1538	7.9	240	● 2215	0.0	0	2109	1.0	30
2111	1.0	30	O 2200	0.7	20	8 M 0343	7.9	240	0238	7.5	230
9 Sa 0317	7.5	230	23 W 0402	7.5	230	0951	0.7	20	0345	7.2	220
0928	1.0	30	1011	1.0	30	M 1558	8.2	250	0238	7.5	230
1534	7.9	240	1615	7.9	240	1558	7.9	240	0932	1.0	30
● 2153	0.7	20	2239	0.7	20	2136	0.3	10	Tu 1534	7.5	230
10 Su 0400	7.5	230	24 M 0402	7.5	230	● 2215	0.0	0	2153	1.0	30
1006	1.0	30	1051	1.0	30	9 Tu 0424	8.2	250	0319	7.2	220
1613	7.9	240	1656	7.9	240	1000	0.3	10	0930	0.3	10
2232	0.3	10	2315	0.7	20	1641	8.5	260	1026	1.0	30
11 M 0443	7.9	240	25 Su 0441	7.5	230	2300	0.0	0	1632	7.9	240
1049	0.7	20	1124	1.0	30	● 2215	0.0	0	2251	0.7	20
1658	8.2	250	1732	7.9	240	1113	0.3	10	● 2158	0.0	0
2313	0.3	10	2351	1.0	30	1113	0.3	10	2219	0.7	20
12 Tu 0524	7.9	240	26 Th 0515	7.5	230	1056	0.0	0	2311	0.3	10
1130	1.0	30	1200	1.3	40	0506	8.2	250	0421	7.5	230
1741	8.2	250	1809	7.5	230	1113	0.3	10	1002	1.0	30
13 W 0000	0.3	10	27 F 0554	7.2	220	1113	0.3	10	1539	8.5	260
0609	7.5	230	0632	6.9	210	1113	0.3	10	2158	0.0	0
1213	1.0	30	1238	1.6	50	1224	1.3	40	2219	0.7	20
1826	7.9	240	1849	6.9	210	1224	1.0	30	2311	0.3	10
14 Th 0047	0.7	20	28 F 0026	1.3	40	1224	1.0	30	0404	8.2	250
0658	7.2	220	0632	6.9	210	1224	1.0	30	1011	0.0	0
1302	1.3	40	1238	1.6	50	1224	1.0	30	1621	8.9	270
1917	7.5	230	1849	6.9	210	1224	1.0	30	2241	-0.3	-10
15 F 0139	1.3	40	29 M 0102	1.6	50	1224	1.0	30	0421	7.5	230
0753	6.9	210	0709	6.6	200	1224	1.0	30	1034	0.7	20
1358	1.6	50	1315	2.0	60	1224	1.0	30	1638	7.9	240
2015	7.2	220	1928	6.6	200	1224	1.0	30	2251	1.0	30
16 W 0000	0.3	10	28 Th 0026	1.3	40	1224	1.0	30	0454	7.5	230
0632	7.5	230	0632	6.9	210	1224	1.0	30	1104	1.0	30
1213	1.0	30	1238	1.6	50	1224	1.0	30	1709	7.5	230
1826	7.9	240	1849	6.9	210	1224	1.0	30	2319	1.0	30
17 M 0226	2.6	80	28 Su 0026	1.3	40	1224	1.0	30	0526	7.5	230
0632	7.5	230	0632	6.9	210	1224	1.0	30	1136	1.0	30
1213	1.0	30	1238	1.6	50	1224	1.0	30	1745	7.2	220
1826	7.9	240	1849	6.9	210	1224	1.0	30	2353	1.3	40
18 F 0047	0.7	20	29 F 0102	1.6	50	1224	1.0	30	0008	0.3	10
0658	7.2	220	0709	6.6	200	1224	1.0	30	0615	7.9	240
1302	1.3	40	1315	2.0	60	1224	1.0	30	1226	0.7	20
1917	7.5	230	1928	6.6	200	1224	1.0	30	1841	7.9	240
19 G 0047	0.7	20	29 Th 0102	1.6	50	1224	1.0	30	0008	0.3	10
0658	7.2	220	0709	6.6	200	1224	1.0	30	0615	7.9	240
1302	1.3	40	1315	2.0	60	1224	1.0	30	1226	0.7	20
1917	7.5	230	1928	6.6	200	1224	1.0	30	1841	7.9	240
20 H 0047	0.7	20	29 F 0102	1.6	50	1224	1.0	30	0008	0.3	10
0658	7.2	220	0709	6.6	200	1224	1.0	30	0615	7.9	240
1302	1.3	40	1315	2.0	60	1224	1.0	30	1226	0.7	20
1917	7.5	230	1928	6.6	200	1224	1.0	30	1841	7.9	240
21 I 0047	0.7	20	29 F 0102	1.6	50	1224	1.0	30	0008	0.3	10
0658	7.2	220	0709	6.6	200	1224	1.0	30	0615	7.9	240
1302	1.3	40	1315	2.0	60	1224	1.0	30	1226	0.7	20
1917	7.5	230	1928	6.6	200	1224	1.0	30	1841	7.9	240
22 J 0047	0.7	20	29 F 0102	1.6	50	1224	1.0	30	0008	0.3	10
0658	7.2	220	0709	6.6	200	1224	1.0	30	0615	7.9	240
1302	1.3	40	1315	2.0	60	1224	1.0	30	1226	0.7	20
1917	7.5	230	1928	6.6	200	1224	1.0	30	1841	7.9	240
23 K 0047	0.7	20	29 F 0102	1.6	50	1224	1.0	30	0008	0.3	10
0658	7.2	220	0709	6.6	200	1224	1.0	30	0615	7.9	240
1302	1.3	40	1315	2.0	60	1224	1.0	30	1226	0.7	20
1917	7.5	230	1928	6.6	200	1224	1.0	30	1841	7.9	240
24 L 0047	0.7	20	29 F 0102	1.6	50	1224	1.0	30	0008	0.3	10
0658	7.2	220	0709	6.6	200	1224	1.0	30	0615	7.9	240
1302	1.3	40	1315	2.0	60	1224	1.0	30	1226	0.7	20
1917	7.5	230	1928	6.6	200	1224	1.0	30	1841	7.9	240
25 M 0047	0.7	20	29 F 0102	1.6	50	1224	1.0	30	0008	0.3	10
0658	7.2	220	0709	6.6	200	1224	1.0	30	0615	7.9	240
1302	1.3	40	1315	2.0	60	1224	1.0	30	1226	0.7	20
1917	7.5	230	1928	6.6	200	1224	1.0	30	1841	7.9	240
26 N 0047	0.7	20	29 F 0102	1.6	50	1224	1.0	30	0008	0.3	10
0658	7.2	220	0709	6.6	200	1224	1.0	30	0615	7.9	240
1302	1.3	40	1315	2.0	60	1224	1.0	30	1226	0.7	20
1917	7.5	230	1928	6.6	200	1224	1.0	30	1841	7.9	240
27 O 0047	0.7	20	29 F 0102</td								

Recife, Brazil, 2016

Times and Heights of High and Low Waters

April				May				June											
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height								
1 F 0415 1034 1708 2323	h m 3.0 5.9 2.6 5.9	ft 90 180 80 180	cm 180 80 190 60	16 Sa 0011 0632 1230 1904	h m 5.9 2.6 6.2 2.0	ft 180 80 190 60	cm 80 70 60 60	1 Su 0504 1113 1749 2358	h m 2.6 6.2 2.0 6.2	ft 80 190 60 190	cm 180 70 60 60	16 W 0021 0643 1239 1908	h m 5.9 2.3 6.2 2.0	ft 180 70 190 60	cm 210 50 220 40	16 Th 0024 0643 1253 1915	h m 6.9 1.6 7.2 1.3	ft 210 50 220 40	cm 190 60 190 50
2 Sa 0543 1149 1823	2.6 6.2 2.0	80 190 60	17 Su 0106 0721 1319 1947	6.2 2.3 6.6 1.6	190 70 200 50	2 M 0613 1219 1849	2.0 6.9 1.3	60 210 40	17 Tu 0106 0724 1321 1947	6.2 2.0 6.6 2.0	190 60 200 60	2 Th 0119 0738 1347 2006	7.2 1.0 7.5 1.0	220 30 230 30	17 F 0145 0806 1404 2021	6.6 2.0 6.6 1.6	200 60 200 50		
3 Su 0030 0647 1251 1917	6.2 2.3 6.9 1.3	190 70 210 40	18 M 0147 0800 1358 2021	6.6 2.0 6.9 1.6	200 60 210 50	3 Tu 0056 0708 1315 1941	6.9 1.3 7.5 1.0	210 40 230 30	18 W 0143 0802 1400 2019	6.6 1.6 6.9 1.6	200 50 210 50	3 F 0209 0828 1438 2054	7.5 0.7 7.9 0.7	230 20 240 20	18 Sa 0221 0843 1443 2056	6.9 1.6 6.9 1.6	210 50 210 50		
4 M 0124 0739 1343 2006	6.9 1.6 7.5 0.7	210 50 220 20	19 Tu 0217 0834 1432 2053	6.9 1.6 7.2 1.3	210 50 220 40	4 W 0147 0800 1406 2026	7.5 1.0 7.9 0.3	230 30 240 10	19 Th 0217 0836 1436 2051	6.9 1.6 6.9 1.3	210 50 210 40	4 Sa 0258 0917 1524 2141	8.2 0.3 8.2 0.7	250 10 250 20	19 Su 0300 0917 1521 2134	7.2 1.3 7.2 1.3	220 40 220 40		
5 Tu 0211 0823 1430 2053	7.5 0.7 8.2 0.3	230 20 250 10	20 W 0251 0904 1504 2121	7.2 1.3 7.2 1.0	220 40 220 30	5 Th 0232 0847 1456 2111	7.9 0.3 8.5 0.3	240 10 260 10	20 F 0253 0908 1508 2121	7.2 1.3 7.2 1.3	220 40 220 40	5 Su 0345 1004 1613 2226	8.2 0.0 8.2 0.7	250 0 250 20	20 M 0339 0956 1600 2209	7.5 1.0 7.2 1.3	230 30 220 40		
6 W 0258 0908 1515 2136	8.2 0.3 8.5 0.0	250 250 260 0	21 Th 0321 0936 1538 2151	7.5 1.0 7.5 1.0	230 30 230 30	6 F 0317 0934 1543 2158	8.2 0.0 8.5 0.0	250 0 260 0	21 Sa 0324 0941 1545 2154	7.5 1.0 7.2 1.3	230 30 220 40	6 M 0430 1054 1700 2311	8.2 0.3 7.9 0.7	250 30 240 20	21 Tu 0415 1034 1641 2249	7.5 1.0 7.2 1.3	230 30 220 40		
7 Th 0341 0953 1602 ● 2217	8.5 0.0 8.9 -0.3	260 0 270 -10	22 F 0354 1006 1609 ○ 2221	7.5 1.0 7.5 1.0	230 30 230 30	7 Sa 0402 1019 1630 2243	8.5 0.0 8.5 0.3	260 0 260 10	22 W 0400 1013 1621 2228	7.5 1.0 7.2 1.3	230 30 220 40	7 Tu 0517 1141 1751 2358	8.2 0.3 7.5 1.0	250 10 230 30	22 W 0456 1111 1723 2326	7.5 1.0 7.2 1.3	230 30 220 40		
8 F 0423 1038 1649 2302	8.5 -0.3 8.9 0.0	260 -10 270 0	23 Sa 0424 1038 1645 2253	7.5 1.0 7.5 1.0	230 30 230 30	8 Su 0449 1106 1717 2330	8.2 0.0 8.2 0.7	250 0 250 20	23 M 0438 1051 1658 2304	7.5 1.0 7.2 1.3	230 30 220 40	8 W 0604 1232 1839	7.9 1.0 6.9	240 30 210	23 Th 0538 1154 1806	7.5 1.0 7.2	230 30 220		
9 Sa 0508 1123 1736 2349	8.5 0.0 8.5 0.3	260 0 260 10	24 Su 0500 1109 1717 2324	7.5 1.0 7.2 1.3	230 30 220 40	9 M 0536 1156 1806	8.2 0.3 7.5	250 10 230	24 Tu 0513 1126 1739 2341	7.2 1.3 7.2 1.6	220 40 220 50	9 Th 0049 0656 1323 1928	1.6 7.2 1.3 6.6	50 220 40 200	24 F 0008 0621 1239 1854	1.6 7.2 1.3 6.9	50 220 40 210		
10 Su 0554 1209 1823	8.2 0.3 7.9	260 250 240	25 M 0536 1145 1756 2358	7.2 1.3 6.9 1.6	220 220 220 50	10 Tu 0017 0624 1249 1900	1.0 7.5 1.0 7.2	30 30 30 220	25 W 0554 1206 1821	7.2 1.3 6.9	220 40 210	10 F 0141 0749 1419 2024	2.0 6.9 2.0 6.2	60 210 60 190	25 Sa 0056 0709 1330 1947	1.6 7.2 1.3 6.6	50 220 40 200		
11 M 0038 0645 1304 1917	1.0 7.5 1.0 7.2	30 260 260 220	26 Tu 0609 1219 1838	6.9 1.6 6.6	210 50 200	11 W 0109 0717 1349 1958	1.6 7.2 1.6 6.6	50 220 50 200	26 Th 0021 0638 1253 1909	2.0 6.9 1.6 6.6	60 210 50 200	11 Sa 0239 0847 1523 2123	2.3 6.2 2.3 5.9	70 190 70 180	26 Su 0149 0804 1428 2045	2.0 6.9 1.6 6.2	60 210 50 190		
12 Tu 0130 0738 1404 2019	1.6 6.9 1.6 6.6	30 270 270 200	27 W 0038 0654 1302 1923	2.0 6.6 2.0 6.2	60 200 60 190	12 Th 0209 0817 1456 2102	2.3 6.6 2.0 5.9	70 200 60 180	27 F 0108 0726 1345 2004	2.3 6.6 2.0 6.2	70 200 60 190	12 O 0345 0949 1626 2226	2.6 6.2 2.3 5.9	80 190 70 180	27 M 0249 0906 1536 2149	2.3 6.6 2.0 6.2	70 200 60 190		
13 W 0236 0843 1521 2134	2.3 6.2 2.0 5.9	30 280 280 220	13 Th 0121 0743 1611 ○ 2215	2.3 6.2 2.3 5.9	70 200 70 180	28 F 0323 0926 1451 2108	2.6 6.2 2.0 6.2	80 200 60 190	13 Sa 0206 0824 1451 2108	2.3 6.6 2.0 6.2	70 200 60 190	13 O 0453 1053 1728 2326	2.6 5.9 2.6 5.9	80 180 80 180	28 Tu 0400 1015 1647 2256	2.3 6.6 2.0 6.2	70 200 60 190		
14 Th 0358 1000 1651 ● 2258	2.6 5.9 2.3 5.6	30 290 290 220	14 F 0221 0847 1509 2136	2.6 5.9 2.3 5.9	80 180 70 180	29 Sa 0441 0934 1724 2324	2.6 6.6 2.3 5.9	80 200 60 180	14 O 0313 0934 1602 ○ 2217	2.6 6.6 2.0 6.2	80 200 60 190	14 O 0554 1151 1821	2.6 5.9 2.3 6.2	80 180 70 190	29 W 0513 1126 1756	2.0 6.9 2.0 6.0	60 210 60 190		
15 F 0523 1121 1806	2.6 5.9 2.3	30 300 300 220	15 F 0343 1000 1634 ○ 2251	3.0 5.9 2.3 5.9	90 180 70 180	30 Su 0549 1147 1823	2.6 6.2 2.3 5.9	80 200 60 180	15 M 0430 1045 1715 2324	2.3 6.6 2.0 6.2	70 200 60 190	15 W 0017 0645 1241 ○ 2217	5.9 2.3 6.2 6.2	180 70 190 190	30 Th 0000 0623 1232 1856	6.6 1.6 6.9 1.6	200 50 210 50		
						31 Tu 0541 1153 1819	2.0 6.9 1.6	60 210 50											

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

Recife, Brazil, 2016

Times and Heights of High and Low Waters

July				August				September							
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height				
1 F 0100 0723 1330 1951	h m 6.9 1.3 7.2 1.3	ft 210 40 220 40	cm 210 60 190 60	16 Sa 0111 0738 1338 1954	h m 6.2 2.0 6.2 2.0	ft 190 60 190 60	cm 230 20 220 30	1 M 0232 0858 1502 2113	h m 7.5 0.7 7.2 1.0	ft 230 20 220 30	cm 220 40 220 40				
	0154 0815 1423 2041	7.2 1.0 7.5 1.0	220 30 230 30		0156 Su 0817 1419 2034	6.6 1.6 6.9 1.6	200 50 210 50		0211 Tu 0836 1439 2051	7.2 1.3 7.2 1.3	220 40 220 40				
	0243 0906 1511 2126	7.9 0.7 7.5 1.0	240 20 230 30		0238 M 0858 1500 2111	7.2 1.3 7.2 1.3	220 40 220 30		0338 W 0954 1623 2234	8.2 0.3 7.9 1.0	250 10 240 30				
	0330 0954 1600 ● 2209	7.9 0.3 7.9 0.7	240 10 230 20		0315 Tu 0936 1543 2151	7.5 1.0 7.5 1.0	230 30 230 30		0417 F 1100 1702 2309	8.2 0.0 7.9 1.0	250 0 240 30				
5 Tu 1039 1645 2254	0413 1039 1645 1.0	8.2 0.3 7.5 30	250 10 230 30	20 W 1015 1623 2230	0358 W 1015 1623 2230	7.9 0.7 7.5 1.0	240 20 230 30	5 M 0517 1138 1741 2349	7.9 0.7 7.2 1.0	240 20 220 30	5 M 0600 1209 1817	7.2 1.3 6.9	220 40 210		
	0500 1123 1726 2338	8.2 0.7 7.5 1.0	250 20 230 30		0439 Th 1056 1704 2309	7.9 0.7 7.5 1.0	240 20 230 30		0500 Sa 1117 1726 2332	8.5 0.3 7.9	260 10 240 30	0611 Tu 1226 1836	8.2 1.0 7.5	250 30 230	
	0545 1206 1809	7.9 1.0 7.2	240 30 220		0519 F 1139 1749 2353	7.9 0.7 7.5 1.0	240 20 230 30		0545 Su 1202 1809	8.2 0.3 7.5 1.0	250 10 230	0638 Tu 1245 1856	6.9 2.0 6.6	210 60 200	
	0545 1206 1809	7.9 1.0 7.2	240 30 220		0519 F 1139 1749 2353	7.9 0.7 7.5 1.0	240 20 230 30		0017 M 0632 1251 1858	1.3 7.9 1.0 7.2	40 20 30 220	0102 W 0717 1323 1939	2.0 6.2 2.3 6.2	60 190 70 190	
8 F 0628 1253 1856	0019 0628 1253 1856	1.3 7.5 1.3 6.9	40 230 40 210	23 Sa 1223 1834	0604 Sa 1223 1834	7.9 0.7 1.3 7.2	240 20 230 30	6 Su 1213 1817	0558 Sa 1213 1817	7.5 0.7 7.2 1.0	230 20 220 30	21 W 0706 1319	1.6 7.5 1.6	30 230 50	
	0104 0713 1338 1943	1.6 6.9 1.6 6.6	50 210 50 200		0439 Th 1056 1704 2309	7.9 0.7 7.5 1.0	240 20 230 30		0545 Su 1202 1809	8.2 0.3 7.5 1.0	250 10 230		0051 W 1319 1928	1.0 6.9 6.9	30 210 210
	0153 0802 1426 2030	2.0 6.6 2.3 6.2	60 200 70 190		0128 M 0745 1406 2015	1.6 7.2 1.6 6.6	50 220 50 200		0241 W 0854 1509 2124	2.6 5.9 2.6 5.6	80 180 80 170		0026 Su 1023 1649 2256	1.6 5.6 3.0	50 170 170
	0245 0854 1521 ● 2124	2.3 6.2 2.6 5.9	70 190 80 180		0226 Tu 0845 1508 2119	2.0 6.9 2.0 6.2	60 210 60 190		0347 Th 0958 1621 2232	3.0 5.6 3.0 5.6	90 170 90 170		0445 F 1058 1728 2328	2.3 6.2 2.6 6.2	70 190 80 190
12 Tu 1623 2224	0347 0953 1623 2224	2.6 5.9 2.6 5.6	80 180 80 170	27 W 0954 1623 2228	0336 W 0954 1623 2228	2.0 6.6 2.3 6.2	60 200 70 190	27 Sa 1205 1841	0504 F 1108 1738 2341	3.0 5.6 3.0 5.6	90 170 90 170	12 M 0639 1243 1900	5.9 2.3 2.3	180 70 70	
	0454 1054 1724 2326	2.6 5.6 2.6 5.9	80 170 80 180		0456 Th 1108 1739 2341	2.0 6.6 2.3 6.2	60 200 70 190		0038 Su 0802 1415 2019	2.3 6.2 2.3 6.6	80 170 80 170		0004 M 1215 1841	5.9 6.2 6.2	180 190 190
	0558 1156 1821	2.6 5.9 2.6	80 180 80		0611 F 1221 1847	2.0 6.6 2.0 6.0	60 200 70 190		0039 Su 0804 1308 1928	6.2 1.3 6.2 7.3	80 40 80 50		0044 M 1215 1841	5.9 6.2 6.2	180 190 190
	0023 0653 1249 1909	5.9 2.3 5.9 2.3	180 70 180 70		0047 Sa 0715 1323 1943	6.6 1.6 6.9 1.6	200 50 210 50		0128 M 0754 1356 2009	6.6 1.6 6.6 5.6	200 80 80 50		0221 Tu 0849 1449 2100	7.2 1.0 7.2 1.3	220 30 220 40
13 W 1054 1724 2326	0454 1054 1724 2326	2.6 5.6 2.6 5.9	80 170 80 180	28 W 0954 1623 2228	0456 Th 1108 1739 2341	2.0 6.6 2.3 6.2	60 200 70 190	28 Su 0711 1319 1936	0613 Sa 1213 1839	2.6 5.9 2.6 80	80 170 80 170	13 M 0639 1243 1900	6.6 2.3 2.3	200 70 70	
	0558 1156 1821	2.6 5.9 2.6	80 180 80		0611 F 1221 1847	2.0 6.6 2.0 6.0	60 200 70 190		0039 Su 0804 1308 1928	6.2 1.3 6.2 7.3	80 40 80 50		0100 Tu 0726 1332 1945	6.6 1.6 1.6	200 50 50
	0023 0653 1249 1909	5.9 2.3 5.9 2.3	180 70 180 70		0047 Sa 0715 1323 1943	6.6 1.6 6.9 1.6	200 50 210 50		0128 M 0754 1356 2009	6.6 1.6 6.6 5.6	200 80 80 50		0221 Tu 0849 1449 2100	7.2 1.0 7.2 1.3	220 30 220 40
	0143 0809 1415 2030	7.2 1.0 7.2 1.3	220 30 220 40		0143 Su 0809 1415 2030	7.2 1.0 7.2 1.3	220 30 220 40		0300 W 0924 1524 2136	7.5 0.7 7.2 1.0	230 20 220 30		0300 M 1023 1649 2256	3.0 3.0 5.6	90 90 170
14 Th 1821	0558 1156 1821	2.6 5.9 2.6	80 180 80	29 F 1847	0611 F 1847	2.0 6.6 2.0 6.0	60 200 70 190	29 Su 0708 1308 1928	0039 Su 0708 1308 1928	6.2 2.3 6.2 7.3	190 40 190 50	14 W 1413 2026	6.9 1.3 1.6	210 220 220 30	
	0023 0653 1249 1909	5.9 2.3 5.9 2.3	180 70 180 70		0611 F 1221 1847	2.0 6.6 2.0 6.0	60 200 70 190		0039 Su 0804 1308 1928	6.2 1.3 6.2 7.3	190 40 190 50		0147 W 1413 2026	7.2 1.3 1.6	220 220 220 30
	0023 0653 1249 1909	5.9 2.3 5.9 2.3	180 70 180 70		0611 F 1221 1847	2.0 6.6 2.0 6.0	60 200 70 190		0039 Su 0804 1308 1928	6.2 1.3 6.2 7.3	190 40 190 50		0147 W 1413 2026	7.2 1.3 1.6	220 220 220 30
	0023 0653 1249 1909	5.9 2.3 5.9 2.3	180 70 180 70		0047 Sa 0715 1323 1943	6.6 1.6 6.9 1.6	200 50 210 50		0128 M 0754 1356 2009	6.6 1.6 6.6 5.6	200 80 80 50		0221 Tu 0849 1449 2100	7.2 1.0 7.2 1.3	220 30 220 40
15 F 1249	0023 0653 1249 1909	5.9 2.3 5.9 2.3	180 70 180 70	30 F 1847	0047 Sa 0715 1323 1943	6.6 1.6 6.9 1.6	200 50 210 50	30 W 1524 2106	0128 M 0754 1356 2009	6.6 1.6 6.6 5.6	200 80 80 50	15 M 1500 2111	7.2 1.0 7.2 0.7	220 30 220 20	
	0023 0653 1249 1909	5.9 2.3 5.9 2.3	180 70 180 70		0047 Sa 0715 1323 1943	6.6 1.6 6.9 1.6	200 50 210 50		0128 M 0754 1356 2009	6.6 1.6 6.6 5.6	200 80 80 50		0221 Tu 0849 1449 2100	7.2 1.0 7.2 1.3	220 30 220 40
	0023 0653 1249 1909	5.9 2.3 5.9 2.3	180 70 180 70		0047 Sa 0715 1323 1943	6.6 1.6 6.9 1.6	200 50 210 50		0128 M 0754 1356 2009	6.6 1.6 6.6 5.6	200 80 80 50		0221 Tu 0849 1449 2100	7.2 1.0 7.2 1.3	220 30 220 40
	0023 0653 1249 1909	5.9 2.3 5.9 2.3	180 70 180 70		0047 Sa 0715 1323 1943	6.6 1.6 6.9 1.6	200 50 210 50		0128 M 0754 1356 2009	6.6 1.6 6.6 5.6	200 80 80 50		0221 Tu 0849 1449 2100	7.2 1.0 7.2 1.3	220 30 220 40
16 F 1249	0023 0653 1249 1909	5.9 2.3 5.9 2.3	180 70 180 70	31 F 1847	0143 Su 0809 1415 2030	7.2 1.0 7.2 1.3	220 30 220 40	31 W 1524 2106	0300 W 0924 1524 2136	7.5 0.7 7.2 1.0	230 20 220 30	16 M 1532 2145	8.2 0.0 8.2 0.7	250 0 250 20	
	0023 0653 1249 1909	5.9 2.3 5.9 2.3	180 70 180 70		0143 Su 0809 1415 2030	7.2 1.0 7.2 1.3	220 30 220 40		0300 W 0924 1524 2136	7.5 0.7 7.2 1.0	230 20 220 30		0300 M 1532 2145	8.2 0.0 8.2 0.7	250 0 250 20
	0023 0653 1249 1909	5.9 2.3 5.9 2.3	180 70 180 70		0143 Su 0809 1415 2030	7.2 1.0 7.2 1.3	220 30 220 40		0300 W 0924 1524 2136	7.5 0.7 7.2 1.0	230 20 220 30		0300 M 1532 2145	8.2 0.0 8.2 0.7	250 0 250 20
	0023 0653 1249 1909	5.9 2.3 5.9 2.3	180 70 180 70		0143 Su 0809 1415 2030	7.2 1.0 7.2 1.3	220 30 220 40		0300 W 0924 1524 2136	7.5 0.7 7.2 1.0	230 20 220 30		0300 M 1532 2145	8.2 0.0 8.2 0.7	250 0 250 20

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

Recife, Brazil, 2016

Times and Heights of High and Low Waters

October				November				December			
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height
1 Sa 0349 7.9 240	16 0336 8.9 270	1 Tu 0426 7.5 230	16 0453 8.2 250	1 Th 0443 7.2 220	16 0524 7.9 240						
1002 0.7 20	Su 0951 0.0 0	1036 1.0 30	1102 0.3 10	1049 1.3 40	1136 0.7 20						
1604 7.5 230	1558 8.5 260	1643 7.5 230	1708 8.2 250	1658 7.5 230	1743 8.2 250						
2215 0.7 20	O 2208 -0.3 -10	2254 1.0 30	2328 0.0 0	2309 1.0 30							
2 Su 0419 7.9 240	17 0419 8.9 270	2 W 0502 7.2 220	17 0541 7.9 240	2 F 0519 7.2 220	17 0006 0.7 20						
1034 1.0 30	M 1036 0.0 0	1108 1.3 40	1151 1.0 30	1123 1.6 50	Sa 0613 7.5 230						
1636 7.5 230	1641 8.5 260	1717 7.2 220	1758 7.9 240	1736 7.2 220	1223 1.3 40						
2249 1.0 30	2254 0.0 0	2328 1.3 40		2349 1.3 40	1832 7.5 230						
3 M 0454 7.5 230	18 0506 8.5 260	3 Th 0539 6.9 210	18 0021 0.7 20	3 Sa 0600 6.9 210	18 0058 1.0 30						
1104 1.0 30	Tu 1119 0.3 10	1141 1.6 50	0632 7.2 220	1200 1.6 50	Su 0704 6.9 210						
1708 7.5 230	Tu 1726 8.2 250	1754 6.9 210	1243 1.3 40	1813 6.9 210	1313 1.6 50						
2319 1.0 30	2343 0.3 10		1853 7.5 230		1923 7.2 220						
4 Tu 0528 7.2 220	19 0556 7.9 240	4 F 0004 1.6 50	19 0119 1.3 40	4 Su 0028 1.6 50	19 0153 1.6 50						
1136 1.3 40	W 1208 1.0 30	0617 6.6 200	0730 6.6 200	0645 6.6 200	M 0758 6.6 200						
1745 7.2 220	1813 7.9 240	1217 2.0 60	1341 2.0 60	1243 2.0 60	M 1409 2.3 70						
2353 1.3 40		1836 6.6 200	1951 6.9 210	1900 6.6 200	2019 6.6 200						
5 W 0604 6.9 210	20 0036 0.7 20	5 Sa 0045 2.0 60	20 0224 1.6 50	5 M 0115 2.0 60	20 0254 2.0 60						
1208 1.6 50	Th 0651 7.2 220	0702 6.2 190	0836 6.2 190	0736 6.2 190	Tu 0858 5.9 180						
1819 6.9 210	Th 1300 1.6 50	1300 2.3 70	1453 2.3 70	1332 2.3 70	M 1515 2.6 80						
	1908 7.2 220	1921 6.2 190	2058 6.2 190	1954 6.6 200	O 2121 6.2 190						
6 Th 0028 2.0 60	21 0136 1.3 40	6 Su 0134 2.3 70	21 0343 2.0 60	6 Tu 0213 2.0 60	21 0400 2.3 70						
0643 6.6 200	F 0751 6.6 200	0758 5.9 180	0949 5.9 180	0836 5.9 180	W 1002 5.9 180						
1243 2.3 70	1404 2.3 70	1356 2.6 80	1609 2.6 80	1436 2.6 80	1628 2.6 80						
1900 6.2 190	2011 6.6 200	2019 5.9 180	O 2211 6.2 190	2056 6.2 190	2230 5.9 180						
7 F 0108 2.3 70	22 0251 2.0 60	7 M 0241 2.6 80	22 0500 2.3 70	7 W 0323 2.3 70	22 0508 2.6 80						
0728 5.9 180	Sa 0902 6.2 190	0906 5.6 170	1102 5.9 180	0943 5.9 180	Th 1108 5.9 180						
1326 2.6 80	Sa 1524 2.6 80	1511 3.0 90	1724 2.6 80	1551 2.6 80	1738 2.6 80						
1951 5.9 180	O 2128 6.2 190	O 2132 5.9 180	2324 6.2 190	O 2206 6.2 190	2336 5.9 180						
8 Sa 0200 2.6 80	23 0417 2.3 70	8 Tu 0404 2.6 80	23 0604 2.3 70	8 Th 0439 2.0 60	23 0608 2.6 80						
0826 5.6 170	Su 1026 5.9 180	1023 5.9 180	1204 5.9 180	1053 6.2 190	1206 5.9 180						
1428 3.0 90	Su 1653 2.6 80	1636 3.0 90	1824 2.3 70	1706 2.3 70	F 1834 2.3 70						
2054 5.6 170	2254 6.2 190	2247 6.2 190		2317 6.6 200							
9 Su 0317 3.0 90	24 0539 2.0 60	9 W 0521 2.3 70	24 0023 6.2 190	9 F 0549 2.0 60	24 0030 5.9 180						
0945 5.6 170	M 1147 5.9 180	1132 6.2 190	0654 2.0 60	1156 6.6 200	Sa 0658 2.3 70						
1556 3.3 100	1804 2.6 80	1747 2.3 70	1253 6.2 190	1811 2.0 60	1256 6.2 190						
O 2211 5.6 170		2354 6.6 200	1911 2.0 60		1921 2.3 70						
10 M 0451 2.6 80	25 0004 6.2 190	10 F 0621 1.6 50	25 0109 6.6 200	10 Sa 0021 6.9 210	25 0115 6.2 190						
1102 5.6 170	Tu 0641 2.0 60	1230 6.6 200	0734 2.0 60	0649 1.3 40	Su 0739 2.0 60						
1723 3.0 90	Tu 1245 6.2 190	1245 6.2 190	1330 6.6 200	1254 6.9 210	1338 6.6 200						
2326 5.9 180	1900 2.0 60		1951 1.6 50	1909 1.3 40	2000 2.0 60						
11 Tu 0602 2.3 70	26 0100 6.6 200	11 F 0051 7.2 220	26 0149 6.6 200	11 Su 0119 7.5 230	26 0158 6.6 200						
1208 6.2 190	W 0726 1.6 50	0713 1.0 30	0806 1.6 50	0741 1.0 30	M 0813 2.0 60						
1826 2.3 70	W 1326 6.6 200	1319 7.2 220	1404 6.9 210	1345 7.5 230	M 1413 6.9 210						
	1943 1.6 50	1934 1.0 30	2024 1.6 50	2002 0.7 20	2038 1.6 50						
12 W 0026 6.6 200	27 0141 6.9 210	12 Sa 0141 7.9 240	27 0223 6.9 210	12 M 0211 7.9 240	27 0236 6.9 210						
0656 1.6 50	0804 1.3 40	0800 0.7 20	0839 1.3 40	0828 0.7 20	Tu 0849 1.6 50						
1302 6.6 200	1402 6.9 210	1406 7.9 240	1439 7.2 220	1434 7.9 240	1451 7.2 220						
1915 1.6 50	2017 1.3 40	2019 0.7 20	2058 1.3 40	2053 0.3 10	2109 1.3 40						
13 Th 0117 7.2 220	28 0215 7.2 220	13 Su 0228 8.2 250	28 0258 7.2 220	13 M 0211 7.9 240	27 0236 6.9 210						
0743 1.0 30	F 0838 1.3 40	0847 0.3 10	0909 1.3 40	0828 0.7 20	Tu 0849 1.6 50						
1349 7.2 220	1434 7.2 220	1453 8.2 250	1511 7.5 230	1434 7.9 240	1451 7.2 220						
2000 1.0 30	2051 1.3 40	2106 0.0 0	2128 1.0 30	2141 0.0 0	2145 1.0 30						
14 F 0204 7.9 240	29 0251 7.2 220	14 M 0315 8.5 260	29 0332 7.2 220	14 W 0351 8.2 250	29 0349 7.2 220						
0824 0.3 10	Sa 0906 1.0 30	0932 0.0 0	0943 1.3 40	1002 0.3 10	0958 1.3 40						
1432 7.9 240	Sa 1504 7.5 230	1538 8.5 260	Tu 1547 7.5 230	1606 8.5 260	1602 7.5 230						
2043 0.3 10	2119 1.0 30	O 2153 -0.3 -10	O 2202 1.0 30	2228 0.0 0	O 2219 1.0 30						
15 Sa 0251 8.5 260	30 0321 7.5 230	15 Tu 0402 8.5 260	30 0406 7.2 220	15 W 0438 8.2 250	30 0424 7.2 220						
0908 0.0 0	Su 0936 1.0 30	1015 0.0 0	1013 1.3 40	1049 0.7 20	F 1034 1.3 40						
1513 8.2 250	1538 7.5 230	1621 8.5 260	1621 7.5 230	1654 8.2 250	1641 7.5 230						
2124 0.0 0	O 2151 1.0 30	2239 0.0 0	2236 1.0 30	2317 0.0 0	2256 1.0 30						
	31 0354 7.5 230	M 1004 1.0 30									
	1608 7.5 230	1608 7.5 230									
	2221 1.0 30										

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

Rio de Janeiro, Brazil, 2016

Times and Heights of High and Low Waters

January				February				March							
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height				
h m	ft	cm		h m	ft	cm		h m	ft	cm					
1 F	0217	1.3	40	16	0221	1.0	30	1	0338	1.6	50	16	0000	2.3	70
0709	3.0	90	Sa	0656	3.0	90	M	0758	3.0	90	Tu	0421	1.6	50	
1441	2.0	60	Sa	1454	1.6	50	M	1558	1.6	50	Tu	0756	2.6	80	
1906	3.0	90	●	1904	3.3	100	○	2030	2.6	80	○	1058	2.0	60	
											1306*	2.3	70		
2 Sa	0317	1.6	50	17	0328	1.3	40	2	0439	1.6	50	17	0113	3.0	90
0806	3.0	90	Su	0747	3.0	90	Tu	0911	2.6	80	W	0536	1.6	50	
1547	1.6	50	Su	1053	2.3	70	Tu	1700	1.3	40	W	0919	2.6	80	
●	2013	3.0	90								1139	2.3	70		
											1328*	2.3	70		
3 Su	0415	1.6	50	18	0438	1.3	40	3	0538	1.6	50	18	0139	3.3	100
0917	3.0	90	M	0853	2.6	80	W	1121	3.0	90	Th	0638	1.6	50	
1649	1.6	50	M	1111	2.3	70	W	1756	1.3	40	Th	1134	2.6	80	
2154	3.0	90									1858	0.7	20		
4 M	0511	1.6	50	19	0051	3.0	90	4	0034	3.3	100	19	0128	3.3	100
1043	3.0	90	Tu	0547	1.3	40	Th	0628	1.3	40	F	0726	1.3	40	
1741	1.3	40	Tu	1021	2.6	80	Th	1226	3.0	90	F	1230	3.3	100	
2328	3.0	90									1947	0.7	20		
											1815	0.7	20		
5 Tu	0604	1.3	40	20	0113	3.3	100	5	0111	3.6	110	20	0108	3.6	110
1149	3.3	100	W	0649	1.3	40	F	0715	1.3	40	Sa	0808	1.3	40	
1826	1.0	30	W	1153	3.0	90	F	1306	3.3	100	Sa	1309	3.6	110	
											2026	0.3	10		
											1904	0.3	10		
6 W	0024	3.3	100	21	0121	3.3	100	6	0147	3.9	120	21	0132	3.9	120
0653	1.3	40	Th	0743	1.3	40	Sa	0800	1.0	30	W	0849	1.0	30	
1234	3.3	100	Th	1241	3.3	100	Sa	1343	3.6	110	W	1351	3.9	120	
1908	0.7	20									2008	0.0	0		
											2102	0.3	10		
7 Th	0106	3.6	110	22	0143	3.6	110	7	0221	3.9	120	22	0228	3.9	120
0738	1.0	30	F	0830	1.3	40	Su	0843	1.0	30	M	0921	1.0	30	
1311	3.6	110	F	1321	3.6	110	M	1415	3.9	120	M	1424	4.3	130	
1949	0.3	10	F	2045	0.3	10	O	2053	0.0	0	O	2139	0.3	10	
8 F	0147	3.9	120	23	0213	3.9	120	8	0256	4.3	130	23	0300	3.9	120
0817	1.0	30	Sa	0911	1.3	40	M	0923	0.7	20	Tu	0953	1.0	30	
1351	3.9	120	Sa	1402	3.9	120	M	1451	4.3	130	Tu	1502	4.3	130	
2028	0.3	10	○	2124	0.3	10	●	2138	-0.3	-10		2209	0.3	10	
9 Sa	0224	3.9	120	24	0251	3.9	120	9	0326	4.3	130	24	0334	3.9	120
0900	1.0	30	Su	0953	1.3	40	Tu	1004	0.7	20	W	1023	1.0	30	
1424	3.9	120	Su	1443	3.9	120	Tu	1523	4.3	130	W	1539	4.3	130	
●	2108	0.0	0	2202	0.3	10		2221	0.0	0		2243	0.7	20	
10 Su	0302	4.3	130	25	0323	3.9	120	10	0400	3.9	120	25	0332	3.9	120
0945	1.0	30	M	1024	1.3	40	W	1049	1.0	30	F	1046	0.7	20	
1500	3.9	120	M	1517	4.3	130	W	1558	4.3	130	F	1539	4.6	140	
2153	0.0	0	W	2239	0.3	10	W	2308	0.0	0	W	2315	1.0	30	
												2253	0.3	10	
11 M	0341	4.3	130	26	0400	3.9	120	11	0430	3.9	120	26	0400	3.9	120
1026	1.0	30	Tu	1058	1.3	40	Th	1134	1.0	30	W	1106	0.7	20	
1536	3.9	120	Tu	1558	4.3	130	Th	1632	4.3	130	F	1647	3.9	120	
2238	0.0	0	Tu	2315	0.7	20					F	2347	1.3	40	
												2343	0.7	20	
12 Tu	0415	3.9	120	27	0438	3.9	120	12	0508	3.6	110	27	0428	3.6	110
1109	1.0	30	W	1130	1.3	40	F	0502	3.6	110	Sa	1156	1.0	30	
1609	3.9	120	F	1634	3.9	120	F	1221	1.3	40	Sa	1651	3.9	120	
2326	0.0	0	F	2351	1.0	30		1706	3.9	120		2253	0.3	10	
13 W	0456	3.9	120	28	0509	3.6	110	13	0058	0.7	20	28	0041	1.0	30
1200	1.3	40	Th	1200	1.6	50	Sa	0538	3.3	100	W	0543	3.3	100	
1649	3.9	120	Th	1708	3.9	120	Sa	1315	1.3	40	W	1239	1.6	50	
											1751	3.6	110		
											1754	3.3	100		
14 Th	0019	0.3	10	29	0034	1.3	40	14	0200	1.3	40	29	0147	1.6	50
0532	3.6	110	F	0549	3.3	100	Su	0609	3.0	90	F	0615	3.0	90	
1253	1.3	40	F	1241	1.6	50	Su	1009	2.0	60	M	1353	1.6	50	
1726	3.6	110	F	1749	3.6	110		1113	2.0	60		1838	3.0	90	
											2254	2.0	60		
15 F	0117	0.7	20	30	0128	1.3	40	15	0308	1.6	50	15	0256	2.0	60
0609	3.3	100	Sa	0623	3.3	100	M	0658	3.0	90	W	0619	3.0	90	
1351	1.6	50	Sa	1341	1.6	50	M	1023	2.0	60	W	1004	1.6	50	
1809	3.6	110	Sa	1826	3.3	100	○	1224	2.3	70	○	1221	2.0	60	
											1509*	1.6	50		
31	0232	1.6	50	31	0704	3.0	90					31	0336	2.0	60
Su	1451	1.6	50	Su	1451	1.6	50					Th	0708	2.6	80
	1915	3.0	90		1915	3.0	90					○	1541	1.3	40

Time meridian 45° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.

Heights are referred to the chart datum of soundings.

* See Page 304 for the remaining tides on this day.

Rio de Janeiro, Brazil, 2016

Times and Heights of High and Low Waters

April					May					June				
	Time	Height		Time	Height		Time	Height		Time	Height		Time	Height
1 F 0011 3.0 90 0441 2.0 60 0847 2.6 80 1141 2.6 80 1649 1.3 40	16	0051 3.0 90 0549 1.6 50 1026 2.6 80 1809 1.0 30	1 Su	0006 3.3 100 0502 1.6 50 1138 3.0 90 1713 0.7 20	16 M	0553 1.6 50 1104 3.0 90 1821 1.3 40 2353 3.3 100	1 W	0024 3.3 100 0613 1.0 30 1230 3.6 110 1847 0.7 20	16 Th	0638 1.0 30 1224 3.3 100 1909 1.3 40				
	2 Sa	0036 3.3 100 0538 1.6 50 1215 3.0 90 1749 0.7 20	17 Su	0017 3.3 100 0632 1.3 40 1145 3.3 100 1858 1.0 30	2 M	0034 3.6 110 0556 1.3 40 1217 3.3 100 1811 0.7 20	17 Tu	0632 1.3 40 1202 3.3 100 1902 1.0 30	2 Th	0039 3.3 100 0704 0.7 20 1308 3.9 120 1941 0.7 20	17 F	0032 3.6 110 0715 0.7 20 1308 3.6 110 1951 1.0 30		
	3 Su	0058 3.6 110 0626 1.3 40 1245 3.3 100 1841 0.3 10	18 M	0032 3.3 100 0708 1.3 40 1230 3.6 110 1936 0.7 20	3 Tu	0054 3.6 110 0643 1.0 30 1251 3.6 110 1904 0.3 10	18 W	0026 3.6 110 0708 1.0 30 1247 3.6 110 1941 1.0 30	3 F	0102 3.6 110 0756 0.7 20 1343 3.9 120 2032 0.7 20	18 Sa	0108 3.6 110 0754 0.7 20 1347 3.9 120 2026 1.0 30		
	4 M	0123 3.9 120 0709 1.0 30 1315 3.6 110 1926 0.0 0	19 Tu	0100 3.6 110 0743 1.0 30 1308 3.9 120 2009 0.7 20	4 W	0115 3.6 110 0728 0.7 20 1323 3.9 120 1956 0.3 10	19 Th	0100 3.6 110 0745 0.7 20 1324 3.9 120 2013 1.0 30	4 Sa	0132 3.6 110 0847 0.3 10 1419 3.9 120 2119 1.0 30	19 Su	0145 3.9 120 0834 0.3 10 1421 3.9 120 2102 1.0 30		
5 Tu 0145 3.9 120 0754 0.7 20 1345 4.3 130 2013 0.0 0	20 W	0132 3.9 120 0815 0.7 20 1349 4.3 130 2043 0.7 20	5 Th	0138 3.9 120 0811 0.3 10 1356 4.3 130 2045 0.3 10	20 F	0134 3.9 120 0821 0.7 20 1402 3.9 120 2049 1.0 30	5 Su	0206 3.6 110 0934 0.3 10 1458 4.3 130 2208 1.0 30	20 M	0217 3.9 120 0909 0.3 10 1458 4.3 130 2141 1.0 30				
	6 W	0208 3.9 120 0838 0.7 20 1415 4.3 130 2100 0.0 0	21 Th	0202 3.9 120 0849 0.7 20 1421 4.3 130 2113 0.7 20	6 F	0202 3.9 120 0858 0.3 10 1430 4.3 130 2134 0.7 20	21 Sa	0206 3.9 120 0856 0.3 10 1436 4.3 130 2123 1.0 30	6 M	0245 3.6 110 1019 0.3 10 1536 3.9 120 2258 1.3 40	21 Tu	0254 3.9 120 0949 0.3 10 1534 4.3 130 2221 1.3 40		
	7 Th	0234 3.9 120 0917 0.3 10 1449 4.6 140 ● 2149 0.0 0	22 F	0236 3.9 120 0921 0.7 20 1456 4.3 130 ○ 2147 1.0 30	7 Sa	0230 3.6 110 0947 0.3 10 1504 4.3 130 2221 1.0 30	22 Su	0239 3.9 120 0930 0.3 10 1508 4.3 130 2158 1.0 30	7 Tu	0319 3.6 110 1106 0.7 20 1613 3.9 120 2349 1.6 50	22 W	0326 3.9 120 1030 0.3 10 1608 3.9 120 2304 1.3 40		
	8 F	0300 3.9 120 1002 0.7 20 1519 4.6 140 2236 0.7 20	23 Sa	0304 3.9 120 0953 0.7 20 1526 4.3 130 2219 1.0 30	8 Su	0302 3.6 110 1034 0.7 20 1545 4.3 130 2311 1.3 40	23 M	0309 3.9 120 1006 0.7 20 1545 3.9 120 2239 1.3 40	8 W	0402 3.6 110 1154 0.7 20 1656 3.6 110	23 Th	0402 3.6 110 1113 0.3 10 1647 3.9 120 2356 1.3 40		
9 Sa 0328 3.6 110 1049 0.7 20 1556 4.3 130 2326 1.0 30	24 Su	0336 3.9 120 1026 0.7 20 1600 3.9 120 2254 1.3 40	9 M	0338 3.6 110 1121 0.7 20 1621 3.9 120 2324 1.6 50	24 Tu	0345 3.6 110 1043 0.7 20 1617 3.9 120 2324 1.6 50	9 Th	0039 2.0 60 0447 3.6 110 1245 1.0 30 1739 3.3 100	24 F	0443 3.6 110 1202 0.7 20 1724 3.6 110				
	10 Su	0400 3.6 110 1138 1.0 30 1634 3.9 120	25 M	0404 3.6 110 1056 1.0 30 1632 3.9 120 2341 1.6 50	10 Tu	0006 1.6 50 0411 3.3 100 1211 1.0 30 1704 3.6 110	25 W	0415 3.6 110 1128 0.7 20 1656 3.6 110	10 F	0128 2.0 60 0530 3.3 100 1338 1.3 40 1823 3.3 100	25 Sa	0053 1.6 50 0521 3.6 110 1300 0.7 20 1806 3.6 110		
	11 M	0024 1.3 40 0436 3.3 100 1232 1.0 30 1711 3.6 110 2115* 2.3 70	26 Tu	0439 3.6 110 1139 1.0 30 1706 3.6 110	11 W	0106 2.0 60 0456 3.3 100 1309 1.3 40 1754 3.3 100 2111* 2.3 70	26 Th	0019 1.6 50 0454 3.3 100 1221 1.0 30 1739 3.6 110	11 Sa	0221 2.0 60 0619 3.3 100 1438 1.3 40 1917 3.0 90	26 Su	0151 1.6 50 0608 3.3 100 1400 1.0 30 1858 3.3 100		
	12 Tu	0128 2.0 60 0509 3.3 100 0930 1.6 50 1104 1.6 50 1338* 1.3 40	27 W	0045 1.6 50 0509 3.3 100 1239 1.3 40 1751 3.3 100	12 Th	0206 2.0 60 0545 3.0 90 1013 1.6 50 1119 1.6 50 1413* 1.3 40	27 F	0121 1.6 50 0538 3.3 100 1323 1.0 30 1826 3.3 100	12 Su	0317 2.0 60 0719 3.0 90 1543 1.6 50 2028 3.0 90	27 M	0253 1.6 50 0704 3.3 100 1506 1.0 30 1956 3.0 90		
13 W 0239 2.0 60 0558 3.0 90 1000 1.6 50 1202 2.0 60 1451* 1.3 40	28 Th	0154 2.0 60 0553 3.0 90 1351 1.3 40 1843 3.0 90 2206 2.6 80	13 F	0309 2.0 60 0641 3.0 90 1106 2.0 60 1634 1.3 40 2006* 2.6 80	28 Sa	0224 2.0 60 0624 3.0 90 1432 1.0 30 1934 3.0 90	13 M	0411 1.6 50 0839 3.0 90 1647 1.6 50 2156 3.0 90	28 Tu	0354 1.6 50 0813 3.0 90 1615 1.0 30 2115 3.0 90	28 F	0354 1.6 50 0813 3.0 90 1615 1.0 30 2339 2.6 80		
	14 Th	0017 3.0 90 0351 2.0 60 0656 2.6 80 ● 1039 2.0 60 1239* 2.0 60	29 F	0300 2.0 60 0647 2.6 80 1502 1.3 40 2009 3.0 90 2139* 3.0 90	14 Sa	0019 2.6 80 0409 2.0 60 0756 2.6 80 1634 1.3 40 2226 2.6 80	29 Su	0328 1.6 50 0736 3.0 90 1541 1.0 30 2334 3.0 90	14 Tu	0504 1.6 50 1008 3.0 90 1743 1.6 50 2304 3.0 90	29 W	0454 1.3 40 1011 3.0 90 1724 1.3 40 2328 3.0 90		
	15 F	0053 3.0 90 0454 2.0 60 0819 2.6 80 1711 1.3 40	30 Sa	0404 1.6 50 0804 2.6 80 1609 1.0 30 ●	15 Su	0504 1.6 50 0934 3.0 90 1734 1.3 40 2317 3.0 90	30 M	0426 1.6 50 0919 3.0 90 1647 1.0 30 2354 3.3 100	15 W	0554 1.3 40 1130 3.3 100 1830 1.3 40 2354 3.3 100	30 Th	0554 1.0 30 1238 3.3 100 1830 1.0 30		
	31 Tu				31 Tu		31 Tu		31 Tu		31 Tu		31 Tu	

Time meridian 45° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.

Heights are referred to the chart datum of soundings.

* See Page 304 for the remaining tides on this day.

Rio de Janeiro, Brazil, 2016

Times and Heights of High and Low Waters

July				August				September			
Time	Height	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 F 0000	3.0	90	16 Sa 0008	3.3	100	1 M 0100	3.3	100	16 Tu 0117	3.6	110
0651	0.7	20	0649	1.0	30	0821	0.3	10	0749	0.3	10
1317	3.6	110	1302	3.3	100	1411	3.9	120	1408	3.9	120
1928	1.0	30	1926	1.3	40	2053	1.3	40	2021	1.0	30
2 Sa 0034	3.3	100	17 Su 0051	3.6	110	2 Tu 0139	3.6	110	17 W 0154	3.9	120
0745	0.7	20	0730	0.7	20	0904	0.3	10	0830	0.0	0
1345	3.6	110	1339	3.6	110	1439	3.9	120	1439	4.3	130
2019	1.0	30	2004	1.3	40	● 2132	1.0	30	2100	0.7	20
3 Su 0111	3.3	100	18 M 0128	3.6	110	3 W 0217	3.9	120	18 Th 0226	4.3	130
0834	0.3	0	0809	0.3	0	0949	0.0	0	0911	0.0	0
1417	3.9	120	1415	3.9	120	1508	3.9	120	1508	4.3	130
2108	1.0	30	2045	1.0	30	2204	1.3	40	○ 2139	0.7	20
4 M 0153	3.6	110	19 Tu 0204	3.9	120	4 Th 0258	4.3	130	19 F 0302	4.3	130
0921	0.3	10	0851	0.0	0	1024	0.3	10	0956	-0.3	-10
1453	3.9	120	1451	4.3	130	1543	3.9	120	1539	4.3	130
● 2154	1.3	40	○ 2121	1.0	30	2239	1.3	40	2217	0.7	20
5 Tu 0230	3.6	110	20 W 0241	3.9	120	5 F 0338	4.3	130	20 Sa 0338	4.3	130
1004	0.3	10	0932	0.0	0	1058	0.7	20	1041	0.0	0
1524	3.9	120	1523	4.3	130	1613	3.9	120	1608	4.3	130
2238	1.3	40	2200	1.0	30	2308	1.3	40	2300	1.0	30
6 W 0308	3.9	120	21 Th 0315	3.9	120	6 Sa 0411	3.9	120	21 Su 0409	4.3	130
1051	0.3	10	1013	0.0	0	1132	0.7	20	1126	1.0	30
1602	3.9	120	1558	4.3	130	1651	3.9	120	1651	3.6	110
2315	1.6	50	2243	1.0	30	2336	1.3	40	2321	1.3	40
7 Th 0353	3.9	120	22 F 0353	3.9	120	7 Su 0454	3.9	120	22 M 0451	3.9	120
1130	0.7	20	1058	0.0	0	1158	1.0	30	1217	0.7	20
1639	3.9	120	1632	3.9	120	1721	3.6	110	1708	3.6	110
2354	1.6	50	2328	1.3	40	2349	1.0	30	7 W 0015	1.3	40
8 F 0432	3.9	120	23 Sa 0428	3.9	120	8 M 0013	1.6	50	22 W 0043	1.3	40
1208	1.0	30	1147	0.3	10	0532	3.6	110	0528	3.6	110
1713	3.6	110	1704	3.9	120	1234	1.3	40	1315	1.0	30
9 Sa 0038	1.6	50	24 Su 0017	1.3	40	1758	3.3	100	1745	3.3	100
0511	3.6	110	0506	3.9	120	9 0113	1.6	50	8 Th 0147	1.3	40
1249	1.0	30	1239	0.7	20	0609	3.3	100	0528	3.6	110
1756	3.3	100	1741	3.6	110	1338	1.6	50	1315	1.0	30
10 Su 0123	2.0	60	25 M 0111	1.3	40	1834	3.0	90	23 Tu 0256	1.3	40
0558	3.3	100	0551	3.6	110	1023	2.0	60	0706	3.0	90
1338	1.3	40	1338	1.0	30	1456	2.0	60	0826	2.6	80
1838	3.3	100	1815	3.3	100	● 1915	3.0	90	1204	2.6	80
11 M 0217	2.0	60	26 Tu 0213	1.6	50	2023	2.6	80	1543*	2.0	60
0649	3.3	100	0639	3.3	100	1300*	3.0	90	0256	1.3	40
1441	1.6	50	1445	1.3	40	1300*	3.0	90	0354	1.6	50
● 1923	3.0	90	● 1902	3.0	90	1245	2.3	70	0354	1.6	50
12 Tu 0317	1.6	50	27 W 0319	1.6	50	1611	2.0	60	0549	1.0	30
0747	3.0	90	0738	3.0	90	2023	2.6	80	0549	1.0	30
1553	1.6	50	1556	1.3	40	1300*	3.0	90	0549	1.0	30
2026	3.0	90	1958	2.6	80	2223	2.6	80	0549	1.0	30
13 W 0417	1.6	50	2300	2.3	70	1809	1.6	50	0549	1.0	30
0900	3.0	90	27 0424	2.3	70	2243	2.6	80	0549	1.0	30
1658	1.6	50	0426	1.3	40	1809	1.6	50	0549	1.0	30
2154	3.0	90	0902	3.0	90	1339	3.3	100	0549	1.0	30
14 Th 0511	1.3	40	1056	2.6	80	1904	1.6	50	0549	1.0	30
1049	3.0	90	1249*	3.0	90	1904	1.3	40	0549	1.0	30
1756	1.6	50	1330	3.3	100	1951	1.3	40	0549	1.0	30
2315	3.0	90	1819	1.6	50	1951	1.3	40	0549	1.0	30
15 F 0602	1.0	30	2321	2.6	80	1958	1.0	30	0549	1.0	30
1217	3.3	100	29 0053	2.6	80	1958	1.0	30	0549	1.0	30
1845	1.6	50	0536	1.0	30	1958	1.0	30	0549	1.0	30
31 Su 0019	3.0	90	14 0617	1.0	30	1958	1.0	30	0549	1.0	30
0732	0.7	20	1308	3.3	100	1958	1.0	30	0549	1.0	30
1356	3.6	110	1904	1.3	40	1958	1.0	30	0549	1.0	30
2008	1.3	40	1945	1.3	40	1958	1.0	30	0549	1.0	30
31 Su 0123	3.0	90	31 W 0123	3.9	120	31 W 0847	0.3	10	28 Tu 0139	3.9	120
0732	0.7	20	1413	3.9	120	1413	3.9	120	0139	3.9	120
1356	3.6	110	2100	1.0	30	2100	1.0	30	0139	3.9	120
2008	1.3	40							0139	3.9	120

Time meridian 45° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.

Heights are referred to the chart datum of soundings.

* See Page 304 for the remaining tides on this day.

Rio de Janeiro, Brazil, 2016

Times and Heights of High and Low Waters

October					November					December							
	Time	Height		Time	Height		Time	Height		Time	Height		Time	Height			
1 Sa	0219	4.3	130	16 Su	0224	4.6	140	1 Tu	0311	4.3	130	16 W	0324	4.3	130		
	0928	0.7	20	0919	0.0	0	1009	1.0	30	1051	1.0	30	1030	1.3	40		
	1451	4.3	130	1447	3.9	120	1523	3.9	120	1521	3.6	110	1536	3.9	120		
	2130	0.7	20	O	2134	0.3	10	2209	0.7	20	2256	0.3	10	2232	0.7	20	
2 Su	0258	4.3	130	17 M	0300	4.6	140	2 W	0349	3.9	120	17 Th	0406	3.9	120		
	0958	0.7	20	1006	0.3	10	1045	1.3	40	1143	1.3	40	1109	1.3	40		
	1517	4.3	130	1511	3.9	120	1556	3.9	120	1600	3.6	110	1606	3.6	110		
	2156	0.7	20	2217	0.3	10	2245	0.7	20	2353	0.7	20	2313	0.7	20		
3 M	0332	4.3	130	18 Tu	0338	4.3	130	3 Th	0421	3.9	120	18 F	0453	3.6	110		
	1032	1.0	30	1058	0.7	20	1128	1.3	40	1236	1.6	50	1639	3.6	110		
	1553	3.9	120	1545	3.9	120	1624	3.6	110				Sa	1156	1.6	50	
	2228	1.0	30	2306	0.7	20	2330	1.0	30				1643	3.6	110		
4 Tu	0406	3.9	120	19 W	0413	3.9	120	4 F	0500	3.6	110	19 Sa	0053	1.0	30		
	1100	1.3	40	1153	1.3	40	1215	1.6	50	0539	3.3	100	0528	3.6	110		
	1619	3.9	120	1613	3.6	110	1658	3.3	100	1334	2.0	60	1251	1.6	50		
	2254	1.0	30							1719	3.3	100	1717	3.3	100		
5 W	0443	3.9	120	20 Th	0002	1.0	30	5 Sa	0024	1.0	30	20 Su	0154	1.0	30		
	1138	1.3	40	0458	3.6	110	0543	3.3	100	0632	3.0	90	0613	3.3	100		
	1651	3.6	110	1253	1.6	50	1315	2.0	60	0939	2.6	80	1351	2.0	60		
	2338	1.3	40	1654	3.3	100	1736	3.3	100	1113	2.6	80	1804	3.3	100		
6 Th	0515	3.6	110	21 F	0106	1.0	30	6 Su	0132	1.3	40	21 M	0258	1.3	40		
	1232	1.6	50	0547	3.3	100	0632	3.3	100	0738	3.0	90	0709	3.3	100		
	1719	3.3	100	0911	2.6	80	1423	2.0	60	1009	2.6	80	1453	1.6	50		
				1043	2.6	80	1817	3.0	90	O	1202	2.6	80	1902	3.0	90	
7 F	0049	1.3	40	22 Sa	0215	1.3	40	7 M	0239	1.3	40	22 Tu	0400	1.3	40		
	0558	3.3	100	0645	3.0	90	0741	3.0	90	0900	2.6	80	0824	3.0	90		
	1345	2.0	60	0921	2.6	80	1534	2.0	60	1639	2.0	60	1554	1.6	50		
	1756	3.0	90	O	1151	2.6	80	1924	2.6	80	2049	3.0	90	2023	3.0	90	
8 Sa	0202	1.3	40	23 Su	0328	1.3	40	8 Tu	0345	1.0	30	23 W	0500	1.3	40		
	0651	3.0	90	0804	2.6	80	1132	3.0	90	1023	3.0	90	0738	3.0	90		
	1153	2.3	70	0943	2.6	80	1636	1.6	50	1732	1.6	50	1654	1.3	40		
	1500	2.0	60	1232	3.0	90	2208	2.6	80	2223	3.0	90	2239	3.0	90		
9 Su	0311	1.3	40	24 M	0438	1.0	30	9 W	0443	1.0	30	24 Th	0554	1.0	30		
	0804	2.6	80	1254	3.0	90	1202	3.3	100	1121	3.3	100	1115	3.0	90		
	1011	2.6	80	1719	2.0	60	1730	1.3	40	1817	1.3	40	1654	1.3	40		
	O	1202	2.6	80	2130	2.6	80	2338	3.3	100	2332	3.3	100	2239	3.0	90	
10 M	0415	1.3	40	25 Tu	0538	1.0	30	10 Th	0539	0.7	20	25 F	0641	1.0	30		
	1217	3.0	90	1223	3.0	90	1232	3.6	110	1204	3.3	100	1204	3.3	100		
	1713	1.6	50	1809	1.6	50	1817	1.0	30	1858	1.0	30	1843	0.7	20		
	2330	2.6	80	2308	3.0	90							Sa	1230	3.3	100	
11 Tu	0513	1.0	30	26 W	0626	1.0	30	11 F	0021	3.6	110	11 Sa	0045	3.6	110		
	1238	3.3	100	1213	3.3	100	0632	0.3	10	0721	1.0	30	0706	0.7	20		
	1806	1.3	40	1854	1.3	40	1258	3.6	110	1247	3.6	110	1256	3.3	100		
							1904	0.7	20	1934	0.7	20	1932	0.7	20		
12 W	0009	3.3	100	27 Th	0000	3.6	110	12 Sa	0058	3.9	120	27 Tu	0104	3.9	120		
	0606	0.7	20	0709	0.7	20	0723	0.3	10	0800	1.0	30	0802	0.7	20		
	1302	3.6	110	1243	3.6	110	1324	3.9	120	1321	3.9	120	1326	3.6	110		
	1851	1.0	30	1928	1.0	30	1949	0.3	10	2008	0.7	20	2019	0.3	10		
13 Th	0045	3.6	110	28 F	0045	3.9	120	13 Su	0134	4.3	130	28 Tu	0145	3.9	120		
	0658	0.3	10	0751	0.7	20	0813	0.3	10	0838	1.0	30	0856	0.7	20		
	1326	3.9	120	1313	3.9	120	1351	3.9	120	1358	3.9	120	1358	3.6	110		
	1930	0.7	20	2000	0.7	20	2034	0.3	10	2045	0.3	10	O	2108	0.3	10	
14 F	0117	3.9	120	29 Sa	0121	3.9	120	14 M	0209	4.3	130	29 Tu	0219	3.9	120		
	0747	0.0	0	0826	0.7	20	0904	0.3	10	1417	3.9	120	1430	3.9	120		
	1354	3.9	120	1349	3.9	120	O	2117	0.3	10	●	2119	0.3	10			
	2009	0.7	20	2034	0.7	20							W	1434	3.6	110	
15 Sa	0153	4.3	130	30 Su	0200	4.3	130	15 Tu	0249	4.3	130	30 W	0258	3.9	120		
	0832	0.0	0	0900	0.7	20	0958	0.7	20	1451	3.9	120	0949	1.0	30		
	1419	4.3	130	1419	4.3	130	2204	0.3	10	1502	3.9	120	1434	3.6	110		
	2053	0.3	10	●	2104	0.7	20			2154	0.3	10	2158	0.3	10		
				31 M	0238	4.3	130							●	2138	0.3	10
				0936	1.0	30											
				1454	4.3	130											
				2138	0.7	20											

Time meridian 45° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.

Heights are referred to the chart datum of soundings.

* See Page 304 for the remaining tides on this day.

Santos, Brazil, 2016

Times and Heights of High and Low Waters

January				February				March			
Time	Height	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 F 0106	1.6	50	16 Sa 0143	1.0	30	1 M 0200	2.0	60	1 Tu 0317	2.3	70
0643	3.3	100	0656	3.3	100	0658	3.0	90	0532	3.0	90
1330	2.0	60	1326	2.3	70	1534	2.0	60	1436	2.0	60
1845	3.3	100	● 2213	3.3	100	● 2128	3.3	100	● 2009	3.3	100
2 Sa 0200	1.6	50	17 Su 0238	1.3	40	2 Tu 0317	2.3	70	2 W 0213	2.3	70
0800	3.0	90	0753	3.0	90	1200	3.0	90	0530	2.6	80
1458	2.0	60	1458	2.3	70	1654	1.6	50	1258	3.0	90
● 2053	3.3	100	1743	2.3	70	2308	3.6	110	1854	1.6	50
2323	3.6	110	1834	3.6	110	1832	0.7	20	1143	3.0	90
3 Su 0302	2.0	60	18 0343	1.6	50	3 W 0443	2.0	60	18 0111	4.3	130
1054	3.0	90	M 1215	3.0	90	1247	3.3	100	0617	2.0	60
1621	2.0	60	1819	2.0	60	1747	1.3	40	1319	3.3	100
2224	3.6	110	1832	1.6	50	1832	0.7	20	1911	1.3	40
4 M 0406	1.6	50	19 Tu 0021	3.9	120	4 Th 0009	3.9	120	19 0151	4.3	130
1202	3.3	100	0456	2.0	60	0551	2.0	60	0654	1.6	50
1719	1.3	40	1258	3.3	100	1321	3.6	110	1328	3.6	110
2326	3.9	120	1832	1.6	50	1832	0.7	20	1928	1.0	30
5 Tu 0506	1.6	50	20 W 0111	3.9	120	5 F 0100	4.3	130	20 0217	4.6	140
1249	3.6	110	0604	1.6	50	0647	1.6	50	0728	1.3	40
1804	1.0	30	1324	3.3	100	1358	3.9	120	1338	3.9	120
1856	1.3	40	1832	1.3	40	1915	0.3	10	1958	0.7	20
6 W 0017	4.3	130	21 Th 0156	4.3	130	6 Sa 0145	4.6	140	21 0239	4.6	140
0558	1.6	50	0700	1.6	50	0736	1.3	40	0804	1.0	30
1324	3.9	120	1336	3.6	110	1432	4.3	130	1358	4.3	130
1847	0.7	20	1930	1.0	30	2000	0.0	0	2032	0.3	10
7 Th 0102	4.3	130	22 F 0234	4.6	140	7 Su 0224	4.9	150	22 0300	4.6	140
0645	1.3	40	0747	1.3	40	0823	1.0	30	0843	1.0	30
1358	3.9	120	1345	3.9	120	1500	4.6	140	1421	4.6	140
1926	0.3	10	2008	0.7	20	2047	-0.3	-10	● 2106	0.3	10
8 F 0145	4.6	140	23 Sa 0300	4.6	140	8 M 0300	4.9	150	23 0917	0.7	20
0732	1.3	40	0826	1.3	40	0908	1.0	30	1453	4.9	150
1430	4.3	130	1404	4.3	130	1526	4.6	140	2143	0.3	10
2009	0.0	0	○ 2049	0.3	10	● 2132	-0.3	-10	● 2115	-0.3	-10
9 Sa 0223	4.9	150	24 Su 0321	4.6	140	9 Tu 0332	4.9	150	24 0341	4.6	140
0819	1.3	40	0904	1.0	30	0951	1.0	30	0956	0.7	20
1454	4.3	130	1428	4.6	140	1549	4.6	140	1521	4.9	150
● 2058	0.0	0	2126	0.3	10	2215	-0.3	-10	2215	0.7	20
10 Su 0302	4.9	150	25 M 0341	4.6	140	10 W 0402	4.9	150	25 0402	4.6	140
0906	1.0	30	0943	1.0	30	1026	1.0	30	1030	0.7	20
1517	4.3	130	1458	4.6	140	1609	4.3	130	1554	4.9	150
2145	0.0	0	2204	0.3	10	2300	0.0	0	2247	1.0	30
11 M 0339	4.9	150	26 Tu 0402	4.3	130	11 Th 0430	4.6	140	11 F 0426	4.3	130
0951	1.3	40	1015	1.0	30	1102	1.3	40	1102	1.0	30
1541	4.3	130	1526	4.6	140	1638	4.3	130	1624	4.6	140
2232	0.0	0	2243	0.7	20	2343	0.3	10	2308	1.3	40
12 Tu 0415	4.6	140	27 W 0426	4.3	130	12 F 0500	4.3	130	27 Sa 0451	3.9	120
1030	1.3	40	1053	1.0	30	1138	1.3	40	1123	1.3	40
1608	3.9	120	1600	4.6	140	1704	3.9	120	1656	4.3	130
2317	0.0	0	2313	1.0	30	2323	1.6	50	2319	0.7	20
13 W 0454	4.6	140	28 Th 0454	3.9	120	13 Sa 0023	1.0	30	13 F 0506	3.6	110
1108	1.6	50	1123	1.3	40	0528	3.6	110	1208	1.6	50
1641	3.9	120	1636	4.3	130	1208	1.6	50	1741	3.9	120
2347	1.3	40	2347	1.3	40	1738	3.6	110	2347	2.0	60
14 Th 0004	0.3	10	29 F 0521	3.6	110	14 Su 0109	1.3	40	1758	3.3	100
0532	4.3	130	1156	1.6	50	0600	3.3	100	2024*	3.0	90
1153	1.6	50	1711	3.9	120	1256	2.0	60	1417	2.3	70
1715	3.6	110	1821	3.0	90	2009*	3.0	90	0532	3.0	90
15 F 0053	0.7	20	30 Sa 0017	1.6	50	1502	2.0	60	0947	2.3	70
0609	3.6	110	0551	3.6	110	0630	3.0	90	1113	2.3	70
1234	2.0	60	1238	2.0	60	1009	2.3	70	1400	1.6	50
1824	3.3	100	1802	3.6	110	1113	2.3	70	1102	2.3	70
31 Su 0058	2.0	60	31 Su 0619	3.3	100	1400*	2.3	70	1345*	2.0	60
1131	3.3	100	1351	2.0	60	1919	3.3	100	1113	2.6	80
1521*	1.6	50	1351	2.0	60	1919	3.3	100	0402	2.6	80
● 1100	3.0	90	1351	2.0	60	1919	3.3	100	0741	2.3	70
1521*	1.6	50	1351	2.0	60	1919	3.3	100	1100	3.0	90

Time meridian 45° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.

Heights are referred to the chart datum of soundings.

* See Page 304 for the remaining tides on this day.

Santos, Brazil, 2016

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	0709	2.3	70	16 Sa	0034	3.9	120	1 Su	0653	1.6	50	16 M	0021	3.6	110
	1153	3.3	100		0539	2.3	70		1158	3.9	120		0528	1.6	50
	1641	1.3	40		1136	3.3	100		1702	1.0	30		1119	3.6	110
2 Sa															
	0000	3.9	120	17 Su	0058	3.9	120	2 M	0030	4.3	130	17 Tu	0049	3.9	120
	0711	2.0	60		0604	1.6	50		0704	1.3	40		0606	1.3	40
	1236	3.9	120		1204	3.6	110		1243	4.3	130		1204	3.9	120
3 Su															
	1747	1.0	30		1821	1.3	40		1804	0.7	20		1808	1.3	40
	0051	4.3	130	18 M	0119	4.3	130	3 Tu	0111	4.6	140	18 W	0117	4.3	130
	0723	1.6	50		0634	1.3	40		0721	1.3	40		0643	1.0	30
4 M															
	1313	4.3	130		1238	4.3	130		1324	4.6	140		1249	4.3	130
	1839	0.3	10		1900	1.0	30		1858	0.3	10		1858	1.3	40
	0130	4.6	140	19 Tu	0143	4.6	140	4 W	0147	4.6	140	19 Th	0147	4.3	130
5 Tu															
	0741	1.3	40		0708	0.7	20		0741	1.0	30		0719	0.7	20
	1354	4.6	140		1311	4.6	140		1406	4.6	140		1326	4.6	140
	1928	0.0	0		1938	0.7	20		1949	0.3	10		1941	1.0	30
6 W															
	0204	4.9	150	20 W	0206	4.6	140	5 Th	0213	4.6	140	20 F	0213	4.3	130
	0809	1.0	30		0747	0.7	20		0813	0.7	20		0758	0.3	10
	1430	4.9	150		1351	4.9	150		1445	4.9	150		1406	4.6	140
7 Th															
	2013	0.0	0		2015	0.7	20		2038	0.3	10		2021	1.0	30
	0234	4.9	150	21 Th	0232	4.6	140	6 F	0232	4.3	130	21 O	0239	4.3	130
	0841	0.7	20		0824	0.3	10		0851	0.7	20		0839	0.3	10
8 F															
	1502	4.9	150		1423	4.9	150		1523	4.9	150		1443	4.9	150
	2058	0.0	0		2051	0.7	20		● 2121	0.7	20		2056	1.0	30
	0256	4.6	140	22 F	0256	4.6	140	7 O	0249	4.3	130	22 W	0258	4.3	130
9 Sa															
	0917	0.7	20	22 F	0904	0.3	10	7 Sa	0932	0.7	20	22 W	0919	0.3	10
	1530	4.9	150		1458	4.9	150		1553	4.6	140		1517	4.9	150
	● 2139	0.0	0		O 2121	0.7	20		2202	0.7	20		2126	1.0	30
10 Su															
	0311	4.6	140	23 Sa	0313	4.3	130	8 Su	0304	4.3	130	23 M	0311	3.9	120
	0956	0.7	20		0945	0.3	10		1013	0.7	20		1004	0.3	10
	1556	4.6	140		1530	4.9	150		1621	4.3	130		1554	4.9	150
11 M															
	2219	0.3	10		2149	1.0	30		2243	1.0	30		2156	1.3	40
	0334	4.3	130	24 Su	0332	4.3	130	9 M	0326	3.9	120	24 Th	0324	3.9	120
	1034	0.7	20		1024	0.7	20		1100	0.7	20		1051	0.7	20
12 Su															
	1619	4.6	140	23 Su	1602	4.9	150	10 Tu	0353	3.9	120	10 W	0343	3.6	110
	2300	1.0	30		2209	1.3	40		1145	1.0	30		1138	0.7	20
	0356	3.9	120	25 M	0347	3.9	120	25 W	0343	3.6	110	10 F	0006	2.0	60
13 M															
	1109	1.0	30	26 Tu	1106	1.0	30	11 W	0411	3.6	110	10 F	0432	3.6	110
	1651	4.3	130		1639	4.6	140		1226	1.3	40		1253	1.3	40
	2341	1.3	40		2234	1.6	50		1806	3.6	110		2300	1.6	50
14 F															
	0413	3.6	110	26 Tu	0358	3.6	110	11 W	0000	2.0	60	11 F	0053	2.3	70
	1154	1.3	40		1151	1.0	30		0411	3.6	110		0508	3.3	100
	1719	3.6	110		1717	4.3	130		1226	1.3	40		1336	1.3	40
15 W															
	2013*	3.0	90		2343	2.3	70		1806	3.6	110		2341	2.0	60
	0113	2.3	70	27 W	0402	3.3	100	12 Th	0447	2.3	70	12 O	0154	2.3	70
	0454	3.3	100		1243	1.3	40		0438	3.3	100		0636	3.0	90
16 Th															
	0921	2.3	70	28 Th	0754	2.6	80	13 F	0143	2.6	80	13 W	0336	2.3	70
	1019	2.3	70		0913	2.6	80		1504	1.6	50		0621	2.6	80
	1330*	1.6	50		1341	1.3	40		1404	1.6	50		1515	1.6	50
17 O															
	0234	2.6	80	29 F	0051	2.6	80	14 Sa	0306	2.6	80	14 O	1413*	1.0	30
	0500	3.0	90		0339	3.0	90		0900	3.0	90		2029	2.6	80
	0941	2.3	70		0656	2.3	70		1504	1.6	50		0306	2.6	80
18 O															
	1104	2.3	70		1021	3.0	90		2356	3.6	110		0613	2.3	70
	1441	2.0	60		1447*	1.3	40		1041	3.6	110		1041	3.6	110
	0000	3.6	110	30 F	0645	2.0	60	15 Su	0439	2.3	70	15 W	0630	2.0	60
19 W															
	0626	2.6	80	30 F	1109	3.3	100		1032	3.3	100	30 W	0543	1.3	40
	1126	2.6	80		1554	1.0	30		1608	1.6	50		1138	3.9	120
	1604	1.6	50		● 2335	3.9	120					1717	1.0	30	
20 W												31 Tu	0009	3.9	120
	0000	3.6	110										0645	1.6	50
	0626	2.6	80										1213	4.3	130
	1126	2.6	80										1717	1.0	30
21 O															
	0000	3.6	110	30 F	0645	2.0	60	15 M	0439	2.3	70	30 W	0543	1.3	40
	0626	2.6	80		1109	3.3	100		1032	3.3	100		1138	3.9	120
	1126	2.6	80		1554	1.0	30		1608	1.6	50		1717	1.0	30
22 W															
	0000	3.6	110	30 F	2335	3.9	120	31 Tu	0009	3.9	120	31 W	0645	1.6	50
	0626	2.6	80										1213	4.3	130
	1126	2.6	80										1717	1.0	30

Time meridian 45° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.

Santos, Brazil, 2016

Times and Heights of High and Low Waters

July						August						September					
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height		Time	Height	
1 F 0139 0709 1349 1913	3.6	110	16 Sa 0134 0645 1256 1849	3.9	120	1 M 0215 0806 1509 2038	3.9	120	16 Tu 0223 0745 1413 2024	4.3	130	1 Th 0215 0851 1517 2111	4.6	140	16 F 0258 0849 1500 2121	4.9	150
	1.0	30		0.7	20		0.3	10		0.0	0		0.3	10		0.3	-10
	4.3	130		4.3	130		4.6	140		4.6	140		4.6	140		4.9	150
	1.6	50		1.6	50		1.3	40		1.3	40		0.7	20		0.7	20
2 Sa 0204 0738 1441 2011	3.9	120	17 Su 0202 0719 1341 1941	3.9	120	2 Tu 0219 0839 1539 2108	4.3	130	17 W 0251 0826 1451 2104	4.6	140	2 F 0241 0923 1536 2149	4.9	150	17 Sa 0323 0930 1526 2156	4.9	150
	0.7	20		0.3	10		0.3	10		-0.3	-10		0.3	10		-0.3	-10
	4.6	140		4.3	130		4.6	140		4.9	150		4.6	140		4.6	140
	1.3	40		1.6	50		1.0	30		1.0	30		0.7	20		0.7	20
3 Su 0219 0815 1526 2054	3.9	120	18 M 0234 0800 1423 2028	4.3	130	3 W 0232 0915 1556 2143	4.6	140	18 Th 0315 0909 1524 2139	4.6	140	3 Sa 0306 1000 1558 2221	4.9	150	18 Su 0345 1013 1553 2230	4.9	150
	0.7	20		0.0	0		0.3	10		-0.3	-10		0.3	10		0.0	0
	4.6	140		4.6	140		4.6	140		4.9	150		4.6	140		4.6	140
	1.3	40		1.3	40		1.0	30		1.0	30		0.7	20		0.7	20
4 M 0224 0856 1604 2132	3.9	120	19 Tu 0258 0843 1502 2109	4.3	130	4 Th 0254 0954 1611 2211	4.6	140	19 F 0336 0954 1556 2213	4.6	140	4 Su 0338 1032 1619 2254	4.9	150	19 M 0408 1058 1615 2304	4.6	140
	0.3	10		0.0	0		0.3	10		-0.3	-10		0.7	20		0.3	10
	4.6	140		4.9	150		4.6	140		4.9	150		4.3	130		4.3	130
	1.3	40		1.3	40		1.0	30		1.0	30		1.0	30		1.0	30
5 Tu 0241 0939 1628 2204	4.3	130	20 W 0319 0926 1538 2149	4.3	130	5 F 0317 1032 1630 2247	4.9	150	20 Sa 0358 1039 1623 2247	4.6	140	5 M 0406 1100 1645 2324	4.9	150	20 Tu 0436 1143 1645 2341	4.3	130
	0.3	10		0.0	0		0.3	10		0.0	0		1.3	40		1.0	30
	4.6	140		4.9	150		4.3	130		4.6	140		3.9	120		3.9	120
	1.3	40		1.0	30		1.0	30		1.0	30		1.0	30		1.3	40
6 W 0302 1019 1643 2239	4.3	130	21 Th 0338 1013 1613 2221	4.3	130	6 Sa 0349 1108 1654 2313	4.9	150	21 Su 0419 1121 1654 2315	4.6	140	6 Tu 0441 1121 1704 2354	4.6	140	21 W 0502 1228 1706 2354	3.9	120
	0.3	10		0.0	0		0.7	20		0.3	10		1.6	50		1.6	50
	4.3	130		4.9	150		4.3	130		4.3	130		3.6	110		3.6	110
	1.3	40		1.0	30		1.0	30		1.3	40		1.3	40		1.3	40
7 Th 0326 1102 1700 2308	4.3	130	22 F 0400 1100 1649 2256	4.3	130	7 Su 0417 1145 1717 2347	4.6	140	22 M 0449 1206 1719 2353	4.3	130	7 W 0513 1132 1721 2353	3.9	120	22 Th 0015 0541 0802 0945	1.6	50
	0.7	20		0.0	0		1.0	30		3.9	120		2.0	60		3.3	100
	4.3	130		4.6	140		3.9	120		3.9	120		3.3	100		3.0	90
	1.3	40		1.3	40		1.3	40		1.3	40		1.3	40		1.3	40
8 F 0356 1143 1723 2341	4.3	130	23 Sa 0423 1149 1721 2326	3.9	120	8 M 0453 1217 1745 2326	4.3	130	23 Tu 0513 1254 1753 2326	3.6	110	8 Th 0036 0602 1215 1734	2.0	60	23 F 0108 1100 1434 1753	2.0	60
	0.7	20		0.3	10		1.3	40		1.3	40		2.3	70		2.6	80
	3.9	120		4.3	130		3.6	110		3.6	110		3.0	90		3.0	90
	1.6	50		1.6	50		1.6	50		1.6	50		2.6	80		2.3	70
9 Sa 0426 1219 1753	4.3	130	24 Su 0456 1232 1758	3.6	110	9 Tu 0015 0530 1254 1806	1.6	50	24 W 0024 0553 0802 0941	1.6	50	9 F 0202 0736 1347 1349*	2.0	60	24 Sa 0245 0454 0558 1736	2.0	60
	1.0	30		0.7	20		3.6	110		3.3	100		3.3	100		2.3	70
	3.6	110		3.9	120		3.9	120		3.0	90		2.6	80		2.6	80
	3.6	110		3.6	110		3.0	90		3.3	100		3.0	90		3.9	120
10 Su 0009 0502 1300 1821	1.6	50	25 M 0002 0532 1317 1834	1.6	50	10 W 0104 0634 1345 1826	2.0	60	25 Th 0117 0634 1453 1849	2.0	60	10 Sa 0402 1034 1545 1713	2.0	60	25 M 0013 0636 1239 1824	3.0	90
	3.9	120		3.3	100		3.3	100		2.3	70		2.6	80		1.6	50
	1.3	40		1.0	30		2.0	60		2.3	70		2.6	80		2.3	70
	3.6	110		3.6	110		3.6	110		2.6	80		2.3	70		2.3	70
11 M 0054 0554 1347 1858	2.0	60	26 Tu 0049 0947 1408 1908	2.0	60	11 Th 0106 0904 1451 1849	2.3	70	26 F 0006 0630 1202 2113	2.6	80	11 Su 0115 0515 1145 1924	3.3	100	26 M 0043 0649 1308 1826	3.3	100
	3.3	100		3.3	100		3.0	90		2.0	60		1.0	30		1.3	40
	1.6	50		1.3	40		2.3	70		2.3	70		2.3	70		2.0	60
	1.6	50		1.3	40		2.6	80		2.6	80		2.6	80		2.0	60
12 Tu 0209 0800 1436 1943	2.3	70	27 W 0158 0424 0558 1058	2.3	70	12 F 0013 0456 1058 1606	3.0	90	27 Sa 0056 0656 1256 1839	3.0	90	12 M 0054 0602 1234 1915	3.6	110	27 Tu 0053 0658 1338 1851	3.6	110
	3.3	100		2.6	80		2.0	60		1.6	50		1.0	30		1.0	30
	2.0	60		2.3	70		3.3	100		4.3	130		4.3	130		4.6	140
	3.0	90		3.6	110		2.3	70		2.3	70		2.0	60		2.0	60
13 W 0409 1008 1534	2.0	60	28 Th 0009 0632 1200 1615	3.0	90	13 Sa 0051 0549 1158 1734	3.3	100	28 Su 0121 0715 1338 1919	3.3	100	13 Tu 0126 0645 1315 1936	3.9	120	28 W 0106 0717 1358 1923	3.9	120
	3.3	100		2.0	60		1.3	40		3.0	90		3.0	90		3.0	90
	3.3	100		1.3	40		3.6	110		3.6	110		4.6	140		4.6	140
	2.0	60		1.3	40		2.0	60		2.0	60		1.6	50		1.3	40
14 Th 0023 0521 1113 1639	3.3	100	29 F 0102 0654 1258 1745	3.3	100	14 Su 0121 0626 1249 1849	3.6	110	29 M 0141 0730 1409 1936	3.6	110	14 W 0200 0749 1354 2011	4.6	140	29 Th 0126 0745 1417 2000	4.6	140
	1.6	50		1.6	50		1.0	30		0.7	20		0.0	0		0.3	10
	1.6	50		1.3	40		1.3	40		4.9	150		4.6	140		4.6	140
	1.6	50		1.3	40		1.6	50		1.6	50		1.3	40		1.3	40
15 F 0100 0606 1208 1745	3.6	110	30 Sa 0139 0717 1351 1923	3.3	100	<											

Time meridian 45° W. 0000 is midnight. 1200 is noon. Times are not adjusted for Daylight Saving Time.

Heights are referred to the chart datum of soundings.

* See Page 304 for the remaining tides on this day.

Santos, Brazil, 2016

Times and Heights of High and Low Waters

October				November				December			
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height
1 Sa 0221 4.9 150	16 0304 4.9 150	1 Tu 0306 4.9 150	16 0354 4.6 140	1 Th 0324 4.9 150	16 0424 4.3 130	W 1013 1.0 30	W 1039 1.6 50	F 1521 3.9 120	F 1539 1.3 40	F 1553 3.9 120	F 1566 1.0 30
0851 0.3 10	Su 0906 0.0 0	Tu 0917 1.0 30	W 1058 1.6 50	Th 0921 1.3 40	17 0453 3.9 120	W 1539 3.9 120	W 1553 3.9 120	W 1566 1.0 30	W 1581 1.3 40	W 1598 3.9 120	W 1611 1.0 30
1502 4.6 140	Su 1454 4.6 140	Tu 1513 4.3 130	W 1539 3.9 120	Th 1509 3.9 120	17 1113 1.6 50	W 1554 3.6 110	W 1571 1.6 50	W 1584 1.3 40	W 1598 3.9 120	W 1615 3.6 110	W 1628 2.0 60
2115 0.3 10	O 2130 0.7 20	Tu 2204 0.7 20	W 2234 0.7 20	Th 2223 0.7 20	17 1553 3.9 120	W 2308 0.7 20	W 2311 1.0 30	W 2324 1.3 40	W 2337 1.6 50	W 2354 3.6 110	W 2367 2.0 60
2 Su 0254 5.2 160	17 0330 4.9 150	2 W 0339 4.9 150	17 0423 4.3 130	2 F 0400 4.6 140	17 0453 3.9 120	W 1530 3.9 120	W 1553 3.9 120	F 1566 1.0 30	F 1581 1.3 40	F 1598 3.9 120	F 1611 1.0 30
0924 0.7 20	M 0951 0.3 10	W 0941 1.3 40	W 1058 1.6 50	F 1530 3.9 120	18 0517 3.6 110	W 1554 3.6 110	W 1571 1.6 50	W 1584 1.3 40	W 1598 3.9 120	W 1615 3.6 110	W 1628 2.0 60
1524 4.3 130	M 1515 4.3 130	W 1534 3.9 120	W 1539 3.9 120	F 1604 3.6 110	18 1154 2.0 60	F 1623 3.9 120	F 1640 3.3 100	F 1653 3.0 90	F 1666 3.3 100	F 1683 3.0 90	F 1696 3.3 100
2156 0.7 20	2209 0.7 20	W 2247 0.7 20	W 2315 1.0 30	F 1634 3.6 110	19 0019 1.0 30	F 1654 3.3 100	F 1671 2.0 60	F 1684 3.0 90	F 1697 3.3 100	F 1714 3.0 90	F 1727 3.3 100
3 M 0321 5.2 160	18 0358 4.6 140	3 Th 0411 4.6 140	18 0458 3.9 120	3 Sa 0439 4.6 140	18 0517 3.6 110	W 1604 3.6 110	W 1623 3.0 90	F 1640 3.3 100	F 1653 3.0 90	F 1666 3.3 100	F 1683 3.0 90
0954 1.0 30	Tu 1034 0.7 20	Th 1002 1.6 50	W 1143 2.0 60	Sa 1026 1.6 50	18 1154 2.0 60	W 1623 3.0 90	W 1640 3.3 100	W 1653 3.0 90	W 1666 3.3 100	W 1683 3.0 90	W 1696 3.3 100
1549 4.3 130	Tu 1543 3.9 120	Th 1549 3.6 110	W 1604 3.6 110	Sa 1554 3.6 110	19 0019 1.0 30	W 1623 3.0 90	W 1640 3.3 100	W 1653 3.0 90	W 1666 3.3 100	W 1683 3.0 90	W 1696 3.3 100
2232 0.7 20	2251 0.7 20	W 2326 1.0 30	W 1634 3.6 110	F 1634 3.6 110	19 0019 1.0 30	F 1653 3.0 90	F 1671 2.0 60	F 1684 3.0 90	F 1697 3.3 100	F 1714 3.0 90	F 1727 3.3 100
4 Tu 0354 4.9 150	19 0424 4.3 130	4 F 0453 4.3 130	19 0000 1.0 30	4 Su 0523 4.3 130	19 0019 1.0 30	W 1604 3.6 110	W 1623 3.0 90	F 1640 3.3 100	F 1653 3.0 90	F 1666 3.3 100	F 1683 3.0 90
1015 1.3 40	W 1117 1.3 40	F 1600 3.6 110	W 1634 3.6 110	Sa 1609 3.3 100	19 0019 1.0 30	W 1623 3.0 90	W 1640 3.3 100	W 1653 3.0 90	W 1666 3.3 100	W 1683 3.0 90	W 1696 3.3 100
1606 3.9 120	1604 3.9 120	W 1634 3.6 110	W 1634 3.6 110	F 1634 3.6 110	19 0019 1.0 30	F 1653 3.0 90	F 1671 2.0 60	F 1684 3.0 90	F 1697 3.3 100	F 1714 3.0 90	F 1727 3.3 100
2306 1.0 30	2328 1.0 30	W 1634 3.6 110	W 1634 3.6 110	F 1634 3.6 110	19 0019 1.0 30	F 1653 3.0 90	F 1671 2.0 60	F 1684 3.0 90	F 1697 3.3 100	F 1714 3.0 90	F 1727 3.3 100
5 W 0424 4.6 140	20 0500 3.9 120	5 Sa 0011 1.3 40	20 0049 1.3 40	5 M 0049 1.0 30	20 0102 1.3 40	W 1604 3.6 110	W 1623 3.0 90	F 1640 3.3 100	F 1653 3.0 90	F 1666 3.3 100	F 1683 3.0 90
1028 1.6 50	Th 1204 2.0 60	Sa 0536 3.9 120	W 0754 3.0 90	M 0615 3.9 120	20 0102 1.3 40	W 1623 3.0 90	W 1640 3.3 100	W 1653 3.0 90	W 1666 3.3 100	W 1683 3.0 90	W 1696 3.3 100
1623 3.6 110	1632 3.6 110	Sa 1111 2.0 60	W 0954 3.3 100	M 1200 2.3 70	20 0102 1.3 40	M 1200 2.3 70	M 1217 2.6 80	M 1234 3.0 90	M 1251 3.3 100	M 1268 3.6 110	M 1285 3.9 120
2343 1.3 40	2343 1.3 40	W 1606 3.3 100	W 1708 3.3 100	W 1725 2.3 70	20 0102 1.3 40	W 1708 3.3 100	W 1725 2.3 70	W 1742 2.6 80	W 1759 3.0 90	W 1776 3.3 100	W 1793 3.6 110
6 Th 0502 4.3 130	21 0009 1.3 40	6 Su 0106 1.3 40	21 0139 1.6 50	6 Tu 0726 3.6 110	21 0154 1.6 50	W 1604 3.6 110	W 1623 3.0 90	F 1640 3.3 100	F 1653 3.0 90	F 1666 3.3 100	F 1683 3.0 90
1043 2.0 60	F 0541 3.3 100	Su 0639 3.6 110	W 0823 3.3 100	M 1421 2.6 80	21 0154 1.6 50	W 1623 3.0 90	W 1640 3.3 100	W 1653 3.0 90	W 1666 3.3 100	W 1683 3.0 90	W 1696 3.3 100
1638 3.3 100	F 0756 3.3 100	Su 1213 2.3 70	W 1538 2.3 70	O 1834 3.0 90	21 0154 1.6 50	O 1834 3.0 90	O 1851 2.3 70	O 1868 2.6 80	O 1885 3.0 90	O 1902 3.3 100	O 1919 3.6 110
1300* 2.3 70	1902* 2.3 70	W 1602 3.0 90	W 1708 3.3 100	W 1725 2.3 70	21 0154 1.6 50	W 1708 3.3 100	W 1725 2.3 70	W 1742 2.6 80	W 1759 3.0 90	W 1776 3.3 100	W 1793 3.6 110
7 F 0024 1.6 50	22 0102 1.6 50	7 M 0213 1.3 40	22 0238 1.6 50	7 W 0911 3.6 110	22 0253 1.6 50	W 1604 3.6 110	W 1623 3.0 90	F 1640 3.3 100	F 1653 3.0 90	F 1666 3.3 100	F 1683 3.0 90
0549 3.6 110	Sa 1043 3.3 100	M 0823 3.3 100	W 1130 3.3 100	Tu 1130 3.3 100	22 0253 1.6 50	W 1623 3.0 90	W 1640 3.3 100	W 1653 3.0 90	W 1666 3.3 100	W 1683 3.0 90	W 1696 3.3 100
1123 2.3 70	Sa 1404 2.6 80	M 1400 2.6 80	W 1538 2.3 70	W 1555 2.3 70	22 0253 1.6 50	W 1555 2.3 70	W 1572 2.3 70	W 1589 2.6 80	W 1606 3.0 90	W 1623 3.3 100	W 1640 3.6 110
1639 3.0 90	O 1715 3.0 90	O 1554 2.6 80	W 2134 3.3 100	O 1741 2.3 70	22 0253 1.6 50	O 1741 2.3 70	O 1758 2.6 80	O 1775 3.0 90	O 1792 3.3 100	O 1809 3.6 110	O 1826 3.9 120
8 Sa 0130 1.6 50	23 0206 1.6 50	8 Tu 0324 1.3 40	23 0345 1.6 50	8 F 1054 3.6 110	23 0356 1.6 50	W 1604 3.6 110	W 1623 3.0 90	F 1640 3.3 100	F 1653 3.0 90	F 1666 3.3 100	F 1683 3.0 90
0700 3.3 100	Su 1132 3.6 110	Tu 1030 3.6 110	W 1154 3.6 110	W 1641 2.0 60	23 0356 1.6 50	W 1641 2.0 60	W 1658 2.3 70	W 1675 2.6 80	W 1692 3.0 90	W 1709 3.3 100	W 1726 3.6 110
1243 2.3 70	1526 2.6 80	W 1526 2.6 80	W 1641 2.0 60	W 1725 2.3 70	23 0356 1.6 50	W 1725 2.3 70	W 1742 2.6 80	W 1759 3.0 90	W 1776 3.3 100	W 1793 3.6 110	W 1810 3.9 120
1624 3.0 90	1945 2.6 80	W 1819 2.0 60	W 2247 3.6 110	W 2334 3.6 110	23 0356 1.6 50	W 2334 3.6 110	W 2351 3.9 120	W 2368 4.2 130	W 2385 3.6 110	W 2402 4.3 120	W 2419 4.6 130
2000* 2.6 80	2138* 2.6 80	W 2330 3.6 110	W 2247 3.6 110	W 2338 3.9 120	24 0447 1.6 50	W 2338 3.9 120	W 2355 4.2 130	W 2372 4.9 140	W 2389 3.6 110	W 2406 4.3 120	W 2423 4.6 130
9 Su 0258 1.6 50	24 0336 1.6 50	9 W 0432 1.0 30	24 0447 1.6 50	9 F 1202 3.9 120	24 0458 1.6 50	W 1604 3.6 110	W 1623 3.0 90	F 1640 3.3 100	F 1653 3.0 90	F 1666 3.3 100	F 1683 3.0 90
0934 3.3 100	M 1206 3.9 120	M 1138 3.9 120	W 1826 1.6 50	W 1809 1.0 30	24 0458 1.6 50	W 1809 1.0 30	W 1826 1.6 50	W 1843 1.3 40	W 1860 1.0 30	W 1877 1.3 40	W 1894 1.6 50
1554 2.6 80	1647 2.3 70	W 1647 2.3 70	W 1826 1.6 50	W 1843 1.3 40	24 0458 1.6 50	W 1843 1.3 40	W 1860 1.0 30	W 1877 1.3 40	W 1894 1.6 50	W 1911 1.9 55	W 1928 2.2 60
01906 2.3 70	2323 3.0 90	W 2323 3.0 90	W 1843 1.3 40	W 1850 0.7 20	24 0458 1.6 50	W 1850 0.7 20	W 1867 1.0 30	W 1884 1.3 40	W 1901 1.6 50	W 1918 1.9 55	W 1935 2.2 60
10 M 0423 1.3 40	25 0517 1.6 50	10 Th 0530 0.7 20	25 0538 1.3 40	10 F 1247 3.9 120	25 0000 3.9 120	W 1604 3.6 110	W 1623 3.0 90	F 1640 3.3 100	F 1653 3.0 90	F 1666 3.3 100	F 1683 3.0 90
1115 3.6 110	Tu 1236 3.9 120	Tu 1224 4.3 130	W 1836 1.3 40	W 1853 0.7 20	25 0000 3.9 120	W 1853 0.7 20	W 1870 1.0 30	W 1887 1.3 40	W 1904 1.6 50	W 1921 1.9 55	W 1938 2.2 60
1854 2.0 60	W 1728 2.0 60	W 1725 2.3 70	W 1836 1.3 40	W 1853 0.7 20	25 0000 3.9 120	W 1853 0.7 20	W 1870 1.0 30	W 1887 1.3 40	W 1904 1.6 50	W 1921 1.9 55	W 1938 2.2 60
1115 3.6 110	2345 3.6 110	W 2345 3.6 110	W 1836 1.3 40	W 1853 0.7 20	25 0000 3.9 120	W 1853 0.7 20	W 1870 1.0 30	W 1887 1.3 40	W 1904 1.6 50	W 1921 1.9 55	W 1938 2.2 60
11 Tu 0009 3.6 110	26 0554 1.3 40	11 F 0619 0.3 10	26 0021 4.3 140	11 M 0621 1.0 30	26 0047 4.3 130	W 1604 3.6 110	W 1623 3.0 90	F 1640 3.3 100	F 1653 3.0 90	F 1666 3.3 100	F 1683 3.0 90
0523 1.0 30	W 1256 4.3 130	F 1628 1.0 30	W 1708 0.3 10	W 1725 1.0 30	26 0047 4.3 130	W 1725 1.0 30	W 1742 1.3 40	W 1759 1.6 50	W 1776 1.9 55	W 1793 2.2 60	W 1810 2.5 70
1208 4.3 130	1806 1.3 40	W 1806 1.3 40	W 1708 0.3 10	W 1725 1.0 30	26 0047 4.3 130	W 1725 1.0 30	W 1742 1.3 40	W 1759 1.6 50	W 1776 1.9 55	W 1793 2.2 60	W 1810 2.5 70
1854 1.6 50	1806 1.3 40	W 1806 1.3 40	W 1708 0.3 10	W 1725 1.0 30	26 0047 4.3 130	W 1725 1.0 30	W 1742 1.3 40	W 1759 1.6 50	W 1776 1.9 55	W 1793 2.2 60	W 1810 2.5 70
12 W 0053 4.3 1											

Buenos Aires, Argentina, 2016

Times and Heights of High and Low Waters

January				February				March			
Time	Height	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 F 0037	4.3	130	16 Sa 0004	4.6	140	1 M 0125	3.9	120	16 Tu 0150	4.6	140
0805	2.0	60	0722	2.0	60	0815	2.0	60	0040	3.9	120
1214	2.6	80	1122	3.3	100	1232	2.6	80	0712	2.0	60
1828	1.3	40	● 1846	1.0	30	1852	1.3	40	1148	3.0	90
									1833	1.3	40
2 Sa 0123	4.3	130	17 Su 0101	4.9	150	2 Tu 0201	3.9	120	2 W 0244	4.6	140
0845	2.0	60	0817	2.0	60	0855	2.0	60	0110	3.9	120
1255	2.6	80	1220	3.3	100	1318	2.6	80	0740	2.0	60
● 1855	1.3	40	1945	1.3	40	1934	1.6	50	1229	3.0	90
									1913	1.6	50
3 Su 0207	3.9	120	18 M 0156	4.9	150	3 W 0235	3.9	120	3 Th 0339	4.3	130
0928	2.0	60	0913	2.0	60	0937	2.0	60	0138	3.6	110
1340	2.3	70	1322	3.3	100	1418	2.6	80	0813	2.0	60
1927	1.6	50	2049	1.3	40	2027	2.0	60	1317	3.0	90
									2003	1.6	50
4 M 0251	3.9	120	19 Tu 0252	4.6	140	4 Th 0309	3.6	110	4 F 0437	3.9	120
1015	2.0	60	1009	2.0	60	1019	2.0	60	0211	3.6	110
1435	2.3	70	1429	3.3	100	1529	2.6	80	0856	2.0	60
2011	1.6	50	2156	1.6	50	2130	2.0	60	1418	3.3	100
									2103	2.0	60
5 Tu 0334	3.9	120	20 W 0348	4.6	140	5 F 0347	3.6	110	5 Sa 0014	2.0	60
1103	2.0	60	1104	1.6	50	1102	2.0	60	0253	3.6	110
1546	2.3	70	1543	3.3	100	1639	3.0	90	0950	2.0	60
2106	2.0	60	2306	1.6	50	2241	2.3	70	1529	3.3	100
									2213	2.0	60
6 W 0415	3.6	110	21 Th 0445	4.3	130	6 Sa 0430	3.6	110	6 Su 0127	2.0	60
1146	2.0	60	1157	1.6	50	1147	1.6	50	0345	3.6	110
1700	2.6	80	1704	3.6	110	1741	3.3	100	1049	1.6	50
2211	2.0	60				2356	2.3	70	1641	3.6	110
									2329	2.3	70
7 Th 0452	3.6	110	22 F 0018	2.0	60	7 Su 0518	3.6	110	7 M 0234	2.3	70
1223	1.6	50	0543	4.3	130	1233	1.6	50	0442	3.6	110
1757	3.0	90	1249	1.6	50	1834	3.6	110	1149	1.6	50
2323	2.3	70	1825	3.9	120				1746	3.9	120
									2035	4.3	130
8 F 0528	3.6	110	23 Sa 0129	2.0	60	8 M 0110	2.3	70	8 Tu 0332	2.3	70
1255	1.6	50	0638	3.9	120	0606	3.6	110	0045	2.3	70
1840	3.3	100	1339	1.3	40	1321	1.3	40	0539	3.6	110
			○ 1933	3.9	120	● 1922	3.9	120	1250	1.3	40
									● 1846	4.3	130
9 Sa 0036	2.3	70	24 Su 0238	2.0	60	9 Tu 0219	2.3	70	9 W 0418	2.3	70
0603	3.6	110	0729	3.9	120	0654	3.6	110	0836	3.3	100
1326	1.3	40	1427	1.3	40	1412	1.3	40	1538	1.3	40
● 1918	3.6	110	2030	4.3	130	2011	4.3	130	2155	4.3	130
									1942	4.6	140
10 Su 0144	2.3	70	25 M 0341	2.3	70	10 W 0321	2.3	70	10 Th 0452	2.3	70
0641	3.6	110	0813	3.6	110	0741	3.6	110	0258	2.3	70
1401	1.3	40	1512	1.3	40	1504	1.0	30	0724	3.6	110
1956	3.9	120	2121	4.3	130	2102	4.6	140	1449	1.0	30
									2227	4.3	130
11 M 0245	2.3	70	26 Tu 0437	2.3	70	11 Th 0419	2.3	70	11 F 0519	2.3	70
0721	3.6	110	0854	3.3	100	0830	3.6	110	0937	3.3	100
1440	1.3	40	1554	1.3	40	1558	1.0	30	1646	1.3	40
2037	3.9	120	2206	4.3	130	2158	4.6	140	2259	3.9	120
									1647	1.0	30
12 Tu 0343	2.3	70	27 W 0526	2.3	70	12 F 0514	2.3	70	12 Sa 0545	2.0	60
0803	3.6	110	0931	3.3	100	0919	3.6	110	0908	3.3	100
1523	1.0	30	1632	1.3	40	1653	1.0	30	1713	1.3	40
2121	4.3	130	2248	4.3	130	2258	4.9	150	2333	3.9	120
									2242	4.9	150
13 W 0438	2.3	70	28 Th 0606	2.3	70	13 Sa 0606	2.0	60	13 Su 0613	2.0	60
0848	3.3	100	1008	3.0	90	1012	3.6	110	1040	3.3	100
1610	1.0	30	1705	1.3	40	1749	1.0	30	1736	1.3	40
2211	4.6	140	2328	4.3	130	2358	4.9	150	1745	1.0	30
									2344	4.6	140
14 Th 0533	2.0	60	29 F 0638	2.3	70	14 Su 0658	2.0	60	14 M 0007	3.9	120
0935	3.3	100	1044	3.0	90	1107	3.6	110	0643	2.0	60
1659	1.0	30	1733	1.3	40	1846	1.0	30	1113	3.0	90
2306	4.6	140							1801	1.3	40
15 F 0628	2.0	60	30 Sa 0008	4.3	130	15 M 0055	4.9	150	15 Tu 0042	4.6	140
1027	3.3	100	0707	2.0	60	0750	2.0	60	0717	2.0	60
1751	1.0	30	1119	2.6	80	1207	3.6	110	1155	3.9	120
			1755	1.3	40	● 1946	1.0	30	● 1944	1.0	30
31 Su 0047	4.3	130	31 Su 0739	2.0	60				31 Th 0018	3.6	110
			1154	2.6	80				0644	2.0	60
			1819	1.3	40				1153	3.6	110
									● 1902	1.6	50

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

Buenos Aires, Argentina, 2016

Times and Heights of High and Low Waters

April					May					June					
	Time	Height		Time	Height										
	h m	ft cm		h m	ft cm										
1 F	0049	3.3 100	16 Sa	0311	3.3 100	1 Su	0059	3.0 90	16 M	0343	2.6 80	1 W	0226	3.0 90	
	0720	2.0 60		0927	2.0 60		0740	1.6 50		0950	1.6 50		0937	1.0 30	
	1236	3.6 110		1515	3.9 120		1308	3.6 110		1613	3.6 110		1520	3.9 120	
	1949	1.6 50		2252	1.6 50		2040	1.6 50		2332	1.6 50		2245	1.6 50	
2 Sa	0128	3.3 100	17 Su	0414	3.3 100	2 M	0150	3.0 90	17 Tu	0449	2.6 80	2 Th	0325	3.3 100	
	0807	2.0 60		1030	1.6 50		0840	1.3 40		1053	1.6 50		1047	1.0 30	
	1331	3.6 110		1643	3.9 120		1416	3.9 120		1727	3.3 100		1628	3.9 120	
	2048	2.0 60					2148	1.6 50					2349	1.6 50	
3 Su	0216	3.3 100	18 M	0000	1.6 50	3 Tu	0248	3.0 90	18 W	0025	1.6 50	3 F	0426	3.3 100	
	0905	1.6 50		0524	3.0 90		0946	1.3 40		0550	2.6 80		1157	1.0 30	
	1439	3.6 110		1135	1.6 50		1529	3.9 120		1156	1.6 50		1735	3.9 120	
	2157	2.0 60		1805	3.6 110		2300	1.6 50		1828	3.3 100				
4 M	0313	3.3 100	19 Tu	0104	2.0 60	4 W	0350	3.3 100	19 Th	0107	1.6 50	4 Sa	0048	1.6 50	
	1010	1.6 50		0626	3.0 90		1057	1.3 40		0636	2.6 80		1307	1.0 30	
	1554	3.9 120		1236	1.6 50		1642	4.3 130		1252	1.6 50		1838	3.9 120	
	2312	2.0 60		1907	3.6 110					1913	3.3 100				
5 Tu	0415	3.3 100	20 W	0154	2.0 60	5 Th	0009	1.6 50	20 F	0140	1.6 50	5 Su	0143	1.6 50	
	1117	1.6 50		0711	3.0 90		0452	3.3 100		0708	3.0 90		0623	3.9 120	
	1707	3.9 120		1330	1.6 50		1208	1.3 40		1341	1.3 40		1414	1.0 30	
				1954	3.6 110		1749	4.3 130		1946	3.3 100		1940	3.9 120	
6 W	0026	2.0 60	21 Th	0229	2.0 60	6 F	0111	1.6 50	21 Sa	0212	1.6 50	6 M	0235	1.6 50	
	0516	3.3 100		0742	3.3 100		0550	3.6 110		0733	3.0 90		0720	3.9 120	
	1225	1.3 40		1417	1.6 50		1318	1.0 30		1424	1.3 40		1519	1.0 30	
	1813	4.3 130		2028	3.6 110		● 1853	4.3 130		○ 2011	3.3 100		2040	3.9 120	
7 Th	0134	2.0 60	22 F	0256	2.0 60	7 Sa	0208	1.6 50	22 Su	0244	1.6 50	7 Tu	0326	1.6 50	
	0613	3.6 110		0804	3.3 100		0645	3.9 120		0757	3.3 100		0817	4.3 130	
	1332	1.3 40		1457	1.3 40		1425	1.0 30		1503	1.3 40		1622	1.0 30	
	● 1915	4.6 140		2052	3.6 110		1954	4.3 130		2033	3.3 100		2141	3.6 110	
8 F	0233	2.0 60	23 Sa	0324	2.0 60	8 Su	0300	1.6 50	23 M	0315	1.6 50	8 W	0416	1.6 50	
	0705	3.9 120		0826	3.3 100		0738	4.3 130		0823	3.3 100		0917	4.3 130	
	1437	1.0 30		1533	1.3 40		1529	1.0 30		1540	1.3 40		1722	1.0 30	
	2015	4.6 140		2115	3.6 110		2056	4.3 130		2057	3.3 100		2240	3.3 100	
9 Sa	0327	2.0 60	24 Su	0353	2.0 60	9 M	0350	1.6 50	24 Tu	0344	1.6 50	9 Th	0505	1.3 40	
	0756	3.9 120		0851	3.3 100		0832	4.3 130		0852	3.6 110		1020	4.3 130	
	1539	1.0 30		1607	1.3 40		1631	1.0 30		1616	1.3 40		1820	1.0 30	
	2117	4.6 140		2140	3.3 100		2200	3.9 120		2123	3.0 90		2335	3.3 100	
10 Su	0418	2.0 60	25 M	0422	2.0 60	10 Tu	0439	1.6 50	25 W	0411	1.6 50	10 F	0553	1.3 40	
	0848	4.3 130		0919	3.6 110		0929	4.3 130		0924	3.6 110		1125	3.9 120	
	1640	1.0 30		1639	1.3 40		1731	1.0 30		1651	1.3 40		1915	1.3 40	
	2221	4.6 140		2206	3.3 100		2302	3.9 120		2154	3.0 90				
11 M	0507	2.0 60	26 Tu	0448	1.6 50	11 W	0527	1.6 50	26 Th	0439	1.3 40	11 Sa	0027	3.0 90	
	0943	4.3 130		0949	3.6 110		1031	4.3 130		0956	3.6 110		0641	1.3 40	
	1739	1.0 30		1709	1.3 40		1831	1.0 30		1727	1.3 40		1229	3.9 120	
	2324	4.3 130		2233	3.3 100					2230	3.0 90		2008	1.3 40	
12 Tu	0555	2.0 60	27 W	0512	1.6 50	12 Th	0001	3.6 110	27 F	0512	1.3 40	12 Su	0115	3.0 90	
	1042	4.3 130		1020	3.6 110		0615	1.6 50		1031	3.6 110		0729	1.3 40	
	1839	1.0 30		1740	1.3 40		1136	4.3 130		1806	1.3 40		1331	3.6 110	
				2303	3.3 100		1930	1.0 30		2309	3.0 90		2058	1.3 40	
13 W	0024	4.3 130	28 Th	0537	1.6 50	13 F	0056	3.3 100	28 Sa	0551	1.3 40	13 M	0202	2.6 80	
	0643	2.0 60		1052	3.6 110		0704	1.6 50		1111	3.6 110		0817	1.3 40	
	1145	4.3 130		1814	1.3 40		1242	4.3 130		1849	1.3 40		1431	3.3 100	
	1939	1.0 30		2337	3.3 100		● 2030	1.3 40		2353	3.0 90		2145	1.3 40	
14 Th	0120	3.9 120	29 F	0608	1.6 50	14 Sa	0149	3.3 100	29 Su	0637	1.3 40	14 Tu	0252	2.6 80	
	0734	2.0 60		1127	3.6 110		0756	1.6 50		1201	3.6 110		0907	1.3 40	
	1251	4.3 130		1854	1.6 50		1348	3.9 120		1938	1.3 40		1533	3.3 100	
	● 2041	1.3 40					2130	1.3 40		● O			2231	1.6 50	
15 F	0214	3.6 110	30 Sa	0015	3.3 100	15 Su	0243	3.0 90	30 M	0040	3.0 90	15 W	0345	2.6 80	
	0828	2.0 60		0649	1.6 50		0851	1.6 50		0730	1.3 40		1000	1.3 40	
	1359	3.9 120		1212	3.6 110		1457	3.6 110		1302	3.9 120		1635	3.0 90	
	2145	1.3 40		● 1942	1.6 50		2231	1.6 50		2035	1.3 40		2318	1.6 50	

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

Buenos Aires, Argentina, 2016

Times and Heights of High and Low Waters

July				August				September				
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	
h m	ft	cm		h m	ft	cm		h m	ft	cm		
1 F 0304	3.3	100		16 Sa 0413	2.6	80		1 M 0456	3.9	120		
1044	1.0	30	Sa 1054	1.3	40	M 1256	1.0	30	Tu 1204	1.3	40	
1622	3.6	110	1718	2.6	80	1826	3.3	100	1733	2.6	80	
2325	1.6	50	2335	1.6	50		2340	1.6	50	2340	1.6	50
2 Sa 0404	3.6	110	17 Su 0502	2.6	80	2 Tu 0058	1.6	50	2 W 0544	3.3	100	
1152	1.0	30	1800	2.6	80	603	3.9	120	17 W 1304	1.3	40	
1726	3.6	110				1403	1.0	30	1819	2.6	80	
						● 1928	3.3	100				
3 Su 0023	1.6	50	18 M 0019	1.6	50	3 W 0155	1.6	50	18 Th 0039	1.6	50	
0506	3.6	110	0547	3.0	90	7078	3.9	120	0632	3.6	110	
1300	1.0	30	1249	1.3	40	1507	1.3	40	1401	1.3	40	
1830	3.6	110	1835	2.6	80	2024	3.0	90	1904	2.6	80	
4 M 0119	1.6	50	19 M 0059	1.6	50	4 Th 0250	1.3	40	4 W 0139	1.3	40	
0607	3.9	120	0629	3.3	100	8088	3.9	120	719	3.9	120	
1407	1.0	30	1342	1.3	40	1604	1.3	40	1455	1.3	40	
● 1931	3.6	110	○ 1906	2.6	80	2112	3.0	90	1949	3.0	90	
5 Tu 0213	1.6	50	20 W 0138	1.6	50	5 F 0342	1.3	40	20 Sa 0238	1.3	40	
0708	3.9	120	0708	3.3	100	9095	3.9	120	806	3.9	120	
1511	1.0	30	1432	1.3	40	1654	1.3	40	1546	1.3	40	
2030	3.3	100	1941	2.6	80	2156	3.0	90	2035	3.0	90	
6 W 0306	1.3	40	21 Th 0220	1.3	40	6 Sa 0431	1.3	40	21 M 0454	1.3	40	
0808	3.9	120	0748	3.6	110	0958	3.6	110	1023	3.6	110	
1613	1.0	30	1520	1.3	40	1736	1.3	40	1723	1.6	50	
2126	3.3	100	2019	2.6	80	2236	3.0	90	2235	3.0	90	
7 Th 0357	1.3	40	22 F 0305	1.3	40	7 Su 0516	1.3	40	20 Tu 0521	1.0	30	
0908	3.9	120	0829	3.6	110	1050	3.6	110	0942	4.3	130	
1710	1.0	30	1608	1.3	40	1808	1.3	40	1700	1.6	50	
2218	3.0	90	2101	3.0	90	2313	3.0	90	2146	3.6	110	
8 F 0447	1.3	40	23 Sa 0354	1.3	40	8 M 0557	1.3	40	21 W 0522	1.0	30	
1010	3.9	120	0913	3.6	110	1140	3.3	100	1049	4.3	130	
1803	1.3	40	1654	1.3	40	1832	1.3	40	1747	1.6	50	
2307	3.0	90	2146	3.0	90	2350	3.0	90	2240	3.9	120	
9 Sa 0535	1.3	40	24 Su 0446	1.0	30	9 F 0635	1.3	40	22 Th 0622	1.0	30	
1111	3.6	110	1005	3.6	110	1227	3.3	100	1154	3.9	120	
1848	1.3	40	1741	1.3	40	1857	1.3	40	1834	1.6	50	
2352	3.0	90	2232	3.0	90				2339	3.9	120	
10 Su 0620	1.3	40	25 M 0539	1.0	30	10 W 0027	3.0	90	23 F 0723	1.0	30	
1209	3.6	110	1105	3.6	110	710	1.3	40	1255	3.9	120	
1927	1.3	40	1828	1.3	40	1312	3.3	100	1922	1.6	50	
			2320	3.0	90	● 1927	1.3	40	●			
11 M 0034	2.6	80	26 Tu 0634	1.0	30	10 Th 0103	3.0	90	10 W 0055	3.3	100	
0703	1.0	30	1210	3.6	110	0746	1.3	40	748	1.3	40	
1304	3.3	100	1917	1.3	40	1356	3.0	90	1327	3.0	90	
● 1958	1.3	40	○			1959	1.6	50	1906	1.6	50	
12 Tu 0115	2.6	80	27 W 0009	3.3	100	12 F 0141	3.0	90	25 Su 0140	4.3	130	
0744	1.0	30	0732	0.7	20	0826	1.3	40	0931	1.3	40	
1356	3.3	100	1314	3.6	110	1438	2.6	80	1451	3.3	100	
2028	1.3	40	2008	1.3	40	2033	1.6	50	2110	1.6	50	
13 W 0155	2.6	80	28 Th 0100	3.3	100	13 Sa 0222	3.0	90	26 M 0246	4.3	130	
0825	1.3	40	0833	0.7	20	0912	1.3	40	1038	1.3	40	
1447	3.0	90	1414	3.6	110	1520	2.6	80	1554	3.3	100	
2106	1.6	50	2102	1.6	50	2108	1.6	50	2005	1.6	50	
14 Th 0237	2.6	80	29 F 0153	3.3	100	14 Su 0309	3.0	90	27 Tu 0220	3.3	100	
0909	1.3	40	0937	0.7	20	1006	1.3	40	0926	1.6	50	
1538	3.0	90	1514	3.6	110	1603	2.6	80	1439	2.6	80	
2153	1.6	50	2200	1.6	50	2151	1.6	50	2050	1.6	50	
15 F 0323	2.6	80	30 Sa 0250	3.6	110	15 M 0400	3.0	90	27 W 0358	4.3	130	
0959	1.3	40	1042	1.0	30	1104	1.3	40	1147	1.3	40	
1629	2.6	80	1616	3.6	110	1647	2.6	80	1706	3.0	90	
2244	1.6	50	2259	1.6	50	2243	1.6	50	2316	1.6	50	
31 Su 0351	3.6	110				29 Th 0144	3.9	120	28 W 0518	3.9	120	
1149	1.0	30				0831	1.0	30	1256	1.3	40	
1721	3.3	100				1407	1.3	40	1821	3.0	90	
2359	1.6	50				2235	1.6	50				
31 W 0039	1.6	50				2337	1.6	50	2148	1.6	50	
0616	3.9	120							2148	1.6	50	
1402	1.3	40							● 1923	3.0	90	
1927	3.0	90										
2008	1.6	50										

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

Buenos Aires, Argentina, 2016

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	0217	1.6 50		16	0043	1.3 40	1	0321	2.0 60	16	0250
	0814	3.9 120	Su	0632	4.6 140	Tu	0846	3.6 110	W	0803	4.6 140
	1527	1.6 50		1407	1.6 50		1543	1.6 50		1521	1.6 50
	2041	3.0 90	O	1848	3.3 100		2107	3.3 100		2013	4.3 130
2 Su	0306	1.6 50	17	0155	1.3 40	2	0359	2.0 60	17	0357	1.3 40
	0849	3.9 120	M	0727	4.6 140	W	0909	3.6 110	Th	0902	4.3 130
	1556	1.6 50		1458	1.6 50		1611	1.3 40		1609	1.6 50
	2107	3.0 90		1939	3.6 110		2133	3.6 110		2111	4.6 140
3 M	0349	1.6 50	18	0303	1.3 40	3	0435	2.0 60	18	0502	1.3 40
	0919	3.6 110	Tu	0824	4.6 140	Th	0933	3.3 100	F	1004	3.9 120
	1620	1.6 50		1547	1.6 50		1637	1.3 40		1656	1.6 50
	2132	3.3 100		2030	3.9 120		2204	3.6 110		2215	4.6 140
4 Tu	0427	1.6 50	19	0408	1.3 40	4	0509	2.0 60	19	0606	1.3 40
	0949	3.6 110	W	0924	4.3 130	F	0958	3.3 100	Sa	1107	3.6 110
	1645	1.6 50		1635	1.6 50		1701	1.3 40		1744	1.3 40
	2201	3.3 100		2125	4.3 130		2238	3.6 110		2322	4.6 140
5 W	0502	1.6 50	20	0511	1.3 40	5	0542	2.0 60	20	0711	1.3 40
	1020	3.6 110	Th	1029	4.3 130	Sa	1026	3.3 100	Su	1207	3.3 100
	1712	1.6 50		1721	1.6 50		1721	1.3 40		1833	1.3 40
	2232	3.3 100		2224	4.3 130		2313	3.6 110		2331	3.9 120
6 Th	0535	1.6 50	21	0614	1.3 40	6	0617	2.0 60	21	0029	4.6 140
	1052	3.3 100	F	1134	3.9 120	Su	1057	3.0 90	M	0816	1.6 50
	1738	1.6 50		1809	1.6 50		1745	1.3 40		1305	3.3 100
	2306	3.3 100		2328	4.6 140		2349	3.9 120	O	1923	1.3 40
7 F	0606	1.6 50	22	0717	1.3 40	7	0656	2.0 60	22	0135	4.6 140
	1121	3.3 100	Sa	1235	3.6 110	M	1133	3.0 90	Tu	0921	1.6 50
	1800	1.6 50		1857	1.6 50		1817	1.3 40		1402	3.0 90
	2341	3.6 110	O						2015	1.6 50	
8 Sa	0639	1.6 50	23	0033	4.6 140	8	0028	3.9 120	23	0241	4.6 140
	1149	3.0 90	Su	0821	1.3 40	Tu	0741	2.0 60	W	1026	1.6 50
	1821	1.3 40		1333	3.3 100		1215	3.0 90		1506	2.6 80
				1949	1.6 50		1857	1.3 40		2112	1.6 50
9 Su	0017	3.6 110	24	0139	4.6 140	9	0113	3.9 120	24	0349	4.3 130
	0717	1.6 50	M	0928	1.3 40	W	0836	2.0 60	F	0928	2.0 60
	1219	3.0 90		1431	3.3 100		1305	2.6 80		1338	2.6 80
	O	1848	1.3 40	2045	1.6 50		1948	1.3 40		2212	2.0 60
10 M	0056	3.6 110	25	0248	4.3 130	10	0208	3.9 120	25	0456	4.3 130
	0801	1.6 50	Tu	1035	1.3 40	Th	0939	2.0 60	Sa	1226	1.6 50
	1256	3.0 90		1535	3.0 90		1404	2.6 80		1747	2.6 80
	1925	1.3 40		2145	1.6 50		2049	1.3 40		2316	2.0 60
11 Tu	0141	3.6 110	26	0402	4.3 130	11	0309	4.3 130	26	0555	3.9 120
	0855	1.6 50	W	1144	1.6 50	F	1047	2.0 60	Sa	1311	1.6 50
	1342	2.6 80		1652	2.6 80		1511	2.6 80		1848	2.6 80
	2014	1.3 40		2250	1.6 50		2157	1.3 40		2257	1.6 50
12 W	0234	3.6 110	27	0519	4.3 130	12	0411	4.3 130	27	0020	4.6 140
	0957	1.6 50	Th	1248	1.6 50	Sa	1151	1.6 50	Su	0641	3.9 120
	1440	2.6 80		1810	2.6 80		1620	3.0 90		1343	1.6 50
	2114	1.3 40		2356	1.6 50		2310	1.3 40		1932	3.0 90
13 Th	0335	3.9 120	28	0624	3.9 120	13	0512	4.6 140	28	0116	2.0 60
	1104	1.6 50	F	1342	1.6 50	Su	1249	1.6 50	M	0716	3.9 120
	1547	2.6 80		1910	3.0 90		1724	3.3 100		1410	1.6 50
	2221	1.3 40							2002	3.0 90	
14 F	0437	3.9 120	29	0058	1.6 50	14	0026	1.3 40	29	0206	2.0 60
	1211	1.6 50	Sa	0715	3.9 120	M	0610	4.6 140	Tu	0742	3.6 110
	1653	3.0 90		1423	1.6 50		1342	1.6 50		1438	1.3 40
	2331	1.3 40		1953	3.0 90	O	1822	3.6 110		2024	3.3 100
15 Sa	0536	4.3 130	30	0153	1.6 50	15	0140	1.3 40	30	0250	2.0 60
	1312	1.6 50	Su	0754	3.9 120	Tu	0707	4.6 140	W	0804	3.6 110
	1754	3.0 90		1452	1.6 50		1432	1.6 50		1507	1.3 40
				2022	3.0 90		1917	3.9 120		2046	3.3 100
31 Sa	0240	2.0 60	31	0240	2.0 60				31	0345	2.3 70
	0822	3.9 120	M	0822	3.9 120					0804	3.3 100
	1517	1.6 50		1517	1.6 50					1523	1.3 40
	2044	3.3 100		2044	3.3 100					2125	3.9 120

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

Puerto Ingeniero White, Argentina, 2016

Times and Heights of High and Low Waters

January				February				March			
Time	Height	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 F 0525	2.3	70	16 0452	2.3	70	1 M 0032	15.1	460	16 Tu 0624	1.3	40
1221	14.4	440	Sa 1059	14.1	430	M 0637	2.0	60	Tu 1256	14.1	430
1755	1.0	30	Sa 1715	1.3	40	M 1310	14.4	440	Tu 1832	2.0	60
● 2259	14.8	450	○ 1848	2.3	70	○ 1848	2.3	70	○ 1808	2.6	80
2 Sa 0028	15.1	460	17 Su 0544	2.0	60	2 Tu 0112	14.8	450	2 W 0045	14.4	440
0617	2.3	70	Su 1204	14.1	430	W 0723	2.0	60	W 0722	1.0	30
1309	14.4	440	Su 1803	1.3	40	Tu 1346	14.1	430	Th 1358	14.1	430
● 1842	1.6	50	M 2351	14.8	450	1928	3.0	90	1928	2.6	80
3 Su 0116	15.1	460	18 M 0640	1.6	50	3 W 0154	14.8	450	18 Th 0216	14.4	440
0709	2.3	70	1307	14.4	440	W 0808	2.0	60	W 0822	1.3	40
1354	14.4	440	M 1853	1.6	50	Th 1424	14.1	430	Th 1501	13.8	420
1928	2.3	70	● 2011	3.6	110	2011	3.6	110	2028	3.3	100
4 M 0205	14.8	450	19 Tu 0055	14.4	440	4 Th 0239	14.8	450	4 F 0333	14.1	430
0802	2.3	70	Tu 0738	1.6	50	W 0854	2.0	60	F 0923	1.3	40
1438	14.1	430	Tu 1409	14.1	430	M 1507	14.1	430	W 1608	13.8	420
2015	3.0	90	Tu 1947	2.3	70	2059	4.3	130	Th 2135	3.9	120
5 Tu 0253	14.8	450	20 W 0214	14.4	440	5 F 0327	14.8	450	5 Sa 0440	14.1	430
0854	2.3	70	W 0839	1.6	50	W 0942	2.0	60	Sa 1024	1.6	50
1520	14.1	430	W 1512	13.8	420	F 1555	13.8	420	Sa 1718	13.5	410
2104	3.6	110	W 2046	3.3	100	2153	4.6	140	● 2244	4.3	130
6 W 0341	14.8	450	21 Th 0334	14.1	430	6 Sa 0415	14.4	440	6 Su 0542	13.8	420
0944	2.3	70	Th 0940	1.6	50	Sa 1031	2.0	60	Su 1125	2.0	60
1605	13.8	420	Th 1616	13.5	410	Sa 1648	13.5	410	W 1825	13.8	420
2157	3.9	120	Th 2150	3.9	120	● 2251	4.6	140	Th 2349	4.3	130
7 Th 0427	14.4	440	22 F 0443	13.8	420	7 Su 0503	14.4	440	7 M 0641	13.8	420
1034	2.0	60	F 1042	2.0	60	Su 1123	2.0	60	W 1224	2.0	60
1653	13.8	420	F 1725	13.5	410	W 1744	13.5	410	M 1925	14.1	430
2253	4.3	130	F 2257	4.3	130	● 2348	4.6	140	○ 2306	4.6	140
8 F 0512	14.4	440	23 Sa 0546	13.8	420	8 M 0550	14.1	430	8 Tu 0047	3.9	120
1123	2.0	60	Sa 1142	2.0	60	W 1215	2.3	70	W 0737	13.8	420
1744	13.8	420	Sa 1834	13.1	400	M 1840	13.1	400	Tu 1319	2.0	60
2347	4.6	140	● 1938	13.5	410	● 2015	14.4	440	● 2058	14.8	450
9 Sa 0555	14.4	440	24 Su 0001	4.3	130	9 Tu 0040	4.6	140	9 W 0139	3.3	100
1212	2.0	60	Su 0644	13.5	410	W 0636	13.8	420	W 0831	13.8	420
1838	13.5	410	Su 1239	2.0	60	W 1305	2.3	70	M 1409	1.6	50
● 1938	13.5	410	● 1930	13.1	400	W 1930	13.1	400	● 2058	14.8	450
10 Su 0036	4.6	140	25 M 0058	3.9	120	10 W 0128	4.3	130	10 Th 0227	2.6	80
0637	14.4	440	M 0740	13.5	410	W 0720	13.8	420	W 0920	13.8	420
1258	2.0	60	M 1334	2.0	60	W 1352	2.6	80	M 1456	1.6	50
1930	13.5	410	M 2031	13.8	420	W 2009	13.5	410	W 2136	15.1	460
11 M 0120	4.3	130	26 Tu 0151	3.6	110	11 Th 0213	3.9	120	11 F 0313	2.3	70
0716	14.1	430	Tu 0835	13.5	410	W 0805	13.5	410	W 1005	13.8	420
1343	2.3	70	Tu 1425	1.6	50	Th 1438	2.3	70	W 1539	1.3	40
2014	13.5	410	Tu 2116	14.1	430	2040	13.5	410	● 2212	15.1	460
12 Tu 0201	4.3	130	27 W 0240	3.3	100	12 F 0258	3.3	100	12 W 0358	2.0	60
0752	13.8	420	W 0929	13.5	410	W 0854	13.5	410	W 1045	14.1	430
1425	2.3	70	W 1514	1.3	40	W 1522	2.0	60	W 1620	1.6	50
2047	13.5	410	W 2156	14.4	440	● 2112	13.8	420	● 2245	15.1	460
13 W 0240	3.9	120	28 Th 0329	2.6	80	13 Sa 0346	2.6	80	13 Su 0441	1.6	50
0829	13.8	420	Th 1021	13.8	420	Sa 0950	13.8	420	W 1121	14.1	430
1506	2.0	60	Th 1600	1.3	40	W 1607	2.0	60	W 1658	2.0	60
2113	13.8	420	Th 2236	14.8	450	W 2148	14.4	440	W 2314	15.1	460
14 Th 0321	3.6	110	29 F 0416	2.3	70	14 Su 0435	2.0	60	14 M 0523	1.6	50
0910	13.8	420	F 1108	14.1	430	Sa 1052	13.8	420	W 1153	14.1	430
1547	1.6	50	F 1645	1.3	40	Su 1653	1.6	50	W 1734	2.3	70
2142	14.1	430	F 2314	15.1	460	● 2233	14.8	450	W 2342	15.1	460
15 F 0404	3.0	90	30 Sa 0504	2.0	60	15 M 0528	1.6	50	15 Tu 0511	1.0	30
1000	13.8	420	Sa 1152	14.1	430	W 1155	14.1	430	W 1140	13.8	420
1630	1.3	40	Sa 1727	1.3	40	W 1741	1.6	50	W 1719	2.0	60
2217	14.4	440	Sa 2353	15.1	460	● 2329	14.8	450	● 2303	14.8	450
31 Su 0551	2.0	60	31 Su 1232	14.4	440	● 31 0551	2.0	60	31 Th 1208	14.4	440
1808	2.0	60	Su 1808	2.0	60	● 31 0606	1.0	30	● 31 1208	14.4	440

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

Puerto Ingeniero White, Argentina, 2016

Times and Heights of High and Low Waters

April				May				June			
Time	Height	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 F 0004	15.1	460	16 Sa 0200	14.4	440	1 Su 0015	15.1	460	16 W 0244	14.4	440
0645	1.0	30	0741	1.0	30	0654	0.7	20	0814	1.3	40
1246	14.4	440	1432	14.1	430	1252	14.4	440	1513	14.4	440
1846	3.3	100	1955	3.6	110	1905	3.3	100	2045	3.3	100
2 Sa 0053	15.1	460	17 Su 0308	14.4	440	2 M 0113	14.8	450	17 Tu 0342	14.4	440
0727	1.0	30	0840	1.3	40	0740	0.7	20	0913	2.0	60
1330	14.4	440	1539	14.4	440	1343	14.4	440	1614	14.8	450
1934	3.6	110	2105	3.9	120	2001	3.3	100	2152	3.3	100
3 Su 0148	14.8	450	18 M 0410	14.4	440	3 Tu 0214	14.8	450	18 W 0437	14.1	430
0814	1.0	30	0942	2.0	60	0831	1.3	40	1014	2.6	80
1420	14.1	430	1643	14.4	440	1440	14.1	430	1710	15.1	460
2028	3.9	120	2215	3.6	110	2102	3.6	110	2253	2.6	80
4 M 0246	14.8	450	19 Tu 0508	14.4	440	4 W 0315	14.4	440	19 Th 0531	14.1	430
0904	1.3	40	1043	2.3	70	0925	2.0	60	1113	2.6	80
1516	13.8	420	1743	14.8	450	1541	13.8	420	1801	15.4	470
2129	3.9	120	2319	3.3	100	2206	3.3	100	2348	2.3	70
5 Tu 0343	14.4	440	20 W 0604	14.1	430	5 Th 0414	14.1	430	20 F 0624	14.1	430
0959	2.0	60	1143	2.3	70	1023	2.6	80	1209	2.6	80
1616	13.8	420	1836	15.1	460	1643	13.8	420	1846	15.7	480
2233	3.9	120				2309	3.3	100			
6 W 0440	14.1	430	21 Th 0015	2.6	80	6 F 0512	13.5	410	21 W 0038	2.0	60
1056	2.6	80	0657	14.1	430	1123	3.3	100	0715	14.1	430
1716	13.5	410	1238	2.3	70	1738	13.8	420	1259	2.6	80
2334	3.6	110	1922	15.4	470				1928	15.7	480
7 Th 0535	13.8	420	22 F 0105	2.0	60	7 O 0008	3.0	90	22 W 0124	1.6	50
1154	3.0	90	0748	14.1	430	0611	13.1	400	0802	14.1	430
1809	13.5	410	1327	2.3	70	1222	3.6	110	1343	3.0	90
			2003	15.4	470	1823	13.8	420	2005	15.4	470
8 F 0031	3.3	100	23 Sa 0150	1.6	50	8 Su 0103	2.3	70	23 M 0206	1.3	40
0630	13.5	410	0835	14.1	430	0711	12.8	390	0846	14.1	430
1250	3.3	100	1411	2.3	70	1316	3.6	110	1422	3.0	90
1853	13.8	420	2040	15.4	470	1900	14.1	430	2037	15.4	470
9 Sa 0125	3.0	90	24 Su 0233	1.3	40	9 M 0156	2.0	60	24 Tu 0245	1.3	40
0726	13.1	400	0916	14.1	430	0811	12.8	390	0923	14.1	430
1342	3.0	90	1451	2.3	70	1407	3.3	100	1456	3.3	100
1930	13.8	420	2112	15.4	470	1936	14.4	440	2101	15.1	460
10 Su 0216	2.3	70	25 M 0313	1.3	40	10 W 0248	1.3	40	25 Tu 0321	1.3	40
0824	13.1	400	0952	14.1	430	0911	13.1	400	0905	12.8	390
1431	3.0	90	1526	2.6	80	1457	3.0	90	1438	3.3	100
2004	14.4	440	2137	15.1	460	2017	14.4	440	2001	14.1	430
11 M 0307	1.6	50	26 Tu 0350	1.3	40	11 W 0340	1.0	30	26 Sa 1008	13.5	410
0924	13.1	400	1021	14.1	430	1008	13.5	410	1011	13.8	420
1519	2.6	80	1557	3.0	90	1547	2.6	80	1557	3.6	110
2044	14.4	440	2154	15.1	460	2107	14.4	440	2142	14.8	450
12 Tu 0359	1.3	40	27 W 0424	1.3	40	12 Th 0433	0.7	20	27 O 0428	1.0	30
1023	13.5	410	1041	14.1	430	1105	13.8	420	1031	14.1	430
1607	2.3	70	1627	3.0	90	1638	2.6	80	1242	14.4	440
2132	14.8	450	2214	14.8	450	2222	14.4	440	1813	3.0	90
13 W 0452	0.7	20	28 Th 0457	1.0	30	13 F 0526	0.3	10	28 M 0503	0.7	20
1123	13.8	420	1101	14.1	430	1204	14.1	430	1059	14.4	440
1658	2.3	70	1658	3.3	100	1733	3.0	90	1708	3.3	100
2237	14.4	440	2244	15.1	460				2255	14.8	450
14 Th 0547	0.7	20	29 F 0533	1.0	30	14 Sa 0024	14.1	430	29 W 0542	0.7	20
1223	14.1	430	1131	14.4	440	0621	0.7	20	1135	14.4	440
1752	2.6	80	1734	3.3	100	1306	14.1	430	1752	3.0	90
			2325	15.1	460	1832	3.3	100	2347	14.8	450
15 F 0033	14.4	440	30 Sa 0611	0.7	20	15 Su 0140	14.4	440	30 M 0625	0.7	20
0643	0.7	20	1208	14.4	440	0716	1.0	30	1219	14.8	450
1326	14.1	430	1816	3.3	100	1409	14.4	440	1843	3.0	90
1850	3.3	100				1937	3.3	100	31 Tu 0047	14.8	450

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

Puerto Ingeniero White, Argentina, 2016

Times and Heights of High and Low Waters

July				August				September				
Time	Height	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 F 0232	14.1	430	16 Sa 0356	13.8	420	1 M 0433	12.8	390	1 Th 0700	13.1	400	
0831	2.3	70	0945	3.6	110	1015	3.9	120	1215	3.9	120	
1451	14.4	440	1629	15.1	460	1708	13.8	420	1915	13.8	420	
2124	2.6	80	2228	2.3	70	2311	2.6	80	●	O		
2 Sa 0335	13.5	410	17 Su 0446	13.5	410	2 0551	12.5	380	2 F 0056	2.6	80	
0930	3.0	90	1041	3.9	120	1122	4.6	140	0758	13.5	410	
1601	14.1	430	1714	15.1	460	1810	13.8	420	1311	3.6	110	
2227	2.6	80	2319	2.3	70	●			2011	14.1	430	
3 Su 0440	12.8	390	18 M 0539	13.5	410	3 W 0012	2.6	80	3 Sa 0150	2.0	60	
1033	3.9	120	1136	4.3	130	0707	12.5	380	0845	13.8	420	
1704	13.8	420	1757	15.1	460	1224	4.3	130	1402	3.0	90	
2328	2.3	70				1909	13.8	420	2101	14.1	430	
4 M 0550	12.5	380	19 Tu 0008	2.0	60	4 Th 0110	2.3	70	4 Su 0238	1.6	50	
1136	4.3	130	0635	13.1	400	0809	12.8	390	0925	14.4	440	
●	1759	13.8	420	1226	4.3	130	1321	3.9	120	1450	2.6	80
O			1838	15.1	460	2006	13.8	420	2146	14.4	440	
5 Tu 0027	2.3	70	20 W 0055	2.0	60	5 F 0204	2.0	60	5 M 0323	1.3	40	
0703	12.5	380	0728	13.5	410	0859	13.5	410	1003	14.8	450	
1236	4.3	130	1310	4.3	130	1413	3.6	110	1537	2.0	60	
1846	13.8	420	1917	14.8	450	2101	13.8	420	2227	14.4	440	
6 W 0123	2.0	60	21 Th 0139	2.0	60	6 Sa 0253	1.3	40	6 Tu 0405	1.0	30	
0810	12.5	380	0814	13.5	410	0942	13.8	420	1039	14.8	450	
1332	3.9	120	1349	3.9	120	1503	3.0	90	1622	2.0	60	
1930	13.8	420	1952	14.4	440	2153	14.1	430	2305	14.8	450	
7 Th 0217	1.6	50	22 F 0219	2.0	60	7 Su 0341	1.0	30	7 W 0445	1.3	40	
0904	13.1	400	0849	13.5	410	1023	14.4	440	1114	15.1	460	
1424	3.6	110	1427	3.9	120	1552	2.6	80	1706	1.6	50	
2022	13.8	420	2025	14.4	440	2242	14.4	440	2339	14.8	450	
8 F 0308	1.3	40	23 Sa 0257	1.6	50	8 M 0426	0.7	20	8 Th 0523	1.3	40	
0952	13.5	410	0914	13.5	410	1104	14.8	450	1148	15.1	460	
1515	3.3	100	1504	3.6	110	1641	2.3	70	1750	1.6	50	
2136	13.8	420	2058	14.4	440	2328	14.4	440	2211	14.4	440	
9 Sa 0358	0.7	20	24 Su 0334	1.3	40	9 Tu 0510	0.7	20	9 W 0010	14.4	440	
1038	14.1	430	0936	13.8	420	1146	14.8	450	0600	2.0	60	
1606	3.0	90	1544	3.3	100	1731	2.0	60	1222	14.8	450	
2249	14.1	430	2136	14.4	440				O 1832	1.6	50	
10 Su 0446	0.7	20	25 M 0412	1.0	30	10 W 0012	14.4	440	10 Sa 0041	14.4	440	
1125	14.4	440	1003	14.1	430	0553	1.0	30	0636	2.3	70	
1659	2.6	80	1627	2.6	80	1230	15.1	460	1259	14.8	450	
2350	14.4	440	2222	14.4	440	● 1820	2.0	60	1913	2.0	60	
11 M 0534	0.7	20	26 Tu 0453	0.7	20	11 Th 0052	14.4	440	11 Su 0115	14.4	440	
1215	14.8	450	1039	14.4	440	0635	1.6	50	0714	3.0	90	
1753	2.6	80	1715	2.3	70	1314	15.1	460	1342	14.8	450	
●			O 2315	14.4	440	1909	2.0	60	1956	2.0	60	
12 Tu 0044	14.4	440	27 W 0537	0.7	20	12 F 0132	14.1	430	12 M 0155	14.1	430	
0622	1.0	30	1122	14.8	450	0717	2.3	70	0758	3.3	100	
1308	14.8	450	1808	2.0	60	1400	14.8	450	1429	14.8	450	
1849	2.6	80				1957	2.3	70	2041	2.0	60	
13 W 0134	14.4	440	28 Th 0013	14.4	440	13 F 0204	13.8	420	13 Tu 0242	13.8	420	
0710	1.6	50	0623	1.0	30	0801	3.0	90	0848	3.9	120	
1401	15.1	460	1215	14.8	450	1445	14.8	450	1520	14.8	450	
1945	2.6	80	1904	2.0	60	2045	2.3	70	2130	2.3	70	
14 Th 0222	14.1	430	29 F 0114	14.4	440	14 Su 0254	13.8	420	14 W 0313	13.1	400	
0759	2.3	70	0714	1.6	50	0848	3.6	110	0853	3.6	110	
1453	15.1	460	1321	14.4	440	1531	14.8	450	1601	14.1	430	
2041	2.6	80	2003	2.0	60	2134	2.3	70	2150	2.3	70	
15 F 0309	13.8	420	30 Sa 0216	13.8	420	15 M 0342	13.5	410	16 Th 0430	12.8	390	
0850	3.0	90	0809	2.3	70	0941	4.3	130	1002	4.3	130	
1542	15.1	460	1440	14.4	440	1617	14.8	450	1710	14.1	430	
2135	2.6	80	2105	2.3	70	2225	2.3	70	2254	2.6	80	
31 W 0322	13.1	400	31 Su 0909	3.3	100				2319	2.6	80	
0959			1559	14.1	430				O			
2208	2.3	70	2208	2.3	70							

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

Puerto Ingeniero White, Argentina, 2016

Times and Heights of High and Low Waters

October				November				December								
	Time	Height			Time	Height			Time	Height						
1 Sa	0040	2.6	80	16 Su	0543	13.1	400	1 Tu	0158	2.3	70	16 W	0051	3.9	120	
	0736	14.1	430		1204	3.3	100		0831	15.1	460		0630	13.5	410	
	1259	3.0	90		1812	14.1	430		1414	1.6	50		1326	2.3	70	
	1958	14.4	440	O					2105	14.8	450		1936	13.1	400	
2 Su	0133	2.3	70	17 M	0029	3.3	100	2 W	0240	2.3	70	17 Th	0143	3.6	110	
	0821	14.4	440		0632	13.1	400		0908	15.1	460		0708	13.8	420	
	1348	2.3	70		1258	3.0	90		1456	1.3	40		1419	2.0	60	
	2046	14.4	440		1905	13.8	420		2142	14.8	450		2033	13.1	400	
3 M	0220	2.0	60	18 Tu	0122	3.3	100	3 Th	0318	2.3	70	18 F	0233	3.3	100	
	0902	14.8	450		0712	13.5	410		0941	14.8	450		0749	13.8	420	
	1434	2.0	60		1349	2.6	80		1536	1.3	40		1511	1.6	50	
	2129	14.8	450		1958	13.8	420		2214	14.8	450		2130	13.5	410	
4 Tu	0303	1.6	50	19 W	0210	3.0	90	4 F	0353	2.3	70	19 Sa	0323	3.0	90	
	0938	15.1	460		0746	13.8	420		1008	14.8	450		0837	14.1	430	
	1518	1.6	50		1440	2.0	60		1614	1.3	40		1604	1.3	40	
	2207	14.8	450		2051	13.8	420		2239	14.8	450		2226	13.8	420	
5 W	0342	1.6	50	20 Th	0257	2.6	80	5 Sa	0424	2.6	80	20 Su	0414	2.6	80	
	1012	15.1	460		0823	14.1	430		1028	14.4	440		0942	13.8	420	
	1601	1.3	40		1531	1.6	50		1648	1.3	40		1658	1.0	30	
	2240	14.8	450		2143	13.8	420		2258	14.8	450		2324	14.1	430	
6 Th	0419	1.6	50	21 F	0344	2.3	70	6 Su	0455	2.6	80	21 M	0507	2.6	80	
	1041	15.1	460		0906	14.4	440		1052	14.4	440		1152	13.8	420	
	1641	1.3	40		1622	1.3	40		1723	1.3	40		1752	1.0	30	
	2308	14.8	450		2237	14.1	430		2321	14.8	450	O	2320	14.8	450	
7 F	0454	2.0	60	22 Sa	0432	2.0	60	7 M	0527	2.6	80	22 Tu	0026	14.1	430	
	1107	14.8	450		1001	14.4	440		1126	14.8	450		0604	2.6	80	
	1719	1.3	40		1716	1.0	30		1758	1.0	30		1316	14.1	430	
	2331	14.8	450	O	2335	14.1	430	O	2352	14.8	450		1848	1.3	40	
8 Sa	0526	2.3	70	23 Su	0524	2.0	60	8 Tu	0605	2.6	80	23 W	0131	14.4	440	
	1132	14.8	450		1131	14.1	430		1211	14.8	450		0706	2.6	80	
	1756	1.3	40		1811	1.0	30		1837	1.0	30		1422	14.4	440	
	2357	14.8	450						1920	1.3	40		1945	1.6	50	
9 Su	0559	2.6	80	24 M	0037	14.1	430	9 W	0031	14.8	450	24 Th	0238	14.4	440	
	1206	14.8	450		0619	2.3	70		0648	2.6	80		0812	2.6	80	
	1833	1.3	40		1323	14.1	430		1302	15.1	460		1521	14.4	440	
O					1908	1.3	40		1920	1.3	40		2045	2.3	70	
10 M	0029	14.4	440	25 Tu	0145	13.8	420	10 Th	0116	14.8	450	25 F	0343	14.4	440	
	0636	3.0	90		0720	3.0	90		0738	2.6	80		0919	2.6	80	
	1249	14.8	450		1438	14.1	430		1357	15.1	460		1618	14.4	440	
	1913	1.3	40		2007	2.0	60		2008	1.6	50		2147	3.0	90	
11 Tu	0109	14.4	440	26 W	0256	13.8	420	11 F	0207	14.4	440	26 Sa	0444	14.8	450	
	0718	3.0	90		0828	3.3	100		0834	2.6	80		1023	2.3	70	
	1339	14.8	450		1543	14.4	440		1454	14.8	450		1713	14.4	440	
	1957	1.6	50		2110	2.3	70		2059	2.0	60		2249	3.0	90	
12 W	0155	14.1	430	27 Th	0408	13.8	420	12 Sa	0303	14.1	430	27 Su	0539	14.8	450	
	0808	3.3	100		0938	3.3	100		0934	3.0	90		1121	2.0	60	
	1433	14.8	450		1645	14.4	440		1550	14.4	440		1808	14.4	440	
	2045	2.0	60		2214	2.6	80		2155	3.0	90		2349	3.3	100	
13 Th	0247	13.8	420	28 F	0515	14.1	430	13 Su	0402	13.8	420	28 M	0629	15.1	460	
	0905	3.6	110		1046	3.3	100		1035	2.6	80		1214	1.6	50	
	1528	14.8	450		1744	14.4	440		1646	14.1	430		1900	14.4	440	
	2137	2.3	70		2318	3.0	90		2255	3.3	100		O	2324	3.9	120
14 F	0345	13.5	410	29 Sa	0614	14.4	440	14 M	0458	13.5	410	29 Tu	0043	3.0	90	
	1005	3.6	110		1146	2.6	80		1135	2.6	80		0714	15.1	460	
	1623	14.8	450		1840	14.4	440		1742	13.8	420		1303	1.3	40	
	2234	3.0	90					O	2354	3.9	120		●	1949	14.4	440
15 Sa	0445	13.1	400	30 Su	0018	3.0	90	15 Tu	0548	13.5	410	30 W	0131	3.0	90	
	1106	3.6	110		0705	14.8	450		1231	2.6	80		0755	15.1	460	
	1717	14.4	440		1240	2.3	70		1839	13.5	410		1348	1.3	40	
	2332	3.3	100	O	1933	14.4	440					2034	14.8	450		
				31 M	0111	2.6	80									
					0751	15.1	460									
					1329	2.0	60									
					2021	14.8	450									

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

Comodoro Rivadavia, Argentina, 2016

Times and Heights of High and Low Waters

January				February				March							
Time	Height	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 F	0331	2.0	60	16 Sa	0313	1.3	40	1 M	0425	2.6	80	16 Tu	0431	2.0	60
0944	17.7	540	0924	19.0	580	1030	17.1	520	1042	18.4	560	0951	16.7	510	
1548	3.3	100	1529	2.6	80	1652	3.3	100	1704	2.3	70	1621	3.0	90	
2150	17.1	520	● 2135	18.7	570	2249	16.1	490	2314	17.7	540	2216	16.4	500	
2 Sa	0412	2.3	70	17 Su	0353	1.3	40	2 Tu	0510	3.3	100	17 W	0525	3.0	90
1026	17.1	520	1011	18.7	570	1114	16.1	490	1140	17.4	530	1031	16.1	490	
1634	3.6	110	1618	2.6	80	1744	3.9	120	1806	3.0	90	1706	3.3	100	
● 2236	16.1	490	2229	17.7	540	2341	15.1	460	2304	15.7	480				
3 Su	0458	3.0	90	18 M	0442	2.0	60	3 W	0601	3.9	120	18 Th	0021	16.7	510
1112	16.4	500	1104	18.0	550	1204	15.4	470	0626	3.6	110	1118	15.4	470	
1727	3.9	120	1717	3.0	90	1840	4.3	130	1246	16.7	510	1757	3.9	120	
2328	15.4	470	2330	17.1	520				1913	3.3	100				
4 M	0549	3.6	110	19 Tu	0542	3.0	90	4 Th	0040	14.8	450	19 F	0136	16.1	490
1202	15.7	480	1204	17.4	530	0657	4.6	140	0731	4.6	140	0613	4.6	140	
1825	4.3	130	1825	3.3	100	1300	15.1	460	1359	16.4	500	1213	15.1	460	
						1940	4.3	130	2022	3.3	100	1854	4.3	130	
5 Tu	0026	14.8	450	20 W	0039	16.4	500	5 F	0144	14.8	450	20 Sa	0249	16.4	500
0646	3.9	120	0647	3.6	110	0755	4.9	150	0835	4.9	150	0710	4.9	150	
1258	15.7	480	1310	17.1	520	1400	15.1	460	1510	16.4	500	1315	15.1	460	
1925	4.3	130	1934	3.6	110	2040	4.3	130	2134	3.3	100	1953	4.3	130	
6 W	0129	14.8	450	21 Th	0153	16.4	500	6 Sa	0248	15.1	460	21 Su	0353	16.7	510
0744	4.6	140	0752	4.3	130	0852	5.2	160	0939	4.9	150	0808	4.9	150	
1355	15.7	480	1419	17.1	520	1458	15.7	480	1611	17.1	520	1418	15.4	470	
			2043	3.3	100	2139	3.9	120	2243	3.3	100	2053	3.9	120	
7 Th	0233	15.1	460	22 F	0306	16.7	510	7 Su	0346	16.1	490	22 M	0448	17.4	530
0841	4.6	140	0856	4.6	140	0949	5.2	160	1041	4.9	150	0906	4.9	150	
1451	15.7	480	1525	17.4	530	1553	16.4	500	1703	17.7	540	1518	16.4	500	
2124	3.9	120	2151	3.3	100	2236	3.6	110	○ 2338	3.0	90	2152	3.6	110	
8 F	0331	15.7	480	23 Sa	0410	17.4	530	8 M	0438	16.7	510	23 Tu	0536	17.7	540
0937	4.9	150	0958	4.6	140	1045	4.9	150	1136	4.6	140	1003	4.6	140	
1542	16.4	500	1625	18.0	550	1643	17.1	520	1749	17.7	540	1613	17.4	530	
2219	3.6	110	○ 2257	3.0	90	● 2330	3.0	90				● 2250	3.0	90	
9 Sa	0423	16.4	500	24 Su	0506	18.0	550	9 Tu	0526	17.7	540	24 W	0021	3.0	90
1030	4.9	150	1058	4.6	140	1139	4.6	140	0619	18.0	550	1101	3.9	120	
1629	16.7	510	1718	18.4	560	1730	18.0	550	1222	4.3	130	1705	18.4	560	
● 2312	3.3	100	2354	2.6	80				1830	18.0	550	2345	2.6	80	
10 Su	0510	17.1	520	25 M	0556	18.4	560	10 W	0020	2.6	80	25 F	0544	18.0	550
1122	4.9	150	1153	4.6	140	0611	18.7	570	0658	18.4	560	0626	17.7	540	
1712	17.4	530	1805	18.7	570	1230	3.9	120	1304	3.9	120	1238	3.6	110	
						1816	18.7	570	1908	18.0	550	1842	17.7	540	
11 M	0000	3.0	90	26 Tu	0040	2.3	70	11 Th	0105	2.0	60	26 F	0131	2.6	80
0554	17.7	540	0642	18.7	570	0654	19.4	590	0734	18.4	560	0627	19.7	600	
1210	4.6	140	1241	4.3	130	1316	3.3	100	1343	3.3	100	1251	2.6	80	
1754	17.7	540	1849	18.7	570	1902	19.4	590	1944	18.0	550	1843	20.0	610	
12 Tu	0046	2.6	80	27 W	0119	2.3	70	12 F	0146	1.3	40	27 Sa	0207	2.6	80
0636	18.4	560	0723	18.7	570	0737	19.7	600	0807	18.0	550	0712	20.3	620	
1255	4.3	130	1324	3.9	120	1358	2.6	80	1422	3.0	90	1339	2.0	60	
1836	18.4	560	1929	18.7	570	1948	20.0	610	2019	17.7	540	1931	20.3	620	
13 W	0127	2.3	70	28 Th	0155	2.0	60	13 Sa	0225	1.0	30	28 M	0242	2.3	70
0717	18.7	570	0802	18.7	570	0820	20.0	610	0841	18.0	550	0757	20.3	620	
1335	3.9	120	1404	3.6	110	1440	2.0	60	1501	2.6	80	1425	1.3	40	
1918	18.7	570	2007	18.4	560	2034	20.0	610	2056	17.4	530	2020	20.3	620	
14 Th	0204	1.6	50	29 F	0231	2.0	60	14 Su	0303	1.0	30	29 M	0319	2.6	80
0758	19.0	580	0838	18.4	560	0904	19.7	600	0915	17.4	530	0843	20.0	610	
1412	3.3	100	1444	3.3	100	1522	2.0	60	1540	2.6	80	1510	1.3	40	
2002	19.0	580	2044	18.0	550	2123	19.4	590	2134	17.1	520	2109	20.0	610	
15 F	0239	1.3	40	30 Sa	0307	2.0	60	15 M	0344	1.3	40	15 Tu	0331	1.6	50
0840	19.0	580	0913	18.0	550	0951	19.0	580	0915	17.4	590	0930	19.4	590	
1449	3.0	90	1524	3.0	90	1610	2.0	60	1558	1.3	40	1553	3.0	90	
2047	19.0	580	2122	17.4	530	● 2215	18.7	570	● 2202	19.0	580	2148	16.4	500	
			31 Su	0345	2.3	70						31 Th	0406	3.6	110
			0950	17.7	540							0954	16.1	490	
			1606	3.0	90							1631	3.3	100	
			2203	16.7	510							● 2234	15.7	480	

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

Comodoro Rivadavia, Argentina, 2016

Times and Heights of High and Low Waters

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

Comodoro Rivadavia, Argentina, 2016

Times and Heights of High and Low Waters

July				August				September			
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height
1 F 0103 17.4 530 0723 3.0 90 1339 17.1 520 1943 3.3 100	h m ft cm	16 Sa 0142 15.7 480 0808 3.3 100 1421 15.1 460 2024 4.3 130	h m ft cm	1 M 0250 17.1 520 0914 2.0 60 1538 17.7 540 2126 3.9 120	h m ft cm	16 Tu 0248 15.1 460 0922 3.0 90 1535 15.7 480 2137 4.3 130	h m ft cm	1 Th 0438 17.4 530 1106 1.6 50 1712 18.0 550 2313 3.3 100	h m ft cm	16 F 0359 16.4 500 1033 2.0 60 1637 17.7 540 2250 3.0 90	
	h m ft cm		h m ft cm		h m ft cm		h m ft cm	h m ft cm			
	h m ft cm		h m ft cm		h m ft cm		h m ft cm	h m ft cm			
	h m ft cm		h m ft cm		h m ft cm		h m ft cm	h m ft cm			
2 Sa 0205 17.7 540 0824 2.6 80 1444 17.7 540 2042 3.3 100	0235 15.7 480	2 Tu 0351 17.7 540 1013 2.0 60 1635 18.4 560 2223 3.9 120	0340 15.7 480	2 W 1015 2.6 80 1623 16.7 510 2229 3.9 120	0524 17.7 540	17 Sa 0445 17.4 530 1119 1.6 50 1719 18.4 560 2337 2.6 80	0524 17.7 540	17 F 0445 17.4 530 1119 1.6 50 1719 18.4 560 2337 2.6 80			
	h m ft cm		h m ft cm		h m ft cm		h m ft cm	h m ft cm			
	h m ft cm		h m ft cm		h m ft cm		h m ft cm	h m ft cm			
	h m ft cm		h m ft cm		h m ft cm		h m ft cm	h m ft cm			
3 Su 0304 18.4 560 0923 2.0 60 1546 18.4 560 2138 3.6 110	0324 16.4 500	3 W 0445 18.4 560 1110 1.6 50 1726 18.7 570 2318 3.9 120	0426 16.4 500	3 Sa 0607 18.0 550 1228 1.6 50 1834 18.4 560	0607 18.0 550	18 Su 0531 18.4 560 1204 1.3 40 1801 19.4 590	0607 18.0 550	18 F 0531 18.4 560 1204 1.3 40 1801 19.4 590			
	h m ft cm		h m ft cm		h m ft cm		h m ft cm	h m ft cm			
	h m ft cm		h m ft cm		h m ft cm		h m ft cm	h m ft cm			
	h m ft cm		h m ft cm		h m ft cm		h m ft cm	h m ft cm			
4 M 0400 19.0 580 1020 2.0 60 1643 19.0 580 2233 3.6 110	0409 16.4 500	4 Th 0535 18.4 560 1202 1.6 50 1814 19.0 580	0509 17.1 520	4 Su 0039 3.0 90 0646 17.7 540 1304 2.0 60 1911 18.4 560	0039 3.0 90	19 M 0022 2.0 60 0616 19.0 580 1246 1.0 30 1843 19.7 600	0039 3.0 90	19 F 0022 2.0 60 0616 19.0 580 1246 1.0 30 1843 19.7 600			
	h m ft cm		h m ft cm		h m ft cm		h m ft cm	h m ft cm			
	h m ft cm		h m ft cm		h m ft cm		h m ft cm	h m ft cm			
	h m ft cm		h m ft cm		h m ft cm		h m ft cm	h m ft cm			
5 Tu 0453 19.4 590 1117 1.6 50 1737 19.4 590 2330 3.9 120	0452 16.7 510	5 W 0010 3.6 110 0621 18.4 560 1248 1.6 50 1858 19.0 580	0004 3.3 100	5 Sa 0119 2.6 80 0723 17.7 540 1340 2.0 60 1945 18.0 550	0119 2.6 80	20 Tu 0106 1.3 40 0701 19.7 600 1327 1.0 30 1925 19.7 600	0106 1.3 40	20 F 0106 1.3 40 0701 19.7 600 1327 1.0 30 1925 19.7 600			
	h m ft cm		h m ft cm		h m ft cm		h m ft cm	h m ft cm			
	h m ft cm		h m ft cm		h m ft cm		h m ft cm	h m ft cm			
	h m ft cm		h m ft cm		h m ft cm		h m ft cm	h m ft cm			
6 W 0545 19.4 590 1213 1.6 50 1828 19.7 600	0532 17.1 520	6 Th 0058 3.6 110 0705 18.4 560 1329 2.0 60 1939 18.7 570	0048 3.0 90	6 Su 0159 2.3 70 0800 17.4 530 1417 2.0 60 2019 17.7 540	0159 2.3 70	21 W 0150 1.0 30 0748 19.7 600 1408 1.0 30 2009 19.7 600	0150 1.0 30	21 F 0150 1.0 30 0748 19.7 600 1408 1.0 30 2009 19.7 600			
	h m ft cm		h m ft cm		h m ft cm		h m ft cm	h m ft cm			
	h m ft cm		h m ft cm		h m ft cm		h m ft cm	h m ft cm			
	h m ft cm		h m ft cm		h m ft cm		h m ft cm	h m ft cm			
7 Th 0025 3.9 120 0635 19.0 580 1306 1.6 50 1917 19.4 590	0030 4.6 140	7 F 0142 3.3 100 0613 17.4 530 1300 2.6 80 1854 18.0 550	0128 2.6 80	7 M 0239 2.3 70 0719 18.7 570 1350 1.3 40 1949 19.0 580	0239 2.3 70	22 Th 0234 0.7 20 0836 19.0 580 1451 1.3 40 2055 18.7 570	0234 0.7 20	22 W 0234 0.7 20 0836 19.0 580 1451 1.3 40 2055 18.7 570			
	h m ft cm		h m ft cm		h m ft cm		h m ft cm	h m ft cm			
	h m ft cm		h m ft cm		h m ft cm		h m ft cm	h m ft cm			
	h m ft cm		h m ft cm		h m ft cm		h m ft cm	h m ft cm			
8 F 0118 3.9 120 0723 18.7 570 1353 2.0 60 2004 19.0 580	0113 4.3 130	8 M 0225 3.0 90 0827 17.4 530 1447 2.0 60 2055 17.7 540	0208 2.0 60	8 Tu 0320 2.3 70 0917 16.1 490 1534 2.6 80 2131 16.1 490	0320 2.3 70	23 F 0321 1.0 30 0928 18.4 560 1538 2.0 60 2145 17.7 540	0321 1.0 30	23 W 0321 1.0 30 0928 18.4 560 1538 2.0 60 2145 17.7 540			
	h m ft cm		h m ft cm		h m ft cm		h m ft cm	h m ft cm			
	h m ft cm		h m ft cm		h m ft cm		h m ft cm	h m ft cm			
	h m ft cm		h m ft cm		h m ft cm		h m ft cm	h m ft cm			
9 Sa 0206 3.6 110 0809 18.4 560 1436 2.0 60 2048 18.7 570	0152 3.9 120	9 Tu 0307 3.0 90 0908 16.7 510 1527 2.3 70 2134 17.1 520	0249 1.6 50	9 W 0403 2.6 80 0852 18.4 560 1507 1.3 40 2118 18.4 560	0403 2.6 80	24 F 0414 1.3 40 1026 17.1 520 1633 3.0 90 2242 16.4 500	0414 1.3 40	24 M 0414 1.3 40 1026 17.1 520 1633 3.0 90 2242 16.4 500			
	h m ft cm		h m ft cm		h m ft cm		h m ft cm	h m ft cm			
	h m ft cm		h m ft cm		h m ft cm		h m ft cm	h m ft cm			
	h m ft cm		h m ft cm		h m ft cm		h m ft cm	h m ft cm			
10 Su 0252 3.6 110 0855 17.7 540 1518 2.0 60 2131 18.0 550	0228 3.3 100	10 W 0352 3.0 90 0951 16.1 490 1610 2.6 80 2215 16.4 500	0336 1.6 50	10 Th 0451 3.0 90 1050 14.4 440 1706 3.9 120 2208 14.4 440	0451 3.0 90	25 M 0516 2.0 60 1134 16.1 490 1737 3.6 110 2350 15.4 470	0516 2.0 60	25 F 0516 2.0 60 1134 16.1 490 1737 3.6 110 2350 15.4 470			
	h m ft cm		h m ft cm		h m ft cm		h m ft cm	h m ft cm			
	h m ft cm		h m ft cm		h m ft cm		h m ft cm	h m ft cm			
	h m ft cm		h m ft cm		h m ft cm		h m ft cm	h m ft cm			
11 M 0338 3.6 110 0940 16.7 510 1602 2.3 70 2215 17.4 530	0306 3.0 90	11 Th 0440 3.0 90 1039 15.1 460 1657 3.3 100 2301 15.7 480	0432 2.0 60	11 F 0545 3.3 100 1149 14.1 430 1652 2.6 80 2306 16.7 510	0545 3.3 100	26 Tu 0626 2.6 80 1253 15.4 470 1849 4.3 130	0626 2.6 80	26 W 0626 2.6 80 1253 15.4 470 1849 4.3 130			
	h m ft cm		h m ft cm		h m ft cm		h m ft cm	h m ft cm			
	h m ft cm		h m ft cm		h m ft cm		h m ft cm	h m ft cm			
	h m ft cm		h m ft cm		h m ft cm		h m ft cm	h m ft cm			
12 Tu 0426 3.6 110 1029 16.1 490 1648 3.0 90 2302 16.7 510	0353 3.0 90	12 F 0533 3.3 100 1133 14.4 440 1750 3.9 120 2353 15.1 460	0537 2.3 70	12 M 0646 3.6 110 1255 13.8 420 1906 3.6 140 2300 14.4 440	0646 3.6 110	27 M 0111 14.8 450 0741 2.6 80 1409 15.7 480 2003 4.3 130	0111 14.8 450	27 W 0111 14.8 450 0741 2.6 80 1409 15.7 480 2003 4.3 130			
	h m ft cm		h m ft cm		h m ft cm		h m ft cm	h m ft cm			
	h m ft cm		h m ft cm		h m ft cm		h m ft cm	h m ft cm			
	h m ft cm		h m ft cm		h m ft cm		h m ft cm	h m ft cm			
13 W 0518 3.6 110 1122 15.4 470 1739 3.3 100 2352 16.1 490	0451 3.0 90	13 Th 0630 3.3 100 1234 14.1 430 1848 4.3 130	0013 15.7 480	13 F 0648 2.6 80 1309 15.7 480 1908 3.9 120	0104 13.8 420	28 Tu 0229 15.1 460 0858 2.6 80 1513 16.4 500 2118 3.9 120	0229 15.1 460	28 W 0229 15.1 460 0858 2.6 80 1513 16.4 500 2118 3.9 120			
	h m ft cm		h m ft cm		h m ft cm		h m ft cm	h m ft cm			
	h m ft cm		h m ft cm		h m ft cm		h m ft cm	h m ft cm			
	h m ft cm		h m ft cm		h m ft cm		h m ft cm	h m ft cm			
14 Th 0614 3.6 110 1220 14.8 450 1834 3.9 120	0558 3.0 90	14 F 0051 14.4 440 0729 3.3 100 1339 14.4 440 1946 4.6 140	0128 15.7 480	14 M 0209 14.1 430 0847 3.0 90 1424 16.1 490 2016 3.9 120	0209 14.1 430	29 W 0332 16.1 490 1003 2.0 60 1606 17.1 520 2219 3.3 100	0332 16.1 490	29 F 0332 16.1 490 1003 2.0 60 1606 17.1 520 2219 3.3 100			
	h m ft cm		h m ft cm		h m ft cm		h m ft cm	h m ft cm			
	h m ft cm		h m ft cm		h m ft cm		h m ft cm	h m ft cm			
	h m ft cm		h m ft cm		h m ft cm		h m ft cm	h m ft cm			
15 F 0046 15.7 480 0711 3.6 110 1322 14.8 450 1929											

Comodoro Rivadavia, Argentina, 2016

Times and Heights of High and Low Waters

October				November				December			
	Time	Height			Time	Height			Time	Height	
1 Sa	0508	17.4	530	16	0421	17.7	540	1	0603	17.4	530
	1129	2.0	60	Su	1044	1.6	50	Tu	1210	3.0	90
	1732	18.0	550		1650	19.0	580		1814	18.0	550
	2342	2.6	80	O	2310	2.0	60				
2 Su	0548	17.7	540	17	0509	19.0	580	2	0036	2.3	70
	1203	2.0	60	M	1132	1.3	40	W	0638	17.4	530
	1808	18.4	560		1734	19.7	600	Th	1249	3.3	100
					2358	1.3	40		1846	17.7	540
3 M	0020	2.3	70	18	0557	19.7	600	3	0115	2.0	60
	0625	17.7	540	Tu	1218	1.3	40	F	0714	17.4	530
	1237	2.3	70		1818	20.3	620		1327	3.3	100
	1842	18.0	550						1918	17.4	530
4 Tu	0057	2.3	70	4	0046	0.7	20	19	0207	0.3	10
	0700	17.7	540	W	0645	20.3	620	Sa	0749	17.1	520
	1313	2.3	70		1304	1.3	40	F	1404	3.3	100
	1914	17.7	540		1903	20.3	620		1951	17.1	520
5 W	0136	2.0	60	20	0133	0.3	10	5	0230	2.0	60
	0735	17.4	530	Th	0734	20.3	620	Sa	0826	16.7	510
	1350	2.6	80		1349	1.3	40		1440	3.6	110
	1946	17.4	530		1949	20.0	610		2025	16.4	500
6 Th	0214	2.0	60	21	0220	0.3	10	6	0305	2.3	70
	0811	17.1	520	F	0823	19.7	600	Su	0904	16.4	500
	1427	2.6	80		1435	1.6	50		1514	3.9	120
	2020	17.1	520		2036	19.4	590		2100	16.1	490
7 F	0252	2.0	60	22	0307	0.3	10	21	0341	1.0	30
	0848	16.4	500	Sa	0915	18.7	570	M	0956	18.4	560
	1504	3.0	90		1522	2.3	70		1557	3.3	100
	2054	16.4	500	O	2126	18.0	550		2203	17.4	530
8 Sa	0331	2.3	70	23	0358	1.0	30	7	0338	2.6	80
	0929	15.7	480	Su	1011	17.7	540	22	0433	1.6	50
	1542	3.6	110		1615	3.0	90	Tu	0946	15.7	480
	2131	15.4	470		2221	16.7	510	M	1549	4.3	130
9 Su	0411	2.6	80	24	0455	1.6	50	8	0414	3.0	90
	1014	15.1	460	M	1115	16.4	500	23	0530	2.6	80
	1624	3.9	120		1715	3.9	120	Tu	1035	15.1	460
	2214	14.4	440		2327	15.4	470		1632	4.6	140
10 M	0458	3.3	100	25	0600	2.6	80	24	0011	15.1	460
	1108	14.4	440	Tu	1229	15.7	480	Sa	0633	3.3	100
	1716	4.6	140		1825	4.6	140	F	1303	15.7	480
	2310	13.8	420						2336	14.1	430
11 Tu	0555	3.6	110	26	0046	14.8	450	9	0500	3.3	100
	1212	14.1	430	W	0713	3.0	90	25	0111	15.1	460
	1819	4.9	150		1342	15.7	480	Tu	1728	4.9	150
					1941	4.6	140		1338	15.7	480
12 W	0017	13.5	410	27	0205	14.8	450	10	0602	3.6	110
	0700	3.6	110	Th	0827	3.0	90	25	0125	14.8	450
	1319	14.4	440		1445	16.1	490	Sa	0737	3.6	110
	1925	4.9	150		2057	3.9	120	F	1836	4.9	150
13 Th	0128	14.1	430	28	0308	15.4	470	11	0231	15.1	460
	0803	3.3	100	F	0930	2.6	80	26	0121	15.7	480
	1422	15.1	460		1538	16.7	510	Sa	0838	3.6	110
	2028	4.3	130		2156	3.6	110	F	1501	16.4	500
14 F	0232	15.1	460	29	0400	16.1	490	12	0327	15.7	480
	0902	2.6	80	Sa	1017	2.6	80	27	0229	16.7	510
	1516	16.4	500		1624	17.4	530	Tu	0832	3.3	100
	2126	3.6	110		2240	3.0	90		1437	16.7	510
15 Sa	0329	16.4	500	30	0445	16.7	510	28	0415	16.4	500
	0955	2.3	70	Su	1056	2.6	80	Tu	1016	3.6	110
	1605	17.7	540		1704	17.7	540		1531	18.0	550
	2219	2.6	80	O	2319	2.6	80		2147	2.6	80
31 M	0525	17.1	520	31	0525	17.1	520	13	0258	16.4	500
	1133	3.0	90	M	1133	3.0	90	Tu	0912	2.6	80
	1740	18.0	550		1740	18.0	550		1531	18.0	550
	2357	2.3	70		2357	2.3	70		2249	3.0	90

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

Punta Loyola, Argentina, 2016

Times and Heights of High and Low Waters

January				February				March			
Time	Height	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 F 0254	33.8	1030	16 Sa 0305	37.7	1150	1 M 0334	31.8	970	16 Tu 0424	34.8	1060
0913	12.5	380	0943	8.2	250	0950	14.4	440	1122	11.5	350
1507	32.2	980	1531	36.7	1120	1600	30.2	920	1715	33.5	1020
2139	11.8	360	● 2216	8.2	250	● 2218	15.1	460	2359	13.1	400
2 Sa 0337	32.2	980	17 Su 0401	36.1	1100	2 Tu 0422	30.8	940	17 W 0536	33.5	1020
0950	14.1	430	1042	10.2	310	1039	15.1	460	1244	12.1	370
1556	30.8	940	1634	34.8	1060	1655	29.5	900	1843	33.1	1010
● 2218	13.8	420	2317	10.5	320	2310	16.1	490	2230	15.7	480
3 Su 0425	31.2	950	18 M 0503	34.8	1060	3 W 0516	30.5	930	18 Th 0116	13.1	400
1035	15.1	460	1150	11.5	350	1135	15.4	470	0704	33.5	1020
1650	29.5	900	1745	34.1	1040	1757	29.9	910	1357	10.8	330
2305	15.1	460							1958	34.4	1050
4 M 0517	30.8	940	19 Sa 0025	11.8	360	4 Th 0008	15.7	480	19 F 0223	11.8	360
1127	15.7	480	0612	34.4	1050	0617	30.8	940	0816	34.8	1060
1748	29.5	900	1303	11.5	350	1239	14.4	440	1458	8.5	260
2358	15.4	470	1901	34.1	1040	1902	31.2	950	2056	36.4	1110
5 Tu 0610	30.8	940	20 W 0134	11.8	360	5 F 0113	14.4	440	20 Sa 0320	9.8	300
1222	15.1	460	0722	35.1	1070	0720	32.5	990	0912	36.7	1120
1845	30.2	920	1412	10.2	310	1348	12.5	380	1550	6.2	190
			2009	35.4	1080	2004	33.5	1020	2144	38.1	1160
6 W 0052	15.1	460	21 Th 0238	10.8	330	6 Sa 0219	12.5	380	21 M 0411	7.9	240
0704	31.8	970	0826	36.4	1110	0821	34.8	1060	1000	38.1	1160
1319	13.8	420	1513	7.9	240	1455	9.5	290	1637	4.6	140
1940	31.8	970	2107	37.1	1130	2101	36.1	1100	2227	39.0	1190
7 Th 0147	13.8	420	22 F 0336	9.2	280	7 Su 0322	9.5	290	22 M 0456	6.2	190
0755	33.5	1020	0921	37.7	1150	0918	37.1	1130	1042	38.7	1180
1416	11.8	360	1607	5.9	180	1557	6.6	200	1721	3.6	110
2031	33.8	1030	2158	38.4	1170	2154	38.4	1170	○ 2305	39.4	1200
8 F 0242	11.8	360	23 Sa 0427	7.5	230	8 M 0420	6.9	210	23 Tu 0538	5.6	170
0846	35.4	1080	1010	38.7	1180	1012	39.4	1200	1119	38.7	1180
1513	9.5	290	1656	4.3	130	1653	3.6	110	1800	3.6	110
2122	35.8	1090	○ 2243	39.4	1200	● 2244	40.7	1240	2339	39.4	1200
9 Sa 0338	9.8	300	24 Su 0515	6.6	200	9 Tu 0514	4.3	130	24 W 0615	5.6	170
0936	37.1	1130	1055	39.4	1200	1103	41.3	1260	1152	38.4	1170
1610	7.2	220	1742	3.3	100	1745	1.6	50	1835	4.6	140
● 2211	37.7	1150	2325	39.4	1200	2333	42.0	1280			
10 Su 0434	7.9	240	25 M 0559	5.9	180	10 W 0605	2.6	80	25 Th 0008	38.7	1180
1026	38.7	1180	1135	39.4	1200	1152	42.3	1290	0646	6.6	200
1706	4.9	150	1824	3.0	90	1834	0.7	20	1221	37.4	1140
2300	39.4	1200							1903	5.9	180
11 M 0528	5.9	180	26 Tu 0003	39.0	1190	11 Th 0020	42.3	1290	26 F 0037	37.4	1140
1115	40.0	1220	0640	5.9	180	0654	2.3	70	0709	7.5	230
1759	3.3	100	1212	38.7	1180	1240	42.3	1290	1252	36.4	1110
2348	40.4	1230	1903	3.9	120	1922	1.0	30	1925	7.9	240
12 Tu 0620	4.9	150	27 W 0037	38.4	1170	12 F 0106	42.0	1280	27 Sa 0107	36.4	1110
1204	40.7	1240	0715	6.6	200	0742	3.0	90	0732	8.9	270
1851	2.3	70	1245	37.4	1140	1328	41.7	1270	1325	35.1	1070
			1936	5.2	160	2010	2.6	80	1951	9.5	290
13 W 0037	40.7	1240	28 Th 0109	37.1	1130	13 Sa 0152	41.0	1250	28 Su 0140	35.4	1080
0711	4.3	130	0743	8.2	250	0829	4.6	140	0801	10.2	310
1254	40.7	1240	1319	36.1	1100	1416	40.0	1220	1400	33.8	1030
1940	2.6	80	2002	7.2	220	2057	5.2	160	2022	11.5	350
14 Th 0125	40.4	1230	29 F 0141	35.8	1090	14 Su 0238	39.0	1190	29 M 0215	34.1	1040
0800	4.9	150	0806	9.8	300	0918	6.9	210	0835	11.5	350
1343	39.7	1210	1354	34.4	1050	1506	37.7	1150	1438	32.8	1000
2030	3.6	110	2026	9.5	290	2148	8.2	250	2058	13.1	400
15 F 0214	39.4	1200	30 Sa 0215	34.4	1050	15 Tu 0327	37.1	1130	15 W 0255	37.4	1140
0850	6.2	190	0834	11.5	350	1013	9.5	290	0949	8.9	270
1435	38.4	1170	1432	32.8	1000	1603	35.4	1080	1535	35.4	1080
2121	5.6	170	2056	11.5	350	● 2246	11.2	340	● 2218	11.8	360
16 Su 0253	33.1	1010	31 Su 0909	13.1	400						
0933	12.5	380	1513	31.5	960						
			2134	13.5	410						

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

Punta Loyola, Argentina, 2016

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 <i>F</i>	0346	32.2	980	16 <i>Sa</i>	0022	13.8	420	1 <i>Su</i>	0440	32.5	990
	1030	13.1	400		0611	32.2	980		1137	11.8	360
	1644	31.5	960		1300	11.2	340		1742	33.1	1010
	2306	15.1	460		1906	33.8	1030				
2 <i>Sa</i>	0458	31.5	960	17 <i>Su</i>	0130	13.1	400	2 <i>M</i>	0011	13.1	400
	1148	13.1	400		0730	32.8	1000		0608	32.8	1000
	1803	31.8	970		1401	10.2	310		1253	10.8	330
					2003	35.1	1070		1854	34.8	1060
3 <i>Su</i>	0028	14.4	440	18 <i>M</i>	0228	11.5	350	3 <i>Tu</i>	0124	11.5	350
	0627	31.8	970		0827	34.1	1040		0723	34.4	1050
	1313	11.8	360		1454	8.9	270		1359	8.9	270
	1918	33.8	1030		2050	36.4	1110		1956	36.7	1120
4 <i>M</i>	0145	11.8	360	19 <i>Tu</i>	0319	9.8	300	4 <i>W</i>	0227	8.9	270
	0743	34.1	1040		0914	35.4	1080		0825	36.7	1120
	1422	8.9	270		1541	8.2	250		1458	6.9	210
	2021	36.7	1120		2130	37.1	1130		2051	39.0	1190
5 <i>Tu</i>	0248	8.9	270	20 <i>W</i>	0404	8.9	270	5 <i>Th</i>	0325	6.6	200
	0846	37.1	1130		0952	36.1	1100		0920	39.0	1190
	1521	5.9	180		1622	7.9	240		1553	5.2	160
	2115	39.4	1200		2202	37.4	1140		2142	40.7	1240
6 <i>W</i>	0345	5.9	180	21 <i>Th</i>	0442	8.2	250	6 <i>F</i>	0420	4.6	140
	0940	39.7	1210		1023	36.1	1100		1011	40.4	1230
	1615	3.6	110		1655	8.2	250		1646	4.3	130
	2205	41.7	1270		2229	37.4	1140		● 2230	42.0	1280
7 <i>Th</i>	0438	3.3	100	22 <i>F</i>	0511	8.2	250	7 <i>Sa</i>	0512	3.3	100
	1030	41.7	1270		1051	36.1	1100		1100	41.3	1260
	1706	2.0	60		1721	8.5	260		1737	3.9	120
	● 2252	43.0	1310		○ 2258	37.4	1140		2316	42.3	1290
8 <i>F</i>	0529	2.0	60	23 <i>Sa</i>	0534	8.2	250	8 <i>Su</i>	0603	2.3	70
	1118	42.7	1300		1121	36.1	1100		1148	41.3	1260
	1755	1.6	50		1747	9.2	280		1826	4.3	130
	2337	43.3	1320		2330	37.1	1130				
9 <i>Sa</i>	0618	1.3	40	24 <i>Su</i>	0602	8.2	250	9 <i>M</i>	0000	42.0	1280
	1205	42.7	1300		1155	35.8	1090		0652	2.3	70
	1842	2.3	70		1818	9.5	290		1234	40.7	1240
									1913	5.2	160
10 <i>Su</i>	0021	43.0	1310	25 <i>M</i>	0004	36.7	1120	10 <i>Tu</i>	0043	41.0	1250
	0705	2.0	60		0635	8.2	250		0740	3.3	100
	1250	41.7	1270		1231	35.8	1090		1319	39.4	1200
	1929	3.9	120		1853	9.8	300		2000	6.6	200
11 <i>M</i>	0104	41.7	1270	26 <i>Tu</i>	0040	36.4	1110	11 <i>W</i>	0126	39.4	1200
	0752	3.3	100		0711	8.2	250		0827	4.6	140
	1335	40.0	1220		1309	35.4	1080		1405	38.1	1160
	2015	6.2	190		1931	10.5	320		2046	8.5	260
12 <i>Tu</i>	0146	40.0	1220	27 <i>W</i>	0117	36.1	1100	12 <i>Th</i>	0209	37.7	1150
	0840	5.2	160		0750	8.5	260		0916	6.6	200
	1421	38.1	1160		1349	35.1	1070		1454	36.1	1100
	2101	8.9	270		2012	11.2	340		2134	10.5	320
13 <i>W</i>	0228	37.7	1150	28 <i>Th</i>	0154	35.4	1080	13 <i>F</i>	0256	35.4	1080
	0931	7.9	240		0833	9.5	290		1009	8.5	260
	1512	35.8	1090		1432	34.4	1050		1551	34.8	1060
	2154	11.5	350		2056	12.1	370		● 2231	12.5	380
14 <i>Th</i>	0316	35.1	1070	29 <i>F</i>	0235	34.4	1050	14 <i>Sa</i>	0353	33.5	1020
	1034	9.8	300		0920	10.5	320		1110	10.2	310
	1618	33.8	1030		1522	33.8	1030		1702	33.5	1020
	● 2304	13.5	410		2147	13.1	400		2338	13.5	410
15 <i>F</i>	0420	33.1	1010	30 <i>Sa</i>	0326	33.5	1020	15 <i>Su</i>	0514	32.2	980
	1150	11.2	340		1020	11.5	350		1215	11.2	340
	1751	33.1	1010		1626	33.1	1010		1816	33.5	1020
					● 2253	13.8	420				

Punta Loyola, Argentina, 2016

Times and Heights of High and Low Waters

July				August				September			
	Time	Height			Time	Height			Time	Height	
	h m	ft cm		h m	ft cm			h m	ft cm		
1 <i>F</i>	0146	10.5	320	16 <i>Sa</i>	0051	14.8	450	1 <i>M</i>	0340	7.5	230
	0742	35.1	1070		0716	30.5	930		0931	36.7	1120
	1415	10.5	320		1317	15.1	460		1601	9.2	280
	2004	36.7	1120		1931	32.2	980		2145	37.7	1150
2 <i>Sa</i>	0252	9.2	280	17 <i>Su</i>	0148	13.8	420	2 <i>Tu</i>	0433	5.6	170
	0845	36.1	1100		0809	31.8	970		1021	38.1	1160
	1517	9.5	290		1413	13.8	420		1653	7.5	230
	2102	37.7	1150		2022	33.5	1020		● 2235	38.7	1180
3 <i>Su</i>	0352	7.2	220	18 <i>M</i>	0247	11.8	360	3 <i>W</i>	0522	3.9	120
	0942	37.4	1140		0901	33.5	1020		1107	38.7	1180
	1615	8.5	260		1511	12.5	380		1740	6.6	200
	2155	38.7	1180		2114	34.8	1060		2320	39.0	1190
4 <i>M</i>	0448	5.2	160	19 <i>Tu</i>	0347	9.8	300	4 <i>Th</i>	0607	3.0	90
	1034	38.4	1170		0951	35.1	1070		1149	39.0	1190
	1709	7.5	230		1609	10.5	320		1824	5.9	180
	● 2246	39.0	1190		○ 2204	36.4	1110				
5 <i>Tu</i>	0539	3.9	120	20 <i>W</i>	0444	7.5	230	5 <i>F</i>	0001	38.7	1180
	1122	38.7	1180		1040	36.7	1120		0649	3.0	90
	1759	6.6	200		1705	8.5	260		1227	38.7	1180
	2332	39.4	1200		2254	38.1	1160		1905	5.9	180
6 <i>W</i>	0627	3.0	90	21 <i>Th</i>	0538	5.2	160	6 <i>Sa</i>	0039	38.4	1170
	1208	39.0	1190		1128	38.4	1170		0728	3.9	120
	1845	6.2	190		1758	6.6	200		1303	38.1	1160
					2344	39.0	1190		1941	6.9	210
7 <i>Th</i>	0017	39.0	1190	22 <i>F</i>	0629	3.6	110	7 <i>Su</i>	0114	37.4	1140
	0712	2.6	80		1216	39.4	1200		0801	5.6	170
	1251	38.7	1180		1848	5.2	160		1336	37.1	1130
	1928	6.2	190						2010	8.2	250
8 <i>F</i>	0058	38.4	1170	23 <i>Sa</i>	0033	40.0	1220	8 <i>M</i>	0149	36.1	1100
	0754	3.3	100		0718	2.6	80		0828	7.9	240
	1331	38.1	1160		1304	40.0	1220		1409	35.8	1090
	2008	7.2	220		1937	4.9	150		2034	9.8	300
9 <i>Sa</i>	0138	37.4	1140	24 <i>Su</i>	0121	40.0	1220	9 <i>Tu</i>	0226	34.4	1050
	0832	4.9	150		0806	3.0	90		0853	9.8	300
	1409	37.1	1130		1351	39.7	1210		1445	34.4	1050
	2043	8.5	260		2025	5.6	170		2103	11.5	350
10 <i>Su</i>	0217	36.1	1100	25 <i>M</i>	0211	39.4	1200	10 <i>W</i>	0305	32.8	1000
	0906	6.9	210		0854	4.3	130		0925	11.8	360
	1446	35.8	1090		1440	39.0	1190		1524	33.1	1010
	2113	10.2	310		2114	6.9	210		● 2140	13.1	400
11 <i>M</i>	0258	34.4	1050	26 <i>Tu</i>	0302	38.1	1160	11 <i>Th</i>	0349	31.5	960
	0935	9.2	280		0945	6.2	190		1003	13.8	420
	1526	34.4	1050		1531	37.7	1150		1608	32.2	980
	● 2143	12.1	370		● 2207	8.5	260		2223	14.4	440
12 <i>Tu</i>	0342	32.8	1000	27 <i>W</i>	0359	36.4	1110	26 <i>F</i>	0438	30.2	960
	1006	11.5	350		1040	8.9	270		1049	15.1	460
	1609	33.1	1010		1627	36.4	1110		1656	31.2	950
	2220	13.5	410		2308	10.5	320		2312	15.1	460
13 <i>W</i>	0431	31.5	960	28 <i>Th</i>	0502	34.8	1060	27 <i>Sa</i>	0004	11.2	340
	1046	13.5	410		1142	10.8	330		0558	33.8	1030
	1656	32.2	980		1729	35.4	1080		1236	12.8	390
	2305	14.8	450						1819	34.1	1040
14 <i>Th</i>	0524	30.2	920	29 <i>F</i>	0018	11.5	350	28 <i>Su</i>	0438	30.8	940
	1132	14.8	450		0614	34.1	1040		0719	32.5	990
	1746	31.5	960		1251	11.8	360		1347	12.1	370
	2356	15.1	460		1838	35.1	1070		1751	31.2	950
15 <i>F</i>	0620	30.2	920	30 <i>Sa</i>	0132	11.2	340	29 <i>M</i>	0112	13.5	410
	1223	15.1	460		0728	34.4	1050		0634	30.5	930
	1839	31.8	970		1401	11.8	360		1239	15.1	460
					1947	35.4	1080		1850	31.8	970
31 <i>Su</i>	0240	9.5	290	31 <i>W</i>	0834	35.4	1080	30 <i>Tu</i>	0411	5.2	160
					1504	10.5	320		1002	38.4	1170
					2050	36.4	1110		1631	7.2	220
									2218	38.4	1170

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

Punta Loyola, Argentina, 2016

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		h m	ft	cm
1 Sa	0512	4.9	150	16	0432	3.3	100	1	0536	9.2	280	16	0557	4.6	140	1	0530	10.5	320
	1050	39.0	1190	Su	1022	42.0	1280	Tu	1114	37.1	1130	W	1134	41.7	1270	Th	1118	36.1	1100
	1730	6.2	190		1656	3.3	100		1750	8.5	260		1825	3.0	90		1752	8.5	260
	2309	38.1	1160	O	2248	42.0	1280		2340	35.4	1080						2349	35.4	1080
2 Su	0549	5.9	180	17	0524	2.6	80	2	0604	10.2	310	17	0007	40.7	1240	2	0610	10.5	320
	1121	38.4	1170	M	1109	42.7	1300	W	1148	36.1	1100	Th	0648	5.2	160	F	1157	36.1	1100
	1804	6.9	210		1748	2.6	80		1820	9.2	280		1219	40.7	1240		1833	8.5	260
	2340	37.1	1130		2337	42.3	1290						1916	3.6	110				
3 M	0619	7.2	220	18	0615	3.0	90	3	0015	34.8	1060	18	0055	39.4	1200	3	0028	35.4	1080
	1151	37.4	1140	Tu	1155	42.3	1290	Th	0637	10.8	330	F	0737	6.6	200	Sa	0652	10.5	320
	1830	7.9	240		1839	2.6	80		1223	35.4	1080		1305	39.4	1200		1236	35.8	1090
4 Tu	0012	36.1	1100	19	0025	41.3	1260	4	0052	34.1	1040	19	0144	38.1	1160	4	0110	35.1	1070
	0644	8.9	270	W	0704	3.9	120	F	0713	11.8	360	Sa	0827	8.2	250	M	0735	10.5	320
	1222	36.4	1110		1241	41.3	1260		1300	34.8	1060		1351	37.4	1140		1317	35.4	1080
	1854	9.2	280		1929	3.6	110		1933	10.2	310		2059	6.2	190		2001	8.9	270
5 W	0045	35.1	1070	20	0112	40.0	1220	5	0131	33.5	1020	20	0236	36.4	1110	5	0154	34.8	1060
	0710	10.2	310	Th	0753	5.9	180	Sa	0753	12.5	380	Su	0919	9.8	300	M	0821	11.2	340
	1256	35.4	1080		1326	39.7	1210		1338	33.8	1030		1442	35.8	1090		1401	34.8	1060
	1923	10.2	310		2020	5.2	160		2014	10.8	330		2154	7.9	240		2050	9.2	280
6 Th	0121	33.8	1030	21	0202	38.1	1160	6	0213	33.1	1010	21	0335	34.8	1060	6	0243	34.4	1050
	0742	11.8	360	F	0844	8.2	250	Su	0836	13.1	400	M	1017	11.5	350	Tu	0912	11.5	350
	1331	34.1	1040		1412	37.7	1150		1418	33.1	1010		1544	34.1	1040		1453	34.1	1040
	1958	11.2	340		2115	7.2	220		2101	11.5	350		2254	9.2	280		2146	10.2	310
7 F	0159	32.8	1000	22	0256	36.1	1100	7	0301	32.5	990	22	0446	34.1	1040	7	0340	33.8	1030
	0818	13.1	400	Sa	0940	10.5	320	M	0925	13.8	420	Tu	1120	12.5	380	W	1010	12.1	370
	1408	33.1	1010		1504	35.4	1080		1506	32.5	990		1705	33.1	1010		1558	33.5	1020
	2036	12.1	370	O	2217	8.9	270		2157	12.1	370		2356	9.8	300		2249	10.8	330
8 Sa	0239	32.2	980	23	0401	34.4	1050	8	0400	32.2	980	23	0557	34.1	1040	8	0445	33.8	1030
	0859	14.1	430	Su	1045	12.1	370	Tu	1025	13.8	420	W	1224	12.5	380	F	1116	12.5	380
	1447	32.2	980		1611	33.8	1030		1612	32.2	980		1824	33.1	1010		1713	33.5	1020
	2120	12.8	390		2327	9.8	300		2305	12.1	370						2356	10.5	320
9 Su	0326	31.5	960	24	0525	33.8	1030	9	0510	32.5	990	24	0056	10.2	310	9	0553	34.4	1050
	0946	14.8	450	M	1156	12.8	390	W	1135	13.5	410	Th	0657	34.8	1060	F	1224	11.5	350
	1534	31.5	960		1746	33.1	1010		1734	32.5	990		1325	11.8	360		1826	34.4	1050
	2212	13.5	410						1926	33.8	1030						1933	32.2	980
10 M	0423	31.2	950	25	0034	9.8	300	10	0018	11.2	340	25	0151	9.8	300	10	0101	9.8	300
	1042	15.1	460	Tu	0637	34.4	1050	Th	0620	34.1	1040	F	0748	35.4	1080	Sa	0657	36.1	1100
	1635	31.2	950		1301	12.1	370		1246	11.8	360		1419	11.2	340		1330	10.2	310
	2318	13.5	410		1901	34.1	1040		1848	34.1	1040		2017	34.8	1060		1931	36.1	1100
11 Tu	0533	31.5	960	26	0133	8.9	270	11	0123	9.2	280	26	0240	9.8	300	11	0202	8.9	270
	1151	14.4	440	W	0735	35.8	1090	F	0723	36.1	1100	Sa	0830	36.1	1100	M	0756	37.7	1150
	1753	31.8	970		1359	10.5	320		1350	9.5	290		1508	10.2	310		1432	8.2	250
					1958	35.4	1080		1951	36.4	1110		2059	35.4	1080		2030	37.7	1150
12 W	0034	12.1	370	27	0226	7.9	240	12	0222	7.2	220	27	0323	9.8	300	12	0301	7.5	230
	0644	33.1	1010	Th	0824	37.1	1130	Sa	0819	38.7	1180	Su	0904	36.4	1110	M	0850	39.4	1200
	1304	12.5	380		1451	9.2	280		1448	7.2	220		1548	9.8	300		1531	6.2	190
	1907	33.8	1030		2047	36.4	1110		2047	38.7	1180		2132	35.4	1080		2125	39.0	1190
13 Th	0144	9.8	300	28	0315	7.2	220	13	0318	5.6	170	28	0358	10.2	310	13	0357	6.6	200
	0747	35.8	1090	F	0906	38.1	1160	Su	0910	40.4	1230	M	0934	36.7	1120	Tu	0942	40.4	1230
	1409	9.8	300		1538	8.2	250		1544	5.2	160		1618	9.5	290		1628	4.6	140
	2011	36.4	1110		2129	37.1	1130		2140	40.4	1230		2202	35.4	1080		2216	40.0	1220
14 F	0244	7.2	220	29	0359	6.9	210	14	0412	4.6	140	29	0425	10.2	310	14	0452	5.9	180
	0842	38.4	1170	Sa	0943	38.4	1170	M	1000	41.7	1270	Tu	1006	36.4	1110	W	1031	41.0	1250
	1508	6.9	210		1621	7.5	230		1639	3.9	120		1644	9.2	280		1647	4.6	140
	2107	39.0	1190		2205	37.4	1140		2230	41.3	1260		2235	35.4	1080		2306	40.4	1230
15 Sa	0339	4.6	140	30	0438	7.2	220	15	0505	4.3	130	30	0454	10.5	320	15	0544	5.6	170
	0933	40.7	1240	Su	1014	38.1	1160	Tu	1047	42.0	1280	W	1041	36.4	1110	Th	1119	40.7	1240
	1603	4.6	140		1657	7.5	230		1732	3.0	90		1715	8.9	270		1814	3.0	90
	2158	41.0	1250		2236	36.7	1120		2319	41.3	1260		2310	35.4	1080		2354	40.0	1220

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

EXTRA TIDES, 2016

Woods Hole, Massachusetts			Rio de Janeiro, Brazil			Santos, Brazil			October						
						June	h m	ft	cm	h m	ft	cm			
						10	2317	2.3	70	February	8	2228			
			January							h m	2.6	80			
			h m	ft	cm	17	2015	3.0	90	14	2209	3.0	90		
31	1952	0.4	12				2353	2.6	80	15	2334	3.3	100		
			February			28	1708	1.6	50				November		
			h m	ft	cm		2115	2.6	80				h m	ft	cm
1	2040	0.4	12	14	1838	3.3	100			2	2254	3.3	100		
29	1910	0.5	15		2221	2.3	70			14	2211	3.0	90		
			March		2323	2.3	70			15	2334	3.3	100		
			h m	ft	cm	15	1941	3.0	90	31	2228	3.3	100		
1	2006	0.5	15		2217	2.6	80					December			
2	2102	0.4	12	16	1654	1.3	40			h m	ft	cm			
30	1938	0.5	15	17	1800	1.0	30			5	2049	3.0	90		
31	2039	0.4	12				2021	2.6	80			6	2158	3.3	100
			April		2304	2.3	70								
			h m	ft	cm										
28	1916	0.5	15	1	2256	2.3	70								
29	2021	0.5	15	14	1811	3.3	100								
					2145	2.3	70								
			August		2345	2.6	80								
			h m	ft	cm	15	1913	2.6	80						
11	2239	0.8	24		2154	2.3	70								
			September		16	1632	1.3	40							
			h m	ft	cm	17	1745	1.3	40						
9	2124	0.7	21		29	2341	2.3	70							
10	2207	0.6	18		30	2358	2.6	80							
			April				24	1647	2.0	60					
			h m	ft	cm			1956	2.6	80					
			October				27	2019	3.3	100					
8	2044	0.5	15	11	2206	2.3	70								
9	2131	0.5	15	12	1800	3.3	100								
10	2215	0.4	12		2113	2.3	70								
					2334	2.6	80								
			November		13	1902	2.6	80							
			h m	ft	cm		2136	2.6	80						
6	2008	0.4	12				2217	2.0	60						
7	2056	0.3	09				22358	2.0	60						
8	2141	0.2	06				23	1938	2.6	80					
			May				2309	2.3	70						
			h m	ft	cm										
11	2304	2.6	80				9	2334	2.6	80					
12	1851	3.0	90				22	1734	3.3	100					
			December		2147	2.6	80								
			h m	ft	cm		2356	2.6	80						
6	2022	0.1	03				20	1809	3.0	90					
					13	2209	2.6	80							

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.

Caution.—The time and height differences listed in Table 2 are average difference derived from comparisons of simultaneous tide observations at the subordinate location and its reference station. Because these figures are constant, they may not always provide for the daily variations of the actual tide, especially if the subordinate station is some distance from the reference station. Therefore, although the application of the time and height differences will generally provide reasonable accurate approximations, they cannot result in predictions as accurate as those listed for the reference stations which are based upon much larger periods of analyses and which do provide for daily variations.

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. Differences in time meridians between a subordinate station and its reference station have been accounted for and no further adjustment by the reader is necessary. 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 7.

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.

TABLE 2.—TIDAL DIFFERENCES AND OTHER CONSTANTS

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 Port of Spain, Trinidad, the values in the time and height difference columns in Table 2 are given as -0 44, -1 12, and (*0.31 + 1.4) as referred to the reference station at Punta Gorda, Venezuela. If we assume that the tide predictions in column (1) below are those of Ketchikan on a particular day, application of the time and height correction in columns (2) and (3) would result in the tide predictions for Treadwell Bay in column (4).

(1)		(2)	(3)	(4)		
Time h.m.	Height ft.	Time Corrections	Height Corrections	Time h.m.	Height ft. centimeters	
0326	0.6	-1 ^h 12 ^m	x0.31 + 1.4	0214	1.6	49
0900	5.1	-0 ^h 44 ^m	x0.31 + 1.4	0816	3.0	91
1608	-0.3	-1 ^h 12 ^m	x0.31 + 1.4	1456	1.3	40
2148	5.4	-0 ^h 44 ^m	x0.31 + 1.4	2104	3.1	94

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. Where the tide is chiefly of the diurnal type the table gives the *diurnal range*, which is the difference in height between mean higher high water and mean lower low water.

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 charts the depths are given in meters or centimeters and in such cases the heights of the tide can be converted to other units by the use of Table 7. Chart datums for the portion of the world covered by these tables are approximately as follows: *Mean lower low water* for the Pacific coast of the United States, Alaska, and the Hawaiian Islands, mean low water springs for Central American and Mexico. 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 depth.

Observations Supporting Predictions.—All tidal predictions made by the National Ocean Service are based upon observations taken at the location in question. For most reference stations these observations often are of a continuing nature. As such, they are used to quality control the predictions and to update the harmonic constants used in generating annual predictions. For subordinate stations, the age and duration of their observations vary from a few days of observation taken decades ago to the most recent survey data.

The precision with which the position, ranges and mean tide level are reported in Table 2 is an indication of the age and analytical history of the supporting observation. Stations whose position is reported to the nearest tenth minute of latitude and longitude and whose ranges and mean tide level are reported to the nearest hundredth foot are supported by the most recent observations, analyzed with regard to current chart datums and the 1983-2001 National Tidal Datum Epoch. Stations whose position is reported to the nearest tenth minute but whose ranges and mean tide level are reported to the nearest tenth foot are typically supported by observations taken in the 1960's and 1970's with analysis based upon the previous National Tidal Datum Epochs. Finally, stations whose positions are reported to the

TABLE 2.— TIDAL DIFFERENCES AND OTHER CONSTANTS

nearest minute and whose ranges and mean tide level are reported to the nearest tenth foot indicated either older supporting observations or simply data not yet reviewed and entered into the Tables with full published precision. NOS is in the continuous process of updating the Tables with all available data.

Old observations are not in and of themselves an indication of poor present predictions. Certain coastal areas do not undergo much human or natural modification while other coastal areas are subject to nearly constant modification by both agents. Local knowledge of conditions is still very important to the wise use of these astronomical predictions.

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

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				
	ARCTIC ARCHIPELAGO Time meridian, local			North	West	h m	h m	ft	ft	ft	
on Hampton Roads, p.120											
1	Princess Royal Islands	72° 45'	117° 45'	+3 14	+3 32	0.0	+0.2	2.3	3.0	1.4	
3	Mercy Bay, Banks Island	74° 07'	118° 15'	+4 05	+4 05	-0.8	+0.1	1.6	2.0	1.0	
5	Winter Harbour, Melville Island	74° 47'	110° 48'	+4 44	+4 40	+0.2	+0.2	2.5	3.2	1.6	
7	Bridport Inlet, Melville Island	74° 56'	108° 49'	+4 33	+4 33	+1.3	+1.0	2.8	4.1	2.5	
9	Byam Martin Island	75° 10'	103° 34'	+3 42	+3 42	+1.8	+1.5	2.8	3.7	3.0	
11	Cambridge Bay, Dease Strait	69° 07'	105° 07'	+2 35	+2 30	-0.4	+1.2	1.0	1.3	1.7	
Time meridian, 75° W											
13	Igloolik, Fury and Hecla Strait	69° 21'	81° 37'	+9 12	+9 12	+1.6	+0.8	4.6	6.0	4.7	
15	Hall Beach, Foxe Basin	68° 45'	81° 13'	+9 45	+10 15	(*0.45+0.5)		1.7	2.0	2.1	
Time meridian, local											
17	Port Kennedy, Bellot Strait	72° 01'	94° 12'	+1 35	+1 44	+0.5	+0.8	3.5	4.5	4.2	
19	Port Bowen, Prince Regent Inlet	73° 14'	88° 55'	+1 01	+1 06	+0.9	+1.3	3.4	4.5	4.6	
21	Port Leopold, Prince Regent Inlet	73° 48'	90° 15'	+0 50	+0 45	+0.9	+0.1	4.6	5.9	4.0	
23	Beechy Island, Barrow Strait	74° 43'	91° 54'	+1 30	+1 35	+1.0	-0.1	4.9	6.4	4.0	
25	Assistance Bay, Barrow Strait	74° 37'	94° 15'	+1 56	+1 57	-0.1	+0.6	3.1	4.1	3.8	
27	Griffith Island, Barrow Strait	74° 35'	95° 30'	+2 12	+2 13	-0.3	+0.5	3.0	3.9	3.6	
29	Refuge Cove, Wellington Channel	75° 31'	92° 10'	+1 23	+1 38	+0.6	+0.2	4.2	5.5	3.9	
31	Penny Strait	76° 52'	97° 00'	+1 53	+2 03	*0.39	*0.38	1.5	1.9	1.4	
on Hampton Roads, p.120											
33	Cape Columbia, Lincoln Sea	83° 14'	69° 55'	-0 55	-0 55	-1.8	0.0	0.8	1.1	0.5	
35	Alert, Lincoln Sea	82° 30'	62° 20'	+1 26	+1 17	-0.4	+0.6	1.6	2.2	1.5	
37	Cape Sheridan, Lincoln Sea	82° 29'	61° 30'	+1 37	+1 28	-0.5	+0.2	1.8	2.5	1.2	
39	Cape Bryant, North Greenland	82° 21'	55° 30'	+3 33	+3 35	-1.4	+0.2	1.1	1.5	0.7	
41	Cape Morris Jesup, North Greenland	83° 40'	34° 15'	+1 51	+1 43	-2.0	0.0	0.4	0.6	0.3	
GREENLAND, East Coast											
43	Danmarks Havn	76° 46'	18° 46'	-12 41	-12 32	-0.8	-0.6	3.6	4.7	2.8	
45	Cape Borgen	75° 26'	18° 05'	-11 04	-11 03	*0.80	*0.81	3.0	3.9	2.8	
47	Lille Pendulum	74° 37'	18° 29'	-11 40	-11 39	*0.80	*0.81	3.0	4.0	2.8	
49	Finsch Islands	73° 59'	21° 08'	-12 18	-12 18	*0.81	*0.75	3.2	4.3	2.8	
51	Myggbukta, Foster Bay	73° 28'	21° 33'	-11 57	-12 00	-0.9	-0.5	3.4	4.4	2.8	
53	Bomsterbugten	73° 21'	25° 17'	-12 15	-12 27	-0.4	-0.3	3.7	4.8	3.2	
Time meridian, 30° W											
55	Danmarks Island, Scoresby Sound	70° 27'	26° 12'	-11 45	-11 45	*0.63	*0.62	2.4	3.3	2.2	
Time meridian, 45° W											
57	Angmagssalik (Kulusuk)	65° 36'	37° 09'	-7 00	-6 50	(*1.71-0.8)		6.5	8.8	5.2	
on Argentia, p.4											
59	Finnsbu	63° 24'	41° 17'	-4 09	-3 42	+0.8	-0.4	6.1	8.1	4.6	
61	Kap Farvel	59° 45'	43° 53'	-2 21	-1 53	+0.2	-0.9	6.0	8.0	4.0	
GREENLAND, West Coast											
63	Frederiks dal	60° 00'	44° 40'	-2 10	-1 41	+1.5	-0.7	7.1	9.5	4.7	
65	Nanortalik	60° 07'	45° 15'	-2 43	-2 16	+0.5	-0.9	6.3	8.4	4.2	
67	Julianehaab	60° 43'	46° 01'	-2 09	-1 46	+0.3	-0.9	6.1	8.0	4.0	
69	Narsarsuaq	61° 08'	45° 25'	-2 15	-1 46	+1.8	+0.1	6.6	8.6	5.3	
71	Ivigtut, Arsuk Fjord	61° 12'	48° 11'	-1 49	-1 24	+0.7	-0.9	6.5	8.6	4.3	
73	Frederikshaab	62° 00'	49° 43'	-1 22	-1 00	+3.0	-0.6	8.5	11.1	5.6	
75	Godthaab	64° 10'	51° 44'	-1 21	-0 46	(*2.00-2.1)		9.8	13.0	6.5	
77	Fishmaster's Harbour, Sondre Stromfjord	66° 01'	53° 29'	-1 41	-1 16	+3.6	-0.1	8.6	10.2	6.1	
79	Camp Lloyd, Sondre Stromfjord	66° 58'	50° 57'	+2 21	+2 51	+1.7	-1.1	7.7	9.4	4.7	
81	Holsteinsborg	66° 56'	53° 42'	-1 29	-1 00	+2.0	-0.8	7.7	10.0	5.0	
83	Camp Michigan, Malmiak Fjord	66° 56'	52° 37'	-0 22	+0 10	+2.2	-0.8	7.9	10.2	5.1	
on Harrington Harbour, p.12											
85	Aningaq, Rikkol	67° 55'	53° 50'	-1 42	-1 42	+1.0	-0.8	5.6	7.4	3.6	
87	Nunarsuaq, Kronprinsens Ejlanden	68° 59'	53° 21'	-0 48	-0 52	-0.5	-0.9	4.2	5.7	2.8	
89	Godhavn, Disko Island	69° 15'	53° 33'	-1 37	-1 32	-0.4	-0.9	4.3	5.7	2.9	
91	Ingnerit, Umanak Fjord	71° 00'	51° 00'	+0 00	+0 00	-1.6	-1.1	3.3	4.3	2.2	
Time meridian, local											
93	North Star Bay, Wolstenholme Fjord	76° 32'	68° 50'	+0 30	+0 32	*1.33	*1.12	5.4	7.0	4.5	
95	Port Foulke	78° 18'	72° 45'	+0 28	+0 26	(*2.08-0.8)		7.9	10.7	6.5	
97	Rensselaer Bugt	78° 37'	70° 53'	+1 05	+0 58	(*2.08-1.1)		7.9	10.8	6.2	
99	Thank God Harbor, Polaris Bugt	81° 36'	61° 40'	+1 34	+1 31	-0.3	-0.4	3.9	5.4	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				
		North	West	h	m	ft	ft	ft	ft	ft	
	NORTHERN CANADA Time meridian, local			on Halifax, p.20							
101	Baffin Bay, etc., West Side Fort Conger, Discovery Harbor	81° 44'	64° 44'	+3	48	+3 25	-1.4	-1.3	4.3	5.9	3.0
103	Cape Lawrence	80° 21'	69° 15'	+3	46	+3 40	-0.2	-1.3	5.5	7.2	3.6
105	Payer Harbour, Cape Sabine	78° 43'	74° 25'	+3	36	+3 30	+1.7	-0.9	7.0	9.4	4.7
107	Cape Adair	71° 33'	71° 30'	+3	06	+3 06	+0.4	-1.2	6.0	7.8	3.9
109	Cape Hewett	70° 16'	67° 47'	+2	56	+2 56	+0.6	-0.5	5.5	7.2	4.4
	Davis Strait, West Side Time meridian, 60° W			on Pictou, p.8							
111	Cape Hooper, Baffin Island	68° 23'	66° 45'	-5	52	-5 41	*0.47	*0.43	1.6	1.9	1.8
113	Kivitoo, Baffin Island	67° 56'	64° 56'	-5	17	-5 10	*0.51	*0.43	1.8	2.4	1.9
				on Saint John, N. B., p.24							
115	Cape Dyer, Baffin Island	66° 34'	61° 40'	-6	19	-6 21	*0.31	*0.45	5.8	7.3	4.7
117	Clearwater Fiord, Cumberland Sound	66° 36'	67° 20'	-5	36	-5 38	-5.5	-0.6	15.9	20.6	11.4
119	Frobisher Bay	63° 29'	68° 02'	-4	13	-4 15	+5.5	+3.3	23.0	29.8	18.8
	Hudson Strait and Bay										
121	Pikyluk Island, Payne River	60° 00'	69° 55'	-2	15	-1 54	+3.7	+3.2	21.3	26.8	17.9
	Time meridian, 75° W										
123	Sorry Harbor, Resolution Island	61° 37'	64° 44'	-5	30	-5 30	-8.3	-0.9	13.4	17.6	9.8
125	Lower Savage Islands	61° 46'	65° 51'	-4	46	-4 55	-1.2	+2.0	17.6	25.4	14.8
127	Ashe Inlet, Big Island	62° 33'	70° 35'	-3	46	-3 43	+4.2	+2.2	22.8	30.9	17.6
129	Schooner Harbour, Baffin Island	64° 24'	77° 52'	-0	49	-0 44	-6.2	+0.4	14.2	18.9	11.5
131	Winter Island, Foxe Basin	66° 11'	83° 10'	+1	02	+1 10	-12.1	-0.8	9.5	12.4	8.0
	Time meridian, 90° W										
133	Coral Harbour, Southampton Island	64° 08'	83° 10'	-0	25	+0 04	-14.4	-1.5	7.9	10.3	6.5
135	Chesterfield Inlet	63° 20'	90° 42'	-8	17	-8 20	-12.4	-0.8	9.2	11.8	7.8
137	Churchill	58° 47'	94° 12'	-4	25	-4 36	-11.5	-1.4	10.7	13.4	7.9
				on Quebec, p.16							
139	Port Nelson, Nelson River entrance	57° 05'	92° 36'	+3	56	+4 35	-3.1	-0.9	11.5	12.9	6.4
	Time meridian, 75° W										
141	Moosonee, James Bay	51° 17'	80° 38'	+9	29	+9 32	*0.48	*1.81	4.5	5.4	5.2
143	Moose Factory, James Bay	51° 16'	80° 35'	+9	33	+10 37	*0.42	*1.56	4.0	5.4	4.5
145	Charlton Island, James Bay	51° 57'	79° 16'	+8	00	+6 38	*0.39	*1.06	4.3	5.3	3.9
				on Saint John, N. B., p.24							
147	Digges Harbour	62° 30'	77° 42'	-2	11	-2 05	*0.39	*0.62	7.1	9.3	6.1
149	Port de Boucherville, Nottingham Island	63° 12'	77° 28'	-2	07	-2 02	-11.6	-1.2	10.4	14.0	8.0
151	Wakeham Bay	61° 43'	71° 57'	-3	52	-3 55	-0.4	+2.2	18.2	27.0	15.3
153	Stupart Bay	61° 35'	71° 32'	-4	10	-4 17	0.0	+2.4	18.4	27.2	15.6
155	Diana Bay	60° 52'	70° 04'	-4	00	-4 03	+2.8	+3.1	20.5	26.8	17.4
157	Hopes Advance Bay, Ungava Bay	59° 21'	69° 38'	-3	59	-4 00	*1.44	*2.20	27.0	34.4	22.3
159	Leaf Bay, Ungava Bay	58° 55'	69° 00'	-4	00	-4 00	*1.49	*2.25	28.0	36.0	23.0
161	Leaf Lake, Ungava Bay	58° 45'	69° 40'	-3	00	-3 00	(*1.54+5.8)	32.0	40.0	28.0	
163	Koksoak River entrance	58° 32'	68° 11'	-3	50	-3 53	*1.47	*2.00	28.5	36.4	22.3
165	Port Burwell, Ungava Bay	60° 25'	64° 52'	-4	13	-4 13	-6.5	-0.9	15.2	19.9	10.7
	LABRADOR Time meridian, 52° 30' W										
167	Button Islands	60° 37'	64° 44'	-2	38	-2 38	-9.5	-0.3	11.6	15.4	9.5
169	Williams Harbour	60° 00'	64° 19'	-3	07	-3 27	*0.32	*0.30	6.8	8.2	4.6
				on Halifax, p.20							
171	Eclipse Harbour	59° 48'	64° 09'	+0	25	+0 02	-2.4	-1.0	3.0	3.7	2.6
173	Kangalaksiorvik Fiord	59° 23'	63° 47'	+1	00	+0 42	-2.6	-1.5	3.3	4.1	2.2
175	Nachivak Bay	59° 03'	63° 35'	+0	04	-0 20	-1.5	-1.1	4.0	5.0	3.0
177	Port Manvers	56° 57'	61° 25'	-0	55	-0 55	-2.3	-1.2	3.3	4.2	2.6
179	Hebron, Hebron Fjord	58° 12'	62° 38'	-0	49	-1 05	-1.4	-0.9	3.9	4.7	3.2
181	Nain	56° 33'	61° 41'	-0	32	-0 54	+0.3	-0.5	5.2	6.5	4.2
183	Hopedale Harbour	55° 27'	60° 13'	-0	46	-1 09	-0.4	-0.3	4.3	5.6	4.0
185	Webeck Harbour	54° 54'	58° 02'	-1	07	-1 38	-1.3	-0.8	3.9	5.0	3.3
	Hamilton Inlet and Lake Melville										
187	Indian Harbour	54° 27'	57° 12'	-0	37	-1 33	-1.0	-0.9	4.3	5.7	3.4
189	Ticorak Island	54° 17'	58° 12'	-0	35	-0 55	-0.9	-0.5	4.0	4.9	3.7
191	Rigot	54° 11'	58° 25'	-0	02	-0 17	-1.9	-1.0	3.5	4.5	2.8
193	Goose Bay	53° 21'	60° 24'	+4	22	+4 24	(*0.27+0.4)	1.2	1.7	1.6	
195	Cartwright Harbour	53° 42'	57° 02'	-0	03	-0 34	-1.3	-0.6	3.7	4.9	3.4
197	Curlew Harbour	53° 45'	56° 33'	-0	07	-0 38	-1.6	-0.9	3.7	4.9	3.1

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				
		North	West	h m	h m	ft	ft	ft	ft	ft	
LABRADOR—cont. Time meridian, 52° 30' W											
199	Comfort Bight	53° 09'	55° 46'	-0 32	-1 03	-1.9	-1.0	3.5	4.6	2.9	
201	Square Island Harbour	52° 44'	55° 49'	-0 34	-1 05	-2.0	-1.1	3.5	4.7	2.8	
203	Port Marnham	52° 23'	55° 44'	-0 43	-1 14	-2.7	-1.0	2.7	3.6	2.5	
205	Battle Harbour	52° 16'	55° 36'	-1 03	-1 30	-2.1	-0.3	2.6	3.8	3.1	
Strait of Bell Isle Chateau Bay											
207	Red Bay	52° 00'	55° 50'	-3 08	-3 19	*0.69	*0.81	2.4	3.1	2.5	
209	Forteau Bay	51° 43'	56° 25'	-2 00	-1 55	*0.56	*0.56	2.1	2.6	2.0	
211	NEWFOUNDLAND, East Coast			51° 27'	56° 53'	-0 26	-0 17	*0.78	*0.81	2.9	
on Halifax, p.20											
213	Pistolet Bay	51° 30'	55° 44'	-0 14	-0 28	*0.46	*0.29	2.4	3.1	1.8	
215	Ariège Bay	51° 10'	56° 00'	-0 34	-0 34	-2.6	-1.5	3.3	4.3	2.3	
217	Wild Cove	50° 42'	56° 10'	-0 49	-1 01	-2.0	-1.1	3.5	4.7	2.8	
219	Sops Island, White Bay	49° 50'	56° 46'	-0 49	-1 24	*0.46	*0.29	2.4	3.4	1.8	
221	Exploits Lower Harbour	49° 32'	55° 04'	-0 34	-1 09	-3.1	-1.3	2.6	3.5	2.1	
223	Fogo Harbour	49° 43'	54° 16'	-0 34	-0 42	-2.6	-1.3	3.1	4.2	2.4	
225	Valleyfield	49° 10'	53° 37'	-0 46	-1 13	*0.45	*0.33	2.2	2.9	1.8	
227	Port Union	48° 30'	53° 05'	-0 53	-1 15	*0.49	*0.48	2.2	3.0	2.1	
229	Random Head Harbour, Trinity Bay	48° 06'	53° 34'	-0 53	-1 05	*0.48	*0.33	2.4	3.2	1.9	
231	Harbour Grace, Conception Bay	47° 41'	53° 12'	-0 28	-0 46	*0.51	*0.33	2.6	3.5	2.0	
233	St. John's	47° 34'	52° 42'	-0 34	-0 46	*0.52	*0.38	2.6	3.5	2.1	
NEWFOUNDLAND, South Coast											
235	Trepassey Harbour	46° 43'	53° 23'	-0 19	-0 11	-1.2	-0.5	4.2	5.6	3.5	
237	St. Mary Harbour, St. Mary Bay	46° 55'	53° 35'	-0 14	-0 06	-1.2	-0.5	4.2	5.6	3.5	
<i>Placentia Bay</i>											
239	ARGENTIA	47° 18'	53° 59'	Daily predictions				4.9	6.3	4.4	
241	Woody Island	47° 47'	54° 10'	+0 09	+0 09	-0.5	-0.3	4.7	6.0	4.0	
243	Mortier Bay	47° 10'	55° 09'	+0 15	+0 26	-1.0	-0.8	4.7	6.0	3.5	
245	Great St. Lawrence Harbour	46° 55'	55° 22'	+0 28	+0 55	-0.7	+0.3	3.9	5.0	4.2	
Time meridian, 60° W											
247	St. Pierre Harbor, St. Pierre Island	46° 47'	56° 10'	-0 09	+0 13	-0.8	+0.2	3.9	5.0	4.1	
Time meridian, 52° 30' W											
<i>Fortune Bay</i>											
249	Grande le Pierre Harbour	47° 40'	54° 47'	+1 09	+1 09	-1.0	+0.2	3.7	4.8	4.0	
251	Belleoram	47° 32'	55° 25'	+0 57	+0 57	(*0.67+0.8)		3.3	4.3	3.8	
253	Ship Cove, Bay d'Espoir	47° 52'	55° 50'	+0 45	+0 53	-0.4	0.0	4.5	5.5	4.2	
255	Great Jervis Harbour, Bay d'Espoir	47° 39'	56° 11'	+0 38	+1 05	-1.1	+0.1	3.7	4.8	3.9	
257	Hare Bay	47° 37'	56° 32'	+0 41	+1 08	(*0.67+0.6)		3.3	4.3	3.6	
259	Grey River	47° 34'	57° 07'	+0 45	+1 12	(*0.63+0.7)		3.1	4.0	3.5	
261	Connoire Bay	47° 40'	57° 54'	+0 50	+0 50	(*0.59+0.7)		2.9	3.8	3.3	
263	La Poile Bay	47° 40'	58° 24'	+1 15	+1 15	(*0.63+0.6)		3.1	4.0	3.4	
on Harrington Harbour, p.12											
265	Port Aux Basques	47° 35'	59° 09'	-1 24	-1 28	*0.80	*0.75	3.1	4.0	2.8	
267	Codroy Road	47° 53'	59° 24'	-1 22	-1 27	*0.74	*0.75	2.8	3.7	2.6	
NEWFOUNDLAND, West Coast											
269	St. Georges Harbour	48° 27'	58° 30'	-0 28	-0 38	*0.78	*0.88	2.8	3.5	2.8	
271	Port-a-Port	48° 33'	58° 45'	+0 05	+0 10	-1.3	-1.0	3.5	4.5	2.4	
273	Frenchman's Cove, Bay of Islands	49° 04'	58° 10'	+0 10	+0 10	-0.5	0.0	3.3	4.2	3.3	
275	Norris Cove, Bonne Bay	49° 31'	57° 52'	+0 10	+0 10	-0.7	-0.4	3.5	4.4	3.0	
277	Portland Cove	50° 11'	57° 36'	+0 19	+0 19	-0.6	-0.4	3.6	4.6	3.0	
279	Port Saunders	50° 39'	57° 18'	+0 07	+0 03	-0.3	-0.3	3.8	4.9	3.2	
281	Castors Harbour, St. John Bay	50° 55'	56° 59'	+0 10	+0 10	*0.78	*0.75	3.0	4.1	2.7	
283	St. Barbe Bay	51° 12'	56° 46'	+0 00	+0 00	*0.78	*0.56	3.3	4.4	2.6	
QUEBEC, Gulf of St. Lawrence Time meridian, 60° W											
285	Bradore Bay	51° 28'	57° 15'	-0 35	-0 30	-0.6	-0.1	3.3	4.4	3.1	
287	Mistanoque Harbour	51° 16'	58° 12'	-0 15	-0 15	-0.4	-0.1	3.5	4.6	3.3	
289	HARRINGTON HARBOUR	50° 30'	59° 28'	Daily predictions				3.8	4.9	3.5	
291	Wapitagan Harbour	50° 12'	60° 01'	+0 15	+0 15	-0.3	+0.1	3.4	4.4	3.4	
293	Kegaska	50° 12'	61° 14'	+0 40	+0 40	-0.9	-0.2	3.1	4.0	3.0	
295	Natasquian	50° 12'	61° 50'	+1 00	+1 10	-0.8	-0.1	3.1	4.0	3.1	
297	Betchewun Harbour	50° 14'	63° 11'	+2 09	+2 13	-0.7	-0.4	3.5	4.6	3.0	
299	Havre St. Pierre	50° 14'	63° 36'	+2 23	+2 32	0.0	-0.1	3.9	4.8	3.5	
301	Mingan	50° 18'	64° 03'	+2 35	+2 40	+0.9	0.0	4.7	5.8	3.9	
<i>Anticosti Island</i>											
303	Heath Point	49° 05'	61° 42'	+0 51	+0 52	(*0.61+0.3)		2.3	3.0	2.4	
305	Southwest Point	49° 24'	63° 36'	+3 21	+3 26	-0.3	0.0	3.5	4.4	3.4	
307	Ellis Bay	49° 48'	64° 22'	+3 37	+3 38	+0.3	-0.5	4.6	5.7	3.4	
309	Moisie Bay	50° 12'	66° 05'	+3 43	+3 49	+2.3	+0.5	5.6	7.2	4.9	
311	Sept Iles	50° 13'	66° 24'	+3 54	+3 58	+2.7	-0.1	6.6	8.6	4.8	
313	Cawee Islands	49° 50'	67° 00'	+4 01	+4 07	+3.0	+0.6	6.2	8.0	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				
	QUEBEC, St. Lawrence River Time meridian, 75° W	North	West	h m	h m	ft	ft	ft	ft	ft	
on Harrington Harbour, p.12											
315	Ste. Anne des Monts	49° 08'	66° 29'	+3 17	+3 19	+3.4	+0.6	6.6	8.6	5.5	
317	Cap Chat	49° 06'	66° 45'	+3 17	+3 21	+4.2	+1.0	7.0	9.0	6.1	
319	Pointe des Monts	49° 20'	67° 22'	+3 10	+3 16	+4.3	+0.8	7.3	9.6	6.1	
321	Matane	48° 51'	67° 32'	+3 18	+3 22	+4.7	+0.9	7.6	9.9	6.3	
323	Metis-sur-Mer	48° 41'	68° 02'	+3 24	+3 28	+5.4	+1.1	8.1	10.6	6.8	
on Quebec, p.16											
325	Betsiamites River	48° 53'	68° 39'	-4 20	-5 08	-3.8	+1.4	8.5	11.2	7.3	
327	Father Point	48° 31'	68° 28'	-4 22	-5 29	-3.4	+1.4	8.9	11.7	7.5	
329	Old Bic Harbour	48° 22'	68° 44'	-4 12	-5 14	-3.3	+1.4	9.0	11.8	7.5	
331	Tadoussac, Saguenay River	48° 08'	69° 43'	-3 47	-4 54	-1.8	+0.8	11.1	14.0	8.0	
333	Chicoutimi, Saguenay River	48° 26'	71° 03'	-3 28	-3 40	-1.4	+1.3	11.0	14.4	8.4	
335	Brandyot Islands	47° 52'	69° 41'	-3 36	-4 40	-0.5	+2.2	11.0	14.5	9.3	
337	Murray Bay	47° 39'	70° 08'	-3 20	-4 22	+0.4	+2.3	11.8	15.3	9.8	
339	Pointe aux Orignaux	47° 29'	70° 01'	-2 47	-3 41	-0.3	+2.2	11.2	14.7	9.4	
341	Ile aux Coudres	47° 26'	70° 19'	-2 10	-3 21	+1.2	+2.0	12.9	15.8	10.1	
343	L' Islet	47° 08'	70° 22'	-1 17	-2 05	0.0	+0.9	12.8	15.3	9.0	
345	Beaujeu Channel	47° 05'	70° 56'	-1 10	-1 43	+0.6	+0.5	13.8	15.7	9.0	
347	Grosse Ile	47° 02'	70° 40'	-0 57	-1 19	+1.3	0.0	15.0	17.1	9.1	
349	Berthier	46° 56'	70° 44'	-0 47	-1 08	+1.3	0.0	15.0	16.9	9.1	
351	St. Laurent d' Orleans	46° 52'	71° 00'	-0 20	-0 30	+0.3	+0.2	13.8	15.6	8.7	
353	QUEBEC	46° 49'	71° 11'	Daily predictions				13.7	15.5	8.5	
355	St. Nicolas	46° 43'	71° 24'	+0 35	+0 32	-0.7	---	12.6	14.3	---	
357	St. Augustin	46° 43'	71° 28'	+0 54	+0 53	-1.6	---	11.8	13.3	---	
359	Ste. Croix <1>	46° 37'	71° 45'	+1 31	+2 00	---	---	11.8	13.3	---	
361	Pointe Platon <1>	46° 40'	71° 51'	+1 43	+2 11	---	---	11.4	12.9	---	
363	Grondines <1>	46° 36'	72° 04'	+2 14	+3 18	---	---	6.7	8.1	---	
365	Cap a la Roche <1>	46° 33'	72° 10'	+2 37	+3 48	---	---	5.4	6.7	---	
367	Batiscan <1>	46° 31'	72° 15'	+3 32	+4 49	---	---	2.3	3.3	---	
369	Champlain <1>	46° 26'	72° 21'	+4 08	+5 30	---	---	1.8	2.8	---	
371	Trois Rivieres <1>	46° 20'	72° 33'	+4 45	+6 15	---	---	0.7	1.0	---	
on Pictou, p.8											
373	Gaspé Bay	48° 50'	64° 29'	+4 43	+4 58	-1.1	-0.5	2.6	3.3	3.1	
375	Point St. Peter	48° 38'	64° 10'	+4 59	+5 11	*0.67	*0.52	2.5	3.2	2.5	
377	Chaleur Bay Port Daniel	48° 10'	64° 57'	+5 27	+5 42	-0.7	-0.6	3.1	3.8	3.3	
379	Paspébiac	48° 01'	65° 14'	+5 22	+5 34	-0.4	-1.0	3.8	4.6	3.2	
381	Carlton Point	48° 05'	66° 07'	+5 31	+5 36	+0.8	-0.7	4.7	6.2	4.0	
NEW BRUNSWICK, Gulf of St. Lawrence											
Chaleur Bay-cont.											
383	Campbellton	48° 01'	66° 40'	+6 04	+6 40	+3.5	+0.9	5.8	7.2	6.1	
385	Dalhousie	48° 04'	66° 22'	+5 42	+5 52	+2.2	-0.2	5.6	7.1	4.9	
387	Bathurst	47° 37'	65° 39'	+6 04	+6 50	-0.3	-1.1	4.0	4.8	3.2	
389	Caraqet Harbour	47° 48'	64° 56'	+5 49	+5 50	-1.0	-1.1	3.3	4.0	2.9	
391	Miscou Harbour	47° 54'	64° 35'	+5 45	+5 57	-0.5	-1.1	3.8	5.0	3.1	
393	Old Tracadie Gully entrance	47° 31'	64° 52'	+6 25	+6 36	-1.6	-1.2	2.8	3.5	2.5	
395	Tracadie	47° 31'	64° 55'	+6 55	+7 06	*0.55	*0.35	2.2	2.8	1.9	
Mean Diurnal											
397	Portage Island, Miramichi Bay †	47° 09'	65° 03'	-5 11	-4 59	-1.7	-0.8	---	3.3	2.2	
399	Newcastle, Miramichi River †	47° 00'	65° 34'	-3 53	-3 13	-0.7	-0.5	---	4.0	---	
401	Richibucto River entrance †	46° 43'	64° 48'	-4 45	---	-2.7	-0.8	---	2.3	1.8	
403	Shediac Bay †	46° 15'	64° 32'	---	+0 18	-1.9	-0.5	---	2.8	2.8	
405	Cape Tormentine	46° 08'	63° 47'	+0 41	+1 03	+1.5	-0.1	4.8	5.7	4.6	
407	Tidnish Head, Baie Verte	46° 01'	64° 01'	+0 33	+0 54	+1.7	-0.2	5.1	6.3	4.7	
PRINCE EDWARD ISLAND											
409	Tignish †	46° 58'	64° 00'	-4 59	-5 27	-2.5	-0.8	---	2.5	1.7	
411	Alberton †	46° 49'	64° 03'	-4 27	-4 10	-2.8	-0.7	---	2.1	1.7	
413	Malpeque Bay †	46° 35'	63° 40'	-3 29	-3 13	-2.5	-0.8	---	2.5	1.8	
415	North Rustico †	46° 28'	63° 17'	-4 10	-4 04	-2.7	-1.0	---	2.5	1.6	
417	St. Peters Bay †	46° 26'	62° 44'	-3 52	-3 37	-3.3	-1.0	---	1.9	1.5	
419	Naufrage †	46° 28'	62° 25'	-3 09	-3 27	-2.6	-0.8	---	2.4	2.0	
Mean Spring											
421	Souris Head	46° 20'	62° 17'	-1 23	-1 25	-0.6	-0.2	2.8	3.5	3.5	
423	Georgetown Harbour	46° 11'	62° 32'	-1 03	-1 00	-0.5	-0.1	2.8	3.5	3.6	
425	Cape Bear	46° 00'	62° 27'	-0 42	-0 40	-0.6	-0.5	3.1	4.0	3.4	
427	Charlottetown	46° 13'	63° 08'	+0 33	+0 42	+2.5	+0.5	5.2	6.4	5.4	
429	Summerside Harbour	46° 24'	63° 47'	+0 57	+1 19	+0.9	+0.3	3.8	4.5	4.5	
ISLANDS, Gulf of St. Lawrence											
431	St. Paul Island	47° 12'	60° 09'	-1 25	-1 22	*0.64	*0.57	2.2	2.8	2.4	
433	Amherst Harbour, Magdalen Islands	47° 14'	61° 50'	-1 05	-1 07	*0.53	*0.57	1.6	2.0	2.1	

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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				
	NOVA SCOTIA, Gulf of St. Lawrence Time meridian, 60° W	North	West	h m	h m	ft	ft	ft	ft	ft	
on Pictou, p.8											
435	Pugwash	45° 51'	63° 40'	+1 00	+1 03	+1.8	0.0	5.0	6.0	4.8	
437	PICTOU	45° 41'	62° 42'			Daily predictions		3.2	3.9	3.9	
439	Merigomish Harbour	45° 39'	62° 27'	-0 13	-0 01	-0.3	0.0	2.9	3.4	3.8	
441	Cape George	45° 53'	61° 53'	-0 54	-0 51	-1.6	-0.8	2.4	3.2	2.7	
443	Antigonish Harbour	45° 40'	61° 53'	+0 09	+0 17	-1.7	-0.5	2.0	2.5	2.8	
445	Cape Jack	45° 42'	61° 33'	-1 11	-1 18	-1.8	-0.7	2.1	2.6	2.7	
447	Auld Cove	45° 39'	61° 26'	-0 27	-0 33	(*0.62+1.3)		2.0	2.6	3.7	
	Cape Breton Island										
449	Port Hood	46° 01'	61° 32'	-0 46	-0 45	-1.6	-0.9	2.5	3.2	2.7	
451	Mabou River entrance	46° 06'	61° 28'	-0 53	-1 04	*0.66	*0.61	2.2	2.9	2.5	
453	Cheticamp	46° 37'	61° 02'	-1 23	-1 20	*0.56	*0.74	1.4	1.8	2.4	
NOVA SCOTIA, Outer Coast											
Cape Breton Island—cont.											
455	Neil Harbour	46° 48'	60° 20'	-1 44	-1 45	*0.69	*0.65	2.4	3.1	2.7	
457	Ingonish Island	46° 40'	60° 23'	-1 40	-1 33	-1.5	-0.9	2.6	3.2	2.7	
459	St. Anns Harbour	46° 15'	60° 34'	-1 37	-1 40	-1.4	-1.0	2.8	3.5	2.7	
461	North Sydney	46° 13'	60° 15'	-1 54	-1 49	*0.73	*0.61	2.6	3.2	2.7	
463	Glace Bay	46° 12'	59° 55'	-1 59	-1 54	-1.6	-0.9	2.5	3.2	2.7	
on Halifax, p.20											
465	Louisburg Harbour	45° 54'	59° 59'	-0 08	-0 14	-1.6	-0.7	3.5	4.2	3.2	
467	Garbarus Cove	45° 51'	60° 10'	+0 08	+0 10	-1.4	-0.7	3.7	4.4	3.3	
469	St. Peter Bay	45° 38'	60° 52'	-0 12	-0 07	-0.6	-0.4	4.2	5.1	3.8	
471	Arichat	45° 31'	61° 02'	-0 25	-0 14	-0.9	-0.5	4.0	4.8	3.6	
473	Port Hastings, Strait of Canso	45° 39'	61° 24'	-0 16	-0 12	0.0	+0.2	4.2	5.1	4.4	
475	Guysborough	45° 23'	61° 29'	+0 06	+0 18	-1.1	-0.5	3.8	4.6	3.5	
477	Canso Harbour	45° 21'	61° 00'	-0 05	-0 04	-1.1	-0.6	3.9	4.7	3.5	
479	Whitehaven Harbour	45° 14'	61° 12'	-0 10	-0 02	-1.1	-0.4	3.7	4.7	3.6	
481	Iсаacs Harbour	45° 11'	61° 40'	-0 03	+0 04	-0.6	-0.1	3.9	4.6	4.0	
483	Sonora, St. Mary River	45° 05'	61° 55'	-0 02	+0 09	-0.7	-0.6	4.3	5.2	3.7	
485	Liscomb Harbour	45° 00'	62° 02'	-0 11	-0 05	-0.6	-0.4	4.2	5.0	3.8	
487	Sheet Harbour	44° 54'	62° 30'	-0 08	-0 04	-1.1	-0.9	4.2	5.0	3.3	
489	Ship Harbour	44° 47'	62° 49'	-0 07	-0 04	-0.6	-0.4	4.2	5.1	3.8	
491	Jeddore Harbour	44° 45'	63° 01'	-0 06	-0 03	-0.5	-0.4	4.3	5.2	3.9	
493	HALIFAX	44° 40'	63° 34'			Daily predictions		4.4	5.3	4.3	
495	Sable Island, north side	43° 57'	60° 06'	-0 06	-0 12	-2.7	-0.9	2.6	3.2	2.5	
497	Sable Island, south side	43° 56'	59° 54'	-0 02	-0 06	-2.1	-1.6	3.9	4.8	2.5	
499	St. Margarets Bay	44° 31'	63° 56'	+0 08	+0 07	-0.5	-0.3	4.2	4.9	3.9	
501	Chester, Mahone Bay	44° 34'	64° 18'	+0 01	-0 04	-0.2	-0.2	4.4	5.3	4.1	
503	Mahone Harbour, Mahone Bay	44° 27'	64° 22'	+0 03	-0 01	-0.1	-0.2	4.5	5.5	4.2	
505	Lunenburg	44° 22'	64° 19'	+0 07	+0 07	-0.1	+0.1	4.2	4.9	4.3	
507	Riverport, La Have River	44° 17'	64° 20'	+0 12	+0 05	-0.3	-0.4	4.5	5.3	4.0	
509	Bridgewater, La Have River	44° 23'	64° 31'	+0 09	+0 06	-0.2	-0.3	4.5	5.5	4.1	
511	Liverpool Bay	44° 02'	64° 40'	+0 14	+0 04	-0.5	-0.4	4.3	5.1	3.9	
513	Lockeport	43° 44'	65° 05'	+0 27	+0 02	-0.2	-0.4	4.6	5.4	4.0	
515	Shelburne	43° 45'	65° 18'	+0 30	+0 35	+0.1	-0.3	4.8	5.8	4.2	
517	Barrington Passage	43° 32'	65° 36'	+0 51	+0 30	+1.6	+0.6	5.4	6.2	5.4	
519	Swim Point	43° 26'	65° 38'	+1 41	+1 03	+2.9	+0.1	7.2	8.4	5.8	
NOVA SCOTIA, Bay of Fundy											
on Saint John, N. B., p.24											
521	Lower East Pubnico	43° 38'	65° 46'	-1 52	-2 07	*0.43	*0.48	8.7	10.0	6.3	
523	Yarmouth Harbour	43° 48'	66° 08'	-1 07	-1 15	*0.53	*0.42	11.5	13.4	7.5	
525	Westport, St. Mary Bay	44° 16'	66° 21'	-0 35	-0 30	*0.72	*0.72	15.0	16.7	10.4	
527	Tiverton, St. Mary Bay	44° 24'	66° 13'	-0 38	-0 30	-5.6	-0.7	15.9	18.3	11.3	
529	Weymouth, St. Mary Bay	44° 27'	66° 01'	-0 26	-0 22	-6.5	-0.7	15.0	17.0	10.8	
531	Digby, Annapolis Basin	44° 38'	65° 45'	-0 09	-0 07	+0.7	+0.3	21.2	24.6	14.9	
533	Annapolis Royal, Annapolis River	44° 45'	65° 30'	+0 06	+0 10	+2.2	+0.4	22.6	25.7	15.7	
535	Port George	45° 01'	65° 10'	-0 06	-0 06	+6.7	+0.8	26.7	30.5	18.2	
537	Ile Haute	45° 15'	65° 00'	-0 02	-0 02	+7.4	+0.7	27.5	31.5	18.5	
539	Spencer Island	45° 20'	64° 42'	+0 17	+0 21	*1.47	*1.50	30.5	35.0	21.2	
Minas Basin											
541	Parrsboro (Partridge Island) <2>	45° 22'	64° 20'	+0 51	+0 49	+14.7	--	34.4	39.0	22.3	
543	Horton Bluff, Avon River	45° 06'	64° 58'	+0 58	+1 02	*1.76	*1.38	38.1	43.6	24.6	
545	Windsor <2>	45° 00'	64° 08'	+1 03	--	+19.5	--	--	--	--	
547	Burntcoat Head	45° 18'	63° 49'	+1 06	+1 12	*1.90	*2.18	38.4	43.5	27.9	
549	Truro <2>	45° 22'	63° 20'	+1 43	--	+26.1	--	--	--	--	
551	Spicer Cove, Chignecto Bay	45° 26'	64° 54'	+0 12	+0 16	+7.0	+0.8	27.0	30.0	18.3	
553	Joggins <2>	45° 41'	64° 28'	+0 14	+0 26	+14.2	+1.8	33.2	37.0	22.4	
555	Amherst Point, Cumberland Basin	45° 50'	64° 17'	+0 33	+0 45	*1.69	*1.55	35.6	40.5	24.0	
NEW BRUNSWICK, Bay of Fundy											
Petitcodiac River <3>											
557	Grindstone Island	45° 43'	64° 37'	+0 21	+0 28	*1.49	*1.45	31.1	35.6	21.4	
559	Hopewell Cape	45° 52'	64° 35'	+0 14	+0 39	*1.64	*1.85	33.2	38.0	24.0	
561	Moncton <2> <3>	46° 05'	64° 46'	+0 46	--	+17.2	--	--	--	--	
563	Salisbury	46° 01'	65° 03'	+1 31	--	+18.2	--	--	--	--	
565	Herring Cove	45° 35'	64° 58'	+0 22	+0 20	+8.4	+0.9	28.3	32.4	19.1	
567	Quaco' Bay	45° 20'	65° 32'	+0 11	+0 12	+2.0	-0.3	23.1	26.3	15.3	
569	SAINT JOHN <4>	45° 15'	66° 04'			Daily predictions		20.8	23.7	14.4	

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		Mean	Spring		
				High Water	Low Water	High Water	Low Water				
	NEW BRUNSWICK, Bay of Fundy—cont. Time meridian, 60° W	North	West	h m	h m	ft	ft	ft	ft	ft	
				on Saint John, N. B., p.24							
571	Indiantown, St. John River	45° 16'	66° 05'	+1 30	+2 25	---	---	1.2	1.4	2.4	
573	Lepreau Harbour	45° 07'	66° 29'	-0 01	+0 03	-2.3	-0.5	19.0	21.7	13.0	
575	L' Etang Harbour	45° 02'	66° 49'	+0 01	+0 05	-3.2	-0.8	18.4	21.0	12.4	
577	North Head, Grand Manan Island	44° 46'	66° 45'	-0 05	-0 05	-4.5	-0.9	17.2	19.3	11.7	
579	Seal Cove, Grand Manan Island	44° 37'	66° 51'	-0 15	-0 17	*0.68	*0.65	14.3	16.3	9.8	
581	Outer Wood Island <5>	44° 36'	66° 48'	-0 25	-0 27	-7.8	-0.8	13.8	16.2	10.1	
583	Machias Seal Island <5>	44° 30'	67° 06'	-0 01	---	-9.6	-1.7	12.9	14.5	8.8	
585	Welshpool, Campobello Island <5>	44° 53'	66° 57'	-0 01	+0 06	-3.5	-1.0	18.3	21.2	12.1	
587	Wilsons Beach, Campobello Island <5>	44° 56'	66° 56'	+0 00	+0 01	-3.7	+0.1	17.0	19.4	12.6	
589	Back Bay, Letite Harbour <5>	45° 03'	66° 52'	+0 00	-0 03	-3.5	0.0	17.3	20.1	12.6	
591	Midjik Bluff, Passamaquoddy Bay <5>	45° 07'	66° 54'	+0 12	+0 17	-2.0	-0.5	19.3	22.0	13.1	
593	St. Andrews, Passamaquoddy Bay <5>	45° 04'	67° 03'	+0 14	+0 20	-2.3	0.0	18.5	21.2	13.2	
	MAINE Time meridian, 75° W			on Eastport, p.28							
595	Pettegrove Point, Dochet Island	45° 07.7'	67° 08.6'	+0 08	+0 12	*1.07	*1.00	19.57	22.12	10.24	
597	EASTPORT	44° 54.2'	66° 59.1'		Daily predictions			18.35	21.18	9.6	
599	Cobscook Bay	44° 55.4'	67° 07.8'	+0 11	+0 14	*1.04	*1.00	19.17	22.05	10.04	
601	Garnet Point, Pennamquan River	44° 52.2'	67° 06.5'	+0 31	+0 33	*0.94	*0.77	17.3	19.7	9.0	
603	Coffins Point	44° 52.5'	67° 09.5'	+0 59	+1 13	*0.94	*0.75	17.4	19.8	9.0	
605	Birch Islands, Whiting Bay	44° 49.4'	67° 09.1'	+1 07	+1 18	*0.97	*0.73	17.90	19.06	9.28	
607	Gravelly Point, Whiting Bay	44° 39.4'	67° 12.6'	-0 10	-0 19	*0.74	*0.74	13.5	15.4	7.1	
609	Cutler, Little River	44° 38.5'	67° 17.8'	-0 07	-0 14	*0.70	*0.84	12.78	14.67	6.76	
611	Cutler, Naval Radio Station	44° 36.2'	67° 22.1'	-0 11	-0 28	*0.68	*0.68	12.4	14.1	6.5	
613	Stone Island, Machias Bay	44° 41.9'	67° 23.6'	+0 01	-0 09	*0.69	*0.69	12.6	14.4	6.6	
615	Machiastown, Machias River	44° 36.9'	67° 29.8'	-0 05	-0 13	*0.66	*0.66	12.1	13.8	6.2	
				on Portland, p.36							
617	Steele Harbor Island	44° 29.6'	67° 32.6'	-0 28	-0 20	*1.27	*1.27	11.6	13.3	6.2	
619	Millbridge, Narraguagus River, Maine	44° 32.4'	67° 52.5'	-0 15	+0 05	*1.23	*1.09	11.31	12.89	6.03	
621	Green Island, Petit Manan Bar	44° 22.3'	67° 52.2'	-0 28	-0 24	*1.16	*1.16	10.6	12.2	5.7	
623	Prospect Harbor	44° 24'	68° 01'	-0 24	-0 15	*1.15	*1.15	10.5	12.1	5.7	
				on Bar Harbor, p.32							
625	Winter Harbor, Frenchman Bay	44° 23.3'	68° 05.2'	-0 01	+0 10	*0.95	*0.95	10.1	11.6	5.4	
	Mount Desert Island										
627	BAR HARBOR	44° 23.5'	68° 12.3'		Daily Predictions			10.56	12.25	5.66	
629	Southwest Harbor	44° 16.5'	68° 18.8'	+0 00	-0 27	*0.96	*0.95	10.2	11.7	5.5	
631	Bass Harbor	44° 14.5'	68° 21.2'	+0 04	-0 27	*0.93	*0.93	9.9	11.3	5.4	
	Blue Hill Bay										
633	Blue Hill Harbor	44° 24.5'	68° 33.8'	+0 09	+0 11	*0.95	*0.95	10.1	11.6	5.4	
635	Mackerel Cove	44° 10.2'	68° 26.1'	+0 02	-0 27	*0.94	*0.93	10.0	11.5	5.4	
637	Ellsworth, Union River	44° 32.1'	68° 25.3'	+0 15	+0 16	*1.00	*0.97	10.59	12.07	5.67	
639	Burnt Coat Harbor, Swans Island	44° 08.7'	68° 27.0'	-0 01	+0 06	*0.89	*0.88	9.5	10.8	5.1	
	Penobscot Bay										
	Eggemoggin Reach										
641	Center Harbor	44° 15.8'	68° 35.2'	+0 09	+0 12	*0.95	*0.95	10.1	11.5	5.4	
643	Little Deer Isle	44° 17.5'	68° 41.6'	+0 16	+0 14	*0.94	*0.93	10.0	11.5	5.4	
645	Isle Au Haut	44° 04.4'	68° 38.2'	-0 01	-0 27	*0.87	*0.88	9.3	10.7	5.0	
647	Oceanville, Deer Isle	44° 11.5'	68° 37.2'	+0 08	+0 05	*0.93	*0.95	9.86	11.62	5.29	
649	Stonington, Deer Isle	44° 09.2'	68° 39.7'	+0 08	+0 06	*0.91	*0.90	9.7	11.2	5.2	
651	Matinicus Harbor, Wheaton Island	43° 51.7'	68° 52.9'	+0 05	-0 27	*0.85	*0.85	9.0	10.4	4.8	
653	Vinalhaven, Vinalhaven Island	44° 02.6'	68° 50.4'	+0 09	+0 10	*0.87	*0.88	9.3	10.7	5.0	
655	North Haven	44° 07.6'	68° 52.4'	+0 13	+0 10	*0.91	*0.90	9.7	11.2	5.3	
657	Pulpit Harbor, North Haven Island	44° 09.4'	68° 53.2'	+0 12	+0 10	*0.93	*0.97	9.85	11.43	5.30	
659	Castine	44° 23.2'	68° 47.8'	+0 15	+0 11	*0.95	*1.00	10.1	11.6	5.4	
	Penobscot River										
661	Fort Point	44° 28.3'	68° 44.80'	+0 09	+0 06	*0.98	*0.95	10.39	11.67	5.55	
663	Gross Point, Eastern Channel	44° 32.2'	68° 45.5'	-0 06	+0 10	*0.99	*0.98	10.4	12.0	5.6	
665	Bucksport	44° 34.3'	68° 48.1'	-0 04	+0 11	*1.01	*1.00	10.8	12.4	5.8	
667	Winterport	44° 38.2'	68° 50.5'	-0 09	+0 04	*1.11	*0.92	11.76	13.64	6.22	
669	Sandy Point	44° 40.3'	68° 48.3'	+0 06	+0 08	*0.99	*0.98	10.5	12.1	5.6	
671	Bangor	44° 47.7'	68° 46.3'	-0 06	+0 18	*1.25	*0.87	13.40	14.97	7.03	
673	Belfast	44° 25.6'	69° 00.3'	+0 09	+0 04	*0.97	*1.03	10.23	11.66	5.51	
675	Rockland	44° 06.3'	69° 06.1'	+0 09	+0 06	*0.93	*1.03	9.78	11.15	5.28	
	MAINE, outer coast				on Portland, p.36						
677	Tenants Harbor	43° 57.9'	69° 13.0'	-0 11	-0 11	*1.02	*1.02	9.3	10.6	5.0	
679	Monhegan Island	43° 45.9'	69° 19.3'	-0 13	-0 09	*0.97	*0.97	8.8	10.1	4.7	
681	Burnt Island, Georges Islands	43° 52.3'	69° 17.7'	-0 13	-0 12	*0.98	*0.98	8.9	10.2	4.8	
	St. George River										
683	Port Clyde	43° 55.5'	69° 15.6'	-0 11	-0 07	*0.98	*0.98	8.9	10.2	4.8	
685	Otis Cove	43° 59.2'	69° 14.2'	-0 15	-0 14	*1.00	*1.00	9.1	10.5	4.9	
687	Thomaston	44° 04.3'	69° 10.9'	-0 04	-0 03	*1.03	*1.03	9.4	10.8	5.0	
689	New Harbor, Muscongus Bay	43° 52.5'	69° 29.4'	-0 10	-0 08	*0.97	*0.97	8.8	10.1	4.7	
691	Muscongus Harbor, Muscongus Sound	43° 58.0'	69° 26.5'	-0 09	-0 03	*0.99	*0.99	9.0	10.4	4.8	
693	Friendship Harbor	43° 58.2'	69° 20.5'	-0 18	-0 11	*0.99	*0.99	9.0	10.4	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				
		North	West	h m	h m	ft	ft	ft	ft	ft	
on Portland, p.36											
MAINE, outer coast—cont. Time meridian, 75° W											
695	<i>Medomak River</i> Jones Neck	44° 00.9'	69° 22.8'	-0 10	-0 05	*1.00	*1.00	9.1	10.5	4.9	
697	Waldoboro	44° 05.6'	69° 22.6'	-0 16	-0 04	*1.04	*1.04	9.5	10.9	5.1	
699	Pemaquid Harbor, Johns Bay	43° 52.6'	69° 31.5'	-0 05	-0 04	*0.97	*0.97	8.8	10.1	4.7	
701	<i>Damariscotta River</i> East Boothbay	43° 51.9'	69° 35.0'	-0 02	+0 01	*0.98	*0.98	8.9	10.2	4.8	
703	Walpole	43° 56.0'	69° 34.8'	+0 06	+0 14	*1.03	*1.06	9.35	10.66	5.05	
705	Newcastle	44° 02.0'	69° 32.2'	+0 16	+0 25	*1.02	*1.02	9.3	10.7	5.0	
707	Damariscotta Harbor, Damariscotta Island	43° 45.5'	69° 36.9'	-0 09	-0 10	*0.97	*0.97	8.8	10.1	4.7	
709	Boothbay Harbor	43° 51.1'	69° 37.7'	-0 06	-0 08	*0.97	*0.97	8.8	10.1	4.7	
711	Southport, Townsend Gut	43° 50.8'	69° 39.7'	+0 01	+0 01	*0.98	*0.98	8.9	10.2	4.8	
<i>Sheepscot River</i>											
713	Isle of Springs	43° 51.6'	69° 41.2'	-0 02	-0 04	*0.98	*0.98	8.9	10.3	4.8	
715	Cross River entrance	43° 55.5'	69° 40.2'	+0 07	+0 04	*1.00	*1.00	9.1	10.5	4.9	
717	Wiscasset	44° 00.0'	69° 40.0'	+0 16	+0 04	*1.03	*1.03	9.4	10.8	5.0	
719	Sheepscot (below rapids)	44° 03.0'	69° 37.1'	+0 20	+0 20	*1.05	*1.05	9.6	11.0	5.2	
721	Back River	43° 57.5'	69° 41.1'	+0 34	+0 31	*1.00	*1.00	9.1	10.5	4.9	
723	Robinhood, Sasanoa River	43° 51.2'	69° 44.0'	+0 14	+0 14	*0.97	*0.97	8.8	10.1	4.7	
725	Mill Point, Sasanoa River	43° 53.2'	69° 45.8'	+0 35	+0 43	*0.97	*0.97	8.8	10.1	4.7	
<i>Kennebec River</i>											
727	Fort Popham, Hunniwell Point	43° 45.3'	69° 47.3'	+0 09	+0 04	*0.92	*0.92	8.4	9.7	4.5	
729	Phippsburg	43° 49.1'	69° 48.6'	+0 26	+0 28	*0.88	*0.88	8.0	9.2	4.3	
731	Bath	43° 55.1'	69° 48.8'	+1 01	+1 17	*0.70	*0.70	6.4	7.4	3.4	
733	Sturgeon Island, Merrymeeting Bay	43° 58.9'	69° 50.1'	+2 00	+2 04	*0.58	*0.58	5.3	6.1	2.8	
735	Androscoggin River entrance	43° 57.0'	69° 53.3'	+2 24	+3 26	*0.52	*0.52	4.7	5.4	2.5	
737	Brunswick, Androscoggin River	43° 55.3'	69° 57.8'	+2 35	+4 36	*0.42	*0.42	3.8	4.4	2.0	
739	Bowdoinham, Cathance River	44° 00.5'	69° 53.7'	+2 34	+2 42	*0.63	*0.63	5.7	6.6	3.1	
<i>Casco Bay</i>											
741	Cundy Harbor, New Meadows River	43° 47.3'	69° 53.6'	-0 01	-0 02	*0.98	*0.98	8.9	10.2	4.8	
743	Howard Point, New Meadows River	43° 53.4'	69° 53.0'	-0 05	+0 01	*0.99	*0.99	9.0	10.3	4.8	
745	South Harpswell, Potts Harbor	43° 44.3'	70° 01.4'	+0 02	+0 01	*0.98	*0.98	8.9	10.2	4.8	
747	Wilson Cove, Middle Bay	43° 49.5'	69° 58.6'	+0 02	+0 02	*1.00	*1.00	9.1	10.5	4.9	
749	South Freeport	43° 49.2'	70° 06.2'	+0 12	+0 10	*0.99	*0.99	9.0	10.3	4.8	
751	Prince Point	43° 45.7'	70° 10.4'	+0 00	+0 01	*1.00	*0.99	9.19	10.57	4.90	
753	Doyle Point	43° 45.1'	70° 08.4'	-0 02	-0 03	*1.00	*0.88	9.2	10.5	4.9	
755	Falmouth Foreside	43° 43.9'	70° 12.3'	+0 01	+0 01	*1.00	*0.97	9.16	10.53	4.91	
757	Great Chebeague Island	43° 43.3'	70° 08.5'	+0 02	+0 02	*1.00	*1.03	9.11	10.48	4.91	
759	Cliff Island, Luckse Sound	43° 41.7'	70° 06.6'	-0 02	-0 02	*1.00	*1.00	9.1	10.4	4.9	
761	Vaill Island	43° 40.6'	70° 09.3'	+0 05	+0 01	*0.98	*1.03	9.0	10.3	4.8	
763	Long Island	43° 41.4'	70° 10.2'	-0 01	-0 01	*1.00	*1.00	9.09	10.45	4.89	
765	Cow Island	43° 41.4'	70° 11.4'	-0 01	+0 00	*1.00	*1.00	9.11	10.48	4.89	
767	Presumpscot River Bridge	43° 41.4'	70° 14.8'	+0 01	+0 04	*1.01	*1.06	9.2	10.6	5.0	
769	Back Cove	43° 41'	70° 15'	+0 02	+0 06	*0.97	*0.97	9.1	10.5	4.9	
771	Great Diamond Island	43° 40.2'	70° 12.0'	+0 00	+0 00	*1.00	*1.03	9.08	10.44	4.89	
773	Peak Island	43° 39.3'	70° 12.0'	-0 04	-0 08	*0.99	*0.99	9.0	10.4	4.8	
775	Cushing Island	43° 38.7'	70° 11.9'	+0 01	+0 01	*0.99	*1.03	9.02	10.37	4.87	
777	PORTLAND	43° 39.6'	70° 14.8'	<i>Daily predictions</i>				9.12	10.53	4.91	
779	Fore River	43° 38.5'	70° 17.1'	+0 02	+0 02	*1.00	*1.03	9.16	10.53	4.93	
781	Portland Head Light	43° 37.4'	70° 12.4'	-0 02	-0 01	*0.97	*1.00	8.89	10.13	4.78	
MAINE, outer coast—cont.											
783	Pine Point, Scarborough River	43° 32.7'	70° 20.0'	+0 06	+0 16	*0.96	*0.97	8.77	9.72	4.71	
785	Old Orchard Beach	43° 31'	70° 22'	+0 00	-0 06	*0.97	*0.97	8.8	10.1	4.7	
787	Camp Ellis, Saco River Entrance	43° 27.7'	70° 22.9'	+0 03	+0 10	*0.97	*1.00	8.92	10.17	4.79	
789	Biddeford, Saco River	43° 29.5'	70° 26.8'	+0 12	+0 26	*0.99	*0.97	9.06	10.33	4.86	
791	Cape Porpoise	43° 22.0'	70° 25.9'	+0 12	+0 14	*0.95	*0.95	8.7	9.9	4.7	
793	Kennebunkport	43° 21.5'	70° 28.6'	+0 07	+0 05	*0.97	*1.00	8.84	10.08	4.76	
795	Wells, Webhannet River	43° 19.2'	70° 33.8'	+0 06	+0 02	*0.96	*1.00	8.77	10.09	4.72	
797	Cape Neddick	43° 10.0'	70° 35.6'	+0 02	+0 08	*0.95	*1.00	8.69	9.99	4.68	
799	York Harbor	43° 07.9'	70° 38.5'	+0 03	+0 13	*0.95	*0.95	8.6	9.9	4.6	
801	Fort Point, York Harbor	43° 07.8'	70° 38.3'	-0 04	+0 10	*0.95	*0.94	8.69	9.99	4.66	
803	Seapoint, Cutts Island	43° 05.1'	70° 39.7'	+0 01	-0 04	*0.96	*0.96	8.8	10.1	4.7	
MAINE and NEW HAMPSHIRE											
805	<i>Portsmouth Harbor</i> Jaffrey Point	43° 03.4'	70° 43.9'	-0 03	-0 05	*0.95	*0.95	8.7	10.0	4.7	
807	Gerrish Island	43° 04.0'	70° 41.7'	-0 02	-0 03	*0.95	*0.95	8.7	10.0	4.7	
809	Fort Point	43° 04.3'	70° 42.7'	+0 09	+0 05	*0.95	*1.00	8.63	9.92	4.65	
811	Kittery Point	43° 04.9'	70° 42.2'	-0 07	+0 01	*0.96	*0.96	8.7	10.0	4.7	
813	Seavey Island	43° 05'	70° 45'	+0 20	+0 18	*0.89	*0.89	8.1	9.4	4.4	
815	Portsmouth	43° 04.7'	70° 45.1'	+0 22	+0 17	*0.86	*0.86	7.8	9.0	4.2	
817	<i>Piscataqua River</i> Atlantic Heights	43° 05.4'	70° 46.0'	+0 37	+0 28	*0.82	*0.82	7.5	8.6	4.0	
819	Dover Point	43° 07'	70° 50'	+1 33	+1 27	*0.70	*0.70	6.4	7.4	3.4	
821	Dover, Cochecho River	43° 11.9'	70° 52.1'	+1 45	+1 39	*0.77	*0.76	7.04	8.03	3.78	
823	Salmon Falls River	43° 11.4'	70° 49.5'	+1 35	+1 52	*0.75	*0.75	6.8	7.8	3.6	
825	Squamscott River RR. Bridge	43° 03.2'	70° 54.8'	+2 19	+2 41	*0.75	*0.75	6.8	7.8	3.6	
827	Gosport Harbor, Isles of Shoals	42° 58.7'	70° 36.9'	+0 02	-0 02	*0.93	*0.93	8.5	9.8	4.5	
829	Hampton Harbor	42° 54'	70° 49'	+0 14	+0 32	*0.91	*0.91	8.3	9.5	4.5	

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				
	MASSACHUSETTS, outer coast Time meridian, 75° W	North	West	h m	h m	ft	ft	ft	ft	ft	
on Portland, p.36											
831	Merrimack River Plum Island, Merrimack River Entrance	42° 49.0'	70° 49.2'	+0 06	+0 29	*0.88	*0.88	8.00	9.12	4.30	
833	Newburyport	42° 48.7'	70° 51.9'	+0 31	+1 11	*0.86	*0.86	7.8	9.0	4.2	
835	Salisbury Point	42° 50.3'	70° 54.5'	+0 55	+1 18	*0.83	*0.56	7.64	8.71	4.01	
837	Merrimacport	42° 49.5'	70° 59.3'	+1 26	+2 08	*0.76	*0.50	7.05	8.04	3.70	
839	Riverside	42° 45.8'	71° 04.6'	+1 56	+3 30	*0.62	*0.35	5.72	6.52	2.80	
841	Plum Island Sound (south end)	42° 42.6'	70° 47.3'	+0 12	+0 37	*0.94	*0.94	8.6	9.9	4.6	
843	Essex	42° 37.9'	70° 46.6'	+0 22	+0 31	*1.00	*0.94	9.18	10.47	4.90	
845	Annisquam, Lobster Cove	42° 39.3'	70° 40.6'	+0 11	+0 03	*0.97	*0.97	8.81	10.04	4.74	
847	Rockport	42° 39.5'	70° 36.9'	+0 06	+0 06	*0.95	*0.97	8.70	9.92	4.71	
on Boston, p.40											
849	Gloucester Harbor	42° 36.6'	70° 39.6'	+0 00	-0 04	*0.93	*0.97	8.80	10.03	4.73	
851	Salem, Salem Harbor	42° 31.4'	70° 52.6'	-0 02	-0 05	*0.94	*0.97	8.93	10.18	4.79	
853	Lynn, Lynn Harbor	42° 27.5'	70° 56.6'	+0 01	-0 03	*0.97	*1.00	9.16	10.44	4.92	
Boston Harbor											
855	Boston Light	42° 19.7'	70° 53.5'	-0 01	-0 02	*0.95	*0.97	9.05	10.03	4.85	
857	Deer Island (south end)	42° 20.7'	70° 57.5'	+0 01	+0 00	*0.97	*0.97	9.3	10.8	4.9	
859	BOSTON	42° 21.3'	71° 03.2'	<i>Daily predictions</i>				9.49	11.07	5.09	
861	Charlestown, Charles River entrance	42° 22.5'	71° 03.0'	+0 00	+0 01	*1.00	*1.00	9.5	11.0	5.0	
863	Amelia Earhart Dam, Mystic River	42° 23.7'	71° 04.6'	+0 01	+0 02	*1.01	*0.97	9.56	10.89	5.11	
865	Chelsea St. Bridge, Chelsea River	42° 23.2'	71° 01.4'	+0 01	+0 06	*1.01	*1.01	9.6	11.1	5.1	
867	Neponset, Neponset River	42° 17.1'	71° 02.4'	-0 02	+0 03	*1.00	*1.00	9.5	11.0	5.0	
869	Moon Head	42° 18.5'	70° 59.3'	+0 01	+0 04	*0.99	*0.99	9.4	10.9	5.0	
Hingham Bay											
871	Nut Island, Quincy Bay	42° 16.8'	70° 57.3'	+0 01	+0 01	*0.99	*1.00	9.42	10.74	5.05	
873	Weymouth Fore River Bridge	42° 14.7'	70° 58.1'	+0 09	+0 06	*1.00	*1.00	9.5	11.0	5.0	
875	Crow Point, Hingham Harbor entrance	42° 15.7'	70° 53.6'	+0 02	+0 05	*0.99	*0.99	9.4	10.9	5.0	
877	Hingham	42° 14.8'	70° 53.1'	+0 09	+0 08	*1.00	*1.00	9.5	11.0	5.0	
879	Nantasket Beach, Weir River	42° 16.2'	70° 51.6'	+0 06	+0 07	*0.99	*0.99	9.4	10.9	5.0	
881	Hull	42° 18.2'	70° 55.2'	+0 05	+0 07	*0.97	*0.97	9.3	10.8	5.0	
Cohasset Harbor to Davis Bank											
883	Cohasset Harbor (White Head)	42° 14.9'	70° 47.0'	+0 04	-0 02	*0.92	*0.92	8.8	10.2	4.7	
885	Scituate, Scituate Harbor	42° 12.1'	70° 43.6'	+0 03	-0 01	*0.95	*1.03	8.94	10.19	4.83	
887	Damons Point, North River	42° 09.6'	70° 44.0'	+0 20	+0 36	*0.89	*0.89	8.5	9.9	4.5	
889	Brant Rock, Green Harbor River	42° 05.0'	70° 38.8'	+0 05	+0 03	*0.96	*1.03	9.08	10.35	4.89	
Cape Cod Bay											
891	Duxbury, Duxbury Harbor	42° 02.3'	70° 40.2'	+0 06	+0 33	*1.04	*1.03	9.89	11.27	5.30	
893	Plymouth	41° 57.6'	70° 39.7'	+0 04	+0 18	*1.03	*1.00	9.76	11.13	5.22	
895	Cape Cod Canal, east entrance	41° 46.3'	70° 30.4'	-0 01	-0 03	*0.91	*0.68	8.74	9.96	4.59	
897	Cape Cod Canal, Sagamore (Sta. 115)	41° 46.5'	70° 32.1'	-0 15	-0 06	*0.83	*0.88	7.90	9.01	4.25	
899	Cape Cod Canal, Bourne (Sta. 200)	41° 46.2'	70° 33.7'	-0 29	-0 21	*0.66	*0.79	6.18	7.05	3.37	
901	Cape Cod Canal, Bourne Bridge (Sta. 320)	41° 44.7'	70° 35.6'	-1 13	-0 24	*0.46	*0.79	4.29	4.89	2.42	
903	Barnstable Harbor, Beach Point	41° 43.3'	70° 17.1'	+0 11	+0 30	*1.00	*1.00	9.5	11.0	5.0	
905	Sesuit Harbor, East Dennis	41° 45.1'	70° 09.3'	+0 02	-0 01	*1.02	*0.82	9.73	11.09	5.14	
907	Wellfleet	41° 55.8'	70° 02.5'	+0 14	+0 30	*1.05	*1.05	10.0	11.6	5.4	
909	Provincetown	42° 03'	70° 11'	+0 16	+0 18	*0.95	*0.95	9.1	10.6	4.8	
Cape Cod											
911	Chatham, Stage Harbor	41° 40.0'	69° 58.0'	+0 46	+0 19	*0.43	*0.43	3.95	4.50	2.23	
913	Chatham Harbor, Aunt Lydia's Cove	41° 41.6'	69° 57.0'	+0 56	+1 10	*0.61	*0.71	5.77	6.58	3.12	
915	Pleasant Bay	41° 44.2'	69° 58.9'	+2 28	+3 27	*0.34	*0.34	3.2	3.7	1.7	
917	Georges Shoal, Texas Tower	41° 41.3'	67° 45.6'	-0 47	-0 43	*0.44	*0.44	4.2	4.8	2.2	
Nantucket Sound, north side											
919	Saquatucket Harbor	41° 40.1'	70° 03.4'	+0 46	+0 16	*0.41	*0.41	3.72	4.24	2.14	
921	Wychmere Harbor	41° 39.9'	70° 03.9'	+0 52	+0 25	*0.39	*0.39	3.7	4.3	1.9	
923	Dennisport	41° 39.5'	70° 06.9'	+1 03	+0 38	*0.36	*0.36	3.4	4.1	1.8	
925	South Yarmouth, Bass River	41° 39.9'	70° 11.0'	+1 48	+1 46	*0.29	*0.29	2.8	3.4	1.5	
927	Hyannis Port	41° 37.9'	70° 18.0'	+1 00	+0 26	*0.35	*0.76	3.20	3.80	1.85	
929	Cotuit Highlands	41° 36.5'	70° 26.2'	+1 17	+0 47	*0.26	*0.26	2.5	3.0	1.3	
931	Poponesset Island, Poponesset Bay	41° 35.2'	70° 27.8'	+2 03	+1 52	*0.24	*0.24	2.3	2.8	1.2	
933	Falmouth Heights	41° 32.7'	70° 35.9'	-0 16	-0 09	*0.14	*0.14	1.3	1.6	0.6	
Nantucket Island											
935	Great Point	41° 23.2'	70° 02.8'	+0 43	+0 28	*0.32	*0.32	3.1	3.7	1.6	
937	NANTUCKET	41° 17.1'	70° 05.8'	<i>Daily predictions, p.44</i>				3.0	3.36	1.7	
939	Eel Point	41° 17.5'	70° 12.5'	+0 39	+0 07	*0.24	*0.24	2.3	2.7	1.2	
941	Muskeget Island, north side	41° 20.2'	70° 18.3'	+0 25	+0 15	*0.21	*0.21	2.0	2.4	1.1	
Martha's Vineyard											
943	Vineyard Haven	41° 27.5'	70° 36.0'	+3 39	+3 27	*0.48	*1.14	1.58	1.69	0.95	
945	Oak Bluffs	41° 27.5'	70° 33.3'	+3 59	+3 47	*0.50	*0.71	1.7	2.0	0.9	
947	Edgartown	41° 23.3'	70° 30.7'	+4 26	+4 16	*0.65	*1.64	2.13	2.68	1.29	
949	Wasque Point, Chappaquiddick Island	41° 21.8'	70° 27.0'	+2 02	+3 20	*0.31	*0.31	1.1	1.4	0.6	

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				
	MASSACHUSETTS Martha's Vineyard—cont. Time meridian, 75° W	North	West	h	m	ft	ft	ft	ft	ft	
on Newport, p.52											
951	Squibnocket Point	41° 18.7'	70° 46.1'	-0 45	-0 02	*0.82	*0.82	2.9	3.7	1.6	
953	Nomans Land	41° 15.7'	70° 49.0'	-0 19	+0 18	*0.85	*0.85	3.0	3.6	1.6	
955	Gay Head	41° 21.2'	70° 49.8'	-0 06	+0 45	*0.82	*0.82	2.9	3.5	1.5	
957	Cedar Tree Neck	41° 26.1'	70° 41.8'	+0 10	+1 32	*0.62	*0.62	2.2	2.8	1.2	
Vineyard Sound											
<i>Woods Hole</i>											
959	Little Harbor	41° 31.2'	70° 39.9'	+0 32	+2 21	*0.40	*0.40	1.4	1.8	0.8	
961	OCEANOGRAPHIC INSTITUTION	41° 31.4'	70° 40.3'	<i>Daily predictions, p.48</i>				1.8	2.33	1.0	
963	Uncatena Island (south side)	41° 30.9'	70° 42.2'	+0 12	+0 22	*1.02	*1.02	3.6	4.5	1.9	
965	Quicks Hole, North side	41° 26.9'	70° 51.4'	-0 08	-0 08	*0.99	*0.99	3.5	4.4	1.8	
967	Cuttlyhunk	41° 25.5'	70° 55.0'	+1 20	+1 15	*0.97	*0.93	3.37	4.25	1.81	
Buzzards Bay											
969	Penikese Island	41° 27.0'	70° 55.3'	+0 02	+0 12	*0.98	*0.96	3.42	4.30	1.84	
971	Chappaquoit Point, West Falmouth Harbor	41° 36.3'	70° 39.5'	+0 06	+0 08	*1.11	*1.14	3.82	4.70	2.07	
973	Monument Beach	41° 42.9'	70° 37.0'	+0 16	+0 30	*1.15	*1.15	3.97	5.00	2.17	
975	Gray Gables	41° 44.1'	70° 37.4'	+0 37	+1 16	*1.05	*1.21	3.62	4.45	1.98	
977	Cape Cod Canal, RR. bridge <6>	41° 44.5'	70° 37.0'	+1 17	+2 50	*1.01	*1.01	3.43	4.22	1.93	
979	Onset Beach, Onset Bay	41° 44.5'	70° 39.5'	+0 41	+1 25	*1.03	*1.03	3.50	4.41	1.97	
981	Great Hill	41° 42.7'	70° 42.9'	+0 12	+0 12	*1.14	*1.21	3.96	4.99	2.15	
983	Marion, Sippican Harbor	41° 43.2'	70° 45.6'	+0 10	+0 12	*1.13	*1.29	4.0	4.9	2.2	
985	Piney Point	41° 41.7'	70° 43.2'	+0 10	+0 10	*1.13	*1.21	3.91	4.81	2.13	
987	Mattapoisett, Mattapoisett Harbor	41° 39'	70° 49'	+0 11	+0 20	*1.09	*1.00	3.9	4.8	2.1	
989	Clarks Point	41° 35.6'	70° 54.0'	+0 14	+0 23	*1.03	*1.07	3.56	4.49	1.93	
991	New Bedford	41° 38.4'	70° 55.1'	+0 07	+0 07	*1.05	*1.05	3.7	4.6	1.9	
993	Round Hill Point	41° 32.3'	70° 55.7'	+0 14	+0 22	*0.99	*1.00	3.43	4.32	1.85	
Westport River											
995	Westport Harbor	41° 31'	71° 05'	+0 09	+0 33	*0.85	*0.85	3.0	3.7	1.6	
997	Hix Bridge, East Branch	41° 34.2'	71° 04.4'	+1 40	+2 30	*0.77	*0.77	2.7	3.4	1.4	
RHODE ISLAND, and MASSACHUSETTS Narragansett Bay											
<i>Sakonet River</i>											
999	Sakonet	41° 27.9'	71° 11.6'	-0 09	+0 13	*0.91	*0.86	3.17	3.99	1.70	
1001	Sachuest, Flint Point	41° 29.2'	71° 14.3'	-0 05	+0 15	*0.90	*0.93	3.13	3.94	1.69	
1003	The Glen	41° 33.5'	71° 14.2'	-0 13	-0 03	*0.98	*1.00	3.40	4.28	1.84	
1005	Nannaquaket Neck	41° 37.1'	71° 12.2'	-0 12	-0 13	*1.01	*1.01	3.50	4.41	1.91	
1007	Anthony Point	41° 38.3'	71° 12.7'	+0 00	-0 01	*1.09	*1.09	3.75	4.73	2.05	
1009	North End, Bay Oil pier	41° 39.1'	71° 12.6'	+0 20	+0 01	*1.20	*1.07	4.17	5.25	2.24	
1011	Castle Hill	41° 27.8'	71° 21.7'	-0 05	+0 13	*0.94	*1.00	3.25	4.10	1.77	
1013	NEWPORT	41° 30.3'	71° 19.6'	<i>Daily predictions</i>				3.47	4.38	1.87	
<i>Conanicut Island</i>											
1015	Beavertail Point	41° 27.1'	71° 24.1'	-0 05	+0 04	*0.98	*0.98	3.34	4.21	1.86	
1017	West Jamestown, Dutch Island Harbor	41° 29.8'	71° 23.2'	+0 05	+0 04	*1.00	*1.00	3.46	4.36	1.87	
1019	Conanicut Point	41° 34.4'	71° 22.3'	+0 07	-0 06	*1.07	*1.07	3.8	4.7	2.0	
1021	Prudence Island, (south end)	41° 34.8'	71° 19.3'	+0 08	-0 03	*1.08	*1.14	3.74	4.71	2.03	
1023	Bristol Ferry	41° 38.2'	71° 15.3'	+0 15	+0 00	*1.17	*1.14	4.08	5.14	2.20	
1025	Bristol, Bristol Harbor	41° 40.1'	71° 16.7'	+0 13	+0 00	*1.16	*1.14	4.1	5.1	2.2	
1027	Bristol Highlands	41° 41.8'	71° 17.6'	+0 08	-0 07	*1.18	*1.21	4.2	5.2	2.2	
1029	Fall River, Massachusetts	41° 42.3'	71° 09.8'	+0 18	+0 03	*1.25	*1.21	4.36	5.41	2.35	
1031	Steep Brook, Taunton River	41° 44.4'	71° 07.9'	+0 26	+0 05	*1.30	*1.29	4.51	5.68	2.44	
1033	Conimicut Light	41° 43.0'	71° 20.6'	+0 11	-0 02	*1.20	*1.19	4.17	5.25	2.25	
1035	Bay Spring, Bullock Cove	41° 45.1'	71° 21.1'	+0 12	+0 01	*1.22	*1.21	4.25	5.23	2.30	
1037	Pawtuxet, Pawtuxet Cove	41° 45.7'	71° 23.3'	+0 06	-0 11	*1.25	*1.29	4.35	5.35	2.35	
1039	Providence, State Pier no.1	41° 48.4'	71° 24.1'	+0 13	+0 00	*1.27	*1.29	4.41	5.63	2.40	
1041	Rumford, Seekonk River	41° 50.4'	71° 22.4'	+0 12	+0 06	*1.34	*1.29	4.66	5.73	2.51	
1043	Pawtucket, Seekonk River	41° 52.1'	71° 22.8'	+0 18	+0 09	*1.31	*1.29	4.6	5.8	2.5	
1045	Quonset Point	41° 35.2'	71° 24.7'	+0 06	-0 01	*1.07	*1.10	3.70	4.66	2.01	
1047	East Greenwich	41° 39.9'	71° 26.7'	+0 13	+0 03	*1.14	*1.14	4.0	5.0	2.1	
1049	Wickford	41° 34.3'	71° 26.7'	+0 03	-0 06	*1.07	*1.07	3.71	4.56	2.01	
1051	Watson Pier, Boston Neck	41° 27.6'	71° 25.7'	-0 03	+0 16	*0.96	*0.93	3.32	4.18	1.79	
1053	Narragansett Pier	41° 25.3'	71° 27.3'	-0 11	+0 11	*0.91	*0.93	3.2	4.0	1.7	
RHODE ISLAND, Outer Coast											
1055	Point Judith, Harbor of Refuge	41° 21.8'	71° 29.4'	+0 00	+0 33	*0.87	*0.93	3.00	3.13	1.63	
1057	Block Island (Old Harbor)	41° 10.4'	71° 33.4'	-0 13	+0 15	*0.82	*0.86	2.85	3.51	1.54	
1059	Southwest Point, Block Island	41° 09.8'	71° 36.6'	+0 05	+0 42	*0.75	*0.79	2.60	3.20	1.41	
1061	Weekapaug Point, Block Island Sound	41° 19.7'	71° 45.7'	+0 41	+1 06	*0.74	*0.93	2.53	3.11	1.39	
1063	Watch Hill Point	41° 18.3'	71° 51.6'	+0 41	+1 16	*0.74	*0.71	2.6	3.2	1.4	
on New London, p.60											
1065	Westerly, Pawcatuck River	41° 22.9'	71° 49.9'	-0 21	+0 03	*1.02	*1.00	2.6	3.1	1.5	

Endnotes can be found at the end of table 2.

CAUTION**Cape Cod Canal, Railroad Bridge**

Predictions of the times of low water must be used with caution because of the peculiarities in the behavior of the tide. Since the tide may be practically at a stand for as much as two hours before or after the predicted times of low water, the levels at other than high and low water times cannot be obtained in the usual way as in Table 3 (Height of Tide at Any Time). The peculiar behavior of the tide near low water, which is prevalent at this place, is illustrated by the first three curves; however there are brief periods each month when the behavior is as depicted by the fourth curve.

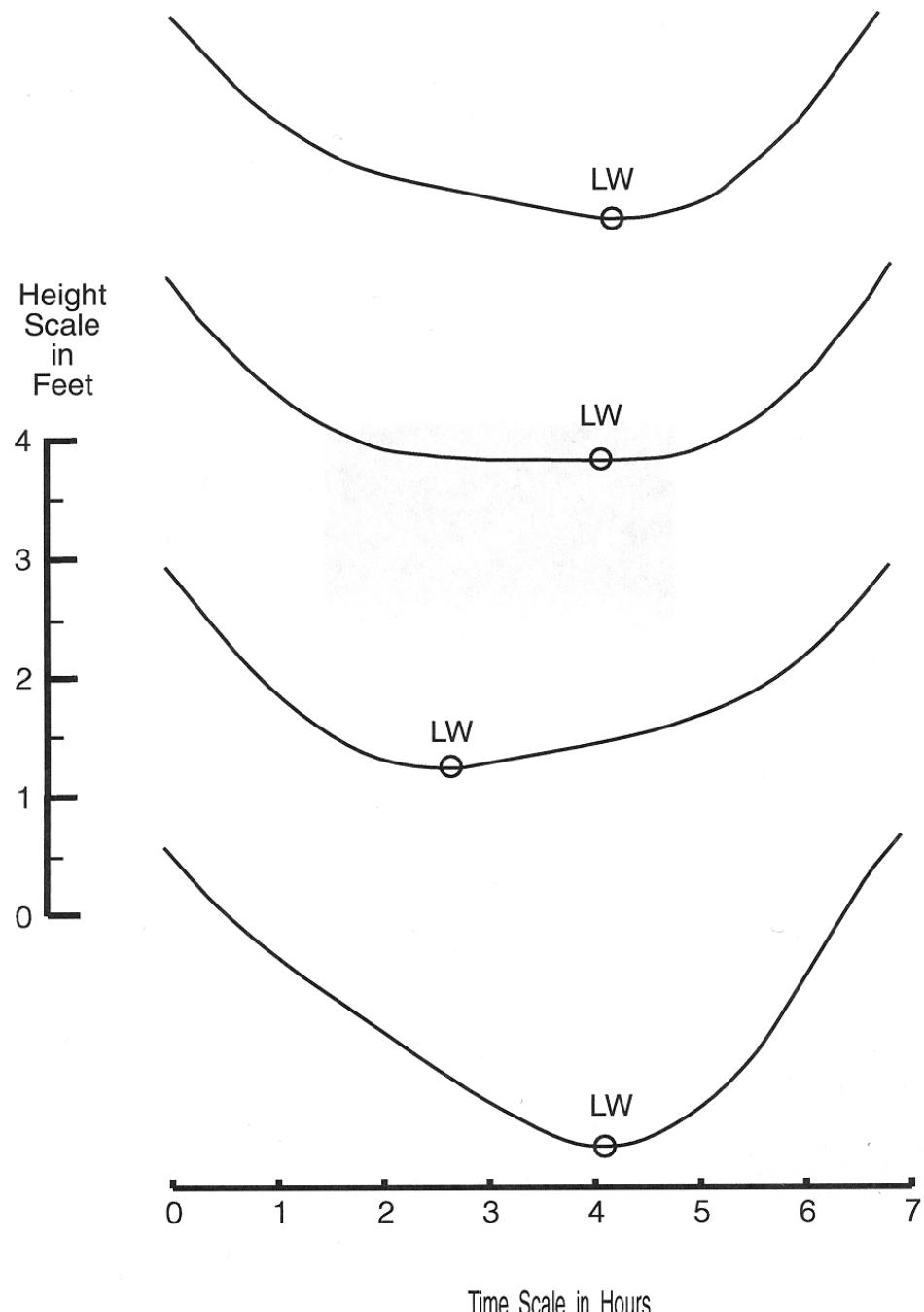


TABLE 2 – TIDAL DIFFERENCES AND OTHER CONSTANTS

No.	PLACE	POSITION		DIFFERENCES				RANGES		Mean Tide Level	
		Latitude	Longitude	Time		Height		Mean	Spring		
				High Water	Low Water	High Water	Low Water				
	CONNECTICUT, Long Island Sound Time meridian, 75° W	North	West	h m	h m	ft	ft	ft	ft	ft	
		on New London, p.60									
1067	Silver Eel Pond, Fishers Island, N.Y.	41° 15.4'	72° 01.8'	-0 04	-0 04	*0.91	*1.00	2.33	2.83	1.37	
1069	NEW LONDON, State Pier <i>Thames River</i>	41° 21.6'	72° 05.5'			Daily predictions		2.56	3.09	1.47	
1071	Yale boathouse	41° 25.8'	72° 05.6'	+0 14	+0 10	*1.07	*1.11	2.73	3.22	1.57	
1073	Norwich	41° 31.4'	72° 04.7'	+0 24	+0 19	*1.18	*1.21	3.03	3.57	1.75	
1075	Niantic, Niantic River <i>Connecticut River</i>	41° 19.5'	72° 11.2'	+0 52	+0 57	*0.99	*0.84	2.58	3.04	1.44	
1077	Saybrook Jetty	41° 15.8'	72° 20.6'	+1 11	+0 45	*1.36	*1.35	3.5	4.2	2.0	
1079	Saybrook Point	41° 17.0'	72° 21.0'	+1 11	+0 53	*1.24	*1.25	3.2	3.8	1.8	
1081	Lyme, highway bridge	41° 19.3'	72° 21.0'	+1 36	+1 09	*1.26	*0.95	3.31	3.91	1.83	
1083	Essex <7>	41° 20.9'	72° 23.1'	+1 39	+1 38	*1.16	*1.15	3.0	3.6	1.7	
1085	Hadlyme <7>	41° 25.2'	72° 25.7'	+2 19	+2 23	*1.05	*1.05	2.7	3.2	1.5	
1087	Tylerville <7>	41° 27.1'	72° 27.9'	+2 38	+2 51	*1.02	*1.02	2.71	3.20	1.46	
1089	Haddam <7>	41° 28.9'	72° 30.4'	+2 48	+3 08	*0.97	*0.95	2.5	3.0	1.4	
1091	Higginum Creek <7>	41° 30.2'	72° 33.2'	+3 08	+3 40	*0.91	*0.91	2.40	2.83	1.30	
1093	Maromia <7>	41° 32.5'	72° 33.1'	+3 25	+4 01	*0.91	*0.91	2.41	2.84	1.31	
1095	Middletown <7>	41° 33.6'	72° 38.7'	+3 54	+4 39	*0.83	*0.83	2.17	2.56	1.19	
1097	Rocky Hill <7>	41° 39.8'	72° 37.8'	+4 30	+5 36	*0.72	*0.63	1.88	2.22	1.07	
1099	South Hartford <7>	41° 45.3'	72° 39.5'	+5 24	+6 54	*0.74	*0.58	1.94	2.29	1.07	
1101	Hartford <7>	41° 46.2'	72° 40.1'	+5 30	+6 52	*0.74	*0.75	1.9	2.3	1.1	
		on Bridgeport, p.64									
1103	Westbrook, Duck Island Roads	41° 16.4'	72° 28.5'	-0 24	-0 32	*0.61	*0.60	4.1	4.7	2.2	
1105	Clinton, Clinton Harbor	41° 16.1'	72° 31.9'	-0 11	-0 16	*0.67	*1.00	4.55	5.27	2.51	
1107	Madison	41° 16.2'	72° 36.2'	-0 21	-0 30	*0.73	*0.72	4.9	5.6	2.6	
1109	Guilford Harbor	41° 16.3'	72° 40.0'	-0 11	-0 21	*0.77	*0.96	5.19	5.92	2.83	
1111	Sachem Head	41° 14.7'	72° 42.5'	-0 11	-0 15	*0.80	*0.80	5.4	6.2	2.9	
1113	Branford, Branford River	41° 15.7'	72° 49.1'	-0 05	-0 13	*0.87	*0.96	5.85	6.67	3.15	
1115	Lighthouse Point, New Haven Harbor	41° 15.1'	72° 54.3'	-0 04	-0 07	*0.91	*0.96	6.12	6.98	3.29	
1117	New Haven Harbor, New Haven Reach	41° 17.0'	72° 54.5'	-0 01	-0 06	*0.92	*1.00	6.15	7.11	3.32	
1119	Gulf Beach	41° 12.3'	73° 02.5'	-0 05	-0 08	*0.94	*1.04	6.29	7.17	3.40	
1121	Milford Harbor <i>Housatonic River</i>	41° 13.1'	73° 03.3'	-0 02	-0 03	*0.94	*1.04	6.32	7.20	3.41	
1123	Sniffens Point	41° 11.2'	73° 06.8'	+0 10	+0 09	*0.96	*1.00	6.43	7.33	3.46	
1125	Stratford, I-95 bridge	41° 12.2'	73° 06.7'	+0 23	+0 23	*0.98	*1.00	6.58	7.50	3.53	
1127	Long Hill	41° 16.5'	73° 05.3'	+0 43	+1 13	*1.02	*1.04	6.85	7.81	3.67	
1129	Shelton	41° 18.1'	73° 04.3'	+0 46	+1 19	*1.04	*0.96	7.01	7.99	3.74	
1131	BRIDGEPORT	41° 10.4'	73° 10.9'			Daily predictions		6.74	7.80	3.61	
1133	Black Rock Harbor	41° 09.4'	73° 12.8'	+0 00	+0 01	*1.00	*1.04	6.75	7.75	3.63	
1135	Southport, Southport Harbor	41° 08.0'	73° 17.0'	-0 02	+0 02	*1.01	*1.00	6.84	8.18	3.66	
1137	South Norwalk	41° 05.9'	73° 24.9'	+0 09	+0 15	*1.05	*1.04	7.1	8.2	3.8	
1139	Rowayton, Fivemile River	41° 03.9'	73° 26.7'	+0 00	+0 05	*1.05	*1.08	7.09	8.08	3.80	
1141	Long Neck Point	41° 02.3'	73° 28.8'	-0 09	+0 01	*1.06	*0.96	7.17	8.17	3.82	
1143	Stamford	41° 02.3'	73° 32.8'	+0 03	+0 08	*1.07	*1.08	7.2	8.3	3.9	
1145	Cos Cob Harbor	41° 01.0'	73° 35.8'	+0 05	+0 11	*1.07	*1.08	7.2	8.3	3.9	
		on Kings Point, p.68									
1147	Rye Beach	40° 57.7'	73° 40.3'	-0 20	-0 27	*1.00	*0.86	7.29	7.89	3.88	
1149	New Rochelle	40° 53.6'	73° 46.9'	-0 16	-0 18	*1.01	*0.93	7.29	8.46	3.90	
1151	Throgs Neck, Fort Schuyler	40° 48.3'	73° 47.7'	+0 01	+0 04	*1.00	*1.00	7.13	8.62	3.84	
		on Kings Point, p.68									
1153	Whitestone	40° 47.9'	73° 48.8'	+0 07	+0 09	*1.00	*1.04	7.1	8.3	3.8	
1155	College Point, Flushing Bay	40° 47.0'	73° 51.4'	+0 17	+0 16	*0.95	*1.04	6.8	7.9	3.7	
1157	Worlds Fair Marina, Flushing Bay	40° 45.7'	73° 51.0'	+0 10	+0 16	*0.94	*1.00	6.75	8.10	3.65	
1159	Hunts Point	40° 48.0'	73° 52.4'	+0 12	+0 10	*0.97	*1.07	6.92	7.57	3.75	
1161	North Brother Island	40° 48.1'	73° 54.0'	+0 18	+0 18	*0.93	*1.11	6.6	7.8	3.6	
1163	Port Morris (Stony Point)	40° 48.1'	73° 54.4'	+0 07	+0 10	*0.87	*0.96	6.24	6.85	3.39	
		on New York, p.72									
1165	Hell Gate, Wards Island	40° 47.2'	73° 55.3'	+2 58	+3 45	*1.33	*1.59	6.0	7.3	3.4	
1167	Horns Hook, East 90th Street	40° 46.6'	73° 56.5'	+1 54	+1 34	*1.03	*0.90	4.68	5.18	2.53	
1169	Queensboro Bridge	40° 45.5'	73° 57.5'	+1 23	+0 57	*0.96	*1.00	4.33	5.24	2.38	
1171	East 41st Street, New York City	40° 44.8'	73° 58.1'	+1 03	+0 46	*0.95	*1.09	4.31	4.89	2.40	
1173	Hunters Point, Newtown Creek	40° 44.4'	73° 57.7'	+1 22	+0 56	*0.89	*0.90	4.1	4.9	2.2	
1175	Williamsburg Bridge	40° 42.7'	73° 58.1'	+0 45	+0 28	*0.93	*0.95	4.22	5.11	2.31	
1177	Wallabout Bay, Brooklyn Navy Yard	40° 42.4'	73° 58.5'	+0 32	+0 22	*0.94	*1.05	4.3	5.2	2.4	
1179	Brooklyn Bridge	40° 42.2'	73° 59.3'	+0 24	-0 04	*0.99	*1.00	4.53	5.13	2.48	
1181	Harlem River, Randalls Island	40° 48.0'	73° 55.6'	+1 55	+1 30	*1.00	*0.86	4.56	5.31	2.46	
		on Kings Point, p.68									
1183	Willets Point	40° 47.6'	73° 46.9'	-0 01	+0 00	*1.00	*1.04	7.15	8.21	3.88	
1185	KINGS POINT	40° 48.6'	73° 45.9'			Daily predictions		7.16	8.46	3.86	
1187	Port Washington, Manhasset Bay	40° 49.9'	73° 42.2'	-0 12	-0 12	*1.02	*0.96	7.29	8.46	3.92	
1189	Glen Cove, Hempstead Harbor	40° 51.8'	73° 39.3'	-0 22	-0 26	*1.01	*0.82	7.27	7.87	3.87	
1191	Harry Tappan Marina, Hempstead Harbor	40° 50.1'	73° 39.1'	-0 20	-0 23	*1.01	*0.82	7.29	8.87	3.88	

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				
		North	West	h	m	ft	ft	ft	ft	ft	
	NEW YORK Long Island, Long Island Sound—cont. Time meridian, 75° W			on Bridgeport, p.64							
1193	Oyster Bay Harbor	40° 53'	73° 32'	+0 07	+0 13	*1.08	*1.08	7.3	8.4	3.9	
1195	Bayville Bridge	40° 54.2'	73° 33.0'	-0 06	+0 04	*1.09	*1.04	7.37	7.99	3.94	
1197	Cold Spring Harbor	40° 52.4'	73° 28.2'	-0 07	+0 02	*1.07	*0.92	7.27	7.86	3.86	
1199	Eatons Neck Point	40° 57.2'	73° 24.0'	+0 02	+0 08	*1.05	*1.04	7.1	8.2	3.9	
1201	Lloyd Harbor, Huntington Bay	40° 54.6'	73° 25.9'	-0 01	+0 07	*1.04	*0.88	7.02	7.60	3.73	
1203	Northport, Northport Bay	40° 54.0'	73° 21.2'	-0 05	+0 04	*1.07	*0.92	7.25	7.84	3.86	
1205	Port Jefferson Harbor entrance	40° 58'	73° 05'	+0 02	+0 01	*0.98	*0.98	6.6	7.6	3.5	
1207	Port Jefferson	40° 57.0'	73° 04.6'	+0 04	+0 05	*0.98	*0.92	6.61	7.70	3.53	
1209	Cedar Beach	40° 57.9'	73° 02.6'	+0 07	+0 05	*0.96	*1.00	6.43	7.01	3.46	
1211	Mount Sinai Harbor	40° 57.8'	73° 02.4'	+0 04	+0 18	*0.89	*0.88	6.0	6.9	3.2	
1213	Northville	40° 58.9'	72° 38.7'	+0 05	-0 03	*0.80	*0.92	5.35	6.10	2.89	
1215	Mattituck Inlet	41° 00.9'	72° 33.7'	+0 11	+0 02	*0.76	*0.85	5.08	5.79	2.75	
1217	Hashamomuck Beach	41° 05.7'	72° 23.9'	+0 03	-0 13	*0.64	*0.64	4.2	4.8	2.3	
		on New London, p.60									
1219	Plum Gut Harbor, Plum Island	41° 10.3'	72° 12.3'	+0 33	+0 24	*1.01	*1.04	2.60	3.07	1.50	
1221	Little Gull Island	41° 12.4'	72° 06.1'	+0 13	-0 22	*0.85	*0.85	2.2	2.6	1.3	
	<i>Shelter Island Sound</i>										
1223	Orient	41° 08'	72° 18'	+0 37	+0 36	*0.97	*0.97	2.5	3.0	1.4	
1225	Greenport	41° 06.1'	72° 21.7'	+1 12	+0 48	*0.95	*0.95	2.44	2.81	1.40	
1227	Southold	41° 04'	72° 25'	+1 44	+1 33	*0.89	*0.89	2.3	2.7	1.3	
1229	Noyack Bay	41° 00'	72° 20'	+2 06	+1 44	*0.89	*0.89	2.3	2.7	1.3	
1231	Sag Harbor	41° 00.2'	72° 17.8'	+1 00	+0 48	*0.93	*0.89	2.41	2.78	1.37	
	<i>Peconic Bays</i>										
1233	New Suffolk	41° 00'	72° 28'	+2 27	+2 11	*1.01	*1.00	2.6	3.1	1.5	
1235	South Jamesport	40° 56.1'	72° 34.9'	+2 34	+2 43	*1.07	*0.95	2.79	3.29	1.57	
1237	Threemile Harbor entrance, Gardiners Bay	41° 02.1'	72° 11.4'	+0 39	+0 19	*0.96	*1.00	2.48	2.98	1.44	
1239	Lake Montauk	41° 04.4'	71° 56.1'	-0 26	-0 22	*0.77	*0.89	2.01	2.37	1.18	
1241	Montauk Harbor entrance	41° 04.5'	71° 56.2'	-0 24	-0 16	*0.74	*0.75	1.9	2.3	1.0	
1243	MONTAUK, FORT POND BAY	41° 02.9'	71° 57.6'					2.07	2.66	1.21	
	Long Island, south shore			on Sandy Hook, p.84							
1245	Shinnecock Inlet (ocean)	40° 50.2'	72° 28.8'	-0 16	-1 11	*0.66	*0.68	3.08	3.68	1.67	
	<i>Shinnecock Bay</i>										
1247	Shinnecock Bay entrance	40° 49.2'	72° 33.7'	+1 12	+1 51	*0.51	*0.37	2.41	2.89	1.27	
1249	Ponquogue Point	40° 51.0'	72° 30.2'	-0 06	+0 03	*0.60	*0.65	2.81	3.20	1.53	
1251	Shinnecock Yacht Club, Penniman Creek	40° 49.1'	72° 33.2'	+1 01	+1 45	*0.55	*0.55	2.56	2.93	1.39	
1253	Moriches Inlet	40° 45.8'	72° 45.3'	-0 10	-1 08	*0.61	*0.79	2.83	3.40	1.56	
1255	Moriches Inlet Coast Guard Station	40° 47.2'	72° 45.0'	+0 42	+0 48	*0.46	*0.63	2.15	2.51	1.19	
1257	Smith Point Bridge, Narrow Bay	40° 44.3'	72° 52.1'	+1 58	+2 34	*0.27	*0.60	1.19	1.47	0.71	
1259	Democrat Point, Fire Island Inlet	40° 38'	73° 18'	-0 39	-0 27	*0.56	*0.55	2.6	3.1	1.4	
	<i>Great South Bay</i>										
1261	Fire Island Coast Guard Station	40° 37.6'	73° 15.6'	-0 04	-0 01	*0.42	*0.74	1.89	2.19	1.08	
1263	Fire Island Light	40° 38.1'	73° 13.2'	+0 46	+1 22	*0.15	*0.15	0.7	0.8	0.3	
1265	West Fire Island	40° 39.4'	73° 12.3'	+2 10	+2 18	*0.13	*0.13	0.6	0.7	0.3	
1267	Seaview Ferry Dock	40° 38.9'	73° 09.0'	+0 20	+2 23	*0.27	*0.68	1.18	1.31	0.72	
1269	Patchogue	40° 45.0'	73° 00.0'	+3 14	+3 33	*0.25	*0.53	1.11	1.33	0.66	
1271	Great River, Connetquot River	40° 43.4'	73° 09.1'	+3 19	+3 32	*0.15	*0.15	0.7	0.8	0.3	
1273	Bay Shore, Watchogue Creek Entrance	40° 43.0'	73° 14.4'	+2 15	+2 27	*0.22	*0.37	0.99	1.19	0.57	
1275	Oak Beach	40° 38.5'	73° 17.2'	+2 23	+2 58	*0.15	*0.15	0.7	0.8	0.3	
1277	Babylon	40° 41.1'	73° 18.9'	+2 11	+2 41	*0.13	*0.15	0.6	0.7	0.3	
1279	Gilgo Heading	40° 37.2'	73° 23.7'	+2 22	+2 58	*0.24	*0.25	1.1	1.3	0.5	
1281	Amityville	40° 39.3'	73° 25.1'	+2 20	+3 05	*0.26	*0.25	1.2	1.4	0.7	
1283	Biltmore Shores, South Oyster Bay	40° 40'	73° 28'	+2 04	+2 32	*0.30	*0.30	1.4	1.7	0.8	
1285	Point Lookout, Jones Inlet	40° 35.2'	73° 34.7'	-0 20	-0 25	*0.77	*0.75	3.6	4.3	2.0	
1287	Point Lookout (marina), Jones Inlet	40° 35.6'	73° 35.0'	-0 02	-0 15	*0.89	*0.75	4.14	4.86	2.26	
	<i>Hempstead Bay</i>										
1289	Deep Creek Meadow	40° 36.2'	73° 31.5'	+1 01	+1 11	*0.51	*0.50	2.4	2.9	1.3	
1291	Green Island Drawbridge	40° 37.4'	73° 30.1'	+0 33	+0 31	*0.67	*0.89	3.11	3.56	1.72	
1293	Cuba Island	40° 37.2'	73° 31.4'	+1 07	+1 22	*0.49	*0.50	2.3	2.8	1.2	
1295	Bellmore, Bellmore Creek	40° 39.8'	73° 31.2'	+1 28	+1 58	*0.43	*0.45	2.0	2.4	1.1	
1297	Neds Creek	40° 37.4'	73° 33.3'	+0 49	+0 54	*0.58	*0.60	2.7	3.3	1.4	
1299	Freeport, Baldwin Bay	40° 38.0'	73° 35.2'	+0 37	+0 55	*0.64	*0.65	3.0	3.6	1.6	
1301	Baldwin, Parsonage Cove	40° 38.0'	73° 37.0'	+0 10	+0 20	*0.93	*0.95	4.35	5.08	2.36	
1303	Long Beach (Inside)	40° 36'	73° 39'	+0 18	+0 02	*0.84	*0.85	3.9	4.7	2.1	
1305	Long Beach, Bridgewater Yacht Club	40° 35.7'	73° 39.3'	+0 06	+0 08	*0.94	*0.89	4.43	5.14	2.39	
1307	Bay Park, Hewlett Bay	40° 37.7'	73° 40.1'	+0 20	+0 25	*0.99	*1.00	4.63	5.33	2.51	
1309	Woodmere, Broseweire Bay	40° 37'	73° 42'	+0 34	+0 50	*0.84	*0.85	3.9	4.7	2.1	
1311	East Rockaway Inlet, Atlantic Beach	40° 35.6'	73° 44.4'	-0 05	-0 21	*0.93	*1.00	4.37	5.16	2.38	
	<i>Jamaica Bay</i>										
1313	Plumb Beach Channel	40° 35.1'	73° 55.5'	+0 02	-0 03	*1.05	*1.05	4.9	5.9	2.6	
1315	Barren Island, Rockaway Inlet	40° 34.7'	73° 53.3'	-0 01	-0 04	*1.07	*1.05	5.0	6.0	2.7	
1317	Beach Channel (bridge)	40° 35'	73° 49'	+0 37	+0 24	*1.09	*1.10	5.1	6.2	2.7	
1319	Motts Basin	40° 37.0'	73° 45.5'	+0 39	+0 48	*1.16	*1.15	5.4	6.5	2.9	
1321	Norton Point, Hook Creek	40° 38.1'	73° 44.8'	+0 38	+0 45	*1.16	*1.16	5.4	6.5	2.9	
1323	J.F.K. International Airport	40° 37.4'	73° 47.0'	+0 25	+0 45	*1.14	*1.15	5.3	6.4	2.8	
1325	North Channel Bridge, Grassy Bay	40° 39'	73° 50'	+0 43	+0 47	*1.12	*1.10	5.2	6.3	2.8	
1327	Canarsie	40° 37.8'	73° 53.1'	+0 27	+0 08	*1.12	*1.10	5.2	6.3	2.8	
1329	Mill Basin	40° 37'	73° 55'	+0 28	+0 04	*1.12	*1.10	5.2	6.3	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	Spring		
				High Water	Low Water	High Water	Low Water				
	NEW YORK and NEW JERSEY Time meridian, 75° W	North	West	h m	h m	ft	ft	ft	ft	ft	
	New York Harbor			on Sandy Hook, p.84							
1331	Coney Island	40° 34'	73° 59'	-0 04	-0 17	*1.01	*1.00	4.7	5.7	2.5	
1333	Norton Point, Gravesend Bay	40° 35.4'	73° 59.9'	-0 01	+0 03	*1.02	*1.15	4.7	5.7	2.6	
1335	Fort Wadsworth, The Narrows	40° 36.4'	74° 03.3'	+0 06	+0 06	*0.98	*1.05	4.8	5.4	2.5	
1337	Fort Hamilton, The Narrows	40° 36.5'	74° 02.1'	+0 02	+0 07	*1.01	*1.00	4.7	5.7	2.5	
1339	U.S. Coast Guard Station, Staten Island	40° 36.7'	74° 03.6'	+0 12	+0 11	*0.96	*1.05	4.47	5.35	2.43	
				on New York, p.72							
1341	St. George, Staten Island	40° 38.6'	74° 04.4'	-0 17	-0 15	*0.99	*0.99	4.5	5.4	2.4	
1343	Gowanus Bay	40° 39.9'	74° 00.8'	-0 18	-0 12	*1.03	*0.95	4.7	5.7	2.6	
1345	NEW YORK (The Battery)	40° 42.0'	74° 00.9'			Daily Predictions		4.53	5.50	2.47	
	Hudson River <8>										
1347	Weehawken, Union City, N.J.	40° 45.9'	74° 01.1'	+0 13	+0 15	*0.96	*0.96	4.37	5.29	2.41	
1349	Edgewater, N.J.	40° 48.8'	73° 58.7'	+0 31	+0 28	*0.93	*0.93	4.24	5.13	2.33	
1351	Dyckman Street, Ferry Slip, N.Y.	40° 52.0'	73° 56.0'	+0 51	+0 44	*0.88	*0.81	3.98	4.66	2.16	
1353	Spuytjen Duyvil Creek ent., N.Y.	40° 52.7'	73° 55.5'	+0 52	+0 48	*0.84	*0.84	3.85	4.66	2.20	
1355	Riverdale, N.Y.	40° 54.2'	73° 54.9'	+0 48	+0 49	*0.85	*0.85	3.86	4.67	2.13	
1357	Alpine, N.J.	40° 56.7'	73° 55.1'	+1 05	+1 02	*0.83	*0.90	3.75	4.54	2.06	
1359	Tarrytown	41° 04.7'	73° 52.2'	+1 49	+1 57	*0.70	*0.70	3.2	3.7	1.8	
1361	Haverstraw	41° 13.1'	73° 57.8'	+2 15	+2 42	*0.72	*0.81	3.23	3.91	1.78	
1363	Peekskill	41° 17'	73° 56'	+2 28	+3 03	*0.64	*0.64	2.9	3.4	1.8	
1365	Newburgh	41° 30.0'	74° 00.4'	+3 46	+4 03	*0.62	*0.64	2.8	3.2	1.5	
1367	Beacon, Flushing	41° 30.3'	73° 58.2'	+3 37	+3 49	*0.70	*0.90	3.13	3.68	1.75	
1369	New Hamburg	41° 35'	73° 57'	+4 04	+4 28	*0.64	*0.64	2.9	3.3	1.6	
1371	Poughkeepsie	41° 42'	73° 57'	+4 34	+4 46	*0.68	*0.68	3.1	3.5	1.7	
1373	Hyde Park	41° 47.2'	73° 57.8'	+5 00	+5 12	*0.70	*0.68	3.2	3.6	1.8	
1375	Kingston	41° 55'	73° 59'	+5 20	+5 34	*0.81	*0.82	3.7	4.2	2.0	
1377	Tivoli	42° 04'	73° 56'	+5 50	+6 04	*0.86	*0.86	3.9	4.4	1.9	
1379	Hudson	42° 15'	73° 48'	+6 58	+7 12	*0.88	*0.86	4.0	4.4	2.2	
				on Albany, p.80							
1381	Castleton	42° 32'	73° 46'	-0 17	-0 29	-0.2	+0.1	4.3	4.7	2.2	
1383	ALBANY	42° 39.0'	73° 44.8'	+0 08	Daily predictions			4.6	5.0	2.5	
1385	Troy	42° 44'	73° 42'	+0 10	+1.00	*1.00	*1.00	4.7	5.1	2.3	
	The Kills and Newark Bay			on New York, p.72							
	Kill Van Kull										
1387	Constable Hook	40° 39.3'	74° 05.2'	-0 18	-0 08	*1.02	*1.02	4.63	5.60	2.54	
1389	BAYONNE BRIDGE, STATEN ISLAND	40° 38.4'	74° 08.8'	+0 09	Daily predictions, p.76			4.98	5.52	2.70	
1391	Port Elizabeth	40° 40.4'	74° 08.4'	-0 02	+0 13	*1.11	*0.95	5.05	6.11	2.73	
1393	Port Newark Terminal	40° 41'	74° 08'	+0 03	+0 21	*1.12	*1.12	5.1	6.1	2.7	
	Passaic River										
1395	Point No Point	40° 43.9'	74° 07.0'	+0 00	+0 22	*1.15	*1.04	5.21	6.30	2.83	
1397	Belleview	40° 47.2'	74° 05.8'	+0 09	+0 49	*1.23	*1.19	5.60	6.78	3.08	
1399	East Rutherford	40° 50.8'	74° 07.2'	+0 09	+1 06	*1.29	*1.29	5.87	7.10	3.20	
1401	Garfield	40° 52.1'	74° 06.7'	+0 08	---	---	---	---	---	---	
	Hackensack River										
1403	Kearny Point	40° 43.7'	74° 06.2'	+0 11	+0 22	*1.15	*1.14	5.21	6.30	2.85	
1405	Amtrak RR. swing bridge	40° 45.1'	74° 05.8'	+0 33	+0 39	*1.16	*1.10	5.27	6.38	2.87	
1407	Fish Creek, Berry's Creek	40° 47.6'	74° 05.5'	+1 02	+1 00	*1.16	*1.00	5.31	6.43	2.86	
1409	Carlstadt, Garretts Reach	40° 48.4'	74° 03.6'	+0 59	+0 45	*1.26	*1.29	5.71	6.29	3.12	
1411	North Secaucus, Garretts Reach	40° 48.4'	74° 02.6'	+0 57	+0 57	*1.23	*1.23	5.61	6.79	3.06	
1413	Mill Creek, 0.8 n.mi. above entrance	40° 47.9'	74° 03.0'	+1 34	---	---	---	---	---	---	
1415	Cromakill Creek, N.J. Turnpike	40° 48.2'	74° 02.0'	+1 00	---	---	---	---	---	---	
1417	Ridgefield Park	40° 51.0'	74° 01.8'	+1 00	+1 00	*1.26	*1.26	5.73	6.93	--	
1419	Hackensack	40° 52.8'	74° 02.4'	+1 06	+1 00	*1.33	*1.38	6.01	7.27	3.29	
1421	New Millford	40° 56.1'	74° 01.8'	+1 17	+2 49	*1.02	*1.02	4.76	5.76	2.44	
	Arthur Kill			on Sandy Hook, p.84							
1423	Port Ivory, Howland Hook, N.Y.	40° 38.7'	74° 10.8'	+0 27	+0 39	*1.09	*1.09	5.10	6.12	2.78	
1425	Rahway River, RR. Bridge	40° 35.9'	74° 13.9'	+0 17	+0 30	*1.14	*1.16	5.36	6.49	2.91	
1427	Chelsea	40° 36'	74° 12'	+0 23	+0 37	*1.07	*1.05	5.0	6.0	2.7	
1429	Carteret	40° 35.2'	74° 12.6'	+0 22	+0 33	*1.09	*1.09	5.1	6.2	2.8	
1431	Rossville, N.Y.	40° 33.3'	74° 13.4'	+0 20	+0 29	*1.12	*1.12	5.22	5.84	2.89	
1433	Woodbridge Creek, 0.8 n.mi. above entrance	40° 32.7'	74° 15.9'	+0 09	+0 21	*1.10	*1.00	5.20	6.29	2.79	
	Lower New York Bay, Raritan Bay, etc.										
1435	Great Kills Harbor	40° 32.6'	74° 08.4'	-0 01	+0 04	*1.05	*1.16	4.91	5.79	2.67	
1437	Princes Bay	40° 30.7'	74° 12.0'	+0 00	+0 06	*1.05	*1.05	4.9	5.9	2.6	
	Raritan River										
1439	South Amboy	40° 29.5'	74° 16.9'	-0 04	+0 08	*1.09	*1.09	5.09	6.11	2.77	
1441	Keasbey	40° 30.5'	74° 18.7'	+0 06	+0 18	*1.10	*1.00	5.21	6.25	2.85	
1443	Sayreville	40° 28.7'	74° 21.4'	+0 11	+0 25	*1.14	*1.21	5.43	6.57	2.95	
1445	Old Bridge, South River	40° 25.0'	74° 21.8'	+0 48	+0 59	*1.18	*1.16	5.58	6.75	3.01	
1447	New Brunswick	40° 29.3'	74° 26.1'	+0 32	+0 48	*1.21	*1.16	5.71	6.91	3.08	

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
				Time		Height				
		Latitude	Longitude	High Water	Low Water	High Water	Low Water	Mean	Spring	
	NEW YORK and NEW JERSEY Lower New York Bay, Raritan Bay, etc.—cont. Time meridian, 75° W	North		West		h m h m ft ft				ft ft ft
				on Sandy Hook, p.84						
1449	Cheesquake Creek, Garden State Parkway	40° 27.2'	74° 16.4'	+0 12	+0 13	*1.09	*1.05	5.12	6.20	2.77
1451	Keyport	40° 26.4'	74° 11.9'	-0 04	+0 06	*1.08	*1.10	5.05	6.06	2.74
1453	Matawan Creek, Route 35 bridge	40° 26.0'	74° 13.1'	-0 01	+0 07	*1.08	*1.08	5.06	6.12	2.77
1455	Waackaack Creek	40° 26.9'	74° 08.6'	-0 06	+0 21	*0.99	*0.99	4.62	5.54	2.47
	NEW JERSEY Sandy Hook Bay									
1457	Pews Creek	40° 26.5'	74° 06.3'	-0 08	---	---	---	---	---	---
1459	Compton Creek	40° 25.9'	74° 05.1'	+0 13	---	---	---	---	---	---
1461	Atlantic Highlands	40° 25.1'	74° 02.1'	-0 10	-0 10	*1.01	*1.01	4.71	5.65	2.55
1463	SANDY HOOK (Fort Hancock)	40° 28.0'	74° 00.6'	Daily predictions				4.70	5.71	2.54
	<i>Shrewsbury River</i>									
1465	Highlands, Route 36 bridge	40° 23.8'	73° 58.9'	+0 17	+0 14	*0.90	*0.90	4.19	5.03	2.27
1467	Oceanic Bridge, Navesink River	40° 22.6'	74° 00.9'	+1 13	+1 45	*0.72	*0.63	3.41	4.13	1.82
1469	Red Bank, Navesink River	40° 21.3'	74° 03.9'	+1 17	+1 57	*0.74	*0.63	3.51	4.25	1.87
1471	Sea Bright	40° 21.9'	73° 58.5'	+1 15	+1 07	*0.68	*0.68	3.15	3.78	1.74
1473	Gooseneck Point, bridge	40° 19.6'	74° 01.0'	+2 18	+2 41	*0.55	*0.55	2.57	3.08	1.44
1475	Long Branch Reach	40° 19.5'	73° 59.8'	+2 18	+2 41	*0.56	*0.63	2.60	3.15	1.42
	Outer Coast									
1477	Long Branch (fishing pier)	40° 18.2'	73° 58.6'	-0 26	-0 36	*0.94	*1.00	4.40	5.28	2.39
	<i>Shark River</i>									
1479	Shark River Island, fixed RR. bridge	40° 11.2'	74° 01.6'	-0 13	-0 08	*0.93	*0.93	4.32	5.18	2.32
1481	Shark River Hills	40° 11.6'	74° 02.3'	-0 13	-0 09	*0.94	*0.94	4.40	5.28	2.38
1483	New Bedford	40° 10.7'	74° 02.8'	-0 13	-0 07	*0.95	*0.95	4.41	5.29	2.40
1485	Belmar, Atlantic Ocean	40° 11.1'	74° 00.5'	-0 35	-0 45	*0.95	*0.95	4.43	5.32	2.38
1487	Manasquan Inlet, USCG Station	40° 06.1'	74° 02.1'	-0 12	-0 24	*0.86	*0.95	4.02	4.82	2.19
	<i>Manasquan River</i>									
1489	Brielle, Route 35 bridge	40° 06.3'	74° 03.3'	-0 06	-0 20	*0.83	*0.83	3.86	4.63	2.10
1491	Riviera Beach	40° 05.8'	74° 05.2'	+0 08	+0 38	*0.73	*0.73	3.39	4.07	1.83
	<i>Metedeconk River</i>									
1493	Beaverdam Creek entrance	40° 03.7'	74° 03.7'	+2 41	+2 40	*0.07	*0.37	0.30	0.36	0.22
1495	Beaverdam Creek, inside	40° 03.7'	74° 04.4'	+2 49	+2 47	*0.06	*0.06	0.29	0.35	0.25
1497	Forge Pond	40° 03.9'	74° 08.1'	+2 17	+2 07	*0.07	*0.07	0.31	0.37	0.23
1499	Tall Pines Camp	40° 03.5'	74° 07.0'	+2 23	+2 24	*0.06	*0.06	0.30	0.36	0.23
1501	Seaside Heights, ocean	39° 56.5'	74° 04.1'	-0 30	-0 32	*0.92	*0.92	4.29	5.15	2.33
	<i>BarNEGAT Bay</i>									
1503	Mantoloking	40° 02.2'	74° 03.2'	+4 28	+4 39	*0.07	*0.07	0.33	0.40	0.25
1505	Kettle Creek, Green Island	40° 00.8'	74° 06.8'	+4 23	+4 41	*0.08	*0.08	0.38	0.46	0.28
1507	Ocean Beach	39° 59.3'	74° 04.1'	+4 17	+4 36	*0.08	*0.08	0.37	0.44	0.27
1509	Silver Bay, Silver Bay Marina	39° 59.8'	74° 08.9'	+4 26	+4 39	*0.08	*0.08	0.37	0.44	0.27
1511	Goose Creek entrance	39° 57.8'	74° 06.9'	+4 06	+4 29	*0.08	*0.08	0.35	0.42	0.25
1513	Coates Point	39° 56.9'	74° 06.9'	+4 00	+4 21	*0.08	*0.08	0.37	0.44	0.25
1515	Toms River (town), Toms River	39° 57.0'	74° 11.9'	+4 02	+4 29	*0.09	*0.09	0.42	0.50	0.28
1517	Seaside Park	39° 55.3'	74° 05.0'	+3 40	+4 05	*0.08	*0.08	0.38	0.46	0.25
1519	Barnegat Pier	39° 55.1'	74° 06.6'	+3 35	+3 55	*0.08	*0.08	0.36	0.43	0.23
1521	Sloop Creek	39° 54.3'	74° 08.0'	+3 38	+4 01	*0.08	*0.08	0.35	0.42	0.22
1523	Cedar Creek	39° 52.2'	74° 09.3'	+3 23	+3 45	*0.08	*0.08	0.35	0.42	0.23
1525	Island Beach	39° 51.1'	74° 05.4'	+3 04	+3 28	*0.08	*0.08	0.35	0.42	0.24
1527	Stouts Creek	39° 50.7'	74° 09.1'	+3 16	+3 33	*0.06	*0.06	0.30	0.36	0.20
1529	Forked River	39° 49.5'	74° 10.4'	+3 08	+3 20	*0.07	*0.07	0.32	0.38	0.24
1531	Oyster Creek	39° 48.5'	74° 11.3'	+3 30	+3 36	*0.06	*0.06	0.29	0.35	0.20
1533	Island Beach, Sedge Islands	39° 47.3'	74° 05.9'	+3 00	+3 56	*0.07	*0.07	0.34	0.41	0.24
1535	Waretown	39° 47.5'	74° 10.9'	+2 43	+3 00	*0.07	*0.07	0.34	0.41	0.24
1537	Barnegat Inlet, USCG Station	39° 45.7'	74° 06.7'	-0 12	+0 02	*0.47	*0.63	2.16	2.59	1.20
1539	High Bar	39° 45.4'	74° 07.7'	+1 04	+1 55	*0.12	*0.12	0.54	0.65	0.39
1541	Double Creek	39° 44.7'	74° 12.1'	+3 03	+3 33	*0.07	*0.07	0.31	0.37	0.19
1543	Loveladies Harbor	39° 43.5'	74° 08.2'	+3 02	+3 39	*0.10	*0.10	0.46	0.55	0.30
	<i>Manahawkin Bay</i>									
1545	Flat Creek	39° 42.4'	74° 11.5'	+3 33	+4 35	*0.18	*0.18	0.84	1.01	0.49
1547	North Beach	39° 40.5'	74° 09.6'	+3 02	+4 07	*0.22	*0.22	1.02	1.22	0.58
1549	Manahawkin Creek	39° 40.0'	74° 12.9'	+2 50	+3 51	*0.27	*0.27	1.25	1.50	0.69
1551	Manahawkin Drawbridge	39° 39.2'	74° 11.1'	+2 47	+3 39	*0.27	*0.27	1.26	1.51	0.70
	<i>Little Egg Harbor</i>									
1553	Mill Creek, 1 n.mi. above entrance	39° 39.9'	74° 13.9'	+2 32	+3 33	*0.35	*0.35	1.61	1.93	0.87
1555	Cedar Run	39° 39.2'	74° 15.4'	+2 10	+2 56	*0.40	*0.40	1.86	2.23	1.01
1557	Dinner Point Creek, upper end	39° 39.4'	74° 16.2'	+2 41	+3 17	*0.40	*0.40	1.88	2.26	1.03
1559	Beach Haven Crest	39° 36.8'	74° 12.6'	+2 13	+2 59	*0.38	*0.32	1.81	2.19	0.96
1561	Westcunk Creek entrance, Long Point	39° 36.8'	74° 15.8'	+2 00	+2 40	*0.42	*0.47	1.97	2.38	1.07
1563	West Creek, Westcunk Creek	39° 37.9'	74° 17.8'	+2 10	+2 40	*0.44	*0.47	2.08	2.52	1.13
1565	Parker Run, upper end	39° 37.0'	74° 18.6'	+2 05	+2 39	*0.45	*0.47	2.09	2.53	1.13
1567	Tuckerton Creek entrance	39° 34.6'	74° 19.9'	+1 32	+1 59	*0.45	*0.45	2.11	2.53	1.15
1569	Tuckerton, Tuckerton Creek	39° 36.1'	74° 20.5'	+1 45	+2 15	*0.45	*0.47	2.11	2.55	1.14
1571	Beach Haven Coast Guard Station	39° 32.9'	74° 15.4'	+1 18	+1 23	*0.46	*0.58	2.15	2.60	1.19
	<i>Great Bay</i>									
1573	Shooting Thorofare, Little Egg Inlet	39° 30.5'	74° 19.5'	+0 38	+0 21	*0.62	*0.79	2.88	3.24	1.59
1575	Little Sheepshead Creek	39° 31.1'	74° 19.2'	+0 35	+0 44	*0.66	*0.68	3.10	3.75	1.68
1577	Seven Island, Newmans Thorofare	39° 31.0'	74° 20.2'	+0 32	+0 28	*0.73	*0.73	3.4	4.1	1.8
1579	Graveling Point	39° 32.4'	74° 23.2'	+0 44	+1 14	*0.68	*0.68	3.18	3.82	1.72

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
				Time		Height				
		Latitude	Longitude	High Water	Low Water	High Water	Low Water	Mean	Spring	
	NEW JERSEY Outer Coast—cont. Time meridian, 75° W	North	West	h m	h m	ft	ft	on Sandy Hook, p.84		
1581	Mullica River Nacote Creek, U.S. Highway 9 bridge	39° 32.1'	74° 27.8'	+1 34	+1 55	*0.66	*0.68	3.09	3.74	1.68
1583	Chestnut Neck Boat Yard	39° 32.9'	74° 27.7'	+1 27	+2 01	*0.63	*0.79	2.94	3.53	1.74
1585	New Gretna, Bass River	39° 35.5'	74° 26.5'	+1 52	+2 06	*0.66	*0.74	3.10	3.75	1.69
1587	Wading River (town), Wading River	39° 37.1'	74° 29.8'	+2 48	+2 44	*0.64	*0.79	2.98	3.61	1.64
1589	Green Bank	39° 36.7'	74° 35.4'	+2 59	+3 16	*0.66	*0.66	3.07	3.68	1.70
1591	Sweetwater, Mullica River Marina	39° 37.5'	74° 38.5'	+3 23	+4 21	*0.56	*0.56	2.42	3.14	1.42
		on Atlantic City, p.88								
1593	Main Marsh Thorofare	39° 28.7'	74° 23.0'	+1 10	+1 52	*0.80	*0.76	3.21	3.92	1.74
1595	Brigantine Channel @ Hoffman Thorofare	39° 26.1'	74° 21.8'	+0 59	+0 58	*0.90	*0.88	3.63	4.43	1.97
1597	Reed Bay, Turtle Cove	39° 27.2'	74° 25.6'	+1 07	---	---	---	---	---	
1599	Abscon, Absecon Creek, U.S. Hwy. 30 bridge	39° 25.4'	74° 30.0'	+1 28	+1 37	*0.96	*0.94	3.87	4.72	2.09
1601	Abscon Channel, State Route 87 bridge	39° 23.1'	74° 25.5'	+0 38	+0 26	*0.96	*1.13	3.90	4.68	2.13
1603	ATLANTIC CITY, OCEAN	39° 21.3'	74° 25.1'	Daily predictions				4.02	4.90	2.18
1605	Ventnor City, ocean pier	39° 20.1'	74° 28.6'	-0 02	-0 02	*1.00	*1.00	4.04	4.92	2.19
1607	Longport (inside), Great Egg Harbor Inlet	39° 18.5'	74° 32.0'	+0 26	+0 32	*0.94	*0.88	3.78	4.61	2.04
1609	Dock Thorofare, Risley Channel	39° 21.1'	74° 32.4'	+0 55	+1 00	*0.98	*0.94	3.92	4.78	2.12
1611	Pleasantville, Lakes Bay, Great Egg Harbor Inlet	39° 22.9'	74° 31.1'	+1 00	+1 37	*0.98	*0.82	3.96	4.83	2.12
	Great Egg Harbor Bay	on Sandy Hook, p.84								
1613	Beesleys Point	39° 17.3'	74° 37.7'	+0 55	+1 32	*0.87	*1.00	3.55	4.26	1.93
1615	Steelmanville, Patcong Ck., 2.5 nm above ent.	39° 20.1'	74° 35.8'	+1 28	+1 50	*0.92	*0.94	3.70	4.51	2.01
1617	Tuckahoe, Tuckahoe River	39° 17.7'	74° 44.9'	+2 12	+2 40	*0.86	*1.25	3.47	4.16	1.93
1619	Cedar Swamp Creek, Tuckahoe River	39° 14.8'	74° 43.1'	+3 14	+3 03	*0.78	*1.53	2.99	3.65	1.75
1621	River Bend Marina, Great Egg Harbor River	39° 22.1'	74° 43.0'	+2 12	+2 25	*0.87	*1.00	3.47	4.23	1.90
1623	Mays Landing, Great Egg Harbor River	39° 26.9'	74° 43.7'	+2 50	+3 10	*1.01	*1.12	4.06	4.95	2.22
	Corson Inlet	on Sandy Hook, p.84								
1625	Strathmere, Strathmere Bay	39° 12.0'	74° 39.4'	+0 31	+0 38	*0.95	*1.00	3.81	4.65	2.07
1627	Middle Thorofare, Ocean Drive bridge	39° 12.9'	74° 38.9'	+0 31	+0 30	*0.95	*0.94	3.80	4.64	2.06
1629	Ludlam Bay, west side	39° 10.6'	74° 42.6'	+0 56	+1 12	*0.98	*0.94	3.94	4.81	2.13
	Townsend's Inlet	on Sandy Hook, p.84								
1631	Ocean Drive bridge	39° 07.3'	74° 43.0'	+0 29	+0 21	*0.99	*1.06	3.96	4.62	2.16
1633	Townsend Sound	39° 08.8'	74° 45.0'	+1 08	+1 39	*0.90	*0.59	3.69	4.50	1.95
1635	Stites Sound	39° 07.2'	74° 45.3'	+0 49	+1 04	*0.97	*1.00	3.98	4.78	2.15
1637	Ingram Thorofare	39° 06.6'	74° 44.4'	+0 44	+0 50	*0.96	*1.00	3.93	4.72	2.12
1639	Long Reach, Ingram Thorofare	39° 06.1'	74° 45.3'	+1 06	+1 11	*0.98	*1.06	4.00	4.80	2.17
	Hereford Inlet	on Sandy Hook, p.84								
1641	Great Sound, west side	39° 06.1'	74° 47.3'	+0 56	---	---	---	---	---	
1643	Stone Harbor, Great Channel	39° 03.4'	74° 45.9'	+1 01	+1 12	*1.08	*1.00	4.02	4.82	2.17
1645	Jenkins Sound	39° 03.9'	74° 48.5'	+0 52	---	---	---	---	---	
1647	Nummy Island, Grassy Sound Channel	39° 01.7'	74° 48.1'	+0 32	+0 45	*1.00	*1.00	4.09	4.91	2.21
1649	West Wildwood, Grassy Sound	39° 00.3'	74° 49.6'	+0 57	+1 11	*1.04	*1.00	4.27	5.12	2.30
1651	Old Turtle Thorofare, RR. bridge	39° 01.1'	74° 50.5'	+0 56	+1 10	*1.06	*1.00	4.33	5.20	2.33
1653	Wildwood Crest, ocean pier	38° 58.5'	74° 49.4'	+0 03	+0 03	*1.07	*1.06	4.31	5.15	2.34
	Cape May Inlet	on Sandy Hook, p.84								
1655	Swain Channel, Taylor Sound	38° 58.8'	74° 51.8'	+0 55	+0 40	*1.09	*1.06	4.46	5.35	2.40
1657	Wildwood Crest, Sunset Lake	38° 58.7'	74° 50.2'	+0 52	+0 47	*1.10	*1.06	4.50	5.40	2.42
1659	Cape May Harbor	38° 56.9'	74° 53.5'	+0 33	+0 19	*1.10	*1.06	4.49	5.39	2.42
1661	Cape Island Creek, Cape May	38° 56.8'	74° 54.8'	+0 40	+0 20	*1.11	*1.19	4.51	5.41	2.44
1663	Cape May, Atlantic Ocean	38° 55.8'	74° 56.1'	+0 34	+0 21	*1.12	*1.06	4.59	5.51	2.46
	Delaware Bay, Eastern Shore	on Breakwater Harbor, p.92								
1665	Brandywine Shoal Light	38° 59.2'	75° 06.8'	+0 12	+0 17	*1.19	*1.06	4.89	5.77	2.61
1667	Cape May Point, Sunset Beach	38° 56.8'	74° 58.3'	-0 05	-0 08	*1.16	*1.16	4.80	5.66	2.56
1669	Cape May, ferry terminal	38° 58.1'	74° 57.5'	-0 06	-0 05	*1.18	*1.00	4.85	5.73	2.58
1671	North Highlands Beach	39° 01.1'	74° 57.2'	+0 04	+0 14	*1.26	*1.26	5.24	6.18	2.78
1673	Dias Creek, Route 47 bridge	39° 05.0'	74° 53.2'	+1 09	+3 18	*0.46	*0.46	1.89	2.23	1.04
1675	Bidwell Creek entrance	39° 07.7'	74° 53.5'	+0 15	+0 46	*1.39	*1.19	5.67	6.69	3.03
1677	Bidwell Creek, Route 47 bridge	39° 07.1'	74° 52.1'	+0 36	+0 48	*1.36	*1.36	5.66	6.68	3.01
1679	Dennis Creek, 2.5 n.mi. above entrance	39° 10.7'	74° 51.1'	+0 55	+1 17	*1.26	*1.26	5.23	6.17	2.88
1681	Sluice Creek, Route 47 bridge, Dennis Creek	39° 09.7'	74° 49.9'	+1 49	+1 36	*1.22	*1.22	5.05	5.96	2.82
1683	Dennis Creek, Route 47 bridge	39° 11.0'	74° 49.3'	+2 01	+1 30	*1.20	*1.20	4.96	5.85	2.79
1685	East Creek, Route 47 bridge	39° 12.5'	74° 54.1'	+1 46	+2 24	*0.94	*0.94	3.92	4.63	2.20
1687	West Creek, 0.7 n.mi. above entrance	39° 11.3'	74° 54.9'	+0 20	+1 31	*1.15	*1.15	4.76	5.33	2.55
1689	West Creek, Route 47 bridge	39° 13.0'	74° 55.5'	+2 20	+3 17	*0.58	*0.58	2.40	2.83	1.51
1691	Riggins Ditch, 0.5 n.mi. above entrance	39° 12.0'	74° 58.2'	+0 29	+1 29	*1.24	*1.24	5.14	6.07	2.79
1693	Riggins Ditch, Heislerville	39° 13.1'	74° 58.8'	+1 36	+1 40	*1.12	*1.12	4.65	5.49	2.55
1695	East Point, Maurice River Cove	39° 12.0'	75° 01.2'	+0 40	+1 08	*1.39	*1.39	5.75	6.78	3.08
	Maurice River	on Breakwater Harbor, p.92								
1697	Bivalve	39° 13.8'	75° 02.2'	+0 39	+1 14	*1.35	*1.35	5.60	6.61	3.00
1699	Mauricetown	39° 17.1'	74° 59.5'	+2 17	+2 30	*1.05	*1.05	4.36	5.14	2.42
1701	Port Elizabeth, Manumuskin River	39° 18.8'	74° 59.1'	+2 52	+2 58	*1.05	*1.05	4.34	5.12	2.42
1703	Menantico Creek entrance	39° 20.6'	75° 00.5'	+3 06	+3 09	*1.10	*1.10	4.58	5.40	2.52
1705	Millville	39° 23.5'	75° 02.5'	+3 33	+3 36	*1.21	*1.21	5.01	5.91	2.75
1707	Dividing Creek entrance	39° 13.0'	75° 06.4'	+0 29	+1 05	*1.35	*1.35	5.62	6.63	2.99
1709	Weir Creek bridge, Dividing Creek	39° 15.0'	75° 07.7'	+1 38	+2 33	*0.71	*0.71	2.96	3.49	1.69
1711	Dividing Creek (town), Dividing Creek	39° 16.0'	75° 05.7'	+3 07	---	---	---	---	---	

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				
		North	West	h	m	ft	ft	ft	ft	ft	
	on Reedy Point, p.96										
1713	Fishing Creek entrance	39° 12.9'	75° 09.6'	-1 51	-2 10	*1.02	*1.02	5.63	6.14	3.00	
1715	Fortescue Creek	39° 14.3'	75° 10.5'	-1 57	-2 13	*1.09	*0.94	5.85	7.06	3.10	
1717	Hollywood Beach, The Glades	39° 16.5'	75° 08.5'	+1 45	+1 13	*0.21	*0.21	1.16	1.26	0.71	
1719	Money Island, Nantuxent Creek entrance	39° 17.1'	75° 14.3'	-1 43	-1 58	*1.10	*1.10	6.07	6.62	3.21	
1721	Newport Landing, Nantuxent Creek	39° 17.5'	75° 11.9'	-0 03	-0 28	*0.74	*0.74	4.06	4.43	2.38	
1723	Cedar Creek entrance, Nantuxent Cove	39° 17.9'	75° 14.8'	-1 37	-1 51	*1.08	*1.08	5.96	6.50	3.17	
1725	Cedarville, Cedar Creek, Nantuxent Cove	39° 19.8'	75° 12.7'	-0 37	--	--	--	--	--	--	
1727	Back Creek entrance, Nantuxent Cove	39° 18.3'	75° 16.7'	-1 29	-1 34	*1.07	*1.07	5.91	6.44	3.11	
1729	Husted Landing, Ogden Creek, Back Creek	39° 21.1'	75° 15.1'	-0 47	--	--	--	--	--	--	
1731	Greenwich Pier, Cohansey River	39° 23.0'	75° 21.0'	-0 42	-0 54	*0.99	*0.99	5.47	5.96	2.94	
1733	Tindalls Wharf, Cohansey River	39° 22.7'	75° 14.1'	+1 01	-0 02	*1.09	*1.09	5.98	6.52	3.20	
	on Breakwater Harbor, p.92										
1735	LEWES (BREAKWATER HARBOR)	38° 46.9'	75° 07.2'			Daily predictions		4.08	4.94	2.19	
1737	Mispillion River entrance	38° 56.9'	75° 18.9'	+0 22	+0 50	*1.13	*1.00	4.63	5.46	2.48	
1739	Murderkill River entrance	39° 03.5'	75° 23.8'	+0 39	+1 11	*1.25	*0.94	5.12	6.04	2.71	
1741	Mahon River entrance	39° 11.1'	75° 24.0'	+0 58	+1 29	*1.30	*1.13	5.33	6.29	2.84	
1743	Leipsic, Leipsic River	39° 14.6'	75° 31.1'	+3 35	+3 49	*0.85	*0.63	3.50	4.13	1.80	
	on Reedy Point, p.96										
1745	Stathem's Neck, Stow Creek, N.J.	39° 24.4'	75° 24.3'	-0 22	-0 37	*0.88	*0.88	4.85	5.29	2.65	
1747	Woodland Beach, Del.	39° 20.2'	75° 28.3'	-1 07	-1 10	*1.11	*1.11	5.90	6.80	3.00	
1749	Raccoon Ditch, Newport Meadows, Stow Creek, N.J.	39° 25.3'	75° 22.9'	+1 08	+0 33	*0.76	*0.76	4.17	4.55	2.30	
1751	Canton, Stow Creek, N.J.	39° 27.7'	75° 24.2'	+1 36	+0 45	*0.80	*0.80	4.42	4.82	2.49	
1753	Mad Horse Creek	39° 25.9'	75° 26.8'	-0 20	-0 47	*1.07	*1.07	5.86	6.39	3.12	
1755	1 n.m. above entrance, N.J.	39° 25.3'	75° 25.7'	+0 21	-0 18	*0.92	*0.92	5.08	5.54	2.76	
1757	Pine Island, Malapartis Creek, N.J.	39° 27.2'	75° 27.4'	+0 04	--	--	--	--	--	--	
1759	Silver Lake Fork, N.J.	39° 27.5'	75° 29.7'	-0 25	-0 36	*1.05	*1.05	5.78	6.30	3.07	
1761	Hope Creek, 0.6 n.m. above entrance, N.J.	39° 29.1'	75° 29.6'	+0 49	--	--	--	--	--	--	
1763	Hope Creek, upper end, N.J.	39° 24.0'	75° 36.0'	+1 53	+0 57	*0.54	*0.56	2.90	3.30	1.50	
1765	Taylors Bridge, Blackbird Creek, Del.	39° 27.7'	75° 31.9'	-0 35	-0 33	*1.08	*1.08	5.93	6.46	3.16	
1767	Artificial Island, Salem Nuclear Plant, N.J.	39° 29.8'	75° 31.0'	+0 21	-0 10	*0.99	*0.99	5.44	5.93	3.18	
1769	Alloway Creek, New Jersey	39° 30.7'	75° 29.6'	+0 44	+0 12	*0.94	*0.94	5.15	5.61	2.76	
1771	0.8 n.m. above entrance	39° 30.3'	75° 29.0'	+0 51	+0 15	*0.90	*0.90	4.95	5.40	2.67	
1773	2.5 n.m. above entrance	39° 30.8'	75° 26.8'	+1 51	+1 00	*0.78	*0.78	4.30	4.69	2.37	
1775	Coopers Creek bridge	39° 32.9'	75° 24.9'	+2 24	+1 30	*0.69	*0.69	3.79	4.13	2.17	
1777	Quinton	39° 33.9'	75° 21.8'	+3 37	--	--	--	--	--	--	
1779	Alloway	39° 32.1'	75° 30.7'	-0 04	--	--	--	--	--	--	
	Salem River, New Jersey										
1781	Sinnickson Landing	39° 34.2'	75° 29.9'	+0 04	+0 19	*0.97	*0.97	5.32	5.80	2.83	
1783	Salem	39° 34.6'	75° 28.6'	+0 49	+0 41	*0.76	*0.76	4.19	4.57	2.29	
1785	Kates Creek Meadow	39° 37.5'	75° 27.2'	+1 54	--	--	--	--	--	--	
1787	Winslow Farms	39° 37.7'	75° 29.9'	+2 09	--	--	--	--	--	--	
1789	Winslow Farms	39° 39.0'	75° 29.2'	+2 32	--	--	--	--	--	--	
1791	Beaver Dam	39° 33.5'	75° 34.4'			Daily predictions		5.34	5.81	2.85	
	REEDY POINT										
1793	Chesapeake and Delaware Canal	39° 33.3'	75° 38.9'	-0 16	-0 17	*0.83	*1.00	4.41	4.81	2.39	
1795	St. Georges, Delaware	39° 32.0'	75° 44.0'	-0 28	-0 52	*0.65	*0.56	3.50	3.90	1.80	
1797	Summit Bridge, Delaware	39° 31.6'	75° 48.6'	-0 45	-1 12	*0.56	*1.28	2.86	3.14	1.66	
1799	Chesapeake City, Maryland	39° 31.6'	75° 48.6'	+0 00	+0 05	*1.02	*0.89	5.45	5.94	2.88	
1801	Delaware City Branch Channel bridge	39° 34.2'	75° 35.4'	+0 11	+0 14	*1.02	*1.00	5.44	5.93	2.90	
1803	Delaware City	39° 34.9'	75° 35.3'	+0 03	+0 00	*1.05	*1.00	5.62	6.13	2.99	
1805	Pea Patch Island, Bulkhead Shoal Channel, Del.	39° 35.1'	75° 34.4'	+0 08	--	--	--	--	--	--	
1807	Mill Creek, Penns Neck, N.J.	39° 36.6'	75° 31.2'	+0 29	+0 40	*0.98	*1.00	5.21	5.68	2.78	
1809	New Castle, Delaware	39° 39.4'	75° 33.7'	+0 36	+0 52	*1.00	*1.00	5.52	6.02	2.94	
1811	Salem Canal entrance, N.J.	39° 41.0'	75° 30.6'			Daily predictions					
1813	Christina River, Delaware	39° 43.1'	75° 31.2'	+0 50	+1 06	*0.99	*1.11	5.27	5.74	2.83	
1815	Wilmington Marine Terminal	39° 43.5'	75° 33.6'	+1 08	+1 19	*0.99	*1.06	5.30	5.78	2.84	
1817	Millside, RR. bridge	39° 45.0'	75° 29.6'	+0 52	+1 11	*1.02	*1.17	5.52	6.02	2.97	
1819	Edgemoor, Del.	39° 45.7'	75° 24.2'	+2 11	+2 07	*0.75	*0.75	4.13	4.50	2.32	
	Auburn, Oldmans Creek, N.J.										
1821	Christina River, Delaware	39° 42.9'	75° 21.6'	+4 12	+3 30	*0.55	*0.55	2.74	2.99	1.65	
	on Philadelphia, p.100										
1823	Marcus Hook, Pa.	39° 48.7'	75° 24.7'	-1 23	-1 07	*0.92	*0.95	5.53	5.86	2.96	
1825	Bridgeport, Raccoon Creek, N.J.	39° 48.4'	75° 21.3'	-1 11	-0 50	*0.91	*1.00	5.42	5.66	2.91	
	on Philadelphia, p.100										
1827	Swedesboro, Raccoon Creek, N.J.	39° 45.1'	75° 18.4'	+0 40	--	--	--	--	--	--	
1829	Darby Creek, Pennsylvania	39° 52.6'	75° 18.3'	-0 46	-0 34	*0.95	*0.95	5.71	6.05	3.05	
1831	Wanamaker Bridge	39° 52.8'	75° 17.4'	-0 42	-0 35	*0.97	*1.00	5.79	6.13	3.09	
1833	Norwood City	39° 52.7'	75° 16.6'	-0 22	-0 08	*0.91	*0.90	5.47	5.80	2.91	
1835	Tinicum National Wildlife Refuge	39° 53.2'	75° 15.9'	-0 24	+0 27	*0.74	*0.74	4.51	4.78	2.33	
1837	Tinicum Nat. Wildlife Refuge, Visitor Center	39° 53.5'	75° 15.5'	-0 10	--	--	--	--	--	--	
1839	Billingssport, N.J.	39° 51.0'	75° 15.0'	-0 35	-0 28	*0.93	*0.95	5.59	5.93	2.99	
1841	Billingsport, N.J.	39° 50.1'	75° 14.3'	-0 24	-0 19	*0.94	*0.90	5.64	5.88	3.01	
	on Philadelphia, p.100										
1841	Mantua, Mantua Creek, N.J.	39° 47.8'	75° 10.6'	+1 28	+0 56	*0.71	*0.71	4.19	4.37	2.31	

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				
		North	West	h	m	ft	ft	ft	ft	ft	
NEW JERSEY and PENNSYLVANIA Delaware River—cont. Time meridian, 75° W											
1843	Woodbury Creek, N.J.	39° 51.6'	75° 11.2'	-0 13	-0 14	*0.96	*0.95	5.75	6.10	3.07	
	<i>Schuykill River, Pennsylvania</i>										
1845	Penrose Avenue Bridge	39° 53.9'	75° 12.7'	-0 22	-0 11	*0.96	*0.85	5.79	6.14	3.07	
1847	Market Street Bridge	39° 57.3'	75° 10.8'	-0 20	+0 00	*0.99	*0.80	5.94	6.30	3.13	
1849	Westville, Rt. 47 bridge, Big Timber Creek, N.J.	39° 52.5'	75° 07.4'	+0 02	+0 03	*0.97	*1.00	5.80	6.15	3.10	
1851	Sunset Beach, Big Timber Creek, N.J.	39° 48.9'	75° 05.3'	+1 32	---	---	---	---	---	---	
1853	Philadelphia, Municipal Pier 11, Pa.	39° 57.2'	75° 08.3'	+0 02	+0 05	*1.04	*0.95	6.24	6.61	3.32	
1855	PHILADELPHIA, US Coast Guard Station, Pa.	39° 56.0'	75° 08.5'					5.99	6.32	3.30	
1857	Pavonia, Cooper River, RR, bridge, N.J.	39° 56.8'	75° 06.3'	+0 14	+0 23	*1.04	*1.00	6.24	6.61	3.32	
1859	Bridesburg, Philadelphia, Pa.	39° 59.0'	75° 04.5'	+0 17	+0 22	*1.06	*1.00	6.38	6.76	3.39	
1861	Palmyra, Pennsauken Creek, Route 73 bridge, N.J.	39° 59.6'	75° 01.7'	+0 51	+1 03	*0.89	*0.89	5.25	5.48	2.86	
1863	Cinnaminson, Pennsauken Ck., Rt. 130 bridge, N.J.	39° 59.1'	75° 00.9'	+1 37	---	---	---	---	---	---	
1865	Tacony–Palmyra Bridge	40° 00.7'	75° 02.6'	+0 24	+0 25	*1.10	*0.95	6.60	7.00	3.49	
1867	Pompeston Creek, N.J.	40° 00.8'	75° 00.5'	+0 21	+0 43	*1.05	*1.05	6.39	6.68	3.30	
	<i>Rancocas Creek, New Jersey</i>										
1869	Bridgeboro	40° 01.7'	74° 55.9'	+1 15	+1 18	*1.06	*1.00	6.35	6.73	3.38	
1871	North Branch	39° 59.9'	74° 49.1'	+2 58	+3 29	*0.48	*0.60	2.86	3.03	1.55	
1873	Hainesport, South Branch	39° 58.7'	74° 49.4'	+2 58	+3 05	*0.62	*0.62	3.63	3.85	2.05	
1875	Cornwells Heights, Pa.	40° 04.1'	74° 56.3'	+0 46	+0 58	*1.17	*1.00	7.02	7.44	3.71	
1877	Burlington, N.J.	40° 04.8'	74° 52.5'	+0 53	+1 07	*1.20	*1.00	7.24	7.63	3.83	
1879	Assicunk Creek, Route 130 bridge, N.J.	40° 04.4'	74° 50.9'	+0 04	+1 31	*1.12	*0.85	6.75	7.16	3.54	
1881	Edgely, Pa.	40° 07.7'	74° 49.4'	+1 08	+1 28	*1.27	*1.15	7.64	8.10	4.05	
1883	Fieldsboro, N.J.	40° 08.2'	74° 44.2'	+1 07	+1 39	*1.29	*1.10	7.78	8.25	4.11	
1885	Newbold, Pa.	40° 08.2'	74° 45.1'	+1 10	+1 31	*1.30	*1.00	7.86	8.33	4.13	
1887	Blacks Creek, Route 130 bridge, N.J.	40° 08.3'	74° 42.7'	+1 13	---	---	---	---	---	---	
1889	Sylvan Glen, Crosswicks Ck., Rt. 206 bridge, N.J.	40° 10.9'	74° 42.3'	+2 03	---	---	---	---	---	---	
1891	Crosswicks Creek, Route 130 bridge, N.J.	40° 10.4'	74° 40.8'	+3 07	---	---	---	---	---	---	
1893	Trenton, N.J.	40° 11.3'	74° 45.3'	+1 13	+1 54	*1.35	*1.00	8.18	8.47	4.29	
DELAWARE, outer coast											
1895	Rehoboth Beach	38° 43.2'	75° 04.6'	+0 15	+0 08	*1.13	*1.33	3.9	4.7	2.1	
1897	Indian River Inlet (Coast Guard Station)	38° 36.6'	75° 04.2'	+1 14	+0 45	*0.76	*1.00	2.51	2.94	1.41	
MARYLAND, outer coast											
1899	OCEAN CITY (FISHING PIER)	38° 19.6'	75° 05.0'								
1901	Ocean City Inlet	38° 19.7'	75° 05.5'	+0 28	+0 14	*0.65	*1.00	3.36	4.00	1.84	
1903	Ocean City (Isle of Wight Bay)	38° 19.9'	75° 05.4'	+0 25	+0 23	*0.67	*0.94	2.20	2.61	1.25	
1905	Keydash, Isle of Wight Bay	38° 20.5'	75° 05.1'	-0 57	+0 54	*0.47	*0.81	1.53	1.82	0.89	
MARYLAND and VIRGINIA Chincoteague Bay											
1907	Assateague Beach, Toms Cove	37° 52.0'	75° 22.0'	+0 35	+0 48	*1.08	*1.25	3.60	4.28	2.00	
1909	Harbor of Refuge	37° 54.2'	75° 24.4'	+0 31	+0 35	*0.73	*0.88	2.43	2.89	1.35	
1911	Chincoteague Channel (south end)	37° 54.4'	75° 24.3'	+0 39	+0 47	*0.64	*0.69	2.16	2.57	1.19	
1913	Wishart Point, Bogues Bay	37° 52.9'	75° 29.5'	+0 52	+1 13	*0.77	*0.63	2.60	3.09	1.40	
1915	Chincoteague Island, USCG Station	37° 55.9'	75° 23.0'	+0 56	+1 11	*0.48	*0.56	1.59	1.89	0.89	
1917	Chincoteague Island, Lewis Creek	37° 56.3'	75° 22.4'	+1 17	+1 38	*0.40	*0.63	1.32	1.57	0.76	
1919	Chincoteague Island, Oyster Bay	37° 56.5'	75° 20.8'	+1 44	+2 05	*0.46	*0.56	1.54	1.83	0.86	
1921	Chincoteague Island, Blake Cove	37° 57.1'	75° 21.3'	+1 51	+2 32	*0.28	*0.56	0.89	1.06	0.53	
1923	Jesters Island	37° 58.9'	75° 18.1'	+2 32	+3 24	*0.24	*0.24	0.76	0.90	0.48	
1925	Franklin City	38° 00.4'	75° 23.0'	+2 20	+3 00	*0.22	*0.63	0.66	0.79	0.43	
1927	Public Landing	38° 08.9'	75° 17.1'	+4 41	+5 21	*0.18	*0.18	0.53	0.63	0.36	
1929	South Point, Sinepuxent Neck	38° 12.9'	75° 11.5'	+5 16	+5 02	*0.16	*0.16	0.46	0.54	0.33	
VIRGINIA, outer coast											
1931	Wallop Island	37° 50.5'	75° 28.7'	+0 04	-0 04	*1.06	*0.31	3.67	4.37	1.89	
1933	Gargathy Neck	37° 46.6'	75° 33.7'	+1 31	+1 27	*0.88	*0.63	3.01	3.58	1.60	
1935	Metompkin Inlet	37° 40.3'	75° 35.7'	+1 01	+0 44	*1.08	*1.25	3.60	4.28	2.00	
1937	Folly Creek, Metompkin Inlet	37° 41.8'	75° 38.1'	+1 24	+1 12	*0.97	*0.63	3.30	3.93	1.80	
1939	Wachapreague, Wachapreague Channel	37° 36.4'	75° 41.2'	+1 10	+0 56	*1.19	*1.06	4.02	4.85	2.18	
1941	Revel Creek, Revel Island	37° 29.8'	75° 41.0'	+0 35	+0 27	*1.19	*1.00	4.04	4.81	2.18	
1943	Great Machipongo Inlet (Inside)	37° 23.6'	75° 42.8'	+1 05	+0 56	*1.16	*1.25	3.86	4.59	2.10	
1945	Upshur Neck, south end	37° 28.0'	75° 48.0'	+1 09	+1 14	*1.31	*1.25	4.40	5.24	2.40	
1947	Sand Shoal Inlet (Coast Guard Station)	37° 18.1'	75° 46.7'	+0 32	+0 17	*1.18	*1.00	4.00	4.76	2.16	
1949	Oyster Harbor	37° 17.3'	75° 55.5'	+1 00	+0 36	*1.34	*1.13	4.52	5.38	2.40	
1951	Smith Island (Coast Guard Station)	37° 07.4'	75° 54.7'	+0 52	+1 29	*1.05	*1.25	3.50	4.17	1.90	
Chesapeake Bay, Eastern Shore											
1953	Fishermans Island	37° 05.8'	75° 58.9'	+0 02	+0 11	*1.19	*1.25	3.02	3.62	1.71	
1955	Kiptopeke Beach	37° 10.0'	75° 59.3'	+0 23	+0 32	*1.01	*0.92	2.60	3.09	1.41	
1957	Old Plantation Light	37° 14'	76° 03'	+0 33	+0 52	*0.92	*0.83	2.4	2.9	1.3	
1959	Cape Charles Harbor	37° 15.8'	76° 00.9'	+0 45	+1 03	*0.90	*0.92	2.3	2.8	1.3	
1961	Gaskins Point, Occohannock Creek	37° 33.3'	75° 55.2'	+2 35	+3 13	*0.66	*0.83	1.70	2.00	0.94	
1963	Harborton, Pungoteague Creek	37° 40.0'	75° 50.0'	+3 11	+3 33	*0.70	*0.83	1.76	2.11	0.98	
1965	Onancock, Onancock Creek	37° 42.7'	75° 45.4'	+3 55	+4 19	*0.71	*0.83	1.80	2.16	1.00	
1967	Chesconessex Creek, Schooner Bay	37° 45.8'	75° 46.4'	+3 41	+3 59	*0.78	*1.25	1.94	2.33	1.12	
on Ches. Bay Bridge Tunnel, p.116											

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				
	VIRGINIA Chesapeake Bay, Eastern Shore—cont. Time meridian, 75° W	North	West	h m	h m	ft	ft	ft	ft	ft	
on Ches. Bay Bridge Tunnel, p.116											
1969	Watts Island	37° 47.9'	75° 53.8'	+4 02	+4 12	*0.64	*0.83	1.60	1.92	0.90	
1971	Tangier Island	37° 49.7'	75° 59.6'	+3 58	+4 16	*0.60	*0.75	1.41	1.69	0.80	
1973	Muddy Creek Entrance	37° 51.3'	75° 40.5'	+4 14	+4 51	*0.86	*0.83	2.20	2.64	1.20	
1975	Guard Shore	37° 51.0'	75° 42.0'	+4 06	+4 47	*0.90	*0.83	2.30	2.76	1.27	
on Baltimore, p.108											
1977	MARYLAND Chesapeake Bay, Eastern Shore	37° 55.3'	75° 43.7'	+3 52	+4 36	*0.89	*1.17	2.24	2.69	1.26	
1979	Saxis, Starling Creek, Pocomoke Sound	37° 57.7'	75° 49.3'	+4 27	+4 58	*0.90	*0.83	2.30	2.80	1.20	
1981	Ape Hole Creek, Pocomoke Sound	37° 58.8'	75° 38.3'	+4 32	+5 16	*0.94	*1.00	2.40	2.90	1.30	
1983	Snow Hill, city park	38° 10.7'	75° 23.8'	+7 26	+7 36	*0.70	*1.33	1.62	1.96	0.98	
1985	Crisfield, Little Annemessex River	37° 58.6'	75° 51.8'	+4 34	+4 51	*0.75	*1.00	1.86	2.23	1.05	
1987	Colburn Creek, Big Annemessex River	38° 02.9'	75° 48.2'	+4 59	+5 30	*0.78	*1.17	1.94	2.33	1.11	
1989	Long Point, Big Annemessex River	38° 03.4'	75° 48.2'	+5 19	+5 47	*0.82	*0.83	2.10	2.50	1.10	
1991	Teague Creek, Manokin River	38° 06.5'	75° 50.3'	+5 38	+6 05	*0.82	*0.83	2.10	2.50	1.10	
1993	Ewell, Smith Island	37° 59.7'	76° 01.9'	+4 56	+5 19	*0.61	*1.00	1.53	1.84	0.88	
1995	Holland Island Bar Light	38° 04.1'	76° 05.8'	+5 16	+5 30	*0.56	*0.58	1.40	1.70	0.80	
1997	Chance	38° 10.2'	75° 56.8'	+5 29	+5 57	*0.78	*1.17	1.94	2.33	1.11	
1999	Sharkfin Shoal Light	38° 12.1'	75° 59.2'	+5 46	+6 06	*0.86	*0.92	2.20	2.64	1.20	
2001	Great Shoals Light, Monie Bay	38° 13.0'	75° 53.0'	+6 00	+6 22	*0.90	*0.92	2.30	2.80	1.30	
2003	Wicomico River	38° 16.0'	75° 47.0'	+6 26	+6 46	*0.94	*1.00	2.40	2.90	1.30	
2005	Whitehaven	38° 22.0'	75° 36.0'	+7 21	+7 24	*1.20	*1.25	3.00	3.60	1.70	
2007	Salisbury	38° 29.0'	75° 36.0'	+7 21	+7 24	*1.20	*1.25	3.00	3.60	1.70	
2009	Nanticoke River	38° 15.7'	75° 55.2'	+6 00	+6 35	*0.90	*0.92	2.30	2.76	1.30	
2011	Roaring Point	38° 29.0'	75° 49.1'	+8 25	+8 32	*0.79	*1.33	1.94	2.33	1.13	
2013	Vienna	38° 32.5'	75° 43.4'	+9 19	+9 28	*0.97	*1.00	2.50	3.00	1.40	
2015	Sharpstown	38° 18.0'	76° 00.4'	+5 49	+6 22	*0.82	*1.17	2.05	2.46	1.16	
2017	McCreedy's Creek, Fishing Bay	38° 13.6'	76° 04.6'	+5 26	+5 51	*0.61	*1.17	1.48	1.77	0.88	
	Hooper Strait Light	38° 13.2'	76° 02.3'	+5 32	+6 04	*0.70	*1.08	1.73	2.08	0.99	
2019	Middle Hooper Island	38° 17.8'	76° 12.3'	-4 40	-4 39	*1.32	*1.50	1.51	1.71	1.09	
2021	Barren Island	38° 20.5'	76° 15.9'	-4 45	-4 56	*1.01	*0.68	1.22	1.38	0.77	
2023	Little Choptank River	38° 25.7'	76° 14.2'	-2 26	-2 49	*1.01	*0.82	1.19	1.34	0.78	
2025	Smithville Road Bridge, Beaverdam Creek	38° 28.0'	76° 17.7'	-3 15	-3 00	*1.10	*1.18	1.30	1.47	0.88	
2027	Taylors Island, Slaughter Creek	38° 30.4'	76° 10.4'	-3 11	-2 55	*1.25	*1.41	1.40	1.58	1.00	
2029	Woolford, Church Creek	38° 33.7'	76° 12.5'	-3 07	-2 57	*1.18	*1.27	1.34	1.51	0.90	
2031	Choptank River	38° 34.4'	76° 04.1'	-2 42	-2 28	*1.23	*0.95	1.62	1.83	1.02	
2033	Cambridge	38° 45.4'	75° 59.9'	-0 18	-0 41	*1.54	*1.68	1.70	1.92	1.24	
2035	Dover Bridge	38° 55.0'	75° 56.7'	+1 29	+1 19	*1.82	*0.86	2.29	2.59	1.33	
2037	Hillsboro, Tuckahoe Creek	38° 42.0'	76° 10.4'	-2 50	-2 45	*1.25	*1.41	1.40	1.58	1.00	
2039	Tred Avon River	38° 46.1'	76° 05.9'	-2 45	-2 35	*1.47	*1.59	1.60	1.81	1.20	
2041	Oxford	38° 43.9'	76° 16.1'	-2 57	-2 47	*1.25	*1.41	1.40	1.58	1.00	
2043	Deep Neck Point, Broad Creek	38° 43.9'	76° 16.1'	-2 57	-2 47	*1.25	*1.41	1.40	1.58	1.00	
2045	St. Michaels, San Domingo Creek	38° 46.5'	76° 14.0'	-2 55	-2 52	*1.25	*1.41	1.40	1.58	1.00	
2047	Avalon, Dogwood Harbor	38° 42.5'	76° 19.8'	-2 54	-2 48	*1.18	*1.36	1.30	1.47	0.90	
2049	Tilghman Island, Ferry Cove, Eastern Bay	38° 45.9'	76° 19.7'	-2 33	-2 42	*0.98	*1.00	1.10	1.24	0.78	
2051	Poplar Island	38° 45.5'	76° 22.6'	-2 33	-2 41	*0.97	*0.95	1.10	1.54	0.77	
2053	Claiborne, Eastern Bay	38° 50.2'	76° 16.8'	-2 26	-2 28	*0.96	*1.09	1.10	1.24	0.70	
2055	St. Michaels, Miles River	38° 47.2'	76° 13.3'	-2 12	-2 02	*1.22	*1.18	1.40	1.58	0.96	
2057	Kent Island Narrows	38° 58.0'	76° 14.6'	-1 30	-1 23	*1.10	*1.18	1.20	1.36	0.90	
2059	Matapeake, Kent Island	38° 57.4'	76° 21.3'	-1 30	-1 49	*0.90	*0.95	1.02	1.15	0.72	
	Chestertown Marina	38° 50.2'	76° 22.4'	-2 21	-2 29	*0.97	*0.95	1.11	1.25	0.76	
2061	Chester River	39° 01.9'	76° 18.1'	-0 25	-0 41	*1.03	*0.95	1.19	1.34	0.84	
2063	Love Point	38° 59.8'	76° 09.5'	+0 05	-0 08	*1.18	*1.27	1.30	1.47	0.90	
2065	Queenstown	39° 03.2'	76° 04.5'	+0 20	+0 14	*1.47	*1.89	1.60	1.81	1.20	
2067	Centreville Landing, Corsica River	39° 06.4'	76° 08.5'	+0 12	-0 02	*1.32	*1.50	1.50	1.70	1.00	
2069	Cliffs Point	39° 06.7'	76° 08.3'	+0 09	-0 08	*1.33	*1.27	1.53	1.73	1.05	
2071	Cliffs Wharf	39° 12.4'	76° 03.8'	+1 03	+0 36	*1.62	*1.77	1.80	2.03	1.31	
2073	Chestertown	39° 14.7'	75° 55.5'	+1 10	+1 04	*1.82	*0.91	2.28	2.58	1.34	
2075	Crumpton	39° 08.7'	76° 15.6'	+0 02	-0 04	*0.96	*1.09	1.13	1.28	0.70	
2077	Deep Landing, Swan Creek	39° 12.8'	76° 14.7'	+0 18	+0 11	*1.04	*0.95	1.21	1.35	0.81	
2079	Tolchester Beach	39° 17.8'	76° 10.3'	+1 22	+1 19	*1.18	*1.27	1.30	1.47	0.90	
2081	Worton Creek entrance	39° 22.3'	76° 03.8'	+2 35	+2 15	*1.34	*1.00	1.60	1.81	1.02	
	Sassafras River, Betterton	39° 30.2'	75° 55.0'	+3 18	+2 59	*1.74	*0.86	2.17	2.45	1.28	
2083	Elk River	—	—	—	—	—	—	—	—	—	
	Town Point Wharf	—	—	—	—	—	—	—	—	—	
	C & D Canal (see Delaware River)	—	—	—	—	—	—	—	—	—	
	Chesapeake City, Maryland (see C & D Canal)	—	—	—	—	—	—	—	—	—	
2085	Old Frenchtown Wharf	39° 34.5'	75° 50.6'	+3 13	+3 00	*2.06	*2.27	2.30	2.60	1.60	
2087	Charlestown, Northeast River	39° 34.4'	75° 58.2'	+3 52	+4 03	*1.69	*1.86	1.90	2.15	1.30	

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				
		North	West	h	m	ft	ft	ft	ft	ft	
on Baltimore, p.108											
MARYLAND											
Chesapeake Bay, western shore											
Time meridian, 75° W											
Susquehanna River											
2089	Havre de Grace	39° 32.2'	76° 05.4'	+3	13	+3 27	*1.55	*0.95	1.90	2.15	1.16
2091	Port Deposit	39° 36.0'	76° 06.8'	+3	24	+3 49	*1.51	*1.14	1.81	2.04	1.16
2093	Pond Point, Bush River	39° 23.3'	76° 15.3'	+1	52	+1 31	*1.06	*0.86	1.25	1.41	0.81
Patapsco River											
2095	North Point	39° 11.8'	76° 26.8'	+0	12	+0 04	*0.93	*1.09	1.03	1.16	0.75
2097	Stony Creek	39° 09.8'	76° 31.6'	+0	03	-0 05	*0.95	*0.91	1.09	1.23	0.75
2099	Hawkins Point	39° 12.5'	76° 32.0'	+0	00	+0 06	*1.03	*0.95	1.19	1.34	0.80
2101	Curtis Creek, US Coast Guard Station	39° 11.7'	76° 34.6'	+0	12	+0 08	*0.96	*1.14	1.06	1.20	0.78
2103	BALTIMORE, Fort McHenry	39° 16.0'	76° 34.7'	<i>Daily predictions</i>				1.14	1.25	0.79	
2105	Fort McHenry Marsh	39° 15.7'	76° 35.1'	-0	01	-0 01	*1.00	*1.00	1.14	1.29	0.78
2107	Mountain Point, Gibson Is., Magothy River	39° 03.7'	76° 26.0'	-0	04	-0 04	*0.74	*0.77	0.80	0.90	0.60
2109	Field Creek, Magothy River	39° 06.0'	76° 26.7'	-0	29	-0 38	*0.89	*0.95	0.99	1.12	0.71
Severn River											
2111	Brewer Point	39° 01.6'	76° 32.0'	-0	45	-0 54	*0.74	*0.91	0.80	0.90	0.60
2113	Annapolis (US Naval Academy)	38° 59.0'	76° 28.8'	-1	30	-1 44	*0.88	*1.00	0.97	1.12	0.71
2115	Thomas Point Shoal Light	38° 54.0'	76° 26.0'	-1	56	-2 11	*0.81	*0.91	0.90	1.02	0.60
2117	Edgewater, South River	38° 57.0'	76° 33.0'	-1	51	-2 07	*0.81	*0.91	0.90	1.02	0.60
2119	Gingerville Creek, South River	38° 57.5'	76° 33.3'	-2	01	-2 06	*0.92	*1.00	1.03	1.16	0.74
2121	Rhode River (County Wharf)	38° 53.2'	76° 32.4'	-2	07	-2 17	*0.88	*1.00	0.98	1.10	0.70
2123	Galesville, West River	38° 50.0'	76° 32.0'	-1	39	-1 34	*0.81	*0.91	0.90	1.01	0.60
2125	Rose Haven, Herring Bay	38° 43.5'	76° 32.5'	-2	37	-2 44	*0.81	*0.91	0.90	1.01	0.60
2127	Chesapeake Beach	38° 41.0'	76° 32.0'	-2	47	-3 05	*0.88	*1.00	1.00	1.13	0.70
2129	Long Beach	38° 27.9'	76° 28.4'	-3	47	-4 04	*0.87	*0.77	1.01	1.14	0.67
2131	Cove Point	38° 23.5'	76° 23.9'	-4	10	-4 25	*0.83	*0.83	1.04	1.18	0.61
Patuxent River											
2133	Solomons Island	38° 19.0'	76° 27.1'	-4	38	-4 46	*0.98	*0.73	1.17	1.34	0.74
2135	Broomes Island	38° 24.9'	76° 32.7'	-4	13	-4 19	*1.18	*1.36	1.30	1.47	0.94
2137	Benedict	38° 30.8'	76° 40.2'	-3	54	-3 54	*1.47	*1.82	1.60	1.81	0.81
2139	Lower Marlboro	38° 39.3'	76° 41.0'	-2	46	-2 54	*1.47	*0.77	1.82	2.06	1.09
2141	Point Lookout	38° 02.4'	76° 1.4'	-5	28	-5 37	*1.02	*0.77	1.22	1.38	0.78
on Washington, p.112											
MD., VA. and DISTRICT OF COLUMBIA											
Potomac River											
2143	Cornfield Harbor, Md.	38° 03.7'	76° 21.5'	-6	16	-7 35	*0.48	*0.53	1.30	1.43	0.76
2145	Lewisetta, Va.	37° 59.7'	76° 27.9'	-6	19	-7 31	*0.46	*0.80	1.25	1.42	0.74
2147	Travis Point, Coan River, Va.	37° 59.8'	76° 28.0'	-6	00	-7 05	*0.44	*0.67	1.20	1.32	0.70
2149	Kinsale, Yeocomico River, Va.	38° 01.9'	76° 34.6'	-5	46	-6 53	*0.44	*0.67	1.20	1.32	0.70
2151	Piney Point, Md.	38° 08.0'	76° 32.0'	-5	54	-7 16	*0.51	*0.60	1.40	1.54	0.80
2153	Ragged Point, Coles Neck, Va.	38° 08.5'	76° 36.8'	-5	35	-7 03	*0.54	*0.67	1.50	1.65	0.85
2155	Mount Holly, Nominick Creek, Va.	38° 05.9'	76° 44.1'	-4	51	-6 14	*0.54	*0.67	1.50	1.65	0.80
2157	Colton Point, Md.	38° 13.2'	76° 45.0'	-5	18	-6 43	*0.65	*0.73	1.80	1.98	1.03
2159	Mills Point (south of), Wicomico Riv., Md.	38° 19.6'	76° 50.0'	-5	05	-6 05	*0.65	*0.73	1.80	1.98	1.00
2161	Colonial Beach, Va.	38° 15.1'	76° 57.6'	-5	08	-6 13	*0.61	*0.93	1.63	1.79	0.96
2163	Dahlgren, Upper Machodoc Creek, Va.	38° 19.2'	77° 02.2'	-4	42	-5 33	*0.58	*0.67	1.64	1.80	0.92
2165	Lower Cedar Point, Md.	38° 20.5'	76° 58.6'	-4	48	-5 56	*0.54	*0.60	1.50	1.65	0.80
2167	Mathias Point, Va.	38° 23.9'	77° 03.2'	-4	00	-4 56	*0.44	*0.67	1.20	1.32	0.70
2169	Goose Creek, Port Tobacco River, Md.	38° 27.2'	77° 03.3'	-4	08	-5 07	*0.54	*0.60	1.46	1.61	0.82
2171	Riverside, Md.	38° 23.2'	77° 08.7'	-3	23	-4 24	*0.48	*0.53	1.28	1.41	0.78
2173	Aquia Creek, Va.	38° 25.1'	77° 21.2'	-1	28	-2 32	*0.48	*0.67	1.26	1.39	0.71
2175	Clifton Beach, Smith Point, Md.	38° 24.8'	77° 16.0'	-1	42	-2 46	*0.41	*0.67	1.10	1.21	0.60
2177	Liverpool Point, Md.	38° 27.6'	77° 16.2'	-0	39	-1 58	*0.44	*0.67	1.20	1.32	0.70
2179	Quantico, Va.	38° 31.2'	77° 17.2'	-0	52	-2 04	*0.51	*0.67	1.40	1.54	0.80
2181	Indian Head, Md.	38° 36.1'	77° 11.1'	-1	14	-1 33	*0.65	*0.73	1.80	1.98	1.03
2183	Marshall Hall, Md.	38° 41.2'	77° 06.1'	+0	10	-0 55	*0.82	*0.93	2.30	2.53	1.27
2185	Alexandria, Va.	38° 48.3'	77° 02.3'	+0	18	-0 11	*0.96	*1.33	2.62	2.88	1.51
2187	Bellevue, D.C.	38° 49.6'	77° 01.6'	+0	34	-0 11	*1.02	*1.33	2.80	3.08	1.60
2189	WASHINGTON, Washington Channel, D.C.	38° 52.3'	77° 01.2'	<i>Daily predictions</i>				2.77	3.07	1.55	
Anacostia River											
2191	Washington Naval Yard	38° 52.3'	76° 59.7'	+0	18	-0 06	*1.01	*1.20	2.80	3.08	1.57
2193	Kingman Lake	38° 53.7'	76° 58.1'	+0	22	+0 04	*1.03	*1.20	2.84	3.12	1.60
2195	Kenilworth Aquatic Garden	38° 54.6'	76° 57.3'	+0	29	+0 10	*1.05	*1.07	2.92	3.21	1.62
2197	Bladensburg, Md.	38° 56.0'	76° 56.3'	+0	31	+0 25	*1.06	*1.13	2.95	3.25	1.64
on Ches. Bay Bridge Tunnel, p.116											
VIRGINIA											
Chesapeake Bay, western shore--cont.											
2199	Sunnybank, Little Wicomico River	37° 53.2'	76° 16.0'	+6	41	+6 45	*0.30	*0.30	0.80	0.96	0.40
2201	Great Wicomico River Light	37° 48.3'	76° 16.1'	+3	58	+4 11	*0.41	*0.41	1.10	1.32	0.50
2203	Fleeton Point	37° 48.8'	76° 16.5'	+3	58	+4 14	*0.41	*0.41	1.10	1.32	0.59
2205	Glebe Point, Great Wicomico River	37° 50.8'	76° 22.1'	+4	15	+4 37	*0.49	*0.83	1.20	1.44	0.70
2207	Windmill Point Light	37° 35.8'	76° 14.2'	+2	48	+3 12	*0.41	*0.41	1.10	1.32	0.50
on Hampton Roads, p.120											
Rappahannock River											
2209	Windmill Point	37° 36.9'	76° 17.4'	+1	55	+2 14	*0.49	*0.83	1.16	1.40	0.68
2211	Mill Creek (Grey Point)	37° 35.0'	76° 25.1'	+2	28	+2 42	*0.55	*0.83	1.30	1.57	0.69
2213	Millenbeck, Corrotoman River	37° 40.1'	76° 29.2'	+2	37	+3 05	*0.55	*0.83	1.30	1.57	0.70
2215	Urbanna	37° 39.0'	76° 34.5'	+2	50	+3 09	*0.59	*0.83	1.40	1.69	0.79
2217	Bayport	37° 45.3'	76° 40.4'	+3	22	+3 51	*0.67	*0.83	1.60	1.94	0.90
2219	Wares Wharf	37° 52.4'	76° 47.0'	+4	04	+4 34	*0.75	*0.33	1.88	2.27	0.98
2221	Tappahannock	37° 55.8'	76° 51.4'	+4	40	+5 18	*0.71	*0.83	1.74	2.11	0.95

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				
		North	West	h	m	ft	ft	ft	ft	ft	
	VIRGINIA Chesapeake Bay, western shore—cont. Time meridian, 75° W			on Washington, p.112							
2223	Rappahannock River—cont. Saunders Wharf	38° 05.4'	77° 02.0'	-3	53	-4 41	*0.54	*0.66	1.50	1.65	0.85
2225	Port Royal	38° 10.4'	77° 11.4'	-2	19	-3 02	*0.68	*0.67	1.90	2.09	1.10
2227	Park Turn	38° 12.8'	77° 14.6'	-1	35	-2 30	*0.73	*0.20	2.13	2.34	1.09
2229	Hopyard Landing	38° 14.6'	77° 13.6'	-1	07	-1 57	*0.75	*0.67	2.10	2.31	1.19
2231	Massaponax Sand & Gravel	38° 15.3'	77° 24.6'	-0	39	-0 41	*0.88	*1.33	2.50	2.75	1.39
	Piankatank River			on Hampton Roads, p.120							
2233	Jackson Creek, Deltaville	37° 32.9'	76° 19.9'	+1	36	+2 04	*0.51	*0.83	1.20	1.45	0.70
2235	Dixie	37° 30.5'	76° 25.0'	+1	34	+2 14	*0.55	*0.83	1.30	1.57	0.72
2237	Wolf Trap Light	37° 23.4'	76° 11.4'	-0	02	+0 32	*0.67	*0.83	1.60	1.94	0.90
	Mobjack Bay			on Hampton Roads, p.120							
2239	Mobjack, East River	37° 22.4'	76° 20.8'	-0	17	+0 02	*0.98	*0.83	2.40	2.90	1.30
2241	Belleview	37° 24.7'	76° 26.3'	-0	06	+0 00	*1.02	*0.83	2.48	3.00	1.36
2243	Browns Bay	37° 18.1'	76° 24.2'	-0	11	-0 03	*0.98	*1.58	2.32	2.81	1.35
	York River			on Washington, p.112							
2245	Tue Marshes Light	37° 14.1'	76° 23.1'	+0	03	+0 03	*0.90	*0.83	2.17	2.63	1.19
2247	Yorktown, Goodwin Neck	37° 13.4'	76° 26.4'	+0	18	+0 15	*0.90	*0.83	2.20	2.66	1.23
2249	Yorktown, USCG Training Center	37° 13.6'	76° 28.7'	+0	10	+0 15	*0.95	*1.08	2.29	2.77	1.28
2251	Gloucester Point	37° 14.8'	76° 30.0'	+0	10	+0 11	*0.98	*1.00	2.38	2.93	1.30
2253	Cheatham Annex	37° 17.5'	76° 35.2'	+0	48	+0 40	*1.02	*0.83	2.50	3.03	1.34
2255	Roane Point	37° 26.9'	76° 42.4'	+1	47	+1 50	*1.14	*0.83	2.81	3.40	1.54
2257	West Point	37° 32.1'	76° 47.6'	+2	12	+2 38	*1.14	*0.83	2.80	3.39	1.50
2259	Wakema (Fraziers Ferry), Mattaponi River	37° 39.0'	76° 54.0'	+3	34	+3 57	*1.41	*1.67	3.42	4.14	1.90
	Pamunkey River			on Washington, p.112							
2261	Lester Manor	37° 35.0'	76° 59.4'	+4	45	+5 00	*1.05	*0.83	2.80	3.39	1.50
2263	Northbury	37° 37.5'	77° 07.3'	+6	03	+6 18	*1.37	*1.67	3.30	4.01	1.80
	Chesapeake Bay, western shore—cont.			on Washington, p.112							
2265	Messick Point, Back River	37° 06.5'	76° 19.1'	-0	07	+0 02	*0.97	*0.97	2.30	2.78	1.33
2267	Hampton Roads			on Washington, p.112							
2269	Old Point Comfort	37° 00.2'	76° 18.9'	+0	01	+0 09	*1.02	*0.83	2.52	3.05	1.38
	HAMPTON ROADS (Sewells Point)	36° 56.8'	76° 19.8'	Daily predictions							
2271	Elizabeth River			Daily predictions							
2273	Craney Island Light	36° 53.5'	76° 20.3'	+0	18	+0 04	*1.06	*0.83	2.60	3.15	1.40
2275	Lafayette River	36° 53.0'	76° 16.5'	+0	06	+0 10	*1.10	*1.17	2.67	3.14	1.47
2277	Western Branch, Rt 337 bridge	36° 49.3'	76° 23.9'	+0	11	+0 13	*1.14	*1.17	2.77	3.26	1.53
2279	Norfolk	36° 51.1'	76° 17.9'	+0	23	+0 20	*1.14	*0.83	2.82	3.41	1.50
2281	Portsmouth, Naval Shipyard	36° 49.3'	76° 17.6'	+0	08	+0 10	*1.13	*1.17	2.76	3.26	1.52
2283	Money Point	36° 46.7'	76° 18.1'	+0	15	+0 12	*1.18	*1.17	2.86	3.46	1.57
	Deep Creek Entrance	36° 45.3'	76° 17.6'	+0	22	+0 18	*1.21	*1.25	2.92	3.53	1.61
	Nansemond River			on Washington, p.112							
2285	Pig Point	36° 55.0'	76° 26.1'	+0	42	+0 40	*1.05	*0.83	2.80	3.39	1.50
2287	Town Point	36° 53.0'	76° 30.5'	+0	37	+0 44	*1.22	*0.83	3.00	3.63	1.60
2289	Hollidays Point (Kings Highway bridge)	36° 50.3'	76° 33.0'	+0	56	+1 03	*1.25	*1.67	3.00	3.63	1.63
	James River			on Washington, p.112							
2291	Newport News	36° 58.4'	76° 26.0'	+0	29	+0 28	*1.08	*0.83	2.60	3.15	1.40
2293	Huntington Park	37° 00.8'	76° 27.5'	+0	38	+0 39	*1.07	*0.92	2.62	3.17	1.42
2295	Menchville	37° 04.9'	76° 31.5'	+1	03	+1 19	*1.06	*0.83	2.60	3.15	1.40
2297	Smithfield, Pagan River	36° 59.1'	76° 37.8'	+1	34	+1 38	*1.14	*0.83	2.78	3.36	1.50
2299	Burwell Bay	37° 03.4'	76° 40.1'	+1	17	+1 39	*1.00	*1.17	2.42	2.93	1.35
2301	Fort Eustis	37° 08.2'	76° 37.3'	+1	44	+1 51	*0.92	*1.25	2.19	2.52	1.25
2303	Kingsmill	37° 13.2'	76° 39.8'	+2	05	+2 26	*0.94	*1.33	2.26	2.73	1.29
2305	Scotland	37° 11.1'	76° 47.0'	+2	44	+3 13	*0.78	*1.08	1.84	2.22	1.06
2307	Jamestown Wharf	37° 13.2'	76° 47.4'	+2	59	+3 15	*0.78	*1.42	1.81	2.09	1.08
	Chickahominy River			on Washington, p.112							
2309	Ferry Point (bridge)	37° 15.8'	76° 52.7'	+4	01	+4 26	*0.78	*0.83	1.90	2.30	1.04
2311	Wright Island Landing	37° 20.7'	76° 52.5'	+4	44	+5 03	*0.90	*0.83	2.20	2.66	1.20
2313	Lanexa	37° 24.2'	76° 54.7'	+5	00	+4 51	*1.05	*1.08	2.56	2.77	1.41
2315	Clarendon	37° 13.9'	76° 56.9'	+3	51	+4 25	*0.76	*1.17	1.79	2.11	1.06
2317	Tettington	37° 14.4'	76° 56.6'	+3	52	+4 17	*0.79	*1.13	1.87	2.26	1.07
2319	Sturgeon Point	37° 18.4'	77° 00.4'	+4	37	+5 09	*0.86	*0.83	2.10	2.54	1.10
2321	Willcox Wharf, Charles City	37° 19.0'	77° 05.9'	+5	30	+5 33	*0.89	*1.33	2.12	2.52	1.22
2323	Jordan Point	37° 18.8'	77° 13.4'	+6	16	+6 39	*1.02	*0.83	2.50	3.02	1.40
				on Washington, p.112							
2325	City Point, Hopewell	37° 18.8'	77° 16.2'	-4	31	-5 36	*0.87	*0.80	2.45	2.58	1.35
2327	Puddledock, Appomattox River	37° 16.0'	77° 22.3'	-3	49	-4 32	*1.00	*1.07	2.80	3.08	1.55
2329	Haxall	37° 22.4'	77° 14.6'	-4	10	-4 53	*0.99	*1.33	2.70	2.97	1.60
2331	Chester	37° 23.0'	77° 22.7'	-3	39	-3 59	*1.02	*0.67	2.90	3.19	1.60
2333	Meadowville	37° 22.7'	77° 19.4'	-3	46	-4 17	*1.05	*1.33	2.90	3.19	1.60
2335	Richmond Deepwater Terminal	37° 27.5'	77° 25.2'	-3	39	-3 51	*1.08	*0.93	3.05	3.25	1.66
2337	Richmond (river locks)	37° 31.5'	77° 25.2'	-3	16	-3 26	*1.16	*1.33	3.20	3.52	1.80

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				
	VIRGINIA Chesapeake Bay, southern shore Time meridian, 75° W	North	West	h m	h m	ft	ft	ft	ft	ft	
on Ches. Bay Bridge Tunnel, p.116											
2339	Little Creek, NAB	36° 54.7'	76° 10.5'	+0 08	+0 09	*1.01	*1.17	2.57	3.08	1.42	
2341	CHESAPEAKE BAY BRIDGE TUNNEL	36° 58.0'	76° 06.8'		Daily predictions			2.55	3.07	1.40	
2343	Lynnhaven Inlet, Virginia Pilots Dock	36° 54.4'	76° 05.4'	+0 40	+0 38	*0.88	*1.08	2.22	2.66	1.24	
2345	Bayville	36° 53.6'	76° 06.3'	+1 52	+2 48	*0.67	*0.83	1.70	2.04	1.00	
2347	Buchanan Creek entrance	36° 51.7'	76° 06.9'	+2 02	+2 56	*0.75	*0.83	1.90	2.28	1.00	
2349	Brown Cove	36° 52.5'	76° 03.7'	+2 05	+2 43	*0.65	*0.83	1.64	1.96	0.92	
2351	Broad Bay Canal	36° 54.1'	76° 03.7'	+2 05	+2 00	*0.56	*0.92	1.38	1.66	0.80	
2353	Long Creek	36° 54.2'	76° 04.2'	+1 15	+1 15	*0.68	*1.08	1.68	2.02	0.97	
on Duck Pier, p.124											
2355	Cape Henry	36° 55.8'	76° 00.4'	+0 31	+0 36	*0.96	*0.93	3.12	3.71	1.68	
2357	Virginia Beach	36° 50.6'	75° 58.3'	+0 15	+0 16	*1.07	*1.07	3.34	3.97	1.85	
2359	Rudee Inlet entrance	36° 49.9'	75° 58.1'	+0 02	+0 02	*1.01	*0.86	3.28	3.90	1.77	
2361	Rudee Inlet, interior channel	36° 49.9'	75° 58.4'	+0 17	+0 17	*1.02	*0.94	3.29	3.92	1.78	
2363	Rudee Heights, Lake Wesley	36° 49.5'	75° 58.5'	+0 18	+0 16	*1.03	*1.00	3.32	3.95	1.81	
2365	Lake Rudee, south end	36° 49.5'	75° 58.9'	+0 20	+0 19	*1.05	*1.07	3.39	4.03	1.85	
2367	Sandbridge	36° 41.5'	75° 55.2'	+0 07	+0 07	*1.04	*1.04	3.35	3.99	1.85	
NORTH CAROLINA, outer coast											
2369	DUCK PIER	36° 11.0'	75° 44.8'		Daily predictions			3.22	3.96	1.75	
2371	Albemarle and Pamlico Sounds <9>	—	—	—	—	—	—	—	—	—	
2373	Kitty Hawk (ocean)	36° 06.1'	75° 42.6'	-0 01	+0 02	*1.01	*1.43	3.19	3.80	1.80	
2375	Jennettes Pier, Nags Head (ocean)	35° 54.6'	75° 35.5'	-0 05	+0 01	*1.04	*1.43	3.26	3.88	1.80	
on Oregon Inlet, p.128											
2377	Roanoke Sound Channel	35° 48'	75° 35'	+1 37	+1 17	*0.47	*0.14	0.5	0.6	0.3	
2379	OREGON INLET MARINA	35° 47.7'	75° 32.9'		Daily predictions			0.89	1.08	0.58	
2381	Oregon Inlet	35° 46'	75° 31'	-0 03	-0 27	*1.98	*0.71	2.0	2.4	1.1	
2383	Oregon Inlet (USCG Station)	35° 46.1'	75° 31.6'	-0 22	-0 51	*2.00	*0.69	1.97	2.30	1.07	
2385	Oregon Inlet Bridge	35° 46.4'	75° 32.3'	-0 17	-0 55	*1.89	*0.64	1.9	2.3	1.1	
2387	Oregon Inlet Channel	35° 46.5'	75° 33.5'	-0 09	-0 34	*1.23	*0.43	1.2	1.4	0.7	
2389	Old House Channel	35° 46.5'	75° 34.9'	+0 34	+0 28	*0.66	*0.21	0.7	0.8	0.4	
2391	Davis Slough	35° 44.9'	75° 33.2'	+0 09	-0 01	*0.85	*0.29	0.9	1.1	0.5	
2393	Rodanthe, Pamlico Sound	35° 35.7'	75° 28.3'	+2 03	+1 36	*0.79	*0.69	0.72	0.84	0.45	
2395	Roanoke Marshes Light, Croatan Sound	35° 48.7'	75° 42.0'	+2 10	+2 04	*0.50	*0.85	0.40	0.59	0.31	
2397	Oyster Creek, Croatan Sound	35° 50.7'	75° 39.3'	+2 12	+2 06	*0.51	*0.77	0.41	0.60	0.31	
2399	Manns Harbor, Croatan Sound	35° 54.2'	75° 46.2'	+2 31	+2 26	*0.37	*0.54	0.37	0.40	0.23	
on Cape Hatteras, p.132											
2401	Cape Hatteras	35° 14'	75° 31'	+0 01	+0 01	*1.00	*1.08	3.6	4.3	2.0	
2403	CAPE HATTERAS FISHING PIER	35° 13.4'	75° 38.1'		Daily predictions			2.99	3.60	1.61	
2405	Peters Ditch, Avon, Pamlico Sound	35° 21.0'	75° 30.7'	+3 20	+3 40	*0.17	*0.17	0.43	0.61	0.30	
2407	Hatteras, Pamlico Sound	35° 12.3'	75° 42.2'	+1 16	+1 25	*0.17	*1.08	0.41	0.49	0.33	
2409	Hatteras Inlet	35° 12'	75° 44'	+0 08	+0 13	*0.66	*0.83	2.0	2.4	1.1	
2411	Ocracoke Inlet	35° 04'	76° 01'	+0 09	+0 11	*0.63	*0.83	1.9	2.3	1.0	
2413	Ocracoke, Ocracoke Island	35° 06.9'	75° 59.3'	+0 15	+0 47	*0.34	*0.50	0.99	1.19	0.56	
2415	Cape Lookout Bight	34° 36.8'	76° 32.3'	-0 17	-0 12	*1.35	*1.33	4.05	4.86	2.19	
2417	Cape Lookout (ocean)	34° 36.5'	76° 31.7'	-0 22	-0 22	*1.15	*1.25	3.44	4.13	1.87	
2419	Shell Point, Harkers Island	34° 41'	76° 32'	+1 52	+2 34	*0.54	*0.83	1.6	1.8	0.9	
2421	Harkers Island Bridge	34° 43'	76° 35'	+2 08	+2 31	*0.52	*0.67	1.6	1.7	0.9	
2423	Davis, Core Sound	34° 47.8'	76° 27.3'	+3 13	+3 39	*0.38	*0.75	1.08	1.23	0.64	
2425	Channel Marker Lt. 59	34° 42'	76° 37'	+1 25	+1 27	*0.66	*0.83	2.0	2.3	1.1	
2427	Lenoxville Point	34° 42.5'	76° 37.2'	+1 18	+1 11	*0.80	*1.00	2.37	2.84	1.31	
2429	North River Bridge	34° 47'	76° 37'	+2 25	+3 08	*0.59	*0.67	1.8	2.0	1.0	
2431	Beaufort Inlet Channel Range	34° 42'	76° 40'	+0 07	+0 11	*1.07	*1.67	3.2	3.8	1.6	
2433	Beaufort, Taylor Creek	34° 42.7'	76° 38.7'	+0 52	+0 48	*0.95	*1.17	2.82	3.38	1.55	
2435	Beaufort, Duke Marine Lab	34° 43.2'	76° 40.2'	+0 39	+0 36	*1.05	*1.17	3.11	3.58	1.70	
2437	Gallant Channel	34° 44'	76° 40'	+0 49	+0 44	*1.01	*1.25	3.0	3.5	1.7	
2439	Newport River (Yacht Club)	34° 46.1'	76° 40.3'	+1 03	+1 13	*1.03	*1.00	3.08	3.70	1.66	
2441	Core Creek Bridge	34° 50'	76° 42'	+1 26	+1 46	*0.68	*0.83	2.1	2.3	1.1	
2443	Fort Macon, USCG Station	34° 42'	76° 41'	+0 17	+0 18	*1.03	*1.25	3.1	3.7	1.7	
2445	Morehead City	34° 43'	76° 42'	+0 26	+0 27	*1.04	*1.25	3.1	3.7	1.7	
2447	Morehead City Harbor	34° 43.2'	76° 43.7'	+0 35	+0 37	*1.04	*1.17	3.08	3.70	1.68	
2449	Atlantic Beach	34° 41.6'	76° 42.7'	-0 02	+0 01	*1.23	*1.25	3.65	4.38	1.98	
2451	Triple S Marina, Bogue Sd.	34° 41.7'	76° 42.7'	+0 35	+0 28	*0.93	*1.17	2.8	3.3	1.5	
2453	Atlantic Beach Bridge	34° 43'	76° 44'	+0 48	+1 02	*0.79	*0.83	2.4	2.8	1.2	
2455	N.C. State Fisheries	34° 43'	76° 45'	+1 05	+1 32	*0.66	*0.83	2.0	2.3	1.1	
2457	Coral Bay, Atlantic Beach	34° 42'	76° 46'	+1 47	+2 14	*0.53	*0.83	1.6	1.8	0.9	
2459	Spooner Creek	34° 43.5'	76° 48.2'	+2 06	+2 20	*0.56	*1.08	1.27	1.85	0.94	
2461	Bogue Inlet	34° 39'	77° 06'	+0 13	+0 15	*0.73	*0.83	2.2	2.6	1.2	
2463	New River Inlet	34° 32'	77° 20'	+0 16	+0 17	*0.98	*0.83	3.0	3.6	1.6	
2465	Ocean City Beach (fishing pier)	34° 27.1'	77° 29.7'	+0 03	-0 01	*1.40	*1.33	4.20	5.04	2.25	
2467	New Topsail Inlet	34° 22'	77° 38'	+0 20	+1 00	*0.98	*0.83	3.0	3.5	1.6	
2469	Wrightsville Beach	34° 12.8'	77° 47.2'	+0 18	+0 23	*1.27	*1.25	3.80	4.56	2.05	
2471	Wilmington Beach	34° 01.9'	77° 53.6'	+0 18	+0 10	*1.40	*1.25	4.21	5.05	2.26	
2473	Cape Fear	33° 51'	77° 58'	+0 04	+0 07	*1.47	*1.33	4.5	5.1	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				
		North	West	h	m	ft	ft	ft	ft	ft	
NORTH CAROLINA, outer coast—cont. Time meridian, 75° W											
<i>Cape Fear River</i>											
2475	Bald Head	33° 52.8'	78° 00.1'	-2	06	-2 43	*1.05	*1.13	4.49	4.89	2.41
2477	Fort Caswell	33° 54'	78° 01'	-2	02	-2 45	*1.03	*1.25	4.2	4.8	2.3
2479	Southport	33° 54.9'	78° 01.1'	-1	49	-2 22	*0.99	*1.00	4.24	4.62	2.28
2481	Zekes Island	33° 57.0'	77° 57.3'	-1	12	-1 43	*0.96	*1.07	4.09	4.46	2.20
2483	Federal Point	33° 57.7'	77° 56.4'	-1	17	-1 52	*0.94	*0.93	4.04	4.40	2.16
2485	Sunny Point Army Base, Wharf no.1	33° 59.4'	77° 57.4'	-1	03	-1 45	*0.95	*0.93	4.06	4.43	2.17
2487	Reaves Point	34° 00.2'	77° 57.3'	-0	54	-1 18	*0.96	*1.07	4.09	4.46	2.21
2489	Sunny Point Army Base, Wharf no.3	34° 01.4'	77° 56.8'	-0	57	-1 15	*0.97	*1.07	4.15	4.52	2.24
2491	Orton Point	34° 03.4'	77° 56.4'	-0	36	-0 58	*0.98	*1.00	4.17	4.55	2.24
2493	WILMINGTON	34° 13.6'	77° 57.2'	<i>Daily predictions</i>					4.28	4.70	2.29
2495	Castle Hayne, Northeast River	34° 21'	77° 56'	+2	44	+2 54	*0.42	*0.42	1.7	1.9	0.9
2497	Bannermans Branch, Northeast River	34° 35'	77° 46'	+5	58	+6 08	*0.32	*0.31	1.3	1.4	0.6
<i>on Wilmington, p.136</i>											
<i>on Myrtle Beach, p.140</i>											
2499	Oak Island	33° 54.1'	78° 04.9'	-0	05	-0 05	*0.94	*0.84	4.72	5.57	2.53
2501	Lockwoods Folly Inlet	33° 55'	78° 14'	+0	04	+0 15	*0.84	*1.00	4.2	4.8	2.3
2503	Shallotte Inlet (Bowen Point)	33° 55'	78° 22'	+0	43	+0 55	*0.91	*1.00	4.6	5.4	2.5
2505	Tubbs Inlet	33° 53'	78° 29'	+0	14	+0 15	*0.89	*1.00	4.5	5.1	2.4
2507	Sunset Beach Pier	33° 51.9'	78° 30.4'	+0	02	-0 03	*0.97	*1.11	4.82	5.78	2.62
2509	Sunset Beach Bridge	33° 52.9'	78° 30.6'	+0	34	+0 56	*0.94	*0.84	4.72	5.57	2.52
SOUTH CAROLINA, outer coast											
2511	Dunn Sound, Little River Inlet	33° 51.5'	78° 34.2'	+0	15	+0 41	*0.91	*0.80	4.64	5.52	2.48
2513	Dunn Sound, north end	33° 51.6'	78° 34.8'	+0	25	+0 40	*0.93	*0.84	4.67	5.51	2.50
2515	Dunn Sound, west end	33° 51.1'	78° 35.3'	+0	29	+0 36	*0.96	*1.00	4.85	5.58	2.63
2517	Little River Neck, north end	33° 52.2'	78° 34.4'	+0	32	+0 46	*0.92	*0.84	4.63	5.56	2.47
2519	Cherry Grove (inside)	33° 50.1'	78° 38.0'	+0	40	+0 44	*0.92	*0.74	4.67	5.51	2.47
2521	Hog Inlet Pier	33° 50.2'	78° 36.4'	-0	06	-0 07	*0.99	*0.90	5.0	5.7	2.7
2523	MYRTLE BEACH, SPRINGMAID PIER	33° 39.3'	78° 55.1'	<i>Daily predictions</i>					5.02	6.00	2.70
2525	Garden City Pier (ocean)	33° 34.5'	78° 59.8'	+0	00	+0 00	*1.00	*1.00	5.07	5.88	2.74
<i>Murrells Inlet</i>											
2527	Garden City Bridge, Main Creek	33° 34.7'	79° 00.2'	+1	19	+2 09	*0.84	*0.68	4.26	5.03	2.25
2529	Divine's Dock	33° 32.5'	79° 01.7'	+0	40	+1 18	*0.84	*0.84	4.22	5.06	2.27
2531	Smith's Dock	33° 32.7'	79° 02.7'	+1	01	+1 36	*0.86	*0.95	4.29	5.06	2.32
2533	Captain Alex's Marina, Parsonage Creek	33° 33.1'	79° 02.2'	+0	57	+1 28	*0.85	*0.68	4.30	5.16	2.28
2535	Oaks Creek, 0.5 mi. above entrance	33° 31.8'	79° 02.6'	+0	38	+1 03	*0.85	*0.95	4.27	5.12	2.32
2537	Allston Creek	33° 31.9'	79° 03.2'	+0	52	+1 32	*0.84	*0.95	4.24	4.92	2.31
2539	Oaks Creek, upper end	33° 30.7'	79° 04.1'	+1	10	+1 43	*0.87	*1.05	4.35	5.22	2.37
2541	Litchfield Beach bridge	33° 28.3'	79° 06.1'	+1	10	+3 02	*0.58	*0.75	2.89	3.35	1.59
2543	Midway Inlet North, Pawleys Island	33° 26.9'	79° 06.7'	+0	16	+0 42	*0.87	*1.00	4.40	5.10	2.40
2545	Bennet's Dock, Pawleys Island Creek	33° 26.1'	79° 07.6'	+0	55	+1 35	*0.78	*1.21	3.84	4.61	2.15
2547	Pawleys Island Pier (ocean)	33° 25.9'	79° 07.0'	+0	06	+0 06	*0.98	*0.95	4.92	5.81	2.65
2549	Ward's Dock, Pawleys Inlet	33° 24.7'	79° 08.1'	+0	35	+2 07	*0.67	*0.95	3.32	3.98	1.84
2551	Oyster Landing, Crab Haul Creek, North Inlet	33° 21.1'	79° 11.2'	+1	08	+0 52	*0.92	*1.00	4.58	5.50	2.48
2553	Clambank Creek, Goat Island, North Inlet	33° 20.0'	79° 11.6'	+1	01	+0 36	*0.94	*1.00	4.69	5.53	2.54
<i>Intercoastal Waterway</i>											
<i>Little River Inlet to Winyah Bay</i>											
2555	Little River (town)	33° 52.2'	78° 36.5'	+0	13	+0 39	*0.84	*0.79	4.41	5.07	2.35
2557	Nixon Crossroads	33° 51.3'	78° 38.9'	+0	27	+0 51	*0.78	*0.68	4.10	4.55	2.18
2559	Myrtle Beach Airport	33° 49.2'	78° 43.1'	+1	09	+1 47	*0.56	*0.84	2.88	3.34	1.60
2561	North Myrtle Beach	33° 46.0'	78° 48.9'	+2	15	+3 12	*0.36	*0.84	1.78	2.10	1.25
2563	Myrtle Beach, Combination Bridge	33° 42.8'	78° 55.3'	+2	56	+4 18	*0.35	*0.89	1.71	2.02	1.03
2565	Socastee Bridge	33° 41.2'	79° 00.3'	+3	27	+4 41	*0.41	*0.74	2.08	2.45	1.18
<i>Winyah Bay</i>											
2567	Winyah Bay Entrance (South Jetty)	33° 11'	79° 09'	-0	21	-0 24	*0.87	*0.89	4.6	5.4	2.5
2569	Georgetown Lighthouse	33° 13.4'	79° 11.1'	+0	26	+0 25	*0.75	*1.05	3.89	4.51	2.15
2571	South Island Plantation (C.G. Station)	33° 14.1'	79° 12.2'	+0	35	+0 36	*0.74	*0.84	3.81	4.38	2.07
2573	South Island Ferry, Intracoastal Waterway	33° 15.1'	79° 16.1'	+0	54	+1 25	*0.71	*0.74	3.69	4.24	1.99
2575	Frazier Point	33° 19'	79° 17'	+1	26	+2 07	*0.66	*0.68	3.5	4.1	1.8
2577	Georgetown	33° 21.7'	79° 16.8'	+1	25	+2 09	*0.71	*0.79	3.72	4.32	2.01
2579	Jacobs Wharf	33° 21.8'	79° 21.3'	+2	15	+2 22	*0.73	*0.74	3.84	4.45	2.06
2581	Cumberland	33° 22.2'	79° 26.0'	+2	42	+2 29	*0.77	*0.74	4.02	4.74	2.15
<i>Great Pee Dee River</i>											
2583	Windsor Plantation, Black River	33° 24.9'	79° 15.0'	+2	00	+2 45	*0.66	*0.74	3.45	3.97	1.86
2585	Black River (south of Dunbar)	33° 30.7'	79° 20.5'	+3	29	+4 09	*0.47	*0.89	2.42	2.81	1.38
2587	Winea Plantation, Black River	33° 32.1'	79° 23.3'	+4	23	+4 39	*0.47	*0.84	2.37	2.73	1.34
2589	Mt. Pleasant Plantation, Black River	33° 29.7'	79° 27.7'	+5	38	+6 04	*0.37	*1.05	1.82	2.11	1.11
2591	Rhems, Black Mingo Creek, Black River	33° 36.2'	79° 25.6'	+6	00	+6 13	*0.36	*1.05	1.75	2.03	1.08
2593	Weymouth Plantation	33° 27.3'	79° 12.3'	+2	16	+3 02	*0.68	*0.89	3.56	4.13	1.95
2595	Carr Creek, 1 mile above entrance	33° 27.9'	79° 11.2'	+2	13	+3 00	*0.69	*0.84	3.62	4.20	1.97
2597	South of Sam Worth Game Management Area	33° 28.1'	79° 11.3'	+2	21	+3 06	*0.69	*0.68	3.66	4.25	1.96
2599	Arundel Plantation	33° 29.0'	79° 10.7'	+2	38	+3 39	*0.53	*0.79	2.75	3.19	1.53
2601	Holly Grove Plantation	33° 33.1'	79° 10.6'	+3	20	+4 12	*0.50	*0.68	2.59	3.00	1.43
2603	Lower Topsaw Landing	33° 36.5'	79° 09.1'	+4	48	+5 20	*0.20	*0.53	0.96	1.13	0.58
2605	Yauhannah Bridge	33° 39.6'	79° 09.3'	+4	33	+5 24	*0.33	*0.68	1.66	1.91	0.96

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				
		North	West	h	m	ft	ft	ft	ft	ft	
SOUTH CAROLINA Winyah Bay—cont. Time meridian, 75° W											
on Charleston, p.144											
<i>Waccamaw River</i>											
2607	Entrance	33° 22.0'	79° 15.3'	+1	19	+2 11	*0.69	*0.58	3.60	4.14	1.91
2609	Hagley Landing	33° 26.1'	79° 10.9'	+1	58	+2 53	*0.67	*0.79	3.47	3.99	1.88
2611	Thoroughfare Creek entrance	33° 30.4'	79° 08.8'	+2	32	+3 15	*0.64	*0.89	3.34	3.94	1.84
2613	Wachesaw Landing	33° 33.6'	79° 05.1'	+3	11	+4 00	*0.53	*0.84	2.74	3.18	1.53
2615	Bull Creek entrance	33° 35.8'	79° 05.9'	+3	36	+4 22	*0.48	*0.79	2.46	2.85	1.38
2617	Little Bull Creek entrance, Bull Creek	33° 36.1'	79° 07.1'	+3	59	+4 43	*0.46	*0.84	2.35	2.73	1.33
2619	Bucksport	33° 38.8'	79° 05.7'	+4	23	+4 53	*0.43	*0.89	2.16	2.48	1.25
2621	Enterprise Landing	33° 40'	79° 04'	+5	01	+5 35	*0.38	*0.37	2.0	2.4	1.1
2623	Keysfield	33° 44.7'	79° 03.9'	+6	09	+6 20	*0.28	*0.89	1.37	1.59	0.85
2625	Pitch Landing	33° 48.0'	79° 03.3'	+7	25	+7 30	*0.20	*0.74	0.94	1.09	0.61
2627	Conway, RR. bridge	33° 50.1'	79° 02.5'	+7	19	+7 28	*0.25	*0.74	1.24	1.44	0.76
2629	Grahamville	33° 49.8'	78° 57.2'	+8	17	+8 32	*0.20	*0.58	0.97	1.13	0.60
2631	North Santee River Inlet	33° 08'	79° 15'	-0	09	+0 04	*0.85	*0.84	4.5	5.3	2.3
2633	Cedar Island, North Santee Bay	33° 08.4'	79° 14.7'	-0	03	+0 17	*0.80	*0.95	4.19	4.86	2.28
2635	Minim Creek ent., ICWW, North Santee Bay	33° 11.7'	79° 16.5'	+0	16	+1 00	*0.77	*0.95	3.98	4.70	2.18
2637	North Santee Bridge	33° 12.6'	79° 23.1'	+1	09	+1 54	*0.72	*0.74	3.8	4.2	2.0
2639	Cedar Island Point, South Santee River	33° 07.2'	79° 16.2'	-0	16	+0 08	*0.78	*0.79	4.1	4.8	2.1
2641	Brown Island, South Santee River	33° 09'	79° 20'	+0	27	+1 31	*0.78	*0.79	4.1	4.8	2.1
2643	U.S. Highway 17 bridge, South Santee River	33° 11.1'	79° 24.4'	+0	43	+1 43	*0.78	*0.95	4.07	4.68	2.20
2645	Pleasant Hill Landing, Santee River	33° 14.7'	79° 31.3'	+2	28	+3 47	*0.45	*0.74	2.30	2.71	1.29
2647	Jamestown Bridge, Santee River	33° 18.3'	79° 40.7'	+4	15	+6 30	*0.22	*0.37	1.12	1.29	0.63
2649	Cape Romain	33° 01'	79° 21'	-0	22	-0 17	*0.89	*0.89	4.7	5.5	2.5
2651	Cape Romain, 46 miles east of	33° 06'	78° 26'	-1	05	-1 13	*0.78	*0.79	4.1	4.8	2.1
2653	Casino Creek, ICWW	33° 06.5'	79° 23.6'	+0	40	+0 53	*0.87	*0.79	4.55	5.37	2.42
<i>Bulls Bay</i>											
2655	Five Fathom Creek entrance	33° 00'	79° 30'	-0	06	-0 07	*0.93	*0.95	4.9	5.8	2.6
2657	McClellanville, Jeremy Creek	33° 04.7'	79° 27.6'	+0	31	+0 24	*0.93	*0.89	4.86	5.59	2.60
2659	Harbor River entrance	33° 02.0'	79° 32.1'	+0	03	+0 36	*0.93	*0.95	4.9	5.8	2.6
2661	Buck Hall, Awendaw Creek	33° 02.4'	79° 33.6'	+0	22	+0 37	*0.95	*1.00	4.97	5.77	2.67
2663	Jack Creek entrance	32° 56'	79° 35'	-0	14	-0 15	*0.95	*0.95	5.0	5.9	2.7
2665	Wharf Creek entrance	32° 55'	79° 37'	+0	12	-0 08	*0.97	*0.95	5.1	6.0	2.7
2667	Moores Landing, ICWW, Sewee Bay	32° 56.2'	79° 39.3'	+0	11	+0 08	*0.96	*1.00	5.04	5.85	2.71
2669	Price Creek, North Capers Island	32° 52.9'	79° 39.5'	-0	01	-0 21	*0.92	*0.89	4.80	5.52	2.57
2671	Old Capers Landing, Santee Pass, Capers Island	32° 52.2'	79° 41.2'	+0	21	-0 09	*0.94	*0.84	4.93	5.67	2.62
2673	North Dewees Island, Capers Inlet	32° 51.0'	79° 42.2'	-0	02	-0 11	*0.91	*0.95	4.76	5.62	2.56
2675	Capers Creek, South Capers Island	32° 51.4'	79° 42.4'	+0	04	-0 15	*0.94	*0.95	4.89	5.62	2.63
2677	South Dewees Island, Dewees Inlet	32° 50.0'	79° 43.6'	-0	01	-0 17	*0.94	*0.89	4.93	5.67	2.63
2679	Hamlin Sound	32° 49.6'	79° 47.2'	+0	13	-0 13	*0.99	*1.00	5.19	5.97	2.78
2681	Isle of Palms Pier	32° 47.0'	79° 47.1'	-0	25	-0 28	*0.95	*0.89	4.94	5.68	2.65
2683	Hamlin Creek, Isle of Palms	32° 47.2'	79° 47.5'	+0	06	-0 12	*0.97	*1.00	5.04	5.80	2.71
2685	Breach Inlet, Isle of Palms	32° 46.6'	79° 48.7'	-0	05	-0 14	*0.95	*1.05	4.94	5.68	2.66
2687	Sullivans Island (outer coast)	32° 46'	79° 50'	-0	08	-0 12	*0.99	*1.00	5.2	6.1	2.8
2689	Ben Sawyer Bridge, ICWW	32° 46.4'	79° 50.5'	+0	06	-0 12	*0.97	*1.00	5.05	5.81	2.71
<i>Charleston Harbor</i>											
2691	Fort Sumter	32° 45.2'	79° 52.6'	+0	02	-0 01	*0.97	*0.95	5.09	5.90	2.72
2693	The Cove, Fort Moultrie	32° 45.8'	79° 51.4'	-0	01	-0 10	*0.97	*0.95	5.08	5.84	2.72
2695	Fort Johnson	32° 45.1'	79° 53.9'	-0	05	-0 02	*0.97	*1.00	5.09	5.90	2.74
2697	Shem Creek	32° 47.6'	79° 52.9'	-0	02	-0 03	*0.99	*1.00	5.20	6.03	2.79
2699	CHARLESTON (Customhouse Wharf)	32° 46.9'	79° 55.5'	+0	20	<i>Daily predictions</i>			5.22	6.15	2.80
2701	Shipyard Creek, 0.8 mile above entrance	32° 50'	79° 57'	+0	34	+1 01	*1.00	*1.00	5.3	6.1	2.8
<i>Cooper River</i>											
2703	Clouter Creek, south entrance	32° 51.6'	79° 56.3'	+0	25	+0 19	*1.02	*1.00	5.35	6.31	2.87
2705	Goose Creek entrance	32° 54.6'	79° 57.1'	+0	42	+0 33	*1.04	*1.00	5.41	6.22	2.90
2707	Yeaman's Hall, Goose Creek	32° 55.5'	79° 59.2'	+2	06	+1 31	*1.00	*1.37	5.14	6.07	2.84
2709	Hanahan, Turkey Creek, Goose Creek	32° 55.1'	80° 00.7'	+2	51	+2 13	*0.90	*0.79	4.70	5.55	2.50
2711	Clouter Creek, north entrance	32° 54.4'	79° 56.1'	+0	45	+0 33	*1.04	*1.00	5.43	6.41	2.91
2713	Snow Point, 0.4 mi. North of	32° 56.9'	79° 55.9'	+0	59	+0 45	*1.02	*1.05	5.31	6.10	2.86
2715	General Dynamics Pier	33° 00.5'	79° 55.4'	+1	40	+1 24	*0.84	*1.11	4.35	5.03	2.39
2717	Dupont, Dean Hall	33° 03.5'	79° 56.2'	+2	21	+2 07	*0.68	*1.58	3.43	3.98	2.01
2719	Bonneau Ferry, East Branch	33° 04.3'	79° 53.0'	+3	14	+2 49	*0.63	*1.79	3.11	3.61	1.90
2721	Blessing Plantation, East Branch	33° 03.3'	79° 52.8'	+3	24	+3 20	*0.56	*1.32	2.79	3.29	1.64
2723	Richmond Plantation, East Branch	33° 04.6'	79° 51.3'	+3	43	+3 43	*0.54	*1.37	2.67	3.07	1.59
2725	Quinby Creek bridge, East Branch	33° 05.7'	79° 49.5'	+4	37	+4 12	*0.56	*1.42	2.75	3.25	1.65
2727	Huger Landing, East Branch	33° 07.8'	79° 48.7'	+4	46	---	---	---	---	---	---
2729	Old Rice Mill, West Branch	33° 04.7'	79° 55.5'	+2	56	+2 51	*0.53	*1.63	2.60	3.02	1.61
2731	Back River Reservoir, West Branch	32° 59.7'	79° 56.2'	+5	44	+5 57	*0.17	*0.79	0.78	0.90	0.54
2733	Pimlico, West Branch	33° 05.7'	79° 57.2'	+3	19	+3 53	*0.34	*0.89	1.69	1.94	1.01
<i>Wando River</i>											
2735	Hobcaw Point	32° 49.3'	79° 54.0'	+0	19	+0 13	*1.03	*0.95	5.39	6.20	2.88
2737	Parker Island, Horlbeck Creek	32° 53.1'	79° 50.7'	+0	43	+0 27	*1.09	*1.11	5.70	6.73	3.06
2739	Nowell Creek	32° 54.0'	79° 54.0'	+0	47	+0 23	*1.13	*1.05	5.91	6.80	3.16
2741	Cainhoy	32° 55.6'	79° 49.8'	+0	49	+0 31	*1.15	*1.00	6.02	6.92	3.20
2743	Big Paradise Island	32° 54.9'	79° 44.8'	+1	24	+0 52	*1.24	*1.11	6.48	7.45	3.45
2745	Woodville	32° 55.2'	79° 44.0'	+2	07	+1 22	*1.19	*1.19	6.3	7.3	3.4
<i>Ashley River</i>											
2747	James Island Creek, 1 mi. above ent.	32° 44.7'	79° 56.9'	+0	17	+0 07	*1.02	*1.05	5.36	6.22	2.88
2749	Wappoo Creek, highway bridge	32° 46.0'	79° 58.4'	+0	22	+0 22	*0.99	*0.99	5.2	6.0	2.8
2751	South Ashley Bridge	32° 47.0'	79° 57.4'	+0	04	+0 07	*1.01	*1.05	5.34	6.19	2.87
2753	Duck Island	32° 49.8'	79° 58.0'	+0	23	+0 17	*1.06	*1.06	5.6	6.5	3.0
2755	Cosgrove Bridge	32° 50.1'	79° 59.2'	+0	25	+0 17	*1.07	*1.05	5.57	6.57	2.99

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 CAROLINA Charleston Harbor—cont. Time meridian, 75° W	North	West	h m	h m	ft	ft	ft	ft	ft	
on Charleston, p.144											
2757	Ashley River—cont. I-526 bridge	32° 50.2'	80° 01.3'	+0 30	+0 29	*1.08	*1.11	5.68	6.53	3.05	
2759	Drayton, Bee's Ferry	32° 50.9'	80° 03.1'	+0 41	+0 39	*1.09	*1.05	5.69	6.54	3.05	
2761	Magnolia Gardens	32° 52.6'	80° 04.9'	+0 102	+0 54	*1.10	*1.05	5.79	6.72	3.10	
2763	Greggs Landing, Mateeba Gardens	32° 55.7'	80° 09.3'	+2 06	+1 42	*1.15	*1.16	6.06	7.03	3.25	
2765	Bacon Bridge	32° 57.5'	80° 12.2'	+2 45	+3 41	*0.39	*0.16	2.10	2.48	1.08	
SOUTH CAROLINA, outer coast—cont.											
2767	Secessionville, Secessionville Creek	32° 42.4'	79° 56.2'	+0 22	---	---	---	---	---	---	
2769	Folly Island (outer coast)	32° 39'	79° 56'	-0 08	-0 14	*0.98	*1.00	5.2	6.1	2.8	
2771	Folly River Bridge, Folly Island	32° 39.7'	79° 56.7'	+0 21	-0 03	*1.01	*0.95	5.27	6.06	2.22	
2773	Folly Creek, Hwy. 171 bridge	32° 40.5'	79° 57.1'	+0 25	-0 06	*1.04	*1.00	5.41	6.22	2.89	
2775	Folly River, north, Folly Island	32° 40.2'	79° 55.0'	+0 24	-0 05	*1.03	*0.95	5.38	6.19	2.87	
2777	Stono River	32° 38.4'	80° 00.9'	+0 01	-0 12	*1.01	*1.00	5.27	6.06	2.83	
2779	Snake Island	32° 40.6'	80° 00.4'	+0 17	+0 02	*1.01	*0.95	5.36	6.22	2.86	
2781	Abbapoola Creek entrance	32° 45.8'	80° 00.1'	+0 48	+0 52	*0.99	*1.16	5.14	5.91	2.79	
2783	Elliott Cut entrance	32° 46.1'	80° 04.2'	+1 23	+1 20	*1.03	*1.32	5.32	6.12	2.91	
2785	Pennys Creek, west entrance	32° 46.2'	80° 03.8'	+1 30	+1 18	*1.02	*1.02	5.26	6.21	2.91	
2787	Sandblasters, Pennys Creek	32° 47.2'	80° 06.3'	+1 43	+1 34	*1.08	*1.08	5.58	6.58	3.04	
2789	Limehouse Bridge	32° 44.8'	80° 09.9'	+1 51	+1 14	*1.22	*1.16	6.37	7.33	3.41	
2791	Church Flats	32° 36.2'	80° 07.9'	+0 14	+0 06	*1.07	*0.89	5.60	6.44	2.97	
North Edisto River											
2793	Ocella Creek, 2 mi. above entrance	32° 33.7'	80° 14.3'	+0 32	+0 09	*1.08	*1.08	5.7	6.6	3.0	
2795	Rockville, Bohicket Creek	32° 35.9'	80° 11.7'	+0 19	+0 07	*1.09	*1.11	5.76	6.68	3.09	
2797	Ho–Non–Wah Boy Scout Camp, Bohicket Creek	32° 37.5'	80° 10.0'	+0 49	+0 30	*1.13	*1.11	5.93	6.82	3.17	
2799	Oak Branch, Bohicket Creek	32° 41.0'	80° 05.8'	+1 39	+0 57	*1.26	*1.16	6.66	7.73	3.55	
2801	Point of Pines	32° 35.1'	80° 13.7'	+0 15	+0 11	*1.08	*1.05	5.66	6.51	3.04	
2803	Leadenwah Creek, 3 mi. above entrance	32° 38.2'	80° 12.1'	+0 54	+0 23	*1.15	*1.11	5.99	6.89	3.21	
2805	Steamboat Landing, Steamboat Creek	32° 36.2'	80° 17.2'	+0 45	+0 25	*1.15	*1.11	6.02	6.92	3.22	
2807	Windor Plantation, Russel Creek	32° 35.9'	80° 20.7'	+1 16	+0 35	*1.21	*1.11	6.40	7.42	3.41	
2809	Dawho Bridge, Dawho River	32° 38.2'	80° 20.5'	+0 56	+0 47	*1.18	*1.11	6.17	7.10	3.29	
2811	Park Island, Tom Point Creek	32° 39.9'	80° 19.0'	+1 19	+0 34	*1.21	*1.21	6.40	7.42	3.43	
2813	Toogoodoo Creek, 2 mi. above entrance	32° 40.1'	80° 17.6'	+1 06	+0 38	*1.21	*1.05	6.36	7.31	3.38	
2815	Lower Toogoodoo Creek, 2 mi. above entrance	32° 42.2'	80° 16.7'	+1 26	+0 47	*1.29	*1.26	6.73	7.94	3.61	
Wadmalaw River											
2817	Bluff Point	32° 38.8'	80° 15.4'	+0 58	+0 31	*1.17	*1.11	6.13	7.05	3.28	
2819	Yonges Island	32° 41.7'	80° 13.4'	+1 22	+0 45	*1.24	*1.16	6.50	7.48	3.47	
2821	Johns Island, Church Creek	32° 42.4'	80° 09.4'	+1 43	+1 00	*1.30	*1.16	6.85	7.88	3.64	
2823	Church Creek bridge	32° 42.9'	80° 05.5'	+1 58	+0 58	*1.30	*1.00	6.93	8.04	3.66	
on Savannah River Ent., p.148											
2825	Edisto Beach, Edisto Island	32° 30.1'	80° 17.8'	-0 21	-0 29	*0.84	*0.95	5.75	6.61	3.08	
South Edisto River											
2827	Edisto Marina, Big Bay Creek entrance	32° 29.6'	80° 20.4'	-0 06	-0 13	*0.86	*0.91	5.96	6.85	3.18	
2829	Carters Dock, Big Bay Creek	32° 29.6'	80° 19.6'	+0 08	-0 07	*0.87	*0.91	5.97	6.87	3.18	
2831	Scott Creek, 0.5 mi. above ent., Big Bay Creek	32° 30.1'	80° 19.1'	+0 29	---	---	---	---	---	---	
2833	Peters Point, St. Pierre Creek	32° 32.4'	80° 20.4'	+0 22	+0 09	*0.88	*0.95	6.09	7.00	3.25	
2835	Fenwick Island	32° 33.6'	80° 25.1'	+0 15	+0 25	*0.90	*1.09	6.19	7.12	3.32	
2837	Pine Landing	32° 36.2'	80° 23.3'	+0 29	+0 45	*0.92	*0.95	6.29	7.30	3.36	
2839	Dawho River	32° 39.4'	80° 23.5'	+1 07	+1 31	*0.89	*0.95	6.15	7.07	3.29	
2841	Willtown Bluff, Edisto River	32° 40.9'	80° 25.0'	+1 34	+2 03	*0.83	*1.00	5.69	6.54	3.06	
2843	Hope Creek, Edisto River	32° 42.0'	80° 25.6'	+1 46	+2 13	*0.82	*1.05	5.62	6.46	3.04	
2845	Penny Creek, south of, Edisto River	32° 42.9'	80° 26.2'	+2 10	+2 43	*0.73	*1.18	4.97	5.72	2.75	
2847	Jacksonboro Camp	32° 45.2'	80° 27.0'	+2 46	+3 34	*0.59	*0.86	4.04	4.65	2.21	
2849	Canaday Landing, south of, Edisto River	32° 48.8'	80° 24.4'	+4 20	+5 34	*0.13	*0.32	0.84	0.97	0.49	
2851	Hart Bluff, Edisto River <24>	32° 55.6'	80° 23.9'	---	---	---	---	---	---	---	
St. Helena Sound											
2853	Otter Island	32° 28.6'	80° 25.2'	+0 04	+0 07	*0.87	*0.95	6.01	6.91	3.21	
2855	Johnson Creek Bridge, Hunting Island	32° 23.5'	80° 26.3'	+0 03	+0 03	*0.85	*0.86	5.88	6.76	3.13	
2857	Harbor River Bridge	32° 24.2'	80° 27.2'	+0 03	-0 06	*0.88	*0.95	6.09	7.00	3.25	
Ashpole River											
2859	Seabrook	32° 31.4'	80° 24.4'	+0 11	+0 18	*0.90	*0.91	6.2	7.3	3.3	
2861	Ashpole–Coosaw Cutoff, ICWW	32° 31.5'	80° 27.1'	+0 15	+0 23	*0.90	*0.91	6.20	7.19	3.30	
2863	Musselboro Island, Mosquito Creek	32° 34.7'	80° 26.9'	+1 21	+0 57	*0.90	*0.91	6.22	7.15	3.31	
2865	Hutchinson Island	32° 33.1'	80° 28.9'	+0 31	+0 44	*0.87	*0.91	6.01	6.97	3.20	
2867	Bluff Islands	32° 34.7'	80° 29.6'	+0 46	+1 04	*0.84	*0.91	5.79	6.72	3.10	
2869	Brickyard Ferry, swing bridge	32° 36.8'	80° 28.9'	+1 27	+1 34	*0.71	*0.86	4.82	5.59	2.60	
2871	Airy Hall Plantation	32° 37.9'	80° 28.3'	+1 57	+1 59	*0.60	*1.00	4.16	4.71	2.25	
2873	Ashepoo	32° 44.6'	80° 33.4'	+4 18	+4 00	*0.34	*1.05	2.18	2.53	1.32	
Morgan River											
2875	Village Creek Entrance	32° 26.7'	80° 30.2'	+0 17	+0 07	*0.93	*1.00	6.35	7.37	3.40	
2877	Village Creek Cemetery	32° 25.0'	80° 31.2'	+0 36	+0 15	*0.94	*0.95	6.45	7.48	3.43	
2879	Edding Point, Edding Creek	32° 26.8'	80° 32.0'	+0 31	+0 14	*0.93	*0.95	6.41	7.37	3.42	
2881	Jenkins Creek, 1 mi. above entrance	32° 26.4'	80° 33.2'	+0 41	+0 17	*0.98	*0.95	6.80	7.82	3.61	
2883	Jenkins Creek, Polawana Island	32° 25.2'	80° 34.6'	+0 55	+0 27	*1.01	*1.05	6.91	8.02	3.69	
2885	Lucy Point Creek entrance	32° 27.1'	80° 36.6'	+0 53	+0 33	*0.90	*0.88	6.32	7.33	3.21	

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
				Time		Height				
		Latitude	Longitude	High Water	Low Water	High Water	Low Water	Mean	Spring	
	SOUTH CAROLINA St. Helena Sound—cont. Time meridian, 75° W	North	West	h m	h m	ft	ft	ft	ft	ft
		on Savannah River Ent., p.148								
2887	Combahee River Bowles Island, New Chehaw River	32° 33.9'	80° 31.0'	+1 02	+0 42	*0.96	*1.00	6.59	7.64	3.51
2889	Wiggins, Chehaw River	32° 36.1'	80° 32.5'	+1 45	+1 20	*0.88	*1.18	6.03	6.93	3.28
2891	Fields Point	32° 34.0'	80° 33.7'	+0 42	+0 52	*0.91	*0.91	6.2	7.3	3.3
2893	Railroad Bridge	32° 35.4'	80° 37.8'	+1 37	---	---	---	---	---	—
2895	U.S. 17 Bridge	32° 39.1'	80° 41.0'	+3 00	+2 29	*0.71	*1.14	4.83	5.55	2.66
2897	Bluff Plantation	32° 41.0'	80° 44.3'	+4 17	+3 51	*0.50	*1.59	3.12	3.59	1.95
2899	Cuckolds Creek	32° 42.8'	80° 41.7'	+4 45	+4 12	*0.51	*1.73	3.26	3.81	2.01
2901	Coosaw River Summerhouse Point, Bull River	32° 31.6'	80° 34.4'	+0 55	+0 37	*0.96	*0.95	6.58	7.63	3.50
2903	Briars Creek ent., Wimbee Creek, Bull River	32° 34.7'	80° 40.2'	+2 06	+1 24	*0.93	*0.95	6.39	7.35	3.41
2905	Sams Point, Lucy Point Creek	32° 29.0'	80° 35.9'	+0 55	+0 45	*0.97	*0.91	6.71	7.78	3.55
2907	Brickyard Point, Brickyard Creek	32° 29.6'	80° 41.1'	+1 27	+1 19	*1.08	*0.95	7.45	8.64	3.94
2909	Whale Branch entrance	32° 31.5'	80° 40.5'	+1 27	+1 20	*1.06	*0.95	7.32	8.49	3.87
2911	Lobeco, Whale Branch	32° 34.4'	80° 44.7'	+1 40	+1 28	*1.11	*0.95	7.75	8.91	4.08
2913	Sheldon, Huspa Creek, Whale Branch	32° 35.0'	80° 47.0'	+2 11	+1 52	*1.16	*0.77	8.07	9.28	4.21
2915	Fripps Inlet, Hunting Island Bridge	32° 20.4'	80° 27.9'	-0 10	-0 22	*0.88	*0.91	6.10	7.02	3.25
	Port Royal Sound									
2917	Capers Island, Trenchards Inlet	32° 16.4'	80° 35.1'	-0 01	-0 18	*0.93	*0.95	6.37	7.39	3.39
2919	Club Bridge Creek ent., Trenchards Inlet	32° 20.1'	80° 32.5'	+0 15	-0 24	*0.99	*1.00	6.78	7.86	3.61
2921	Port Royal Plantation, Hilton Head Island	32° 13.2'	80° 40.1'	+0 01	-0 11	*0.88	*1.00	6.10	7.02	3.27
2923	The Folly, Hilton Head Island	32° 11.4'	80° 42.1'	+0 03	—	—	—	—	—	—
2925	Station Creek, west end	32° 16.8'	80° 38.3'	+0 16	+0 13	*0.96	*0.91	6.62	7.68	3.51
2927	Station Creek, County Landing	32° 19.5'	80° 36.1'	+0 27	-0 16	*0.99	*1.00	6.84	7.87	3.64
	Beaufort River									
2929	Fort Fremont	32° 18.4'	80° 38.7'	+0 19	+0 17	*0.95	*0.64	6.63	7.69	3.45
2931	Parris Island, Marine Corps Recruit Depot	32° 21.0'	80° 40.1'	+0 37	+0 26	*1.02	*0.91	7.02	8.14	3.71
2933	Distant Island, Cowen Creek	32° 22.7'	80° 38.0'	+0 43	+0 27	*1.06	*1.05	7.29	8.46	3.87
2935	Distant Island Creek, upper end, Cowen Creek	32° 24.1'	80° 39.2'	+1 00	+1 08	*0.98	*0.36	6.92	7.96	3.54
2937	Capers Creek, Cowen Creek, St. Helena Island	32° 22.3'	80° 36.3'	+0 58	+0 34	*1.08	*0.95	7.44	8.63	3.93
2939	Cowen Creek, Rt. 21 bridge	32° 23.9'	80° 37.0'	+0 55	+0 58	*1.00	*0.55	6.97	8.09	3.61
2941	Battery Creek, 4 mi. above entrance	32° 24.8'	80° 42.0'	+1 14	+0 37	*1.10	*0.91	7.64	8.79	4.02
2943	Beaufort	32° 25.8'	80° 40.5'	+1 09	+0 51	*1.07	*0.95	7.39	8.17	3.90
2945	Marine Corps Air Station, Brickyard Creek	32° 27.9'	80° 41.5'	+1 27	+1 11	*1.10	*0.95	7.62	8.84	4.02
2947	Albergo Creek, Rt. 21 bridge	32° 27.0'	80° 43.9'	+1 48	+2 02	*0.98	*0.45	6.83	7.92	3.52
2949	Skull Creek, north entrance, Hilton Head Island	32° 16.0'	80° 44.2'	+0 15	+0 16	*0.99	*0.91	6.83	7.85	3.62
2951	Skull Creek, south entrance, Hilton Head Island	32° 13.4'	80° 46.3'	+0 34	+0 23	*1.05	*1.05	7.28	8.37	3.87
2953	Pinckney Island, Mackay Creek, Chechessee River	32° 15.6'	80° 46.0'	+0 36	+0 25	*1.04	*0.91	7.21	8.36	3.80
2955	Colleton River Entrance	32° 19.3'	80° 47.5'	+0 49	+0 37	*1.05	*1.05	7.2	8.4	3.8
2957	Callawassie Creek, Colleton River	32° 19.0'	80° 50.5'	+1 15	+0 53	*1.13	*1.14	7.8	9.1	4.1
2959	Callawassie Island, south, Colleton River	32° 18.8'	80° 51.6'	+1 09	+0 40	*1.19	*1.11	7.7	9.0	4.1
2961	Callawassie Island Bridge, Colleton River	32° 20.5'	80° 51.4'	+1 12	+0 49	*1.13	*1.14	7.8	9.1	4.2
2963	Baileys Landing, Okatee River, Colleton River	32° 20.8'	80° 53.4'	+1 25	+0 57	*1.17	*1.05	8.09	9.30	4.28
2965	Chechessee Bluff, Chechessee River	32° 22.4'	80° 50.2'	+1 06	+0 48	*1.10	*1.00	7.62	8.84	4.03
	Broad River									
2967	Hwy. 170 bridge	32° 23.2'	80° 46.6'	+0 51	+0 45	*1.06	*0.91	7.35	8.45	3.88
2969	Broughton Point, Hazzard Creek	32° 24.6'	80° 53.0'	+1 34	+1 30	*1.10	*0.82	7.61	8.83	3.99
2971	Euhaw Creek, 2.5 mi. above entrance	32° 26.1'	80° 51.1'	+1 33	+1 09	*1.14	*0.91	7.92	9.19	4.16
2973	Salvesbarg Landing, West Branch Boyds Creek	32° 28.5'	80° 51.0'	+1 29	—	—	—	—	—	—
2975	Pilot Island, West Branch Boyds Creek	32° 30.3'	80° 51.8'	+1 50	+1 24	*1.15	*0.91	7.98	9.26	4.19
2977	Corning Landing, Whale Branch	32° 30.0'	80° 47.1'	+1 37	+1 25	*1.15	*0.77	8.00	9.28	4.17
2979	RR. Bridge, Hall Island	32° 31.3'	80° 50.3'	+1 39	+1 24	*1.17	*1.05	8.08	9.37	4.27
2981	Pocotaligo River, 4 mi. above entrance	32° 35.7'	80° 49.9'	+2 21	+1 48	—	—	—	—	—
2983	North Dawson Landing, Coosawhatchie River	32° 33.7'	80° 54.6'	+2 34	+2 10	*1.12	*1.14	7.71	8.94	4.10
2985	Tulifiny River, I-95 bridge	32° 36.1'	80° 54.2'	+3 24	+3 31	*0.73	*0.73	5.01	5.81	2.66
	Calibogue Sound									
2987	Braddock Point, Hilton Head Island	32° 06.8'	80° 49.8'	+0 05	-0 02	*0.98	*1.00	6.74	7.82	3.59
2989	Calibogue Cay, Broad Creek, Hilton Head Island	32° 09.2'	80° 47.7'	+0 20	+0 09	*1.04	*1.00	7.13	8.27	3.79
2991	Broad Creek, Hilton Head Island	32° 11.1'	80° 45.2'	+0 33	+0 17	*1.08	*1.05	7.48	8.60	3.97
2993	Haig Point, Daufuskie Island, Cooper River	32° 08.8'	80° 50.2'	+0 20	+0 10	*1.02	*1.00	7.05	8.18	3.74
2995	Bull Creek, Bull Island South, Cooper River	32° 09.9'	80° 51.4'	+0 28	+0 12	*1.05	*1.05	7.23	8.39	3.84
2997	Pine Island, Ramshorn Creek, Cooper River	32° 07.3'	80° 53.9'	+0 34	+0 28	*1.03	*0.91	7.17	8.25	3.78
2999	Savage L., Savage Creek, Bull Creek	32° 11.1'	80° 51.6'	+0 46	+0 19	*1.10	*1.00	7.56	8.77	4.00
	May River									
3001	Moreland Cemetery	32° 10.5'	80° 53.5'	+0 49	+0 23	*1.11	*0.77	7.73	8.97	4.04
3003	Bull Island North	32° 12.0'	80° 48.9'	+0 40	+0 25	*1.09	*1.05	7.52	8.72	3.99
3005	Bluffton	32° 13.8'	80° 51.7'	+1 00	+0 37	*1.16	*1.05	8.01	9.29	4.23
3007	Rose Dew Creek	32° 13.2'	80° 55.2'	+1 19	—	—	—	—	—	—
	New River									
3009	Bloody Point, Daufuskie Island	32° 04.9'	80° 52.7'	+0 01	+0 19	*0.98	*0.91	6.77	7.79	3.59
3011	Hargray Pier, Daufuskie Island	32° 05.9'	80° 53.9'	+0 19	+0 27	*1.01	*1.05	6.96	8.07	3.71
3013	Daufuskie Landing, Daufuskie Island	32° 06.2'	80° 53.7'	+0 30	+0 33	*1.01	*0.95	7.02	8.07	3.72
3015	Doughboy Island	32° 08.3'	80° 55.9'	+1 04	+1 06	*1.01	*1.05	6.96	8.07	3.71
3017	Good Hope Landing, south of	32° 10.6'	80° 58.0'	+2 19	+2 06	*0.85	*1.55	5.71	6.62	3.20
3019	Cook Landing Cemetery	32° 11.7'	81° 00.0'	+3 09	+3 00	*0.69	*1.41	4.58	5.31	2.60
3021	Rt. 170 bridge	32° 14.2'	81° 00.7'	+4 12	+3 53	*0.51	*0.51	3.33	3.83	2.01
3023	Fields Cut, Wright River	32° 05.2'	80° 56.0'	+0 16	+0 29	*1.02	*1.05	6.98	8.10	3.72
3025	Turnbridge Landing, Salt Water Creek	32° 07.7'	81° 00.7'	+1 41	+0 59	*1.06	*1.09	7.27	8.43	3.87

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				
		North	West	h	m	h	m	ft	ft	ft	
	GEORGIA Time meridian, 75° W			on Savannah River Ent., p.148							
	Savannah River										
3027	Tybee Light	32° 02'	80° 51'	-0 10	-0 12	*0.99	*0.99	6.8	8.0	3.6	
3029	SAVANNAH RIVER ENTRANCE, FORT PULASKI	32° 02.0'	80° 54.1'	+0 29	+0 42	Daily predictions		6.92	8.03	3.67	
3031	Fort Jackson	32° 04.9'	81° 02.2'	+0 44	+0 33	*1.09	*1.09	7.50	8.70	4.04	
3033	Savannah, Bull Street	32° 05'	81° 05'	+0 44	+0 41	*1.14	*1.14	7.9	8.8	4.2	
3035	Port Wentworth	32° 08.6'	81° 08.5'	+0 44	+0 41	*1.17	*0.95	8.14	9.12	4.28	
3037	Little Back River, Hwy. 17, Back River, S.C.	32° 09.9'	81° 07.8'	+1 28	+1 41	*1.10	*1.14	7.63	8.55	4.06	
3039	S.C.L. RR. bridge	32° 14'	81° 09'	+1 51	+3 08	*0.90	*0.91	6.2	7.2	3.3	
3041	Purrysburg Landing, S.C.	32° 18.2'	81° 07.3'	+2 14	+3 38	*0.44	*0.41	3.03	3.48	1.60	
	Tybee Creek and Wassaw Sound										
3043	Tybee Creek entrance	31° 59'	80° 51'	-0 09	+0 05	*0.99	*1.00	6.8	8.0	3.6	
3045	Beach Hammock	31° 57'	80° 56'	-0 01	-0 07	*1.00	*1.00	6.9	8.1	3.7	
3047	Romerly Marsh Creek	31° 56'	81° 00'	+0 08	-0 03	*1.03	*1.03	7.1	8.3	3.7	
	Wilmington River										
3049	Savannah Sheraton Resort Hotel	32° 00'	81° 00'	+0 14	+0 06	*1.13	*1.14	7.8	9.1	4.2	
3051	Thunderbolt	32° 02'	81° 03'	+0 32	+0 12	*1.15	*1.14	7.9	9.2	4.2	
3053	North entrance	32° 04'	81° 00'	+0 40	+0 44	*1.10	*1.09	7.6	8.9	4.0	
3055	Isle of Hope, Skidaway River	31° 59'	81° 03'	+0 50	+0 28	*1.13	*1.13	7.8	9.1	4.1	
	Ossabaw Sound										
3057	Egg Islands	31° 50'	81° 05'	+0 04	+0 10	*1.04	*1.04	7.2	8.4	3.8	
3059	Vernon View, Burnside River	31° 56'	81° 06'	+0 40	+0 31	*1.09	*1.09	7.5	8.8	4.0	
3061	Coffee Bluff, Forest River	31° 56'	81° 09'	+1 05	+0 42	*1.09	*1.09	7.5	8.8	3.9	
3063	Fort McAllister, Ogeechee River	31° 53'	81° 13'	+0 48	+1 16	*1.00	*1.00	6.9	8.1	3.6	
3065	Highway bridge, Ogeechee River	31° 59'	81° 17'	+3 19	+4 25	*0.15	*0.14	1.0	1.2	0.5	
3067	Florida Passage, Ogeechee River	31° 51'	81° 09'	+0 34	+0 46	*1.05	*0.91	7.3	8.5	3.8	
3069	Florida Passage, Bear River	31° 49'	81° 10'	+0 46	+0 49	*1.09	*0.95	7.6	8.8	4.0	
3071	Cane Patch Creek entrance	31° 49'	81° 09'	+0 55	+0 43	*1.05	*1.05	7.2	8.4	3.8	
3073	Bradley Point, Bradley River	31° 49'	81° 03'	+0 04	+0 13	*1.02	*0.95	7.0	8.2	3.7	
	St. Catherines and Sapelo Sounds										
3075	Walburg Creek entrance	31° 42'	81° 09'	+0 16	+0 21	*1.03	*1.00	7.1	8.3	3.8	
3077	Kilkenny Club, Kilkenny Creek	31° 47'	81° 12'	+0 48	+0 37	*1.09	*0.91	7.5	8.8	4.0	
3079	Bear River, (Range 'A' Light)	31° 47.6'	81° 10.9'	+0 42	+0 29	*1.06	*0.95	7.36	8.46	3.89	
3081	Bear River Entrance	31° 43.3'	81° 08.5'	+0 10	+0 13	*1.00	*0.86	6.97	8.12	3.67	
3083	Sunbury, Medway River	31° 46.0'	81° 16.7'	+0 55	+0 49	*1.05	*1.00	7.28	8.27	3.87	
3085	Belfast, Belfast River	31° 49'	81° 18'	+1 23	+1 10	*1.13	*1.14	7.8	9.1	4.2	
3087	North Newport River (Daymark 119)	31° 41'	81° 12'	+0 35	+0 31	*1.05	*1.00	7.2	8.4	3.8	
3089	North Newport River	31° 40'	81° 16'	+0 56	+0 36	*1.10	*1.09	7.6	8.9	4.0	
3091	South Newport Cut, N. Newport River	31° 40'	81° 16'	+1 01	+0 54	*1.08	*1.04	7.5	8.7	4.0	
3093	Halfmoon, Timmons River	31° 41.7'	81° 16.3'	+1 21	+1 09	*1.06	*1.05	7.35	8.45	3.90	
3095	Eagle Neck, South Newport River	31° 39'	81° 18'	+1 16	+1 06	*1.09	*1.00	7.5	8.8	4.0	
3097	Thomas Landing, S. Newport River	31° 39'	81° 15'	+0 57	+0 46	*1.06	*0.95	7.4	8.6	3.9	
3099	South Newport River (Daymark 135)	31° 34.5'	81° 11.4'	+0 22	+0 13	*1.00	*0.95	7.11	7.99	3.66	
3101	Dallas Bluff, Julianton River	31° 35'	81° 19'	+0 48	+1 04	*1.10	*1.09	7.6	8.9	4.0	
3103	Harris Neck, Barbour Island River	31° 37'	81° 16'	+0 54	+0 32	*1.08	*1.00	7.5	8.8	4.0	
3105	Barbour Island, Barbour Island River	31° 35'	81° 14'	+0 36	+0 24	*1.06	*1.00	7.3	8.5	3.9	
3107	Blackbeard Island	31° 32'	81° 12'	+0 18	+0 22	*1.00	*1.00	6.9	8.1	3.6	
3109	Dog Hammock, Sapelo River	31° 32'	81° 16'	+0 33	+0 22	*1.04	*0.91	7.2	8.4	3.8	
3111	Bellville Point, Sapelo River	31° 32'	81° 22'	+1 12	+1 02	*1.08	*0.86	7.5	8.8	3.9	
3113	Pine Harbor, Sapelo River	31° 33'	81° 22'	+1 03	+1 04	*1.05	*1.05	7.2	8.4	3.8	
3115	Eagle Creek, Mud River	31° 31'	81° 17'	+0 21	+0 19	*1.05	*1.05	7.2	8.4	3.8	
3117	Creighton Narrows Entrance, Crescent River	31° 29'	81° 20'	+0 49	+0 37	*1.08	*1.09	7.4	8.6	4.0	
3119	Mud River, Old Teakettle Cr.(Daymark 156)	31° 29.2'	81° 19.2'	+0 46	+0 33	*1.08	*1.00	7.50	8.43	3.97	
	Doboy and Altamaha Sounds										
3121	Old Tea Kettle Creek (Daymark 173)	31° 26'	81° 18'	+0 39	+0 39	*0.96	*0.82	6.7	7.8	3.5	
3123	Blackbeard Creek, Blackbeard Island	31° 29'	81° 13'	+0 19	+0 47	*0.94	*0.95	6.5	7.6	3.5	
3125	Old Tower, Sapelo Island	31° 23.4'	81° 17.3'	+0 15	+0 14	*0.99	*0.95	6.82	7.84	3.62	
3127	Hudson Creek entrance	31° 27'	81° 21'	+0 37	+0 31	*1.05	*1.05	7.2	8.4	3.8	
3129	Threemile Cut entrance, Darien River	31° 21'	81° 23'	+0 44	+0 55	*1.03	*1.05	7.1	8.3	3.7	
3131	Darien, Darien River	31° 22'	81° 26'	+1 08	+1 15	*1.06	*1.05	7.3	8.5	3.9	
3133	Rockdedundy River (Daymark 185)	31° 22.4'	81° 20.0'	+0 25	+0 26	*1.00	*1.00	6.86	8.03	3.68	
3135	Wolf Island, south end	31° 20'	81° 19'	+0 25	+0 45	*0.97	*1.09	6.7	7.8	3.6	
3137	Champney Island, South Altamaha River	31° 20'	81° 28'	+1 10	+2 33	*0.76	*0.77	5.2	6.1	2.8	
3139	Hampton River entrance	31° 13'	81° 19'	+0 16	+0 04	*0.96	*0.95	6.6	7.8	3.5	
3141	Jones Creek entrance, Hampton River	31° 18'	81° 20'	+1 03	+0 13	*1.05	*1.05	7.2	8.5	3.8	
	St. Simons Sound										
3143	St. Simons Sound Bar	31° 06'	81° 19'	-0 01	-0 02	*0.95	*0.95	6.5	7.6	3.4	
3145	St. Simons Light	31° 07.9'	81° 23.8'	+0 14	+0 16	*0.95	*0.91	6.60	7.72	3.50	
3147	Frederick River Bridge	31° 10'	81° 25'	+0 43	+0 45	*1.00	*1.09	6.9	8.0	3.7	
3149	Frederica River	31° 13'	81° 24'	+0 48	+0 56	*1.05	*1.05	7.2	8.4	3.8	
3151	Mackay River (Daymark 239)	31° 13'	81° 26'	+0 58	+0 56	*1.03	*1.09	7.1	8.3	3.8	
3153	Mackay River (ICWW), Buttermilk Sound	31° 17.1'	81° 23.1'	+0 58	+1 23	*1.00	*1.09	6.87	7.90	3.68	
3155	Brunswick, East River, Howe Street Pier	31° 08.6'	81° 29.8'	+0 44	+0 35	*1.03	*1.00	7.13	8.27	3.78	

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				
	GEORGIA St. Simons Sound—cont. Time meridian, 75° W	North	West	h	m	ft	ft	ft	ft	ft	
on Savannah River Ent., p.148											
3157	Turtle River Crispen Island	31° 13'	81° 33'	+1	33	+0 55	*1.15	*1.05	7.9	9.3	4.2
3159	Allied Chemical Corp. docks	31° 11'	81° 31'	+1	03	+0 42	*1.10	*1.09	7.6	8.9	4.0
3161	Dillard Creek	31° 14'	81° 34'	+1	32	+1 02	*1.16	*1.18	8.0	9.4	4.3
3163	Buffalo River entrance	31° 13'	81° 35'	+1	37	+0 58	*1.16	*1.18	8.0	9.4	4.3
3165	Highway bridge, South Brunswick River	31° 09'	81° 34'	+1	07	+0 49	*1.10	*1.09	7.6	8.9	4.0
on Fernandina Beach, p.152											
3167	St. Andrew Sound Raccoon Key Spit	31° 00.8'	81° 27.3'	-0	19	+0 09	*1.09	*1.11	6.56	7.63	3.49
3169	Jekyll Island Marina, Jekyll Creek	31° 03.4'	81° 25.4'	+0	03	+0 36	*1.13	*1.16	6.83	7.85	3.63
3171	Joiner Island, Joiner Creek	31° 06'	81° 30'	+0	11	+0 31	*1.18	*1.18	7.2	8.4	3.8
Little Satilla River											
3173	2.5 miles above mouth	31° 04'	81° 30'	-0	04	+0 31	*1.12	*1.12	6.8	7.9	3.6
3175	8 miles above mouth	31° 06'	81° 34'	+0	24	+1 02	*1.20	*1.20	7.3	8.5	3.8
3177	Below Spring Bluff	31° 10'	81° 37'	+1	09	+1 31	*1.23	*1.23	7.5	8.7	3.9
3179	Dover Bluff, Dover Creek	31° 01'	81° 32'	+0	06	+0 31	*1.15	*1.15	7.0	8.1	3.7
Satilla River											
3181	Todd Creek entrance	30° 58'	81° 31'	-0	08	+0 41	*1.10	*1.10	6.7	7.8	3.5
3183	Bailey Cut, 0.8 mile west of	30° 59.1'	81° 35.5'	+0	28	+1 12	*1.13	*1.21	6.80	7.39	3.62
3185	Ceylon	30° 58'	81° 39'	+0	34	+1 35	*1.09	*1.09	6.6	7.7	3.5
3187	Burnt Fort	30° 57'	81° 54'	+3	55	+5 05	*0.53	*0.53	3.2	3.7	1.7
3189	Cumberland Wharf, Cumberland River	30° 55.8'	81° 26.8'	+0	00	+0 26	*1.12	*1.12	6.8	7.9	3.6
3191	Floyd Creek, 2.8 miles above entrance	30° 56'	81° 30'	+0	08	+0 21	*1.17	*1.17	7.1	8.2	3.7
GEORGIA and FLORIDA Cumberland Sound											
3193	St. Marys Entrance, North Jetty	30° 43'	81° 26'	-0	36	-0 03	*0.96	*0.96	5.8	6.7	3.1
3195	Kings Bay, Navy Base	30° 48.1'	81° 30.9'	+0	12	+0 10	*1.09	*1.05	6.43	7.39	3.42
3197	Beach Creek ent., Cumberland Island	30° 43.6'	81° 28.6'	+0	00	-0 04	*0.98	*0.95	5.92	6.81	3.14
3199	Seacamp Dock, Cumberland Island	30° 45.8'	81° 28.3'	+0	12	+0 16	*1.04	*1.05	6.23	7.16	3.31
3201	Crooked River, Cumberland Dividings	30° 50.6'	81° 29.2'	+0	44	+0 56	*1.12	*1.12	6.8	7.9	3.6
3203	Harriets Bluff, Crooked River	30° 52.2'	81° 35.1'	+1	29	+1 56	*1.05	*1.05	6.4	7.4	3.4
St. Marys River											
3205	St. Marys	30° 43.2'	81° 32.9'	+0	38	+0 45	*0.98	*1.05	5.86	6.74	3.13
3207	Crandall	30° 43.3'	81° 37.3'	+1	06	+1 25	*0.81	*1.00	4.84	5.57	2.61
3209	U.S. Highway 17	30° 44.5'	81° 41.3'	+2	30	- - -	- - -	- - -	- -	- -	- -
3211	Little St. Marys River	30° 43.9'	81° 43.6'	+2	49	+2 36	*0.71	*0.79	4.27	4.91	2.29
3213	Kings Ferry	30° 47.2'	81° 50.4'	+4	05	+4 09	*0.49	*1.16	2.83	3.25	1.63
3215	Chester, Bells River	30° 41.0'	81° 32.0'	+0	27	+0 19	*1.04	*1.11	6.27	7.21	3.34
3217	Roses Bluff, Bells River	30° 42.2'	81° 34.6'	+0	35	+0 35	*1.03	*0.95	6.18	7.11	3.28
3219	Lofton, Lanceford Creek	30° 38.6'	81° 31.4'	+0	18	-0 01	*1.05	*1.05	6.33	7.28	3.36
3221	FERNANDINA BEACH, Amelia River	30° 40.5'	81° 27.9'	Daily Predictions				6.02	7.07	3.20	
3223	Kingsley Creek, RR. bridge	30° 37.9'	81° 28.6'	+0	27	+0 25	*0.99	*1.00	5.97	6.87	3.18
FLORIDA Nassau Sound and Fort George River											
3225	Amelia City, South Amelia River	30° 35.2'	81° 27.8'	+0	21	+0 42	*0.89	*0.89	5.39	6.20	2.86
Nassau River											
3227	entrance	30° 31.1'	81° 27.2'	-0	18	+0 41	*0.86	*1.00	5.16	5.93	2.77
3229	Nassauville	30° 34.1'	81° 30.9'	+0	24	+1 09	*0.80	*1.00	4.75	5.46	2.56
3231	Tiger Point, Pumpkin Hill Creek	30° 30.1'	81° 29.7'	+1	22	+1 46	*0.82	*0.95	4.89	5.62	2.63
3233	Edwards Creek, 1 mi. above entrance	30° 30.1'	81° 32.5'	+1	24	+1 51	*0.77	*0.85	4.62	5.36	2.48
3235	Cuno, Lofton Creek	30° 34.6'	81° 34.3'	+2	14	+2 48	*0.60	*1.05	3.55	4.12	1.98
3237	Mink Creek entrance	30° 32.2'	81° 34.9'	+1	13	+2 05	*0.72	*1.05	4.26	4.90	2.33
3239	Halfmoon Island, highway bridge	30° 34.6'	81° 36.5'	+2	00	+2 39	*0.70	*1.05	4.16	4.78	2.28
3241	Boggy Creek, 2 mi. above entrance	30° 35.3'	81° 39.8'	+3	29	+3 50	*0.49	*0.89	2.90	3.34	1.62
3243	Sawpit Creek entrance, bridge	30° 30.8'	81° 27.4'	-0	14	+0 21	*0.84	*1.00	5.05	5.81	2.71
3245	Sawpit Creek, 1 mi. above entrance	30° 30.2'	81° 28.3'	+0	05	+0 31	*0.84	*0.74	5.08	5.84	2.68
3247	Simpson Creek, A1A highway bridge	30° 27.9'	81° 25.9'	+0	04	+0 17	*0.84	*0.63	5.08	5.84	2.66
3249	Little Talbot Island, ocean	30° 25.8'	81° 24.3'	-0	36	-0 13	*0.91	*1.00	5.45	6.27	2.91
3251	Fort George Island, Fort George River	30° 26.4'	81° 26.3'	+0	10	+0 33	*0.79	*0.74	4.78	5.50	2.53
FLORIDA, St. Johns River											
3253	Mayport Naval Station, Degausing Structure	30° 23.8'	81° 23.7'	-0	21	-0 04	*1.07	*1.13	4.87	5.36	2.61
3255	Mayport Naval Station, Water Treatment Dock	30° 24.0'	81° 24.8'	-0	12	-0 06	*1.03	*1.00	4.72	5.17	2.51
3257	MAYPORT (BAR PILOT DOCK)	30° 23.8'	81° 25.8'	Daily Predictions				4.57	5.32	2.44	
3259	Pablo Creek entrance	30° 22.6'	81° 26.9'	+0	29	+0 33	*0.85	*0.73	3.89	4.24	2.05
3261	Pablo Creek, ICWW bridge	30° 19.4'	81° 26.3'	+1	14	+1 20	*0.84	*1.00	3.82	4.16	2.06
3263	Sisters Creek	30° 25.0'	81° 27.2'	+0	32	+0 50	*0.95	*0.93	4.34	4.70	2.31
3265	Clapboard Creek, Pelotes Island	30° 24.4'	81° 30.6'	+0	32	+0 56	*0.79	*0.80	3.64	3.94	1.94
3267	Fulton	30° 23.4'	81° 30.4'	+0	24	+0 40	*0.80	*0.73	3.66	3.97	1.94
3269	Blount Island Bridge	30° 24.8'	81° 32.7'	+0	42	+1 05	*0.77	*0.73	3.51	3.80	1.87
3271	Dame Point	30° 23.2'	81° 33.5'	+0	42	+1 12	*0.70	*0.67	3.19	3.44	1.70
3273	Mill Cove	30° 22.2'	81° 33.5'	+0	51	- - -	- - -	- - -	- -	- -	- -
3275	Cedar Heights, Broward River	30° 26.2'	81° 38.5'	+1	08	+1 53	*0.65	*0.53	2.99	3.47	1.58
3277	Jacksonville, Navy Fuel Depot	30° 24.0'	81° 37.6'	+1	14	+1 48	*0.56	*0.53	2.60	2.81	1.37

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				
		North	West	h	m	ft	ft	ft	ft	ft	
	FLORIDA, St. Johns River—cont. Time meridian, 75° W			on Mayport, p.156							
3279	Trout River Moncrief Creek entrance	30° 23.5'	81° 39.7'	+1 11	+1 53	*0.55	*0.53	2.51	2.91	1.34	
3281	Lake Forest, Ribault River	30° 23.9'	81° 41.9'	+1 13	+2 10	*0.58	*0.60	2.64	2.82	1.41	
3283	Sherwood Forest	30° 25.2'	81° 43.7'	+1 42	+2 13	*0.58	*0.67	2.65	2.88	1.43	
3285	Phoenix Park	30° 23.0'	81° 38.2'	+1 02	+1 47	*0.56	*0.60	2.54	2.75	1.36	
3287	Jacksonville, Long Branch	30° 21.6'	81° 37.2'	+1 15	+1 54	*0.55	*0.73	2.49	2.89	1.35	
3289	Little Pottsburg Creek	30° 18.6'	81° 36.6'	+1 31	+2 09	*0.44	*0.53	2.02	2.34	1.09	
3291	Jacksonville, Main Street Bridge	30° 19.2'	81° 39.5'	+1 42	+2 13	*0.41	*0.73	1.83	2.03	1.03	
3293	Ortega River entrance	30° 16.7'	81° 42.3'	+2 09	+2 47	*0.25	*0.47	1.11	1.26	0.63	
3295	Piney Point	30° 13.7'	81° 39.8'	+2 39	+3 36	*0.20	*0.40	0.87	1.01	0.49	
3297	I-295 bridge (west end)	30° 11.5'	81° 41.5'	+2 56	+3 43	*0.21	*0.60	0.91	1.06	0.55	
3299	Orange Park Landing, Orange Park	30° 10.1'	81° 41.7'	+3 24	+4 44	*0.17	*0.53	0.74	0.87	0.45	
3301	Peoria Point, Doctors Lake	30° 07.2'	81° 45.5'	+3 36	+4 56	*0.18	*0.33	0.80	0.93	0.45	
3303	Julington Creek	30° 08.1'	81° 37.8'	+3 58	+5 13	*0.16	*0.47	0.71	0.83	0.43	
3305	Black Creek, S.C.L. RR. bridge	30° 04.8'	81° 45.7'	+4 46	+5 52	*0.18	*0.33	0.82	0.92	0.46	
3307	Green Cove Springs	29° 59.4'	81° 39.8'	+4 57	+5 55	*0.17	*0.27	0.78	0.90	0.43	
3309	Tocoi	29° 51.5'	81° 33.2'	+6 02	+7 03	*0.21	*0.27	0.95	1.10	0.51	
3311	Palmetto Bluff	29° 45.8'	81° 33.7'	+6 35	+7 36	*0.23	*0.47	1.04	1.18	0.59	
3313	Palatka	29° 38.6'	81° 37.9'	+7 11	+8 38	*0.25	*0.53	1.09	1.22	0.63	
3315	Sutherlands Still, Dunns Creek	29° 34.3'	81° 36.4'	+7 35	+9 05	*0.18	*0.20	0.84	0.97	0.45	
3317	Buffalo Bluff	29° 35.7'	81° 40.9'	+7 27	+8 58	*0.21	*0.40	0.93	1.03	0.52	
3319	Welaka	29° 28.6'	81° 40.5'	+7 16	+8 07	*0.10	*0.27	0.43	0.50	0.25	
3321	Georgetown <24>	29° 23.1'	81° 38.2'	---	---	---	---	---	---	---	
	FLORIDA, East Coast			on Fernandina Beach, p.152							
3323	Atlantic Beach	30° 20.1'	81° 23.7'	-0 41	-0 23	*0.86	*0.86	5.2	6.0	2.8	
3325	Jacksonville Beach	30° 17.0'	81° 23.2'	-0 50	-0 27	*0.84	*0.84	5.07	5.83	2.70	
3327	Oak Landing, ICWW	30° 15.2'	81° 25.8'	+2 15	+2 03	*0.68	*0.80	4.07	4.72	2.20	
3329	Palm Valley, ICWW	30° 08.0'	81° 23.2'	+2 00	+1 49	*0.79	*0.75	4.79	5.56	2.55	
3331	Vilano Beach, Tolomato River	29° 55.0'	81° 18.0'	-0 20	-0 05	*0.74	*0.90	4.48	5.20	2.42	
3333	St. Augustine, city dock	29° 53.5'	81° 18.6'	-0 20	+0 01	*0.75	*0.89	4.48	5.15	2.41	
3335	St. Augustine Beach	29° 51.4'	81° 15.8'	-0 51	-0 32	*0.77	*0.84	4.61	5.48	2.47	
	Matanzas River, ICWW			on Miami, Government Cut, p.164							
3337	State Road 312	29° 52.0'	81° 18.4'	-0 03	+0 15	*0.72	*1.00	4.31	5.04	2.34	
3339	Crescent Beach	29° 46.1'	81° 15.5'	+0 39	+1 14	*0.69	*0.95	4.09	4.79	2.23	
3341	Fort Matanzas	29° 42.9'	81° 14.3'	+0 03	+0 49	*0.65	*0.95	3.86	4.44	2.11	
3343	Matanzas Inlet, A1A bridge	29° 42.3'	81° 13.7'	-0 26	+0 00	*0.61	*0.84	3.64	4.21	2.05	
3345	Bing Landing	29° 36.9'	81° 12.3'	+2 15	+2 52	*0.26	*0.68	1.46	1.71	0.86	
3347	Smith Creek, Flagler Beach	29° 28.7'	81° 08.2'	+4 33	+5 00	*0.15	*0.30	0.86	1.00	0.49	
3349	Ormond Beach, Halifax River	29° 17.1'	81° 03.2'	+3 17	+4 31	*0.11	*0.45	0.60	0.70	0.39	
3351	Daytona Beach Shores, Sunglow Pier	29° 08.8'	80° 57.8'	-0 56	-0 42	*0.65	*0.84	3.90	4.49	2.11	
	Ponce de Leon Inlet	29° 03.8'	80° 54.9'	-0 11	+0 19	*1.17	*0.92	2.76	3.37	1.48	
3355	Ponce Inlet, Halifax River	29° 04.9'	80° 56.2'	+0 05	+0 33	*1.18	*1.00	2.75	3.36	1.52	
	Mosquito Lagoon			Daily predictions, p.160							
3357	New Smyrna Beach	29° 01.4'	80° 55.1'	+0 19	+0 49	*1.04	*1.00	2.43	2.77	1.36	
3359	Packwood Place	28° 56.4'	80° 52.2'	+1 43	+2 40	*0.44	*0.44	1.06	1.24	0.56	
3361	Turtle Mound	28° 55.6'	80° 49.5'	+3 01	+4 30	*0.17	*0.17	0.45	0.51	0.23	
3363	Oak Hill <22>	28° 52'	80° 50'	---	---	---	---	---	---	---	
3365	Cape Canaveral	28° 26'	80° 34'	-1 06	-0 44	*1.50	*1.42	3.5	4.1	2.0	
3367	PORt CANAVERAL (TRIDENT PIER)	28° 24.9'	80° 35.6'	-1 06	-0 38	*1.47	*1.14	3.47	4.13	1.89	
3369	Cocoa Beach	28° 22.1'	80° 36.0'	-1 01	-0 38	*1.50	*1.43	3.46	4.22	1.89	
3371	Patrick Air Force Base	28° 14.7'	80° 36.0'	-1 04	-0 38	*1.50	*1.43	3.50	4.20	1.95	
	Banana River			Banana River							
3373	Kennedy Pkwy., Banana Creek, Merritt I. <22>	28° 35.4'	80° 39.5'	---	---	---	---	---	---	---	
3375	VAB Turning Basin, Merritt Island <22>	28° 35.1'	80° 38.6'	---	---	---	---	---	---	---	
3377	Orsino Causeway <22>	28° 30.8'	80° 36.7'	---	---	---	---	---	---	---	
3379	Port Canaveral locks <22>	28° 24.5'	80° 38.3'	---	---	---	---	---	---	---	
3381	Sykes Creek <22>	28° 24.3'	80° 41.8'	---	---	---	---	---	---	---	
3383	Carter's Cut, Merritt Island <22>	28° 09.5'	80° 36.7'	---	---	---	---	---	---	---	
	Indian River			Indian River							
3385	Titusville <22>	28° 37.2'	80° 48.0'	---	---	---	---	---	---	---	
3387	Williams Point <22>	28° 27.4'	80° 45.6'	---	---	---	---	---	---	---	
3389	Pineda <22>	28° 12.7'	80° 39.8'	---	---	---	---	---	---	---	
3391	Canova Beach	28° 08.3'	80° 34.7'	-0 53	-0 26	*1.49	*1.50	3.45	4.14	1.93	
	Indian River – cont.			Indian River – cont.							
3393	Eau Gallie <22>	28° 08.0'	80° 37.5'	---	---	---	---	---	---	---	
3395	Melbourne <22>	28° 06.0'	80° 36.7'	---	---	---	---	---	---	---	
3397	Palm Bay <22>	28° 02.5'	80° 34.9'	---	---	---	---	---	---	---	
3399	Micco	27° 52.4'	80° 29.8'	+1 14	+2 19	*0.14	*0.57	0.26	0.31	0.21	
3401	Sebastian Inlet bridge	27° 51.6'	80° 26.9'	-0 48	-0 24	*0.93	*1.00	2.16	2.64	1.22	
	Indian River – cont.			Indian River – cont.							
3403	Sebastian	27° 48.7'	80° 27.8'	+1 32	+2 36	*0.15	*0.50	0.30	0.36	0.22	
3405	Wabasso	27° 45.3'	80° 25.6'	+2 20	+3 24	*0.17	*0.42	0.37	0.44	0.25	
3407	Vero Beach	27° 38.0'	80° 22.5'	+2 56	+3 41	*0.37	*0.79	0.80	0.96	0.51	
3409	Oslo	27° 35.6'	80° 21.4'	+3 00	+3 59	*0.34	*0.50	0.77	0.92	0.46	
3411	St. Lucie	27° 28.7'	80° 20.0'	+0 41	+1 46	*0.48	*1.00	1.05	1.26	0.66	
3413	Vero Beach (ocean)	27° 40.2'	80° 21.6'	-0 55	-0 35	*1.45	*1.36	3.39	4.03	1.88	
3415	Fort Pierce Inlet, south jetty	27° 28.2'	80° 17.3'	-0 31	-0 18	*1.14	*1.50	2.61	3.13	1.52	
3417	Fort Pierce Inlet, Binney dock	27° 28.1'	80° 17.8'	-0 14	-0 01	*0.82	*1.28	1.85	2.22	1.11	

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
				Time		Height				
		Latitude	Longitude	High Water	Low Water	High Water	Low Water	Mean	Spring	
	FLORIDA, East Coast—cont. Time meridian, 75° W	North	West	h	m	ft	ft	ft	ft	ft
		on Miami, Government Cut, p.164								
3419	Indian River – cont. Fort Pierce, North Beach Causeway	27° 28.3'	80° 19.5'	+0 21	+0 45	*0.67	*1.14	1.50	1.79	0.91
3421	Fort Pierce, South Beach Causeway	27° 27.4'	80° 19.4'	+0 35	+0 44	*0.64	*1.00	1.43	1.64	0.85
3423	Ankona	27° 21.3'	80° 16.5'	+2 16	+3 03	*0.52	*0.85	1.10	1.32	0.67
3425	Eden, Nettles Island	27° 17.2'	80° 13.6'	+2 35	+3 31	*0.45	*0.92	0.98	1.18	0.62
3427	Jensen Beach	27° 14.1'	80° 12.6'	+2 17	+3 04	*0.48	*0.92	1.05	1.26	0.65
	St. Lucie River									
3429	North Fork	27° 14.6'	80° 18.8'	+2 28	+3 28	*0.46	*0.92	0.99	1.19	0.63
3431	Stuart	27° 12.0'	80° 15.5'	+2 13	+3 30	*0.40	*0.86	0.88	1.06	0.56
3433	South Fork	27° 09.9'	80° 15.3'	+2 35	+3 32	*0.43	*0.92	0.93	1.12	0.59
3435	Sewall Point	27° 10.5'	80° 11.3'	+1 13	+2 10	*0.43	*0.93	0.93	1.11	0.59
3437	Port Salerno, Manatee Pocket	27° 09.1'	80° 11.7'	+0 51	+1 46	*0.42	*0.92	0.90	1.08	0.58
3439	Seminole Shores	27° 11.0'	80° 09.5'	-0 59	-0 35	*1.29	*1.28	3.00	3.60	1.68
3441	Great Pocket	27° 09.1'	80° 10.3'	+0 55	+1 42	*0.50	*1.00	1.08	1.30	0.68
3443	Peck Lake, ICWW	27° 06.8'	80° 08.7'	+1 13	+2 10	*0.58	*1.00	1.28	1.54	0.78
3445	Gomez, South Jupiter Narrows	27° 05.7'	80° 08.2'	+1 33	+2 37	*0.60	*1.07	1.32	1.58	0.81
3447	Hobe Sound bridge	27° 03.8'	80° 07.4'	+1 28	+2 25	*0.68	*1.00	1.53	1.84	0.90
3449	Hobe Sound, Jupiter Island	27° 02.2'	80° 06.4'	+1 16	+2 12	*0.75	*1.00	1.72	2.06	1.00
3451	Conch Bar, Jupiter Sound	26° 59.3'	80° 05.6'	+0 56	+1 34	*0.74	*1.07	1.68	2.02	0.99
3453	Jupiter Sound, south end	26° 57.1'	80° 04.7'	+0 22	+0 45	*0.88	*1.36	1.98	2.38	1.18
3455	Jupiter Inlet, south jetty	26° 56.6'	80° 04.4'	-0 10	-0 09	*1.08	*1.42	2.46	2.95	1.43
3457	Jupiter Inlet, U.S. Highway 1 Bridge	26° 56.9'	80° 05.1'	+0 28	+1 05	*0.86	*1.14	1.96	2.35	1.14
	Loxahatchee River									
3459	A1A highway bridge	26° 56.8'	80° 05.4'	+0 34	+0 54	*0.87	*1.14	2.00	2.40	1.16
3461	Tequesta	26° 57.0'	80° 06.1'	+0 59	+1 58	*0.80	*1.14	1.83	2.20	1.08
3463	Tequesta, North Fork entrance	26° 57.1'	80° 06.1'	+0 51	+1 42	*0.78	*0.92	1.80	2.16	1.03
3465	Tequesta, North Fork	26° 57.6'	80° 06.3'	+1 14	+2 13	*0.75	*1.00	1.72	2.06	1.00
3467	North Fork, 2 miles above entrance	26° 58.6'	80° 06.9'	+1 04	+1 55	*0.86	*1.14	1.95	2.34	1.14
3469	3 miles above A1A highway bridge	26° 58.2'	80° 07.5'	+0 56	+1 49	*0.86	*1.14	1.98	2.38	1.15
3471	Boy Scout Dock	26° 59.2'	80° 08.5'	+0 01	+1 57	*0.92	*1.36	2.09	2.51	1.23
3473	Southwest Fork, 0.5 mile above entrance	26° 56.6'	80° 07.2'	+0 41	+1 35	*0.89	*1.42	2.00	2.40	1.20
3475	Southwest Fork (spillway)	26° 56.1'	80° 08.6'	+0 52	+1 45	*0.86	*1.28	1.94	2.33	1.15
3477	Jupiter, Lake Worth Creek, ICWW	26° 56.1'	80° 05.1'	+0 34	+1 12	*0.91	*1.28	2.06	2.47	1.21
3479	Lake Worth Creek, Day Beacon 19, ICWW	26° 54.7'	80° 04.8'	+0 29	+1 08	*0.92	*1.21	2.10	2.52	1.22
3481	Donald Ross Bridge, ICWW	26° 52.9'	80° 04.2'	+0 20	+0 50	*1.00	*1.21	2.31	2.77	1.32
3483	PGA Boulevard Bridge, ICWW	26° 50.6'	80° 04.0'	-0 02	+0 31	*1.16	*1.36	2.68	3.22	1.53
	Lake Worth									
3485	North Palm Beach	26° 49.6'	80° 03.3'	-0 17	+0 15	*1.22	*1.29	2.81	3.34	1.59
3487	Port of Palm Beach	26° 46.2'	80° 03.1'	-0 21	+0 04	*1.18	*1.36	2.72	3.26	1.55
3489	Palm Beach	26° 44.0'	80° 02.5'	-0 11	+0 16	*1.17	*1.29	2.69	3.20	1.54
3491	Palm Beach, Highway 704 bridge	26° 42.3'	80° 02.7'	+0 18	+0 40	*1.10	*1.07	2.57	3.06	1.44
3493	West Palm Beach Canal	26° 38.7'	80° 02.7'	+0 48	+1 35	*1.07	*1.14	2.46	2.92	1.40
3495	Rt. 802 bridge	26° 36.8'	80° 02.8'	+0 42	+1 26	*1.18	*1.07	2.75	3.27	1.52
3497	Boynton Beach	26° 32.9'	80° 03.2'	+0 05	+2 07	*1.06	*1.07	2.47	2.94	1.38
3499	Lake Worth Pier (ocean)	26° 36.7'	80° 02.0'	-0 45	-0 19	*1.16	*1.00	2.73	3.25	1.50
3501	Ocean Ridge, ICWW	26° 31.6'	80° 03.2'	+1 16	+2 10	*1.10	*1.21	2.54	3.05	1.44
3503	Delray Beach, ICWW	26° 28.4'	80° 03.7'	+1 24	+2 07	*1.07	*1.14	2.47	2.94	1.40
3505	South Delray Beach, ICWW	26° 26.8'	80° 03.9'	+1 28	+2 03	*1.03	*1.10	2.37	2.82	1.34
3507	Yamato, ICWW	26° 24.2'	80° 04.2'	+1 22	+1 57	*1.02	*1.14	2.35	2.80	1.34
3509	Lake Wyman, ICWW	26° 22.2'	80° 04.2'	+1 24	+1 54	*0.93	*1.06	2.14	2.55	1.22
3511	Boca Raton, Lake Boca Raton	26° 20.6'	80° 04.6'	+0 23	+1 07	*0.97	*1.14	2.23	2.68	1.27
3513	Deerfield Beach, Hillsboro River	26° 18.8'	80° 04.9'	+0 28	+1 03	*1.02	*1.07	2.36	2.83	1.33
3515	Hillsboro Beach, ICWW	26° 16.5'	80° 04.8'	+0 02	+0 34	*1.06	*1.07	2.47	2.96	1.39
3517	Hillsboro Inlet, Coast Guard Light Station	26° 15.5'	80° 04.9'	-0 16	+0 03	*1.08	*1.14	2.49	2.96	1.41
3519	Hillsboro Inlet Marina	26° 15.6'	80° 05.1'	-0 06	+0 24	*1.06	*1.14	2.45	2.94	1.38
3521	Hillsboro Inlet (ocean)	26° 15.4'	80° 04.8'	-0 23	+0 00	*1.12	*1.21	2.60	3.12	1.47
3523	Lauderdale-by-the-Sea, Anglin Fishing Pier	26° 11.3'	80° 05.6'	-0 34	-0 13	*1.14	*1.28	2.64	3.17	1.50
	Fort Lauderdale									
3525	Bahia Mar Yacht Club	26° 06.8'	80° 06.5'	-0 05	+0 33	*1.05	*1.21	2.42	2.90	1.38
3527	Andrews Avenue bridge, New River	26° 07.1'	80° 08.7'	+0 15	+0 51	*0.92	*1.07	2.13	2.56	1.22
3529	Mayan Lake	26° 06.0'	80° 06.5'	+0 20	+1 02	*0.91	*1.00	2.11	2.53	1.19
3531	Port Everglades, Turning Basin	26° 05.5'	80° 07.4'	-0 29	-0 09	*1.09	*1.14	2.53	3.01	1.43
3533	South Port Everglades, ICWW	26° 04.9'	80° 07.0'	-0 23	-0 03	*1.10	*1.42	2.52	3.02	1.46
3535	Whiskey Creek, north end	26° 04.8'	80° 06.7'	-0 23	-0 06	*1.10	*1.28	2.52	3.02	1.44
3537	Port Laudania, Dania cut-off Canal	26° 03.6'	80° 07.8'	+0 01	+0 11	*1.00	*1.21	2.30	2.76	1.32
3539	Whiskey Creek, south entrance, ICWW	26° 03.3'	80° 06.8'	+0 04	+0 31	*0.96	*1.14	2.21	2.63	1.27
3541	Hollywood Beach, West Lake, north end	26° 02.6'	80° 07.6'	+1 08	+1 42	*0.85	*1.07	1.94	2.33	1.12
3543	Hollywood Beach, West Lake, south end	26° 02.0'	80° 07.4'	+1 02	+1 45	*0.88	*1.14	2.02	2.42	1.17
3545	Hollywood Beach	26° 02.4'	80° 06.9'	+0 37	+1 41	*0.91	*1.14	2.08	2.50	1.20
3547	Golden Beach, ICWW	25° 58.0'	80° 07.4'	+1 13	+1 57	*0.91	*1.07	2.10	2.52	1.20
3549	Dumfoundling Bay	25° 56.5'	80° 07.5'	+1 17	+2 07	*0.88	*1.00	2.02	2.40	1.15
3551	Sunny Isles, Biscayne Creek	25° 55.7'	80° 07.8'	+2 00	+2 24	*0.77	*0.71	1.8	2.2	1.0
3553	Biscayne Creek, ICWW	25° 52.8'	80° 09.8'	+0 47	+1 39	*0.93	*1.00	2.15	2.56	1.21
3555	North Miami Beach, Newport Fishing Pier	25° 55.8'	80° 07.2'	-0 22	+0 00	*1.08	*1.21	2.49	2.96	1.41
3557	Haulover Pier, N. Miami Beach	25° 54.2'	80° 07.2'	-0 29	-0 06	*1.06	*1.00	2.48	2.95	1.37
3559	Bakers Haulover Inlet (inside)	25° 54.2'	80° 07.5'	+0 57	+1 37	*0.87	*0.92	2.01	2.20	1.13
3561	Indian Creek Golf Club, ICWW	25° 52.5'	80° 08.6'	+1 13	+1 46	*0.92	*0.92	2.13	2.56	1.20
3563	Miami Harbor Entrance	25° 46.1'	80° 07.9'	-0 22	-0 02	*1.07	*1.14	2.46	2.93	1.39
3565	GOVERNMENT CUT, MIAMI HARBOR ENTRANCE Biscayne Bay	25° 45.8'	80° 07.8'				Daily predictions	2.32	2.83	1.32
3567	San Marino Island	25° 47.6'	80° 09.8'	+0 37	+0 58	*0.92	*1.00	2.14	2.57	1.21
3569	Miami, Miamarina	25° 46.7'	80° 11.1'	+0 20	+0 49	*0.94	*0.92	2.18	2.59	1.22
3571	Dodge Island, Fishermans Channel	25° 46.2'	80° 10.1'	+0 34	+1 10	*0.91	*1.00	2.10	2.52	1.19
3573	Dinner Key Marina	25° 43.6'	80° 14.2'	+0 54	+1 48	*0.84	*0.92	1.94	2.33	1.10

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				
		North	West	h	m	ft	ft	ft	ft	ft	
FLORIDA Florida Keys Time meridian, 75° W											
3575	Bear Cut, Virginia Key	25° 43.9'	80° 09.7'	+0 28	+0 51	*0.88	*0.86	2.05	2.44	1.15	
3577	Key Biscayne Yacht Club, Biscayne Bay	25° 41.9'	80° 10.2'	+0 44	+1 31	*0.86	*0.92	2.00	2.40	1.13	
3579	Coral Shoal, Biscayne Channel	25° 39.1'	80° 09.4'	+0 11	+0 37	*0.88	*0.92	2.05	2.46	1.15	
3581	Cutler, Biscayne Bay	25° 36.9'	80° 18.3'	+1 01	+1 58	*0.84	*0.92	1.94	2.22	1.10	
3583	Soldier Key	25° 35'	80° 10'	+0 30	+1 16	*0.81	*0.71	1.9	2.3	1.0	
3585	Ragged Keys, Biscayne Bay	25° 32.0'	80° 10.3'	+0 43	+1 18	*0.73	*1.00	1.65	1.96	0.96	
3587	Boca Chita Key, Biscayne Bay	25° 31.4'	80° 10.6'	+1 01	+1 39	*0.70	*1.14	1.57	1.88	0.94	
3589	Sands Key, northwest point, Biscayne Bay	25° 30.3'	80° 11.3'	+1 25	+2 26	*0.63	*0.64	1.46	1.64	0.82	
3591	Coon Point, Elliott Key, Biscayne Bay	25° 28.7'	80° 11.4'	+1 55	+2 56	*0.63	*0.71	1.44	1.63	0.82	
3593	Elliott Key Harbor, Elliott Key, Biscayne Bay	25° 27.2'	80° 11.8'	+1 56	+3 00	*0.64	*0.64	1.48	1.67	0.83	
3595	Turkey Point, Biscayne Bay	25° 26.2'	80° 19.7'	+2 11	+3 21	*0.70	*0.79	1.61	1.71	0.92	
3597	Billys Point, south of, Elliott Key, Biscayne Bay	25° 24.9'	80° 12.6'	+2 08	+3 20	*0.63	*0.64	1.46	1.65	0.82	
3599	Sea Grape Point, Elliott Key	25° 28.6'	80° 10.8'	-0 25	-0 05	*1.03	*1.03	2.30	2.74	1.39	
3601	Christmas Point, Elliott Key	25° 23.5'	80° 13.8'	+0 13	+0 37	*0.80	*1.07	1.82	2.13	1.06	
3603	Adams Key, south end, Biscayne Bay	25° 23.8'	80° 14.0'	+1 01	+1 08	*0.67	*1.00	1.52	1.75	0.90	
3605	Totten Key, west side, Biscayne Bay	25° 22.7'	80° 15.4'	+2 19	+3 21	*0.54	*0.57	1.26	1.41	0.71	
3607	East Arsenicker, Card Sound	25° 22.4'	80° 17.5'	+2 26	+3 09	*0.40	*0.64	0.91	1.04	0.54	
3609	Card Sound, western side	25° 20.7'	80° 19.9'	+2 51	+3 40	*0.30	*0.43	0.68	0.77	0.40	
3611	Pumpkin Key, south end, Card Sound	25° 19.5'	80° 17.6'	+2 35	+2 52	*0.30	*0.78	0.63	0.71	0.43	
3613	Wednesday Point, Key Largo, Card Sound	25° 18.6'	80° 17.9'	+2 38	+3 30	*0.34	*0.57	0.77	0.88	0.46	
3615	Cormorant Point, Key Largo, Card Sound	25° 17.4'	80° 20.3'	+2 45	+3 01	*0.32	*0.50	0.73	0.82	0.43	
3617	Little Card Sound bridge	25° 17.3'	80° 22.2'	+3 30	+4 03	*0.24	*0.43	0.53	0.63	0.33	
3619	Ocean Reef Harbor, Key Largo	25° 18.6'	80° 16.8'	-0 08	+0 17	*1.02	*1.50	2.30	2.74	1.36	
3621	Main Key, Barnes Sound	25° 14.4'	80° 24.0'	+5 04	+6 16	*0.19	*0.36	0.41	0.46	0.26	
3623	Manatee Creek, Manatee Bay, Barnes Sound	25° 14.1'	80° 25.8'	+5 14	+6 20	*0.18	*0.36	0.39	0.44	0.25	
3625	Manatee Creek, Hwy. 1 bridge, Long Sound <26>	25° 14.1'	80° 26.1'	---	---	---	---	---	---	---	
3627	Carysfort Reef	25° 13.3'	80° 12.7'	+0 19	+0 39	*1.03	*1.36	2.34	2.60	1.36	
3629	Jewfish Creek entrance, Blackwater Sound <26>	25° 11.0'	80° 23.2'	---	---	---	---	---	---	---	
3631	Deep Six Marina, Blackwater Sound <26>	25° 08.4'	80° 24.2'	---	---	---	---	---	---	---	
3633	Garden Cove, Key Largo	25° 10.3'	80° 22.0'	-0 01	+0 25	*0.94	*1.14	2.16	2.53	1.24	
3635	Largo Sound, Key Largo	25° 08.4'	80° 23.7'	+2 13	+3 03	*0.35	*0.50	0.80	0.96	0.47	
3637	Key Largo, South Sound, Key Largo	25° 06.8'	80° 25.0'	+0 23	+1 49	*0.66	*0.64	1.55	1.86	0.85	
3639	Point Charles, Key Largo	25° 04.9'	80° 27.0'	+0 25	+1 53	*0.77	*0.64	1.80	2.14	0.99	
3641	Rock Harbor, Key Largo	25° 04.9'	80° 26.8'	+0 22	+0 36	*0.94	*1.21	2.14	2.57	1.24	
3643	Sunset Cove, Key Largo, Buttonwood Sound <26>	25° 05.7'	80° 26.6'	---	---	---	---	---	---	---	
3645	Hammer Point, Key Largo, Florida Bay <26>	25° 02.1'	80° 30.3'	---	---	---	---	---	---	---	
3647	Tavernier, Key Largo, Florida Bay <26>	25° 00.9'	80° 30.9'	---	---	---	---	---	---	---	
3649	Tavernier Harbor, Hawk Channel	25° 00.3'	80° 31.0'	+0 07	+0 26	*0.90	*1.36	2.04	2.43	1.21	
3651	Tavernier Creek, Hwy. 1 bridge, Hawk Channel	25° 00.2'	80° 31.8'	+0 25	+0 52	*0.60	*1.07	1.32	1.58	0.81	
3653	Plantation Key, northern end, Florida Bay <26>	25° 00.1'	80° 32.6'	---	---	---	---	---	---	---	
3655	Crane Keys, north side, Florida Bay	25° 00.3'	80° 37.1'	+2 52	+4 35	*0.17	*0.21	0.39	0.46	0.22	
3657	East Key, southern end, Florida Bay	24° 59.8'	80° 36.6'	+2 43	+4 06	*0.22	*0.14	0.52	0.62	0.28	
3659	Plantation Key, Hawk Channel	24° 58.4'	80° 33.0'	+0 05	+0 12	*0.96	*1.21	2.20	2.64	1.27	
3661	Yacht Harbor, Cowpens Anchorage, Plantation Key	24° 57.9'	80° 34.1'	+2 45	+4 00	*0.23	*0.29	0.53	0.64	0.31	
3663	Snake Creek, Hwy. 1 bridge, Windley Key	24° 57.1'	80° 35.3'	+0 49	+0 56	*0.46	*0.50	1.07	1.28	0.61	
3665	Snake Creek, USCG Station, Plantation Key	24° 57.2'	80° 35.2'	+1 08	+1 56	*0.36	*0.50	0.82	0.98	0.48	
3667	Whale Harbor, Windley Key, Hawk Channel	24° 56.4'	80° 36.5'	+0 07	+0 51	*0.65	*0.36	1.56	1.87	0.83	
3669	Whale Harbor Channel, Hwy. 1 bridge, Windley Key	24° 56.3'	80° 36.6'	+0 16	+1 00	*0.59	*0.71	1.36	1.63	0.78	
3671	Upper Matecumbe Key, Hawk Channel	24° 54.9'	80° 37.9'	+0 34	+0 49	*0.87	*1.21	1.98	2.38	1.16	
3673	Alligator Reef, Hawk Channel	24° 51.0'	80° 37.1'	+0 08	+0 24	*0.86	*1.36	1.93	2.37	1.15	
on Key West, p.172											
3675	Flamingo, Florida Bay	25° 08.5'	80° 55.4'	+5 28	+7 20	*1.47	*1.08	2.02	2.52	1.27	
3677	Upper Matecumbe Key, west end, Hawk Channel	24° 53.8'	80° 39.5'	-1 00	+0 14	*0.98	*0.33	1.44	1.80	0.80	
3679	Indian Key, Hawk Channel	24° 52.6'	80° 40.6'	-0 58	-0 35	*1.30	*0.71	1.84	2.30	1.09	
3681	Shell Key Channel, Florida Bay	24° 54.8'	80° 39.6'	-0 20	+0 45	*0.78	*0.78	1.02	1.28	0.58	
3683	Lignumvitae Key, NE side, Florida Bay	24° 54.2'	80° 41.7'	+0 09	+1 31	*0.52	*0.52	0.68	0.85	0.37	
3685	Lignumvitae Key, west side, Florida Bay	24° 54.0'	80° 42.3'	+0 32	+1 54	*0.47	*0.47	0.62	0.74	0.35	
3687	Little Basin, Upper Matecumbe Key, Florida Bay	24° 54.9'	80° 38.4'	+0 08	+1 15	*0.61	*0.61	0.80	1.00	0.40	
3689	Shell Key, northwest side, Lignumvitae Basin	24° 55.4'	80° 40.3'	+0 31	+1 57	*0.46	*0.46	0.60	0.75	0.33	
3691	Islamorada, Upper Matecumbe Key, Florida Bay	24° 55.5'	80° 37.9'	+0 39	+2 07	*0.37	*0.37	0.49	0.57	0.30	
3693	Indian Key Anchorage, Lower Matecumbe Key	24° 52.1'	80° 42.2'	-1 25	-0 54	*1.38	*0.88	1.89	2.34	1.16	
3695	Matecumbe Bight, Lower Matecumbe Key, Fla. Bay	24° 51.9'	80° 43.0'	-0 18	+0 33	*0.55	*0.38	0.75	0.93	0.47	
3697	Matecumbe Harbor, Lower Matecumbe Key, Fla. Bay	24° 51.1'	80° 44.4'	-0 25	+0 23	*0.59	*0.33	0.83	1.04	0.50	
3699	Channel Two, east, Lower Matecumbe Key, Fla. Bay	24° 50.7'	80° 44.9'	-0 49	-0 42	*0.85	*0.54	1.18	1.48	0.72	
3701	Channel Two, west side, Hawk Channel	24° 50.5'	80° 45.2'	-1 06	-0 54	*1.12	*0.75	1.55	1.94	0.96	
3703	Channel Five, east side, Hawk Channel	24° 50.2'	80° 46.0'	-0 54	-0 42	*0.90	*0.58	1.25	1.56	0.77	
3705	Channel Five, west side, Hawk Channel	24° 50.4'	80° 46.8'	-0 58	-0 41	*1.00	*0.67	1.39	1.74	0.85	
3707	Jewfish Hole, Long Key, Florida Bay	24° 50.3'	80° 47.9'	-0 11	+1 32	*0.42	*0.38	0.56	0.70	0.37	
3709	Long Key Bight, Long Key	24° 49.7'	80° 48.5'	-0 59	-0 43	*1.03	*0.62	1.44	1.80	0.87	
3711	Long Key Lake, Long Key	24° 49.2'	80° 49.0'	+0 33	+0 57	*0.62	*0.46	0.85	1.06	0.53	
3713	Long Key, western end	24° 48.1'	80° 51.0'	-1 01	-0 54	*0.82	*0.33	1.19	1.49	0.67	
3715	Conch Key, eastern end	24° 47.5'	80° 53.0'	-1 09	-0 45	*0.85	*0.54	1.18	1.48	0.72	
3717	Toms Harbor Cut	24° 47.0'	80° 54.4'	-1 19	-0 30	*0.37	*0.38	0.48	0.60	0.33	
3719	Toms Harbor, Duck Key <26>	24° 46.4'	80° 54.9'	---	---	---	---	---	---	---	
3721	Duck Key, Hawk Channel	24° 45.9'	80° 54.8'	-1 11	-0 40	*0.97	*0.55	1.34	1.66	0.80	
3723	Toms Harbor Channel, Hwy. 1 bridge	24° 46.6'	80° 55.4'	+5 07	+4 49	*0.38	*0.38	0.50	0.62	0.45	
3725	Grassy Key, north side, Florida Bay	24° 46.3'	80° 56.4'	+5 40	+6 48	*0.73	*1.04	0.86	1.07	0.68	
3727	Grassy Key, south side, Hawk Channel	24° 45.3'	80° 57.5'	-0 52	-0 26	*1.22	*0.71	1.72	2.15	1.03	
3729	Fat Deer Key, Florida Bay	24° 44.0'	81° 01.1'	+5 09	+6 26	*0.87	*0.87	1.14	1.42	0.82	
3731	Vaca Key–Fat Deer Key bridge	24° 43.8'	81° 01.8'	-1 11	-0 36	*0.95	*0.71	1.31	1.64	0.83	
3733	Key Colony Beach	24° 43.1'	81° 01.0'	-1 17	-0 53	*1.22	*0.83	1.66	2.06	1.03	

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
				Time		Height				
		Latitude	Longitude	High Water	Low Water	High Water	Low Water	Mean	Spring	
		North	West	h	m	ft	ft	ft	ft	ft
FLORIDA Florida Keys—cont. Time meridian, 75° W										
3735	VACA KEY, USCG STATION, FLORIDA BAY	24° 42.7'	81° 06.3'	<i>Daily predictions, p. 168</i>				0.72	0.97	0.51
3737	Boot Key Harbor bridge, Boot Key	24° 42.2'	81° 06.3'	-1 03	-0 37	*1.13	*0.75	1.57	1.96	0.96
3739	Sombreiro Key, Hawk Channel	24° 37.6'	81° 06.7'	-1 03	-0 39	*1.18	*0.79	1.64	2.02	1.01
3741	Knight Key Channel, Knight Key, Florida Bay	24° 42.4'	81° 07.5'	-0 02	-0 18	*0.54	*0.50	0.72	0.90	0.48
3743	Pigeon Key, south side, Hawk Channel	24° 42.2'	81° 09.3'	-0 55	-0 26	*0.81	*0.50	1.14	1.42	0.69
3745	Pigeon Key, north side, Florida Bay	24° 42.3'	81° 09.4'	-0 10	+0 45	*0.46	*0.46	0.60	0.75	0.44
3747	Molasses Key Channel, Molasses Keys	24° 41.0'	81° 11.5'	-0 56	-0 16	*0.79	*0.50	1.10	1.38	0.67
3749	Money Key	24° 41.0'	81° 12.9'	+0 03	+1 17	*0.58	*0.58	0.76	0.95	0.54
3751	Little Duck Key, east end, Hawk Channel	24° 40.9'	81° 13.0'	-0 49	+0 05	*0.67	*0.67	0.88	1.10	0.60
3753	East Bahia Honda Key, south end, Florida Bay	24° 46.5'	81° 13.6'	+4 04	+2 49	*0.69	*0.69	0.90	1.12	0.77
3755	Cocoanut Key, Florida Bay	24° 44.7'	81° 14.2'	+3 52	+2 50	*0.55	*0.55	0.72	0.90	0.66
3757	West Bahia Honda Key	24° 46.8'	81° 16.3'	+3 59	+4 01	*0.97	*1.00	1.27	1.59	0.88
3759	Horseshoe Keys, south end	24° 46.0'	81° 17.0'	+3 54	+3 09	*0.86	*1.00	1.09	1.36	0.79
3761	Johnson Keys, south end	24° 44.6'	81° 18.0'	+3 36	+2 33	*0.72	*0.96	0.88	1.10	0.67
3763	Johnson Keys, north end	24° 46.0'	81° 19.4'	+3 35	+4 22	*1.31	*1.38	1.70	2.12	1.18
3765	Missouri Key—Little Duck Key Channel	24° 40.8'	81° 14.1'	-0 52	+0 36	*0.70	*0.46	0.98	1.22	0.60
3767	Missouri Key—Ohio Key Channel, west side	24° 40.4'	81° 14.6'	-0 47	-0 22	*0.77	*0.50	1.08	1.35	0.66
3769	Ohio Key—Bahia Honda Key Channel, west side	24° 40.2'	81° 15.1'	-0 57	-0 14	*0.81	*0.62	1.10	1.38	0.70
3771	Bahia Honda Key, Bahia Honda Channel	24° 39.3'	81° 16.9'	-0 46	-0 28	*0.86	*0.63	1.16	1.44	0.73
3773	Big Pine Key, Spanish Harbor	24° 38.9'	81° 19.8'	-0 44	-0 03	*0.75	*0.42	1.07	1.34	0.64
3775	Big Pine Key, Doctors Arm, Bogie Channel	24° 41.4'	81° 21.4'	+0 41	+1 47	*0.63	*0.71	0.80	1.00	0.57
3777	Big Pine Key, Bogie Channel Bridge	24° 41.9'	81° 20.9'	+2 10	+2 11	*0.65	*0.83	0.80	1.00	0.60
3779	No Name Key, east side, Bahia Honda Channel	24° 41.9'	81° 19.1'	+1 35	+1 33	*0.58	*0.83	0.70	0.88	0.55
3781	Little Pine Key, south end	24° 42.8'	81° 18.2'	+1 07	+1 07	*0.56	*0.79	0.68	0.85	0.53
3783	Porpoise Key, Big Spanish Channel	24° 43.1'	81° 21.1'	+3 23	+2 29	*0.72	*1.00	0.88	1.10	0.68
3785	Water Key, west end, Big Spanish Channel	24° 44.4'	81° 20.5'	+3 23	+2 37	*0.81	*1.04	1.00	1.25	0.75
3787	Mayo Key, Big Spanish Channel	24° 44.0'	81° 21.7'	+3 35	+3 01	*0.92	*1.08	1.17	1.46	0.85
3789	Little Pine Key, north end	24° 45.0'	81° 19.7'	+3 38	+3 28	*1.05	*1.21	1.33	1.66	0.96
3791	Big Pine Key, northeast shore	24° 43.7'	81° 23.2'	+3 19	+2 30	*0.86	*1.08	1.08	1.35	0.80
3793	Crawl Key, Big Spanish Channel	24° 45.4'	81° 21.5'	+3 34	+4 13	*1.33	*1.33	1.74	2.18	1.19
3795	Big Pine Key, north end	24° 44.7'	81° 23.7'	+4 24	+5 56	*0.96	*0.83	1.29	1.61	0.85
3797	Annette Key, north end, Big Spanish Channel	24° 45.5'	81° 23.4'	+3 30	+4 33	*1.44	*1.29	1.92	2.40	1.27
3799	Little Spanish Key, Spanish Banks	24° 46.5'	81° 22.2'	+3 25	+4 30	*1.74	*1.62	2.30	2.88	1.54
3801	Big Spanish Key	24° 47.3'	81° 24.7'	+3 19	+4 29	*1.97	*1.50	2.69	3.36	1.71
3803	Munson Island, Newfound Harbor Channel	24° 37.4'	81° 24.2'	-0 40	-0 12	*0.98	*0.67	1.36	1.70	0.84
3805	Ramrod Key, Newfound Harbor	24° 39.0'	81° 24.2'	-0 41	+0 05	*0.90	*0.50	1.28	1.60	0.76
3807	Middle Torch Key, Torch Ramrod Channel	24° 39.7'	81° 24.1'	-0 16	+1 29	*0.69	*0.38	0.98	1.22	0.58
3809	Little Torch Key, Torch Channel	24° 39.9'	81° 23.7'	+0 11	+1 45	*0.57	*0.33	0.80	1.00	0.48
3811	Big Pine Key, Newfound Harbor Channel	24° 39.1'	81° 22.5'	-0 09	+0 44	*0.82	*0.46	1.16	1.45	0.69
3813	Big Pine Key, Coupon Bight	24° 39.1'	81° 21.0'	-0 20	+0 49	*0.87	*0.50	1.19	1.48	0.72
3815	Little Torch Key, Pine Channel Bridge, south side	24° 39.9'	81° 23.3'	-0 15	+0 57	*0.68	*0.33	0.97	1.21	0.56
3817	Big Pine Key, Pine Channel Bridge, south side	24° 40.1'	81° 22.3'	-0 13	+1 03	*0.67	*0.33	0.96	1.20	0.56
3819	Big Pine Key, Pine Channel Bridge, north side	24° 40.2'	81° 22.1'	+0 03	+1 43	*0.57	*0.33	0.79	0.98	0.47
3821	Big Pine Key, west side, Pine Channel	24° 41.4'	81° 23.0'	+0 21	+1 52	*0.52	*0.42	0.71	0.89	0.45
3823	Howe Key, south end, Harbor Channel	24° 43.5'	81° 24.4'	+4 43	+4 49	*0.72	*0.62	0.96	1.20	0.63
3825	Big Torch Key, Harbor Channel	24° 44.3'	81° 26.6'	+3 47	+5 51	*1.58	*1.29	2.14	2.68	1.38
3827	Water Keys, south end, Harbor Channel	24° 44.8'	81° 27.0'	+3 42	+5 41	*1.52	*1.00	2.11	2.64	1.29
3829	Howe Key, northwest end	24° 45.5'	81° 25.7'	+3 29	+5 22	*1.68	*1.33	2.28	2.85	1.46
3831	Summerland Key, Niles Channel South	24° 39.1'	81° 26.1'	-0 36	+0 11	*0.85	*0.71	1.14	1.42	0.74
3833	Summerland Key, Niles Channel Bridge	24° 39.6'	81° 26.2'	-0 10	+0 56	*0.67	*0.58	0.90	1.12	0.59
3835	Ramrod Key, Niles Channel Bridge	24° 39.6'	81° 25.4'	-0 13	+1 12	*0.67	*0.46	0.93	1.16	0.58
3837	Big Torch Key, Niles Channel	24° 42.3'	81° 26.0'	+3 15	+2 05	*0.61	*0.71	0.77	0.96	0.56
3839	Knockdown Key, north end	24° 42.9'	81° 28.7'	+3 30	+4 54	*1.35	*1.21	1.80	2.25	1.19
3841	Raccoon Key, east side	24° 44.5'	81° 29.0'	+3 20	+5 09	*1.50	*1.21	2.04	2.55	1.31
3843	Content Keys, Content Passage	24° 47.4'	81° 29.0'	+2 46	+3 49	*2.13	*1.83	2.79	3.46	1.84
3845	Key Lois, southeast end	24° 36.4'	81° 28.2'	-1 15	-0 45	*1.06	*0.75	1.46	1.82	0.91
3847	Sugarloaf Key, east side, Tarpon Creek	24° 37.7'	81° 30.6'	-0 41	+0 15	*0.89	*0.58	1.24	1.55	0.76
3849	Gopher Key, Cudjoe Bay	24° 38.5'	81° 29.1'	-0 46	+0 17	*0.90	*0.71	1.22	1.52	0.78
3851	Sugarloaf Key, Pirates Cove	24° 39.2'	81° 30.9'	-0 48	+1 41	*0.59	*0.75	0.74	0.92	0.55
3853	Cudjoe Key, Cudjoe Bay	24° 39.6'	81° 29.5'	-0 38	+0 41	*0.87	*0.71	1.18	1.48	0.76
3855	Summerland Key, southwest side, Kemp Channel	24° 39.0'	81° 26.8'	-0 26	+0 50	*0.81	*0.54	1.12	1.40	0.69
3857	Kemp Channel Viaduct, Hwy A1A bridge	24° 39.1'	81° 28.1'	+0 47	+2 04	*0.58	*0.46	0.77	0.95	0.50
3859	Cudjoe Key, Kemp Channel Bridge	24° 39.7'	81° 28.1'	---	---	*0.59	*0.50	0.79	0.99	0.52
3861	Cudjoe Key, northeast side, Kemp Channel	24° 41.2'	81° 29.0'	+3 45	---	---	---	---	---	---
3863	Cudjoe Key, north end, Kemp Channel	24° 42.0'	81° 30.3'	+3 33	+4 40	*1.61	*1.46	2.10	2.60	1.41
3865	Sugarloaf Key, northeast side, Bow Channel	24° 40.3'	81° 32.0'	+3 47	+3 24	*1.01	*0.71	1.40	1.75	0.87
3867	Cudjoe Key, Pirates Cove	24° 39.7'	81° 30.9'	+3 50	+2 54	*0.77	*0.79	0.98	1.21	0.68
3869	Sugarloaf Key, north end, Bow Channel	24° 41.6'	81° 33.3'	+3 37	+5 20	*1.29	*0.75	1.82	2.28	1.09
3871	Pumpkin Key, Bow Channel	24° 43.0'	81° 33.7'	+3 17	+4 39	*1.56	*1.17	2.14	2.68	1.35
3873	Sawyer Key, outside, Cudjoe Channel	24° 45.5'	81° 33.7'	+2 45	+5 24	*1.57	*0.50	2.32	2.90	1.28
3875	Sawyer Key, inside, Cudjoe Channel	24° 45.5'	81° 33.7'	+2 37	+5 19	*1.43	*0.50	2.10	2.62	1.17
3877	Johnston Key, southwest end, Turkey Basin	24° 42.6'	81° 35.6'	+3 26	+5 38	*1.10	*0.50	1.59	1.99	0.92
3879	Upper Sugarloaf Sound	24° 38.9'	81° 34.2'	+5 37	+8 25	*0.28	*0.08	0.42	0.52	0.23
3881	Perky	24° 39.3'	81° 32.4'	+5 47	+8 33	*0.26	*0.29	0.34	0.42	0.24
3883	Park Channel Bridge	24° 39.0'	81° 33.2'	+5 32	+8 04	*0.25	*0.25	0.33	0.41	0.22
3885	Sugarloaf Shores East <26>	24° 38.6'	81° 33.6'	---	---	---	---	---	---	---
3887	Tarpon Creek	24° 37.8'	81° 31.0'	-0 29	+0 17	*0.35	*0.38	0.46	0.58	0.32
3889	Lower Sugarloaf Sound <27>	24° 38.0'	81° 33.1'	---	---	---	---	---	---	---
3891	Sugarloaf Beach <27>	24° 36.4'	81° 34.0'	---	---	---	---	---	---	---
3893	Sugarloaf Shores North <27>	24° 38.4'	81° 34.2'	---	---	---	---	---	---	---
3895	Saddlebunch Keys, south end <27>	24° 36.1'	81° 34.9'	---	---	---	---	---	---	---

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				
		North	West	h	m	ft	ft	ft	ft	ft	
FLORIDA Florida Keys—cont. Time meridian, 75° W											
<i>Lower Sugarloaf Sound <27>—cont.</i>											
3897	Lower Sugarloaf Channel Bridge <27>	24° 38.0'	81° 35.2'	---	---	---	---	---	---	---	
3899	Saddlebunch Keys, Channel No. 2 <27>	24° 37.6'	81° 35.9'	---	---	---	---	---	---	---	
3901	Saddlebunch Keys <27>	24° 37.1'	81° 36.1'	---	---	---	---	---	---	---	
3903	Snipe Keys, southeast end, Inner Narrows	24° 39.5'	81° 36.5'	+3 25	+5 39	*1.28	*0.83	1.79	2.24	1.10	
3905	Snipe Keys, Middle Narrows	24° 40.0'	81° 37.8'	+3 44	+5 54	*1.02	*0.67	1.42	1.78	0.87	
3907	Snipe Keys, Snipe Point	24° 41.5'	81° 40.4'	+2 15	+3 33	*1.69	*1.29	2.31	2.89	1.47	
3909	Waltz Key, Waltz Key Basin	24° 38.8'	81° 39.2'	+3 53	+5 33	*1.03	*0.96	1.36	1.70	0.91	
3911	Duck Key Point, Duck Key, Waltz Key Basin	24° 37.4'	81° 41.1'	+3 27	+4 57	*1.19	*0.96	1.61	2.01	1.03	
3913	O'Hara Key, north end, Waltz Key Basin	24° 37.0'	81° 38.7'	+3 53	+5 39	*1.03	*0.83	1.40	1.75	0.90	
3915	Saddlebunch Keys, Channel No. 5	24° 36.7'	81° 37.5'	+4 32	+6 58	*0.66	*1.12	0.76	0.95	0.65	
3917	Saddlebunch Keys, Channel No. 4	24° 36.9'	81° 37.0'	+4 35	+5 36	*0.54	*0.29	0.76	0.95	0.45	
3919	Saddlebunch Keys, Channel No. 3	24° 37.4'	81° 36.2'	+1 44	-0 10	*0.43	*0.21	0.62	0.78	0.36	
3921	Bird Key, Similar Sound	24° 35.3'	81° 38.3'	-0 21	+1 03	*0.59	*0.42	0.82	1.02	0.51	
3923	Shark Key, southeast end, Similar Sound	24° 36.2'	81° 38.7'	+0 18	+1 51	*0.52	*0.46	0.70	0.88	0.46	
3925	Saddlebunch Keys, Similar Sound	24° 36.0'	81° 37.3'	+0 39	+2 41	*0.37	*0.21	0.52	0.65	0.31	
3927	Geiger Key, inside <26>	24° 35.0'	81° 39.3'	---	---	---	---	---	---	---	
3929	Big Coppit Key, northeast side, Waltz Key Basin	24° 36.1'	81° 39.3'	+4 21	+6 54	*0.84	*0.33	1.22	1.52	0.69	
3931	Rockland Key, Rockland Channel Bridge	24° 35.5'	81° 40.1'	+5 02	+6 06	*0.76	*0.88	0.97	1.21	0.69	
3933	Boca Chica Key, Long Point	24° 36.2'	81° 41.9'	+3 54	+5 22	*0.94	*0.71	1.28	1.60	0.81	
3935	Channel Key, west side	24° 36.2'	81° 43.5'	+3 09	+3 07	*0.70	*0.71	0.91	1.14	0.62	
3937	Boca Chica Marina	24° 34.5'	81° 42.5'	+0 20	+1 11	*0.66	*0.71	0.83	1.03	0.58	
3939	Boca Chica Key, Southwest end	24° 33.8'	81° 42.8'	-0 14	+0 16	*0.66	*0.63	0.87	1.08	0.58	
3941	Boca Chica Channel Bridge	24° 34.6'	81° 43.2'	+1 23	+1 29	*0.57	*0.67	0.72	0.90	0.52	
3943	Key Haven – Stock Island Channel	24° 34.8'	81° 44.3'	+2 25	+2 57	*0.73	*0.79	0.94	1.18	0.66	
3945	Cow Key Channel	24° 34.2'	81° 45.0'	+1 55	+2 05	*0.65	*0.71	0.82	1.01	0.58	
3947	Sigsbee Park, Garrison Bight Channel	24° 35.1'	81° 46.5'	+1 59	+2 06	*0.81	*0.88	1.04	1.30	0.73	
3949	Fleming Key, north end	24° 35.5'	81° 47.7'	+1 38	+1 54	*0.79	*0.79	1.01	1.25	0.69	
3951	Riveria Canal, Key West	24° 33.9'	81° 45.1'	-0 12	+1 00	*0.65	*0.63	0.84	1.04	0.57	
3953	Key West, south side, White Street Pier	24° 32.7'	81° 47.0'	-0 53	-0 31	*1.07	*0.92	1.41	1.75	0.92	
3955	KEY WEST	24° 33.2'	81° 48.5'	<i>Daily predictions</i>				1.28	1.65	0.88	
3957	Sand Key Lighthouse, Sand Key Channel	24° 27.2'	81° 52.6'	-0 43	-0 32	*0.95	*0.88	1.23	1.53	0.83	
3959	Garden Key, Dry Tortugas	24° 37.6'	82° 52.3'	+0 29	+0 33	*0.94	*1.33	1.14	1.42	0.89	
3961	Smith Shoal Light	24° 43.1'	81° 55.2'	+1 43	+2 20	*2.10	*2.37	2.63	3.44	1.88	
Gulf Coast											
<i>on Naples, p. 176</i>											
3963	Cape Sable, East Cape	25° 07'	81° 05'	+1 33	+1 50	*1.30	*0.98	2.9	3.8	2.0	
3965	Shark River entrance	25° 21'	81° 08'	+0 57	+1 45	*1.43	*0.98	3.6	4.5	2.4	
3967	Whitewater Bay	25° 19'	81° 02'	+3 53	+4 38	*0.26	*0.33	0.5	0.8	0.4	
3969	Lostmans River entrance	25° 33'	81° 13'	+1 09	+1 59	*1.33	*0.98	3.0	3.9	2.1	
3971	Onion Key, Lostmans River	25° 37'	81° 08'	+3 09	+4 53	*0.26	*0.16	0.6	0.9	0.4	
3973	Chatham River entrance	25° 41'	81° 17'	+0 59	+1 53	*1.43	*0.66	3.3	4.2	2.1	
3975	Chokoloskee	25° 48.8'	81° 21.8'	+2 15	+3 14	*1.11	*0.62	2.53	3.18	1.63	
3977	Everglades City, Barron River	25° 51.5'	81° 23.2'	+2 25	+3 26	*0.99	*0.57	2.26	2.84	1.47	
3979	Indian Key	25° 48'	81° 28'	+0 55	+1 19	*1.48	*0.98	3.4	4.3	2.3	
3981	Round Key	25° 50'	81° 32'	+0 54	+1 12	*1.48	*0.98	3.4	4.3	2.3	
3983	Pumpkin Bay	25° 55'	81° 33'	+2 39	+3 07	*0.89	*0.49	2.1	2.7	1.3	
3985	Marco Island, Caxambas Pass	25° 54.5'	81° 43.7'	+0 25	+0 18	*1.07	*0.98	2.22	3.05	1.70	
3987	Coon Key	25° 53.8'	81° 38.2'	+1 06	+1 25	*1.34	*1.03	2.90	3.86	2.07	
3989	Cape Romano	25° 51'	81° 41'	+0 43	+1 04	*1.19	*0.98	2.6	3.5	1.9	
3991	Marco, Big Marco River	25° 58.3'	81° 43.7'	+1 00	+0 46	*0.98	*0.85	2.04	2.78	1.53	
3993	McIvianine Bay	25° 59.1'	81° 42.1'	+1 39	+1 55	*0.90	*0.75	1.92	2.61	1.41	
3995	Keewaydin Island (inside)	26° 01.5'	81° 46.1'	+0 58	+0 55	*0.90	*0.78	1.90	2.61	1.42	
3997	Naples, Naples Bay, north end	26° 08.2'	81° 47.3'	+0 43	+0 56	*0.97	*0.90	2.06	2.85	1.58	
3999	NAPLES (outer coast)	26° 07.8'	81° 48.4'	<i>Daily Predictions</i>				2.01	2.87	1.61	
4001	Wiggins Pass, Cocohatchee River	26° 17.4'	81° 49.1'	+0 44	+0 59	*0.77	*0.73	1.59	2.26	1.23	
4003	Cocohatchee River, U.S. 41 bridge	26° 16.9'	81° 48.1'	+1 10	+1 28	*0.74	*0.65	1.54	2.18	1.17	
Estero Bay											
4005	Little Hickory Island	26° 21'	81° 51'	-0 58	-1 05	*1.09	*1.09	—	2.5	1.3	
4007	Coconut Point	26° 24.0'	81° 50.6'	-1 21	-0 44	*1.12	*1.21	1.75	2.48	1.34	
4009	Carlos Point	26° 24'	81° 53'	-1 08	-1 28	*1.17	*1.17	—	2.7	1.4	
4011	Estero River	26° 25.8'	81° 51.4'	-0 45	-0 10	*1.09	*1.11	1.74	2.45	1.29	
4013	Hendry Creek	26° 28.2'	81° 52.6'	-0 25	+0 28	*0.89	*0.68	1.51	2.06	1.01	
4015	Estero Island	26° 26.3'	81° 55.1'	-1 08	-0 43	*1.14	*1.30	1.77	2.52	1.37	
4017	Matanzas Pass (fixed bridge) Estero Island	26° 27'	81° 57'	-1 10	-1 34	*1.22	*1.22	—	2.8	1.4	
4019	Point Ybel, San Carlos Bay entrance	26° 27'	82° 01'	-1 50	-1 12	*1.21	*1.21	—	2.6	1.4	
4021	Punta Rassa, San Carlos Bay	26° 29.3'	82° 00.8'	-1 06	-0 59	*1.02	*1.26	1.54	2.26	1.25	
Caloosahatchee River											
4023	Iona Shores	26° 31'	81° 58'	+1 08	+1 40	*0.43	*0.43	—	1.0	0.5	
4025	Cape Coral Bridge	26° 34'	81° 56'	+1 15	+2 02	*0.43	*0.43	—	1.0	0.5	
4027	Fort Myers	26° 38.8'	81° 52.3'	+1 56	+2 23	*0.56	*0.39	0.95	1.32	0.63	
4029	Tarpon Bay, Sanibel Island	26° 26.6'	82° 04.9'	-0 46	-0 18	*1.02	*1.18	1.57	2.27	1.23	
4031	St. James City, Pine Island	26° 30'	82° 05'	-0 30	-0 44	*1.04	*1.04	—	2.4	1.2	
4033	Gulf Island, Pine Island Sound	26° 31'	82° 06'	-0 25	+0 16	*0.91	*0.91	—	2.1	1.1	
4035	Captiva Island (outside)	26° 29'	82° 11'	-2 20	-2 28	*1.13	*1.13	—	2.6	1.3	
4037	Captiva Island, Pine Island Sound	26° 31'	82° 11'	-0 46	-0 20	*0.91	*0.91	—	2.1	1.1	
4039	North Captiva Island	26° 36.3'	82° 12.1'	-1 42	-1 17	*0.92	*0.71	1.54	2.02	1.05	
4041	Redfish Pass, Captiva Island (north end)	26° 33'	82° 12'	-0 55	-1 14	*0.91	*0.91	—	2.1	1.0	

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				
		North	West	h m	h m	ft	ft	ft	ft	ft	
FLORIDA Gulf Coast—cont. Time meridian, 75° W											
4043	Tropical Homesites Landing, Pine Island	26° 33'	82° 05'	-0 08	+0 22	*0.87	*0.87	--	2.0	1.0	
4045	Matacha Pass (bascule bridge)	26° 38'	82° 04'	+0 43	+1 28	*0.83	*0.83	--	1.9	1.0	
4047	Pineland, Pine Island	26° 40'	82° 09'	-0 19	+0 26	*0.83	*0.83	--	1.9	0.9	
<i>Charlotte Harbor</i>											
4049	Port Boca Grande	26° 43.1'	82° 15.5'	-0 50	-1 42	*0.67	*1.03	0.93	1.56	0.86	
4051	Bokelia	26° 42.4'	82° 09.8'	-0 35	-0 09	*0.80	*0.63	1.34	1.73	0.91	
4053	Turtle Bay	26° 47.8'	82° 11.0'	+0 51	+0 35	*0.69	*0.95	1.02	1.56	0.86	
4055	Punta Gorda	26° 56'	82° 04'	+1 06	+1 27	*0.83	*0.83	--	1.9	1.0	
4057	Shell Point (Harbor Heights), Peace River	26° 59.3'	81° 59.6'	+1 42	+2 10	*0.89	*0.89	1.32	2.02	1.10	
4059	Locust Point, Hog Island	26° 55.8'	82° 08.2'	+1 15	+1 27	*0.82	*0.82	1.22	1.95	1.03	
4061	El Jobean, Myakka River	26° 58'	82° 13'	+1 38	+1 56	*0.83	*0.83	--	1.9	1.0	
4063	Myakka River, US 41 bridge	27° 02.7'	82° 17.6'	+2 48	+3 01	*0.83	*0.97	1.31	1.90	1.00	
4065	Placida, Gasparilla Sound	26° 50.0'	82° 15.9'	-0 43	-0 56	*0.59	*0.94	0.82	1.41	0.77	
4067	Don Pedro Island State Park, Cutoff (south)	26° 51.3'	82° 18.2'	-0 54	-0 53	*0.63	*0.84	0.91	1.49	0.78	
4069	Englewood, Lemon Bay	26° 56.0'	82° 21.2'	-0 17	-0 17	*0.66	*0.82	1.00	1.57	0.81	
4071	Manasota, Lemon Bay	27° 00.7'	82° 24.6'	-0 24	-0 11	*0.70	*0.89	1.05	1.68	0.86	
4073	Venice Municipal Airport	27° 04.3'	82° 27.2'	-2 33	-2 43	*0.97	*0.97	1.56	2.20	1.15	
4075	Venice Inlet (inside)	27° 07'	82° 28'	-2 02	-1 38	*0.91	*0.91	--	2.1	1.1	
4077	Sarasota, Sarasota Bay	27° 20'	82° 33'	-1 38	-0 58	*0.91	*0.91	--	2.1	1.1	
4079	Cortez, Sarasota Bay	27° 28'	82° 41'	-2 00	-1 25	*0.96	*0.96	--	2.2	1.1	
Tampa Bay											
4081	Egmont Key, Egmont Channel	27° 36.1'	82° 45.6'	-2 15	-3 20	*0.96	*1.00	--	2.16	1.14	
4083	Anna Maria Key, Bradenton Beach	27° 29.8'	82° 42.8'	-2 27	-3 32	*0.99	*1.00	1.58	2.25	1.17	
4085	Anna Maria Key, city pier	27° 32.0'	82° 43.8'	-2 10	-2 19	*0.99	*0.99	--	2.22	1.11	
4087	Bradenton, Manatee River	27° 30'	82° 34'	-1 24	-0 55	*0.97	*0.95	--	2.3	1.2	
4089	Redfish Point, Manatee River	27° 32'	82° 29'	-0 30	+0 14	*0.92	*1.00	--	2.2	1.1	
4091	Mullet Key Channel (Skyway)	27° 36.9'	82° 43.6'	-2 03	-2 01	*0.92	*0.92	1.48	2.08	1.09	
4093	Port Manatee	27° 38.2'	82° 33.8'	-1 00	-0 48	*0.97	*0.95	1.56	2.19	1.14	
4095	Shell Point	27° 43'	82° 29'	+0 08	+0 17	*0.91	*0.91	--	2.3	1.2	
4097	Little Manatee River, US 41 Bridge	27° 42.3'	82° 26.9'	+0 51	+1 15	*0.91	*0.68	1.55	1.99	1.03	
4099	Point Pinellas	27° 42'	82° 38'	-0 22	-0 29	*0.86	*0.86	--	2.0	1.0	
4101	ST. PETERSBURG	27° 46.4'	82° 37.3'	<i>Daily predictions</i>				1.59	2.26	1.18	
4103	Ballast Point	27° 53.4'	82° 28.8'	+0 20	+0 23	*1.22	*1.16	1.98	2.73	1.43	
4105	Pendola Point, Hillsborough Bay	27° 53.9'	82° 25.6'	+0 21	+0 05	*1.14	*1.18	1.81	2.61	1.36	
4107	Davis Island, Hillsborough Bay	27° 54.5'	82° 27.1'	+0 03	+0 32	*1.16	*1.24	1.82	2.63	1.38	
4109	McKay Bay entrance	27° 54.8'	82° 25.5'	+0 02	+0 28	*1.19	*1.26	1.89	2.69	1.42	
4111	Old Port Tampa	27° 51.5'	82° 33.2'	+0 25	+0 39	*1.10	*1.18	1.73	2.48	1.31	
4113	Gandy Bridge, Old Tampa Bay	27° 53.6'	82° 32.3'	+0 59	+0 57	*1.12	*1.24	1.75	2.55	1.35	
4115	Bay Aristocrat Village, Old Tampa Bay	27° 56.5'	82° 43.2'	+1 01	+1 32	*1.24	*1.37	1.95	2.81	1.49	
4117	Safety Harbor, Old Tampa Bay	27° 59.3'	82° 41.1'	+1 32	+1 34	*1.23	*1.39	1.91	2.79	1.48	
4119	Mobley Bayou	28° 01.3'	82° 39.3'	+2 38	+2 54	*0.71	*0.45	1.24	1.77	0.79	
4121	Boca Ciega Bay	<i>Pass-a-Grille Beach</i>									
4123	Gulfport	27° 41'	82° 44'	-1 34	-1 30	*0.87	*0.87	--	2.1	1.0	
4125	Long Key, 0.5mi N. of Corey Causeway	27° 44.7'	82° 44.8'	-1 18	-0 44	*0.92	*1.00	--	2.2	1.1	
4127	Johns Pass	27° 47'	82° 47'	-2 14	-2 04	*0.97	*1.02	--	2.3	1.2	
4129	Madeira Beach Causeway	27° 48.5'	82° 47.7'	-1 32	-1 45	*1.08	*1.18	--	2.42	1.29	
Gulf Coast—cont.											
4131	Indian Rocks Beach (inside)	27° 52'	82° 51'	-0 57	-0 53	*0.65	*0.63	1.8	2.6	1.3	
4133	Clearwater	27° 57'	82° 48'	-1 48	-1 35	*0.65	*0.63	1.8	2.6	1.3	
4135	Clearwater Beach	27° 58.7'	82° 49.9'	-2 07	-2 19	*0.69	*0.84	1.87	2.74	1.46	
4137	Dunedin, St. Joseph Sound	28° 01'	82° 48'	-1 50	-1 45	*0.70	*0.79	1.9	2.8	1.4	
4139	Anclope Key, southern end	28° 09.9'	82° 50.6'	-2 16	-2 11	*0.88	*0.60	2.65	3.32	1.71	
4141	Anclope, Anclope River	28° 10.3'	82° 47.1'	-1 28	-1 24	*0.78	*0.87	2.16	3.07	1.63	
4143	Tarpon Springs, Anclope River	28° 09.6'	82° 46.1'	-1 16	-1 03	*0.77	*0.83	2.10	3.00	1.57	
4145	North Anclope Key	28° 12.6'	82° 50.4'	-1 55	-1 38	*0.80	*0.86	2.20	3.11	1.64	
4147	Gulf Harbors	28° 14.6'	82° 45.8'	-1 15	-0 52	*0.84	*0.90	2.30	3.26	1.72	
4149	Hwy. 19 bridge, Pithlachascotee River	28° 16.1'	82° 43.6'	-1 16	-0 40	*0.85	*0.84	2.36	3.27	1.71	
4151	New Port Richey, Pithlachascotee River	28° 14.9'	82° 43.4'	-0 58	-0 11	*0.88	*0.87	2.44	3.40	1.77	
4153	Hudson, Hudson Creek	28° 21.7'	82° 42.6'	-1 12	-1 02	*0.91	*0.89	2.53	3.48	1.82	
4155	Aripeka, Hammock Creek	28° 26.0'	82° 40.1'	-0 37	+0 23	*0.81	*0.63	2.37	3.15	1.58	
4157	Hernando Beach, Rocky Creek, Little Pine I. Bay	28° 29.2'	82° 39.7'	-0 20	+0 58	*0.83	*0.83	2.16	--	--	
4159	Bayport	28° 32.0'	82° 39.0'	-0 01	+0 43	*0.80	*0.71	2.33	3.16	1.61	
4161	Johns Island, Chassahowitzka Bay	28° 41.5'	82° 38.3'	+1 09	+2 14	*0.62	*0.49	1.81	2.53	1.22	
4163	Chassahowitzka, Chassahowitzka River	28° 42.9'	82° 34.6'	+3 59	+5 45	*0.14	*0.16	0.39	0.60	0.30	
4165	Mason Creek, Homosassa Bay	28° 45.7'	82° 38.3'	+3 09	+4 44	*0.32	*0.25	0.96	1.35	0.64	
4167	Tuckers Island, Homosassa River	28° 46.3'	82° 41.7'	+1 26	+2 23	*0.47	*0.33	1.38	1.92	0.90	
4169	Halls River bridge, Homosassa River	28° 48.0'	82° 36.2'	+4 30	+5 41	*0.16	*0.13	0.45	0.72	0.30	
4171	Ozello, St. Martins River	28° 49.5'	82° 39.5'	+4 25	+5 21	*0.17	*0.14	0.49	0.74	0.33	
4173	Mangrove Pt., Crystal Bay	28° 52.2'	82° 43.4'	+0 22	+0 41	*0.95	*0.76	2.82	3.65	1.89	
4175	Ozello north, Crystal Bay	28° 51.8'	82° 40.0'	+1 25	+3 17	*0.50	*0.25	1.53	2.03	0.93	
4177	Dixie Bay, Salt River, Crystal Bay	28° 52.9'	82° 38.1'	+2 00	+3 06	*0.55	*0.33	1.66	2.15	1.04	
4179	Crystal River	28° 57.6'	82° 43.5'	-0 03	+0 30	*1.04	*0.89	3.00	3.90	2.06	
4181	Florida Power	28° 55.4'	82° 41.5'	+0 36	+1 30	*0.79	*0.59	2.32	3.01	1.53	
4183	Shell Island, north end	28° 54.3'	82° 38.3'	+1 46	+2 30	*0.64	*0.49	1.90	2.53	1.26	
4185	Twin Rivers Marina	28° 53.9'	82° 35.9'	+2 20	+3 07	*0.59	*0.41	1.76	2.31	1.14	
4187	Kings Bay	28° 00'	82° 46'	+0 07	+0 55	*0.91	*0.95	2.5	3.5	1.8	
4189	Withlacoochee River entrance	28° 08.1'	83° 01.9'	<i>Daily predictions</i>				2.83	3.80	2.05	

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				
	FLORIDA Gulf Coast—cont. Time meridian, 75° W	North	West	h m	h m	ft	ft	ft	ft	ft	
on Cedar Key, p.184											
4191	Suwannee River entrance	29° 17'	83° 09'	+0 06	+0 18	*0.88	*0.95	2.4	3.4	1.8	
4193	Suwannee, Salt Creek	29° 19.7'	83° 09.1'	-0 07	+0 24	*0.91	*0.83	2.65	3.47	1.84	
4195	Horseshoe Point	29° 26.2'	83° 17.6'	-0 21	+0 08	*0.95	*0.94	2.69	3.58	1.94	
4197	Pepperfish Keys	29° 30'	83° 22'	+0 12	+0 24	*0.88	*0.95	2.4	3.4	1.8	
4199	Steinhatchee River ent., Deadman Bay	29° 40.3'	83° 23.4'	+0 02	+0 00	*1.03	*1.08	2.87	3.83	2.12	
on St. Marks River Ent., p.188											
4201	Fishermans Rest	29° 44'	83° 32'	-0 14	-0 02	*0.93	*0.86	2.4	3.4	1.8	
4203	Spring Warrior Creek	29° 55.2'	83° 40.3'	-0 25	-0 06	*0.98	*0.84	2.68	3.46	1.86	
4205	Rock Islands	29° 58'	83° 50'	-0 03	+0 04	*0.93	*0.91	2.4	3.3	1.8	
Apalachee Bay											
4207	Mandalay, Aucilla River	30° 07.6'	83° 58.5'	+0 25	+0 57	*0.69	*0.55	1.92	2.47	1.30	
4209	ST. MARKS RIVER ENTRANCE	30° 04.7'	84° 10.7'	+0 36	+1 04	Daily predictions	2.63	3.49	1.94		
4211	St. Marks, St. Marks River	30° 09'	84° 12'	-0 03	-0 03	*1.02	*1.08	2.4	3.3	1.8	
4213	Shell Point, Walker Creek	30° 03.6'	84° 17.4'	+0 33	+0 19	*0.85	*0.70	2.65	3.56	2.00	
4215	Bald Point, Ochlockonee Bay	29° 56.9'	84° 20.5'	+0 16	+0 20	*1.01	*0.82	2.28	3.07	1.60	
4217	Panacea, Dickerson Bay	30° 01.7'	84° 23.2'	-0 08	+0 11	*0.75	*0.73	2.73	3.66	1.90	
4219	Alligator Point, St. James Island	29° 54.2'	84° 24.8'	-0 16	-0 21	*0.78	*0.98	1.95	2.82	1.45	
4221	Turkey Point, St. James Island	29° 54.9'	84° 30.7'					1.92	2.74	1.57	
on Apalachicola, p.192											
4223	St. George Sound	Dog Island, west end	29° 47'	84° 40'	-1 53	-2 38	*1.73	*1.40	--	2.6	1.3
4225		Carabelle, Carrabelle River	29° 51'	84° 40'	-1 25	-2 13	*1.60	*1.60	--	2.6	1.3
4227		St. George Island, East End	29° 41.2'	84° 47.2'	-2 02	-2 48	*1.13	*1.00	--	1.9	1.1
4229		St. George Island, Rattlesnake Cove	29° 41.5'	84° 47.5'	-1 00	-1 35	*1.33	*1.20	--	2.2	1.3
4231		St. George Island, 12th St. W (Bayside)	29° 39'	84° 54'	-0 55	-1 08	*1.26	*1.26	--	2.2	1.1
4233		St. George Island, Sikes Cut	29° 36.8'	84° 57.5'	-0 58	-1 22	*1.00	*1.00	--	1.6	1.0
Apalachicola Bay											
4235	Cat Point	29° 43'	84° 53'	-0 40	-1 17	*1.07	*0.60	--	2.2	1.1	
4237	APALACHICOLA	29° 43.6'	84° 58.9'	+0 28	+0 35	Daily predictions	1.11	1.61	0.96		
4239	Apalachicola River (A&N RR bridge)	29° 45.8'	85° 02.0'	-0 17	-0 35	*0.85	*0.83	0.97	1.39	0.81	
4241	Lower Anchorage	29° 36'	85° 03'	-0 27	-0 27	*0.93	*1.00	--	1.5	0.8	
4243	West Pass	29° 38'	85° 06'					--	1.4	0.7	
on Pensacola, p.196											
4245	Port Saint Joe, St. Joseph Bay †	29° 48.9'	85° 18.8'	-1 06	-1 45	*1.11	*1.11	1.15	1.65	0.78	
4247	White City, ICWW †	29° 52.8'	85° 13.3'	-0 40	+1 31	*0.77	*0.77	0.86	1.01	0.52	
Time meridian, 90° W											
4249	St. Andrew Bay	Channel entrance †	30° 07.5'	85° 43.8'	-1 39	-1 50	*1.02	*1.02	1.20	1.29	0.67
4251		Panama City †	30° 09.1'	85° 40.0'	-0 57	-1 11	*1.05	*1.66	1.25	1.34	0.7
4253		Panama City Beach (outside) †	30° 12.8'	85° 52.7'	-2 17	-2 44	*1.05	*1.05	1.22	1.37	0.68
4255		Parker †	30° 08'	85° 37'	-0 05	+0 22	*1.20	*1.20	--	1.5	0.7
4257		Laird Bayou, East Bay †	30° 07.3'	85° 32.7'	-0 28	-1 05	*1.13	*1.13	1.28	1.47	0.75
4259		Farmdale, East Bay †	30° 01.0'	85° 28.2'	-0 16	-0 59	*1.17	*1.17	1.31	1.56	0.78
4261		Allanton, East Bay †	30° 01.8'	85° 27.9'	-0 16	-1 01	*1.15	*1.15	1.30	1.53	0.76
4263		Wetappo Creek, East Bay †	30° 02'	85° 24'	+1 01	+1 40	*1.10	*1.10	--	1.4	0.7
4265		Alligator Bayou †	30° 10.2'	85° 45.3'	-0 47	-1 10	*1.07	*1.07	1.25	1.37	0.68
4267		Lynn Haven, North Bay †	30° 15.3'	85° 38.9'	-0 31	-1 01	*1.10	*1.10	1.25	1.47	0.73
4269		West Bay Creek, West Bay †	30° 17.6'	85° 51.5'	-0 10	-0 47	*1.13	*1.13	1.30	1.46	0.74
Choctawhatchee Bay <1>											
4271	East Pass (Destin)	30° 23.7'	86° 30.8'	-0 33	-0 34	*0.49	*0.33	0.59	0.61	0.31	
4273	Shalimar, Garnier Bayou †	30° 26.1'	86° 35.2'	+3 33	+3 03	*0.32	*0.32	0.36	0.41	0.21	
4275	Harris, The Narrowst	30° 24'	86° 44'	+1 37	+2 51	*1.10	*1.10	--	1.4	0.7	
4277	Navarre Beach	30° 22.6'	86° 51.9'	-2 07	-2 26	*1.07	*1.67	1.26	1.38	0.69	
4279	Fishing Bend, Santa Rosa Sound †	30° 20'	87° 08'	+0 41	+0 51	*1.10	*1.10	--	1.4	0.7	
Pensacola Bay											
4281	Entrance †	30° 20'	87° 19'	-1 23	-0 34	*0.80	*0.80	--	1.1	0.5	
4283	Warrington, 2 miles south of †	30° 21'	87° 16'	-0 27	-0 30	*1.00	*1.00	--	1.3	0.6	
4285	PENSACOLA †	30° 24.2'	87° 13.8'	+0 36	+1 03	Daily predictions	1.20	1.26	0.63		
4287	Lora Point, Escambia Bay †	30° 31'	87° 10'	+0 44	+1 17	*1.20	*1.20	--	1.5	0.7	
4289	East Bay †	30° 27'	86° 55'	+1 23	+2 03	*1.20	*1.20	--	1.6	0.8	
4291	Bay Point, Blackwater River †	30° 34'	87° 00'	+1 23	+1 27	*1.20	*1.20	--	1.6	0.8	
4293	Milton, Blackwater River †	30° 37'	87° 02'	+1 40	+1 47	*1.20	*1.20	--	1.6	0.8	
Perdido Bay											
4295	Blue Angels Park †	30° 23.2'	87° 25.7'	+2 36	+4 00	*0.58	*0.58	0.71	0.73	0.35	
4297	Nix Point †	30° 23.6'	87° 25.5'	+2 29	+3 37	*0.57	*0.33	0.69	0.71	0.35	
4299	Millview †	30° 25.1'	87° 21.4'	+2 33	+4 33	*0.67	*0.67	0.82	0.85	0.41	
4301	Alabama Point, Perdido Pass, Alabama	30° 16.7'	87° 33.3'	-1 26	-1 24	*0.67	*0.67	0.78	0.86	0.42	
ALABAMA											
4303	Mobile Point (Fort Morgan) †	30° 14'	88° 01'	-1 46	-1 32	*0.80	*0.80	--	1.2	0.6	
4305	DAUPHIN ISLAND †	30° 15.0'	88° 04.5'	+0 41	-0 16	Daily predictions, p.200	1.18	1.20	0.60		
4307	Gulf Shores, ICWW †	30° 16.8'	87° 41.1'	-1 13	-1 17	*0.75	*0.90	1.03	1.15	0.60	
4309	Bon Secour, Bon Secour River †	30° 18'	87° 44'	-1 13	-1 17	*1.07	*1.07	--	1.6	0.8	
4311	East Fowl River, Hwy 193 bridge, Mobile Bay †	30° 26.6'	88° 06.8'	-0 53	-0 58	*0.88	*0.30	1.28	1.36	0.68	
4313	West Fowl River, Hwy 188 bridge †	30° 22.6'	88° 09.5'	-2 00	-2 01	*0.94	*1.48	1.33	1.61	0.79	
4315	Point Clear, Mobile Bay †	30° 29.2'	87° 56.1'	-1 03	-0 34	*1.00	*1.00	1.50	1.52	0.77	
on Mobile, p.204											

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				
		North	West	h m	h m	ft	ft	ft	ft	ft	
ALABAMA—cont. Time meridian, 90° W											
4317	Dog River, Hwy 163 bridge, Mobile Bay †	30° 33.9'	88° 05.2'	-0 38	-0 47	*0.93	*0.60	1.39	1.44	0.72	
4319	Meaher State Park, Mobile Bay †	30° 40.0'	87° 56.1'	-0 38	+0 25	*1.03	*0.50	1.48	1.54	0.79	
4321	Coast Guard Station, Mobile Bay †	30° 38.9'	88° 03.5'	-0 38	-0 38	*1.03	*0.90	1.45	1.63	0.82	
4323	MOBILE, Mobile River (State Dock) †	30° 42.3'	88° 02.4'				Daily predictions	1.38	1.61	0.80	
4325	William Brooks Park, Chickasaw Creek †	30° 46.9'	88° 04.4'	-0 05	-0 07	*0.99	*1.00	1.39	1.56	0.79	
4327	Lower Hall Landing, Tensaw River †	30° 49'	87° 55'	+2 16	+3 05	*0.87	*0.87	—	1.3	0.6	
on Mobile, p.204											
4329	Bayou La Batre, Mississippi Sound †	30° 22'	88° 16'	+1 52	+1 14	*1.23	*1.23	—	1.5	0.8	
4331	Bayou La Batre, Hwy 188 Bridge †	30° 24.3'	88° 14.8'	+1 29	+0 56	*1.28	*1.28	1.46	1.60	0.82	
MISSISSIPPI											
4333	Grand Bay NERR †	30° 24.8'	88° 24.2'	+1 38	+0 54	*1.25	*1.25	1.37	1.59	0.81	
4335	Point of Pines, Bayou Cumbest †	30° 23.2'	88° 26.4'	+1 49	+1 09	*1.25	*1.25	1.37	1.62	0.81	
4337	Hollingsworth Point, Davis Bayou †	30° 23.2'	88° 46.4'	+2 24	+1 52	*1.42	*1.42	1.59	1.80	0.91	
4339	Petit Bois Island, Mississippi Sound †	30° 12.2'	88° 26.5'	+1 14	+0 41	*1.18	*1.18	1.37	1.47	0.73	
4341	Horn Island, Mississippi Sound †	30° 14.3'	88° 40.0'	+1 34	+0 59	*1.25	*1.25	1.38	1.60	0.81	
4343	Ship Island, Mississippi Sound †	30° 12.8'	88° 58.3'	+1 48	+1 05	*1.32	*1.32	1.49	1.60	0.83	
4345	Port of Pascagoula, Dock E †	30° 20.8'	88° 30.3'	+1 08	+0 44	*1.22	*1.22	1.37	1.55	0.78	
4347	Pascagoula, Mississippi Sound †	30° 20.4'	88° 32.0'	+1 20	+0 48	*1.21	*1.21	1.37	1.53	0.86	
4349	Graveline Bayou Entrance †	30° 21.7'	88° 39.8'	+1 43	+1 04	*1.29	*1.29	1.44	1.63	0.82	
4351	Gulfport Harbor, Mississippi Sound †	30° 21.6'	88° 04.9'	+2 09	+1 09	*1.29	*1.29	1.38	1.64	0.86	
4353	Biloxi (Cadet Point), Biloxi Bay †	30° 23.4'	88° 51.4'	+2 04	+1 30	*1.38	*1.38	1.55	1.76	0.88	
4355	Turkey Creek, Bernard Bayou †	30° 25.6'	88° 03.2'	+3 23	+2 27	*1.54	*1.54	1.65	2.00	1.02	
4357	Handsboro Bridge, Bernard Bayou †	30° 24.4'	88° 01.6'	+3 40	+2 06	*1.53	*1.53	1.64	1.98	1.01	
4359	Cat Island †	30° 13.9'	88° 07.0'	+2 13	+2 00	*1.23	*1.23	1.39	1.57	0.78	
4361	Pass Christian Yacht Club, Mississippi Sound †	30° 18.6'	88° 14.7'	+2 36	+2 04	*1.37	*1.37	1.53	1.73	0.87	
4363	Wolf River, Henderson Avenue bridge	30° 21.5'	88° 16.4'	+3 18	+2 51	*1.36	*1.36	1.47	1.80	0.90	
4365	St. Louis Bay entrance †	30° 19.5'	88° 19.5'	+3 17	+2 57	*1.36	*1.36	1.52	1.73	0.87	
4367	Waveland †	30° 16.9'	88° 22.0'	+3 09	+2 49	*1.28	*1.28	1.44	1.60	0.81	
4369	Pearlington, Pearl River †	30° 14.4'	88° 36.9'	+5 51	+5 31	*0.99	*0.99	1.15	1.23	0.62	
LOUISIANA											
4371	The Rigolets †	30° 09.9'	88° 44.4'	+6 22	+5 35	*0.64	*0.50	0.76	0.79	0.39	
4373	Bayou BonFouca, Route 433 †	30° 16.3'	88° 47.6'	+11 12	+11 31	*0.43	*0.43	0.53	0.53	0.26	
4375	Tchefuncte River, Lake Pontchartrain	30° 22.7'	90° 09.6'	+11 36	+12 21	*0.48	*0.48	0.57	0.57	0.28	
4377	New Canal USCG station, Lake Pontchartrain	30° 01.6'	90° 06.8'	+11 47	+12 09	*0.43	*0.43	0.51	0.52	0.26	
4379	Chef Menteur, Chef Menteur Pass †	30° 03.9'	88° 48.0'	+6 25	+6 27	*0.88	*0.88	0.97	1.06	0.56	
4381	Michoud Substation, ICWW †	30° 00.4'	88° 56.6'	+6 37	+6 22	*1.09	*1.09	1.23	1.39	0.70	
4383	Shell Beach, Lake Borgne †	29° 52.0'	88° 40.3'	+5 34	+5 13	*1.17	*1.17	1.35	1.45	0.73	
4385	Grand Pass †	30° 07.6'	88° 13.3'	+3 01	+2 36	*1.18	*1.18	1.14	1.47	0.73	
4387	Chandeleur Light †	30° 03'	88° 52'	+1 50	+1 54	*0.98	*0.98	—	1.2	0.6	
4389	Comfort Island †	29° 49.4'	88° 16.2'	+2 47	+2 14	*1.28	*1.28	1.45	1.57	0.80	
4391	Bay Gardene †	29° 35.9'	88° 37.1'	+4 04	+4 04	*1.16	*1.16	1.34	1.44	0.75	
4393	Breton Islands †	29° 29.6'	88° 10.4'	+2 07	+2 08	*1.14	*1.14	1.37	1.37	0.69	
4395	Jack Bay †	29° 22.0'	88° 20.7'	+3 12	+2 48	*1.00	*1.00	—	1.2	0.6	
4397	Grand Bay †	29° 23.1'	88° 22.8'	+2 54	+2 56	*1.08	*1.08	1.25	1.34	0.67	
4399	Lonesome Bayou (Thomasin) †	29° 14'	88° 03'	+0 34	-0 29	*0.90	*0.90	—	1.1	0.5	
<i>Mississippi River</i>											
4401	North Pass, Pass a Loutre †	29° 12.3'	88° 02.2'	+0 42	+0 43	*0.91	*0.91	1.08	1.10	0.55	
4403	Venice, Grand Pass †	29° 16.4'	88° 21.1'	+2 38	+2 54	*0.82	*0.82	0.98	0.98	0.50	
4405	Pilotown †	29° 10.7'	88° 15.5'	+1 59	+2 15	*0.82	*1.00	0.96	1.06	0.50	
4407	Southeast Pass †	29° 07.0'	88° 02.7'	+0 37	-0 28	*0.98	*0.98	—	1.2	0.6	
4409	SOUTH PASS †	28° 59.4'	88° 08.4'				Daily predictions	1.18	1.22	0.61	
4411	Port Eads, South Pass †	29° 00.9'	88° 09.6'	+0 56	-0 17	*0.90	*0.90	—	1.1	0.5	
4413	Southwest Pass †	28° 55.9'	88° 25.7'	+0 35	-0 13	*1.07	*1.07	—	1.3	0.6	
4415	Joseph Bayou †	29° 03.5'	88° 16.3'	+0 37	-0 17	*1.15	*1.15	—	1.4	0.7	
4417	New Orleans <12> †	29° 55'	90° 04'	---	---	---	---	—	—	—	
on Grand Isle, p.212											
4419	Paris Road Bridge (ICWW) †	30° 00'	88° 56'	+5 53	+5 58	*1.04	*1.04	—	1.1	0.6	
4421	Empire Jetty †	29° 15.0'	88° 36.5'	-1 03	-1 45	*1.23	*1.23	—	1.3	0.7	
4423	Bastian Island †	29° 17.2'	88° 39.8'	+0 41	+0 12	*1.13	*1.13	—	1.2	0.6	
4425	Quatre Bayous Pass †	29° 18.6'	88° 51.2'	+2 18	+0 17	*1.23	*1.23	—	1.3	0.6	
4427	Barataria Pass †	29° 16'	88° 57'	+1 00	-0 10	*1.13	*1.13	—	1.2	0.6	
<i>Barataria Bay</i>											
4429	EAST POINT, GRAND ISLE	29° 15.8'	88° 57.4'				Daily predictions	1.04	1.06	0.53	
4431	Bayou Rigaud, Grand Isle †	29° 16'	88° 58'	+1 32	+0 46	*0.94	*0.94	—	1.0	0.5	
4433	Independence Island †	29° 18.6'	88° 56.3'	+2 29	+1 59	*0.85	*0.85	—	0.9	0.4	
4435	Manilla †	29° 25.6'	88° 58.6'	+2 32	+3 13	*0.94	*0.94	—	1.0	0.5	
4437	Caminada Pass (bridge) †	29° 12.6'	90° 02.4'	+0 20	+0 12	*0.94	*0.94	0.99	0.99	0.50	
4439	Port Fourchon, Belle Pass †	29° 06.8'	90° 11.9'	-0 27	-0 29	*1.16	*1.16	1.21	1.23	0.62	
4441	Leeville, Bayou Lafourche †	29° 14.9'	90° 12.7'	+3 00	+3 00	*0.83	*0.83	0.85	0.88	0.44	
4443	East Timbalier Island, Timbalier Bay†	29° 04.6'	90° 17.1'	+0 07	+0 53	*1.22	*1.22	1.25	1.32	0.66	
4445	Timbalier Island, Timbalier Bay †	29° 05'	90° 32'	+0 19	+0 23	*1.13	*1.13	—	1.2	0.6	
4447	Pelican Islands, Timbalier Bay †	29° 07.7'	90° 25.4'	+2 26	+2 26	*1.13	*1.13	—	1.2	0.6	
4449	Wine Island, Terrebonne Bay †	29° 04.7'	90° 37.1'	+1 08	+1 02	*1.23	*1.23	—	1.3	0.6	
4451	Cocodrie, Terrebonne Bay †	29° 14.7'	90° 39.7'	+1 22	+1 33	*0.98	*0.98	1.01	1.05	0.53	
4453	East Isle Dernieres, Lake Peltot †	29° 04.3'	90° 38.40'	-0 55	-0 43	*1.19	*1.19	1.22	1.28	0.64	
4455	Caillou Boca †	29° 03.8'	90° 48.4'	+0 40	+0 48	*1.32	*1.32	—	1.4	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				
	LOUISIANA—cont. Time meridian, 90° W	North	West	h m	h m	ft	ft	ft	ft	ft	
4457	Raccoon Point, Caillou Bay †	29° 03.5'	90° 57.7'	-0 03	-0 20	*1.60	*1.60	—	1.7	0.8	
4459	Texas Gas Platform, Caillou Bay †	29° 10.4'	90° 58.5'	-0 49	-0 20	*1.35	*1.35	1.22	1.51	0.81	
4461	Ship Shoal Light †	28° 55'	91° 04'	-1 54	-1 50	*1.51	*1.51	—	1.6	0.8	
	Atchafalaya Bay	on Grand Isle, p.212		on Galveston, p.216							
4463	Eugene Island †	29° 22'	91° 23'	-0 25	-2 03	*1.40	*1.40	—	1.9	1.0	
4465	Point Au Fer †	29° 20'	91° 21'	-0 21	-2 26	*1.40	*1.40	—	2.0	1.0	
4467	Shell Island †	29° 28'	91° 18'	+0 54	-0 39	*1.07	*1.07	—	1.5	0.7	
4469	Stouts Pass, Six Mile Lake †	29° 44.6'	91° 13.8'	+2 09	+2 32	*0.61	*0.23	0.74	0.89	0.44	
4471	Point Chevreuil †	29° 31'	91° 33'	+1 02	-0 54	*1.07	*1.07	—	1.5	0.8	
4473	Rabbit Island, 5 miles south of †	29° 25'	91° 36'	-0 13	-2 00	*1.40	*1.40	—	2.0	1.0	
4475	South Point, Marsh Island †	29° 29'	91° 46'	-0 19	-1 57	*1.30	*1.30	—	1.8	0.9	
4477	Lighthouse Point †	29° 31'	92° 03'	-1 16	-2 17	*1.40	*1.40	—	2.0	1.0	
4479	Cote Blanche Island, West Cote Blanche Bay †	29° 44'	91° 43'	+2 19	+2 16	*1.00	*1.00	—	1.4	0.7	
4481	Southwest Pass, Vermilion Bay †	29° 35'	92° 02'	-0 32	-0 33	*1.14	*1.14	—	1.6	0.8	
4483	Cypremort Point, Vermillion Bay †	29° 42.8'	91° 52.8'	+2 18	+1 52	*1.18	*0.80	1.32	1.70	0.90	
4485	Weeks Bay, Vermilion Bay †	29° 48'	91° 50'	+1 44	+2 32	*1.07	*1.07	—	1.5	0.7	
4487	Freshwater Canal Locks †	29° 33.3'	92° 18.30'	-2 32	-2 17	*1.52	*1.73	1.48	2.16	1.26	
4489	Mermantau River entrance †	29° 45'	93° 06'	-1 54	-0 59	*1.79	*1.79	—	2.5	1.2	
4491	Calcasieu Pass, Lighthouse wharf †	29° 47'	93° 21'	-2 14	-1 24	*1.43	*1.43	—	2.0	1.0	
	TEXAS										
4493	Sabine Pass, Texas Point †	29° 40.6'	93° 50.2'	-1 51	-1 03	*1.41	*1.66	1.36	1.98	1.18	
4495	Sabine Pass †	29° 43.8'	93° 52.2'	-1 18	-0 38	*1.14	*1.14	1.09	1.60	0.96	
4497	Port Arthur, Sabine Naches Canal †	29° 52.0'	93° 55.8'	+1 08	+1 08	*0.75	*0.53	0.83	1.04	0.57	
4499	Rainbow Bridge, Neches River †	29° 58.8'	93° 52.9'	+4 04	+3 23	*0.75	*0.33	0.90	1.06	0.55	
4501	Galveston Bay Entrance, north jetty †	29° 21.2'	94° 43.4'	-1 06	-0 42	*1.20	*1.17	1.23	1.70	0.96	
4503	GALVESTON, Galveston Channel †	29° 18.6'	94° 47.6'	Daily predictions				1.02	1.41	0.81	
	Galveston Bay										
4505	Port Bolivar †	29° 21.9'	94° 46.8'	+0 57	+0 09	*1.00	*0.63	1.13	1.40	0.85	
4507	Texas City, Turning Basin †	29° 23'	94° 53'	+0 33	+0 41	*1.00	*1.00	—	1.4	0.7	
4509	Eagle Point <20> †	29° 28.8'	94° 55.1'	+5 34	+2 38	*0.80	*0.80	1.01	1.09	0.60	
4511	Clear Lake <20> †	29° 33.8'	95° 04.0'	+6 57	+5 19	*0.83	*0.83	1.05	1.16	0.63	
4513	Morgans Point, Barbours Cut <20> †	29° 40.9'	94° 59.1'	+5 11	+4 17	*0.95	*0.40	1.14	1.31	0.72	
4515	Lynchburg Landing, San Jacinto River <20> †	29° 45.9'	95° 04.7'	+4 55	+4 51	*1.06	*0.67	1.20	1.50	0.80	
4517	Annie's Landing, San Jacinto River <20> †	29° 49.1'	95° 04.7'	+5 20	+5 16	*1.14	*0.83	1.26	1.59	0.88	
4519	Manchester, Houston Ship Channel <20> †	29° 43.1'	95° 15.1'	+4 55	+5 05	*1.15	*0.83	1.27	1.64	0.90	
4521	Round Point, Trinity Bay <20> †	29° 44'	94° 42'	+10 39	+5 15	*0.71	*0.71	—	1.0	0.5	
4523	Umbrella Point, Trinity Bay <20> †	29° 40.8'	94° 52.1'	+4 41	+3 39	*0.93	*0.33	1.14	1.27	0.67	
4525	Point Barrow, Trinity Bay †	29° 44'	94° 50'	+5 48	+4 43	*0.79	*0.79	—	1.1	0.5	
4527	Rollover Pass, East Bay †	29° 30.9'	94° 30.8'	+4 25	+3 16	*0.95	*0.53	1.10	1.35	0.71	
4529	High Island, ICWW †	29° 35.6'	94° 23.4'	+4 18	+4 05	*0.95	*0.60	1.07	1.35	0.72	
4531	Gilchrist, East Bay †	29° 31'	94° 29'	+3 16	+4 18	*0.86	*0.86	—	1.2	0.6	
4533	Jamaica Beach, West Bay †	29° 12'	94° 59'	+2 38	+3 31	*0.71	*0.71	—	1.0	0.5	
4535	Alligator Point, West Bay †	29° 10'	95° 08'	+2 39	+2 33	*0.64	*0.64	—	0.9	0.4	
4537	Christmas Bay †	29° 02.5'	95° 10.5'	+4 47	+2 37	*0.58	*0.23	0.71	0.82	0.42	
4539	Galveston Pleasure Pier †	29° 17.1'	94° 47.3'	-1 33	-1 03	*1.40	*1.30	1.46	2.04	1.12	
4541	San Luis Pass †	29° 05.7'	95° 06.8'	+0 10	+0 11	*1.06	*0.80	1.16	1.50	0.81	
4543	Freeport, US Coast Guard Station †	28° 56.6'	95° 18.1'	-1 18	-1 08	*1.23	*0.77	1.40	1.78	0.93	
4545	Sargent, ICWW †	28° 46.3'	95° 37.0'	+3 04	+0 17	*0.51	*0.13	0.64	0.72	0.36	
4547	Matagorda City, ICWW †	28° 46.2'	95° 54.8'	+3 13	+0 51	*0.41	*0.17	0.49	0.54	0.30	
4549	POR O'CONNOR, MATAGORDA BAY †	28° 27'	96° 24'	Daily predictions, p.220				—	0.5	0.2	
4551	Port Lavaca, Matagorda Bay †	28° 37'	96° 37'					—	0.7	0.3	
4553	Rockport, Aransas Bay †	28° 01.3'	97° 02.8'	—	—			0.36	0.36	0.18	
4555	Port Aransas (H. Caldwell Pier) †	27° 49.6'	97° 03.0'	-0 46	-1 26	*1.15	*0.77	1.30	1.64	0.88	
4557	Corpus Christi †	27° 34.8'	97° 13.0'	-1 09	-1 30	*1.17	*0.73	1.31	1.63	0.93	
4559	Riviera Beach, Baffin Bay †	27° 17'	97° 40'	—	—			—	0.3	0.1	
	MEXICO <13> Gulf of Mexico	on Padre Island, p.224									
4561	PADRE ISLAND (south end) †	26° 04.1'	97° 09.4'	+0 24	Daily predictions		+0.75	1.25	1.47	0.87	
4563	Queen Isabella Causeway (east end) †	26° 04.7'	97° 10.2'	+0 21			*0.87	1.11	1.28	0.68	
4565	Queen Isabella Causeway (west end) †	26° 04.3'	97° 11.5'	+0 52	+0 30	*0.81	*0.63	1.05	1.19	0.62	
4567	Port Isabel †	26° 03.6'	97° 12.9'	+0 10	+0 26	*0.92	*1.00	1.15	1.37	0.74	
4569	South Bay entrance †	26° 03.1'	97° 10.9'	+0 14	+0 21	*0.91	*0.94	1.14	1.35	0.72	
	Matamoros †	25° 53'	97° 31'	+0 55	+0 40	*1.00	*1.00	—	1.4	0.7	
4573	TAMPICO HARBOR (Madero) †	22° 13'	97° 51'	Daily predictions				—	1.4	0.7	
4575	Tuxpan †	21° 00'	97° 20'	+0 02	+0 04	*1.21	*1.21	—	1.7	0.8	
4577	Veracruz †	19° 12'	96° 08'	-0 19	-0 12	*1.21	*1.21	—	1.7	0.8	
4579	Alvarado †	18° 46'	95° 46'	+0 51	+0 27	*0.93	*0.93	—	1.3	0.6	
4581	Coatzacoalcos †	18° 09'	94° 25'	-0 40	+0 05	*1.07	*1.07	—	1.5	0.7	
4583	Frontera †	18° 32'	92° 39'	-0 18	-0 27	*1.14	*1.14	—	1.6	0.8	
4585	Progreso †	21° 18'	89° 40'	+1 19	+0 23	*1.29	*1.29	—	1.8	0.9	
	BELIZE	on Key West, p.172									
4587	Belize City	17° 30'	88° 11'	+0 14	+0 47	*0.46	*0.46	0.6	0.7	0.4	
4589	Punta Gorda	16° 06'	88° 49'	-0 27	+0 30	*0.46	*0.46	0.6	0.8	0.4	

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	Diurnal		
				High Water	Low Water	High Water	Low Water				
	GUATEMALA <13> Time meridian, 90° W	North	West	h m	h m	ft	ft	ft	ft	ft	
4591	Rio Dulce entrance	15° 50'	88° 49'	-1 25	-1 35	*0.92	*0.92	1.2	1.5	0.7	
	HONDURAS <13>			on Key West, p.172							
4593	Puerto Cortes	15° 50'	87° 57'	-0 43	-0 02	*0.38	*0.38	0.5	0.6	0.2	
4595	Port Royal, Isla de Roatan	16° 24'	86° 20'	-2 41	-2 35	*0.92	*0.92	1.2	1.4	0.6	
4597	Puerto Castilla	16° 00'	86° 02'	-0 48	-0 13	*0.46	*0.46	0.6	0.8	0.4	
4599	Isla de Guanaja	16° 29'	85° 54'	-1 26	-1 42	*0.72	*0.72	1.0	1.3	0.6	
4601	Harbor Bay, Great Swan Island	17° 24'	83° 56'	-1 18	-0 33	*0.51	*0.51	0.7	0.9	0.4	
	NICARAGUA <13>			on Hampton Roads, p.120							
4603	Cabo Gracias a Dios	15° 00'	83° 10'	+0 23	-0 32	*0.57	*0.57	1.2	1.6	0.8	
4605	Puerto Cabezas	14° 01'	83° 23'	+3 05	+3 11	*0.56	*0.56	1.4	1.9	0.9	
4607	Cayos de Perlas	12° 25'	83° 25'	+4 53	+4 33	*0.46	*0.46	0.9	1.3	0.6	
4609	Isla del Maiz Grande	12° 10'	83° 03'	+4 38	+4 13	*0.46	*0.46	0.9	1.3	0.3	
4611	Bluefields Lagoon entrance	12° 00'	83° 42'	+3 54	+3 27	*0.28	*0.28	0.7	1.0	0.4	
4613	San Juan del Norte (Greytown)	10° 55'	83° 42'	+4 03	+4 03	*0.28	*0.28	0.7	1.1	0.5	
	COSTA RICA <13>			on Cristobal, p.232							
4615	Limon	10° 00'	83° 02'	-0 32	-0 29	*1.00	*1.00	0.7	1.2	0.5	
	PANAMA <13> Time meridian, 75° W										
4617	Bocas del Toro, Almirante Bay	9° 21'	82° 15'	+0 21	+0 24	*1.14	*1.14	0.8	1.2	0.6	
4619	CRISTOBAL (COLON)	9° 21'	79° 55'	+0 12	+0 00	Daily Predictions		0.7	1.1	0.4	
4621	Bahia de Caledonia	8° 54'	77° 41'	+0 00	+0 00	*1.00	*1.00	0.7	1.1	0.4	
	BERMUDA ISLANDS Time meridian, 60° W			on St. Georges Island, p.236						Mean Spring	
4623	Ireland Island	32° 19'	64° 50'	+0 11	+0 13	*1.07	*1.23	2.6	3.1	1.6	
4625	Ferry Reach (Biological Station)	32° 22.2'	64° 41.7'	-0 04	+0 03	*0.93	*1.00	2.4	2.9	1.3	
4627	ST. GEORGES ISLAND	32° 22.4'	64° 42.2'	+0 00	+0 00	Daily Predictions		2.5	3.0	1.3	
	BAHAMAS Time meridian, 75° W			on Settlement Point, p.240							
4629	Guinchos Cay	22° 45'	78° 07'	+0 06	+0 16	*0.79	*1.11	2.1	2.6	1.2	
4631	Elbow Cay, Cay Sal Bank	23° 57'	80° 28'	+1 18	+1 28	*0.79	*1.11	2.1	2.6	1.2	
4633	Fresh Creek, Andros Island	24° 44'	77° 48'	+0 05	-0 08	*0.97	*1.11	2.4	2.9	1.3	
4635	North Cat Cay	25° 33'	79° 17'	+0 22	+0 32	*0.86	*1.11	2.3	2.8	1.3	
4637	North Bimini	25° 44'	79° 18'	+0 05	+0 22	*0.90	*1.11	2.4	2.9	1.3	
4639	Memory Rock	26° 57'	79° 07'	+0 16	+0 26	*0.86	*1.11	2.3	2.7	1.3	
4641	SETTLEMENT POINT, GRAND BAHAMAS ISLAND	26° 42.6'	78° 59.8'	+0 00	+0 00	Daily Predictions		2.7	3.1	1.4	
4643	Pelican Harbor	26° 23'	76° 58'	+0 18	+0 28	*0.97	*1.11	2.6	3.1	1.4	
4645	Nassau, New Providence Island	25° 05'	77° 21'	-0 08	-0 03	*0.98	*1.44	2.6	3.1	1.9	
4647	Eleuthera Island, west coast	25° 15'	76° 19'	+2 09	+2 33	*0.94	*1.11	2.4	2.9	1.3	
4649	Eleuthera Island, east coast	24° 56'	76° 09'	+0 11	+0 23	*0.82	*1.11	2.2	2.6	1.2	
4651	The Bight, Cat Island	24° 19'	75° 26'	-0 37	-0 27	*0.97	*1.11	2.6	3.1	1.4	
4653	San Salvador	24° 03'	74° 33'	-0 08	-0 06	*0.86	*1.11	2.3	2.8	1.3	
4655	Clarence Harbor, Long Island	23° 06'	74° 59'	+0 41	+0 51	*0.97	*1.11	2.6	3.1	1.4	
4657	Nurse Channel	22° 31'	75° 51'	+0 00	+0 10	*0.79	*1.11	2.1	2.6	1.1	
4659	Datum Bay, Acklin Island	22° 10'	74° 18'	-0 21	-0 11	*0.75	*1.11	2.0	2.6	1.1	
4661	Mathew Town, Great Inagua Island	20° 57'	73° 41'	+0 08	+0 28	*0.79	*1.11	2.1	2.6	1.2	
4663	Abraham Bay, Mayaguana Island	22° 22'	73° 00'	+0 02	-0 10	*0.79	*1.11	2.0	2.5	1.1	
4665	Hawks Nest Anchorage, Turks Islands	21° 26'	71° 07'	-0 27	-0 17	*0.79	*1.11	2.1	2.6	1.1	
	CUBA			on Hampton Roads, p.120							
4667	La Isabela	22° 56'	80° 00'	+0 20	+0 16	*0.64	*0.64	1.6	2.0	0.9	
4669	Bahia de Nuevitas entrance	21° 38'	77° 07'	-0 05	-0 46	*0.52	*0.52	1.3	1.5	0.7	
4671	Nuevitas, Bahia de Nuevitas	21° 35'	77° 15'	+1 32	+1 33	*0.56	*0.56	1.4	1.6	0.7	
4673	Puerto Padre	21° 14'	76° 33'	-0 05	-0 10	*0.84	*0.84	2.1	2.4	1.1	
4675	Puerto de Gibara	21° 07'	76° 07'	-1 06	-1 03	*0.76	*0.76	1.9	2.2	1.0	
4677	Bahia de Nipe entrance	20° 47'	75° 34'	-0 55	-1 01	*0.81	*0.81	2.0	2.3	1.1	
4679	Antilla, Bahia de Nipe	20° 50'	75° 44'	-0 37	-0 44	*0.89	*0.89	2.2	2.5	1.2	
4681	Bahia de Levisa entrance	20° 45'	75° 28'	-1 03	-1 07	*0.77	*0.77	1.9	2.2	1.0	
4683	Sagua de Tamano, Bahia de	20° 43'	75° 19'	-1 00	-1 08	*0.76	*0.76	1.9	2.2	1.0	
4685	Baracoa	20° 21'	74° 30'	-1 14	-1 18	*0.68	*0.68	1.7	2.0	0.9	
4687	Punta Maisi	20° 15'	74° 08'	-1 16	-1 20	*0.88	*0.88	2.2	2.8	1.2	
				on San Juan, p.248						Mean Diurnal	
4689	Guantanamo Bay	19° 54'	75° 09'	-0 17	-0 23	*0.89	*0.89	--	1.4	0.7	
4691	Puerto de Santiago de Cuba	19° 59'	75° 52'	+0 30	+0 17	*0.89	*0.89	--	1.4	0.7	
4693	Puerto de Pilon	19° 54'	77° 19'	+0 11	+0 13	*0.72	*0.72	--	1.2	0.6	
4695	Manzanillo, Golfo de Guacanayabo	20° 21'	77° 07'	+1 41	+1 38	+1.39	+1.39	--	2.2	1.1	
4697	Casilda	21° 45'	79° 59'	+1 04	+0 52	*0.65	*0.65	--	1.0	0.5	

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	Diurnal		
				High Water	Low Water	High Water	Low Water				
	CUBA-cont. Time meridian, 75° W	North	West	h m	h m	ft	ft	ft	ft	ft	
on San Juan, p.248											
4699	Bahia de Cienfuegos	22° 04'	80° 27'	+0 49	+0 58	*0.80	*0.80	--	1.3	0.6	
4701	Punta Pasacaballos	22° 08'	80° 27'	+0 51	+0 58	*0.81	*0.81	--	1.3	0.6	
4703	Cienfuegos	21° 27'	82° 55'	+0 43	+0 52	*0.54	*0.54	--	0.9	0.4	
4705	Carapachibey, Isla de Pinos	22° 14'	83° 34'	+2 04	+2 23	*0.54	*0.54	--	0.9	0.4	
4707	La Coloma	21° 52'	84° 58'	-0 50	-0 07	*0.92	*0.92	1.2	1.5	0.8	
on Key West, p.172											
4709	Bahia Honda	22° 58'	83° 13'	-1 04	-0 23	*0.76	*0.76	1.0	1.4	0.7	
4711	Havana	23° 09'	82° 20'	-0 48	-0 40	*0.76	*0.76	1.0	1.2	0.6	
4713	Matanzas	23° 04'	81° 32'	-0 59	-0 59	*0.92	*0.92	1.2	1.5	0.8	
4715	Cardenas	23° 04'	81° 12'	-0 11	+0 34	*1.08	*1.08	1.4	1.8	1.0	
on Galveston, p.216											
4717	JAMAICA	17° 53'	76° 20'	-7 45	-7 45	*0.57	*0.57	--	0.8	0.4	
4719	Port Morant	17° 56'	76° 51'	-7 07	-8 14	*0.50	*0.50	--	0.7	0.3	
4721	Port Royal †	17° 54'	77° 04'	--	--	--	--	--	0.8	0.4	
4723	Galleon Harbour	18° 18'	78° 24'	-2 47	-2 47	*1.21	*1.21	--	1.7	0.8	
4725	South Negril Point †	18° 28'	77° 55'	-6 44	-6 40	*0.71	*0.71	--	1.0	0.5	
4727	Montego Bay	18° 25'	77° 14'	-7 17	-7 17	*0.57	*0.57	--	0.8	0.4	
4729	St. Ann's Bay	19° 20'	81° 20'	-8 01	-8 01	*0.93	*0.93	--	1.3	0.6	
on San Juan, p.248											
4731	HAITI and DOMINICAN REPUBLIC	18° 33'	72° 21'	-0 35	-0 38	*0.99	*0.99	--	1.6	0.8	
4733	Port-au-Prince	19° 43'	71° 46'	-1 04	-1 07	*1.44	*1.44	--	2.3	1.2	
4735	Massacre, Riviere du entrance	19° 49'	70° 42'	-1 12	-1 20	*1.44	*1.44	--	2.3	1.2	
4737	Puerto Plata	19° 12'	69° 20'	-0 54	-0 53	*1.25	*1.25	--	2.0	1.0	
4739	Santa Barbara de Samana	19° 13'	69° 36'	-0 40	-0 43	*2.05	*2.05	--	3.3	1.6	
on Galveston, p.216											
4741	Saona, Isla †	18° 10'	68° 40'	--	--	--	--	--	0.6	0.3	
4743	La Romana †	18° 25'	68° 57'	--	--	--	--	--	0.6	--	
4745	Santo Domingo †	18° 27'	69° 53'	-6 28	-11 01	*0.57	*0.57	--	0.8	0.4	
4747	Barahona †	18° 12'	71° 05'	--	--	--	--	--	0.7	0.3	
4749	Jacmel †	18° 13'	72° 34'	-10 00	-10 00	*1.43	*1.43	--	2.0	1.0	
on Magueyes, p.244											
4751	PUERTO RICO	17° 58.3'	67° 02.8'	Daily predictions				0.65	0.67	0.34	
4753	Time meridian, 60° W	17° 58'	66° 55'	-1 22	+0 18	*1.00	*1.00	--	0.7	0.3	
4755	MAGUEYES ISLAND †	17° 58'	66° 37'	-0 39	-0 13	*1.14	*1.14	--	0.8	0.4	
4757	Playa de Ponce †	17° 59'	66° 27'	+0 16	-0 37	*1.14	*1.14	--	0.8	0.4	
4759	Playa Cortada †	17° 58'	66° 04'	+0 52	+0 13	*1.14	*1.14	--	0.8	0.4	
4761	Arroyo †	18° 00'	65° 53'	-0 56	+1 13	*1.00	*1.00	--	0.7	0.4	
4763	Puerto Maunabo †	18° 19'	65° 14'	-2 34	+2 40	*1.57	*1.57	--	1.1	0.6	
4765	Culebrita, Isla †	18° 06'	65° 26'	-2 26	+3 01	*1.14	*1.14	--	0.8	0.4	
on San Juan, p.248											
4767	Punta Mulas, Isla de Vieques	18° 09'	65° 26'	-0 14	-0 17	*0.72	*0.72	--	1.2	0.6	
4769	Roosevelt Roads	18° 14'	65° 37'	+0 02	+0 20	*0.63	*0.63	--	1.0	0.5	
4771	Ensenada Honda, Culebra Island	18° 18'	65° 17'	-0 34	-0 15	*0.63	*0.63	--	1.0	0.5	
4773	Culebra	18° 18.05'	65° 18.15'	-0 19	+0 08	*0.72	*0.73	0.78	1.14	0.55	
4775	Playa de Fajardo	18° 20'	65° 38'	-0 10	-0 13	*0.99	*0.99	--	1.6	0.8	
4777	SAN JUAN	18° 27.5'	66° 07.0'	Daily predictions				1.10	1.58	0.76	
4779	Mayaguez	18° 13.2'	67° 09.6'	-0 09	-0 11	*0.93	*0.76	1.06	1.40	0.69	
4781	Puerto Real	18° 05'	67° 11'	-0 33	-0 26	*0.72	*0.72	--	1.2	0.6	
on Charlotte Amalie, p.252											
4783	LESSER ANTILLES & VIRGIN ISLANDS	18° 21.8'	65° 02.1'	+0 01	-0 17	*1.39	*1.39	0.90	1.28	0.58	
4785	St. Thomas Island	18° 22.2'	64° 57.8'	+0 03	-0 17	*1.41	*1.41	0.93	1.29	0.58	
4787	Botany Bay †	18° 22'	64° 55'	-0 06	-0 17	*1.59	*1.59	1.0	1.4	0.7	
4789	Dorothea Bay, Ruy Point †	18° 20.9'	64° 51.8'	-0 11	-0 14	*1.30	*1.30	0.81	1.19	0.56	
4791	Water Bay †	18° 19.1'	64° 51.1'	-0 46	+0 44	*1.28	*1.28	0.82	1.09	0.54	
4793	Redhook Bay †	18° 20.1'	64° 55.2'	Daily predictions				0.70	0.79	0.40	
4795	CHARLOTTE AMALIE †	18° 17.8'	64° 49.0'	-0 09	+0 06	*0.97	*0.97	0.63	0.80	0.40	
on Charlotte Amalie, p.252											
4797	St. John's Island	18° 21.6'	64° 48.2'	-0 27	-0 31	*1.13	*1.13	0.61	1.06	0.49	
4799	Lovango Cay †	18° 22.0'	64° 49.2'	-0 12	-0 20	*1.22	*1.22	0.90	1.12	0.51	
4801	Leinster Point †	18° 20.9'	64° 43.0'	-0 13	-0 13	*1.08	*1.08	0.72	0.90	0.44	
4803	Coral Harbor †	18° 19.0'	64° 43.4'	-0 04	-0 06	*1.04	*1.14	0.72	0.82	0.41	

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				
	LESSER ANTILLES & VIRGIN ISLANDS—cont. Time meridian, 60° W	North	West	h m	h m	ft	ft	ft	ft	ft	
on Lime Tree Bay, p.256											
4805	<i>St. Croix Island</i> Christiansted Harbor †	17° 45.0'	64° 42.3'	-1 37	+0 23	*1.03	*1.03	0.69	0.73	0.37	
4807	LIME TREE BAY, ST.CROIX ISLAND †	17° 41.8'	64° 45.2'		Daily predictions			0.69	0.71	0.36	
4809	Fredericksted †	17° 42.8'	64° 53.0'	-0 14	+0 59	*1.01	*1.00	0.70	0.73	0.36	
4811	St. Barthelemy †	17° 54'	62° 51'	-3 26	-1 11	*1.87	*1.00	--	1.4	0.7	
4813	Pointe-a-Pitre, Guadeloupe	16° 14'	61° 32'	-4 28	-0 33	*3.24	*1.80	--	1.0	0.5	
on Key West, p.172											
4815	Roseau, Dominica	15° 18'	61° 24'	-6 29	-6 05	*0.65	*0.65	0.7	1.2	0.6	
4817	Fort-de-France, Martinique	14° 35'	61° 03'	-6 55	-6 18	*0.38	*0.38	0.5	--	0.5	
4819	Castries, St. Lucia	14° 01'	61° 00'	-7 09	-7 05	*0.62	*0.62	0.8	1.2	0.6	
4821	Vieux Fort Bay, St. Lucia	13° 44'	60° 58'	-6 02	-5 38	*0.69	*0.69	0.9	--	0.7	
4823	Kingstown, St. Vincent <15>	13° 10'	61° 13'	-7 09	-6 38	*1.53	*1.53	2.0	2.7	1.4	
4825	Bridgetown, Barbados	13° 06'	59° 38'	-6 28	-5 47	*1.30	*1.30	1.7	2.1	1.0	
4827	Grenada	12° 04'	61° 45'	-7 26	-6 51	*0.92	*0.92	1.2	1.5	0.8	
4829	Scarborough, Tobago	11° 11'	60° 44'	-6 40	-6 22	*1.60	*1.60	2.1	2.7	1.4	
on Cristobal, p.232											
4831	Schottegat, Curacao †	12° 07'	68° 56'	+0 25	+1 09	*0.82	*0.82	--	0.9	0.5	
4833	St. Nicolaas Bay, Aruba †	12° 26'	69° 54'	---	---	---	---	--	0.8	0.4	
COLOMBIA <13> Time meridian, 75° W											
4835	Isla de Providencia	13° 20'	81° 23'	+7 53	+7 53	*0.28	*0.28	0.7	1.1	0.4	
on Cristobal, p.232											
4837	Turbo	8° 10'	76° 45'	-0 49	-0 30	*1.43	*1.43	1.0	1.4	0.6	
4839	Covenas	9° 20'	75° 40'	-1 06	-0 46	*1.14	*1.14	0.8	1.2	0.5	
4841	Cartagena, Bahia de Cartagena	10° 24'	75° 33'	-1 16	-0 48	*1.00	*1.00	0.7	1.1	0.4	
4843	Puerto Colombia	11° 00'	74° 58'	-0 52	-1 08	*1.29	*1.29	0.9	1.3	0.5	
4845	Santa Marta	11° 18'	74° 12'	-1 19	-1 08	*1.00	*1.00	0.7	1.1	0.4	
4847	Riohacha	11° 33'	72° 55'	-1 54	-1 09	*1.00	*1.00	0.7	1.1	0.4	
VENEZUELA Time meridian, 60° 30' W											
4849	ISLA ZAPARA, Lake Maracaibo	11° 00'	71° 35'		Daily predictions			2.8	3.0	2.7	
4851	Bahia de Tablazos, Lake Maracaibo	10° 53'	71° 35'	+0 30	+0 11	*0.61	*0.31	2.1	2.3	1.5	
4853	Punta de Palmas	10° 48'	71° 37'	+0 35	+0 16	*0.49	*0.31	1.6	1.8	1.2	
on Amuay, p.264											
4855	AMUAY	11° 45'	70° 13'		Daily predictions			--	1.2	0.6	
4857	La Guaira †	10° 36'	66° 56'	-2 29	-1 59	+0.8	+1.0	--	1.0	1.5	
4859	Carenero †	10° 32'	66° 07'	-1 51	-1 59	+0.8	+1.0	--	1.0	1.5	
4861	Cumana †	10° 28'	64° 11'	-2 37	-1 02	-0.1	0.0	--	1.1	0.5	
4863	Porlamar, Isla de Margarita †	10° 57'	63° 51'	-1 19	-0 59	+0.6	0.0	--	1.8	0.9	
4865	Carupano †	10° 40'	63° 15'	-1 17	-0 42	+0.2	0.0	--	1.4	0.7	
on Punta Gorda, p.268											
4867	Gulf of Paria	10° 39'	61° 56'	-1 15	-2 05	*0.38	*0.38	2.2	2.7	1.4	
4869	Puerto de Hierro	10° 37'	62° 05'	-0 46	-1 19	*0.59	*0.59	3.3	4.2	2.0	
4871	Barra de Maturin, channel entrance	10° 18'	62° 31'	-0 22	-0 45	-1.0	+0.2	4.6	5.7	2.8	
4873	PUNTA GORDA, Rio San Juan	10° 10'	62° 38'		Daily predictions			5.8	7.1	3.2	
4875	Boca Pedenales entrance	10° 01'	62° 12'	-0 03	-0 34	-1.3	+0.2	4.3	5.4	2.6	
4877	Rio Orinoco entrance, Isla Ramon Isidro	8° 39'	60° 35'	+0 07	-0 12	+0.2	+1.0	5.0	6.7	3.8	
TRINIDAD Time meridian, 60° W											
4879	Staubles Bay	10° 41'	61° 39'	-0 37	-1 32	(*0.33+1.7)		1.9	2.5	2.8	
4881	Carenage Bay	10° 41'	61° 36'	-0 28	-1 10	(*0.34+1.6)		2.0	2.6	2.7	
4883	Port of Spain	10° 39'	61° 31'	-0 14	-0 42	(*0.31+1.4)		1.8	2.3	2.4	
4885	Bonasse pier	10° 05'	61° 52'	-0 13	-0 45	-1.0	+1.4	3.4	4.4	3.4	
4887	Erin Bay	10° 04'	61° 39'	-0 20	-1 11	-0.3	+1.2	4.3	5.6	3.6	
4889	Guayaguarey Bay	10° 09'	61° 01'	-1 02	-1 39	(*0.53+1.3)		3.1	3.8	3.0	
4891	Nariva River	10° 24'	61° 02'	-0 36	-1 46	(*0.41+1.3)		2.4	3.1	2.5	
on Suriname Rivier, p.272											
4893	GUYANA Time meridian, 56° 15' W	6° 52'	58° 25'	+0 07	+0 31	+1.6	+1.0	6.6	8.3	5.6	
4895	Parika, Essequibo River	6° 48'	58° 10'	-0 13	-0 29	+0.9	+1.1	5.8	8.0	5.3	

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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				
		North	West	h m	h m	ft	ft	ft	ft	ft	
on Suriname Rivier, p.272											
4897	Nickerie River	5° 57'	56° 59'	+0 09	+0.21	+1.1	0.0	7.1	9.2	4.9	
4899	SURINAME RIVIER ENTRANCE	6° 00'	55° 14'		Daily predictions			6.0	7.6	4.3	
4901	Paramaribo, Suriname Rivier	5° 49'	55° 09'	+1 09	+1.42	0.0	0.0	6.0	7.3	4.3	
on Recife, p.276											
4909	Cape Cassipore	3° 49'	51° 01'	+1 24	+1 19	+1.5	+0.3	7.2	9.5	5.2	
4911	Rio Cunani entrance	2° 50'	50° 53'	+2 10	+2 24	(*2.42-0.2)		14.5	19.0	10.1	
4913	Ilha de Maraca anchorage	2° 09'	50° 30'	+1 40	+1 52	(*2.42-0.2)		14.5	19.0	10.1	
4915	Ilha do Brigue, Amazon River	0° 55'	50° 05'	+7 09	+7 40	+8.3	+1.1	13.2	15.7	9.0	
4917	Ponta Pedreira, Amazon River	0° 11'	50° 43'	+6 31	+6 43	*2.08	*2.23	12.3	16.2	9.0	
4919	Macapa, Amazon River	0° 03'	51° 11'	+10 57	+12 13	+2.8	+0.4	8.4	9.5	5.9	
4921	Canal de Braganca, Rio Para entrance	0° 23'	47° 55'	+6 09	+6 09	+1.8	-0.1	7.9	10.4	5.1	
4923	Salinopolis	0° 39'	47° 23'	+2 38	+2 52	*1.99	*1.54	12.5	15.9	8.3	
4925	Belem (Para)	1° 27'	48° 30'	+6 34	+7 37	+2.9	+0.7	8.2	10.1	6.1	
4927	Ilhas de Sao Joao	1° 17'	44° 55'	+1 31	+1 31	*1.70	*1.31	10.7	14.1	7.0	
4929	Sao Luiz	2° 32'	44° 18'	+2 28	+2 25	(*2.35-0.7)		14.1	17.1	9.3	
4931	Santana, Recifes de	2° 16'	43° 36'	+0 46	+0 45	*1.58	*1.15	10.0	13.1	6.5	
4933	Tutoia, Baia da	2° 46'	42° 14'	+0 11	+0 10	+2.4	+0.4	8.0	10.0	5.7	
4935	Luis Correia	2° 53'	41° 40'	+0 01	+0 13	+1.8	+0.4	7.4	9.4	5.4	
4937	Camocim	2° 53'	40° 52'	+1 07	+1 06	+2.0	+0.4	7.6	9.7	5.5	
4939	Rio Ceara (bar)	3° 41'	38° 37'	-0 13	-0 21	+0.2	-0.1	6.3	8.3	4.3	
4941	Fortaleza	3° 43'	38° 29'	-0 08	-0 12	+0.2	-0.3	6.5	8.5	4.2	
on Rio de Janeiro, p.280											
4943	Fernando de Noronha	3° 50'	32° 25'	+1 32	+1 33	-1.2	-0.5	4.5	6.0	2.9	
4945	Rocas, Atol das	3° 51'	33° 49'	+1 43	+1 44	+2.3	0.0	7.5	10.0	4.9	
on Rio de Janeiro, p.284											
4947	Macau, Rio Acu	5° 06'	36° 41'	+1 29	+1 58	+0.6	-0.1	5.9	7.6	4.1	
4949	Natal	5° 47'	35° 12'	+0 28	+0 30	+0.1	-0.2	5.5	7.3	3.7	
4951	Cabedelo	6° 58'	34° 50'	+0 36	+0 37	+0.1	-0.2	5.5	7.2	3.7	
4953	Tambau	7° 06'	34° 50'	-0 04	-0 03	+0.7	-0.1	6.0	7.6	4.1	
4955	RECIFE	8° 03'	34° 52'		Daily predictions			5.3	7.1	3.8	
4957	Maceio	9° 40'	35° 43'	+0 10	+0 14	-0.3	-0.2	5.1	6.8	3.6	
4959	Rio Sao Francisco (bar)	10° 31'	36° 24'	+0 06	+0 14	-0.7	0.0	4.5	6.0	3.5	
4961	Aracaju	10° 56'	37° 03'	+0 33	+0 48	-0.8	-0.3	4.7	6.1	3.3	
4963	Salvador	12° 58'	38° 31'	-0 02	-0 08	+0.6	+0.4	5.5	7.4	4.3	
4965	Ponta da Areia	12° 47'	38° 30'	+0 10	+0 06	+0.6	-0.1	5.9	7.6	4.0	
4967	Morro de Sao Paulo	13° 21'	38° 54'	-0 11	-0 13	-0.6	0.0	4.6	6.0	3.5	
4969	Camamu	13° 54'	38° 58'	-0 08	-0 04	-0.2	+0.1	4.9	6.5	3.8	
4971	Ilheus	14° 48'	39° 02'	-0 33	-0 32	-0.9	-0.3	4.6	5.8	3.2	
4973	Canavieiras	15° 40'	38° 56'	+0 16	+0 22	-1.0	-0.2	4.5	5.8	3.1	
4975	Santa Cruz Cabralia	16° 17'	39° 02'	-0 35	-0 35	-1.2	-0.5	4.5	6.0	2.9	
4977	Cumuruxatiba	17° 06'	39° 11'	-0 23	-0 09	+0.4	+0.3	5.3	7.2	4.2	
4979	Caravelas	17° 43'	39° 09'	-0 50	-0 49	-0.8	-0.5	4.9	6.4	3.1	
4981	Abrolhos Anchorage	17° 58'	38° 42'	-0 01	+0 04	+0.6	+0.1	5.7	7.6	4.2	
4983	Vitoria	20° 19'	40° 19'	-0 34	-0 35	*0.66	*0.75	3.3	4.6	2.6	
4985	Guarapari	20° 40'	40° 30'	+0 12	+0 17	*0.62	*0.75	3.1	4.2	2.5	
4987	Sao Joao da Barra	21° 38'	41° 03'	+0 34	-0 42	-0.1	-0.2	2.6	3.6	2.1	
4989	Macae (Imbituba Bay)	22° 23'	41° 46'	-0 23	-1 08	0.0	-0.2	2.7	3.6	2.1	
4991	Armacao dos Buzios	22° 45'	41° 53'	-0 01	-0 55	-0.1	-0.1	2.5	3.4	2.1	
4993	Cabo Frio	23° 00'	42° 03'	-0 03	-0 05	*0.91	*0.90	2.3	3.2	2.0	
4995	RIO DE JANEIRO	22° 54'	43° 10'		Daily predictions			2.5	3.5	2.2	
4997	Itacurussa	22° 56'	43° 55'	+0 50	-0 26	0.0	-0.1	2.6	3.3	2.2	
4999	Angra dos Reis	23° 01'	44° 19'	-0 35	-0 40	*0.86	*0.86	2.1	3.0	1.9	
5001	Parati	23° 14'	44° 43'	-0 09	-1 25	-0.1	0.0	2.4	3.4	2.2	
5003	Sao Sebastiao	23° 49'	45° 24'	-0 28	-1 24	*0.94	*1.00	2.3	3.3	2.2	
5005	SANTOS	23° 57'	46° 19'		Daily predictions			2.6	3.8	2.4	
5007	Cananeia	25° 01'	47° 56'	+1 09	-1 09	+0.4	+0.2	2.7	4.1	2.6	
5009	Paranagua	25° 31'	48° 27'	+1 51	-1 32	+1.8	+0.2	4.1	6.0	3.2	
5011	Sao Francisco do Sul	26° 15'	48° 38'	+0 38	-	+0.8	-0.1	3.4	4.8	2.6	
5013	Itajai	26° 54'	48° 39'	-0 08	-0 16	(*0.76+0.4)		1.9	2.8	2.1	
5015	Porto Belo	27° 09'	48° 33'	-0 38	-0 28	*0.74	*0.74	1.8	2.5	1.7	
5017	Florianopolis	27° 36'	48° 34'	-0 14	+0 15	*0.69	*0.70	1.7	2.4	1.6	
5019	Imbituba	28° 14'	48° 39'	-0 17	-1 10	*0.54	*0.50	1.4	2.0	1.2	
5021	Laguna	28° 30'	48° 47'	+1 10	-1 31	(*0.32+0.4)		0.8	1.2	1.1	
5023	Barra do Rio Grande <18> †	32° 10'	52° 05'	-	-	-	-	-	0.8	0.3	

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				
	URUGUAY Time meridian, 45° W	South	West	h m	h m	ft	ft	ft	ft	ft	
5025	Montevideo	34° 55'	56° 13'	-5 10	-7 11	(*0.52+1.6)		1.1	1.4	3.0	
5027	Colonia, Rio de la Plata	34° 28'	57° 51'	+0 17	-0 33	(*0.52+1.2)		1.1	1.3	2.6	
	ARGENTINA			on Buenos Aires, p.288							
5029	Rio de la Plata	34° 34'	58° 23'								
5031	BUENOS AIRES	34° 50'	57° 53'	-1 50	-2 04	+0.2	+0.6	2.1	2.5	2.6	
5033	La Plata	34° 50'	57° 30'	-3 00	-3 24	+0.8	+0.8	2.1	2.5	3.4	
5035	Banco Chico	35° 06'	57° 08'	-5 25	-5 39	+0.8	+0.8	2.1	2.5	3.4	
5037	Banco Cuirassier	35° 26'	57° 07'	-7 10	-7 23	+2.2	+1.1	3.2	3.8	4.2	
5039	Punta Piedras	36° 18'	56° 47'	-8 50	-9 26	+1.2	+0.3	3.0	3.7	3.3	
5041	Punta Norte del Cabo San Antonio <17>	38° 03'	57° 33'	-0 02	+0 14	+0.7	+0.2	2.6	3.0	3.0	
5043	Mar del Plata <17>	38° 35'	58° 42'	-0 18	-0 22	+1.5	-0.3	3.9	4.2	3.2	
	on Puerto Ingeniero White, p.292										
5045	Faro Recalada	39° 00'	61° 16'	-0 48	-0 28	-4.9	-1.3	6.5	7.1	5.3	
5047	Monte Hermoso	38° 59'	61° 41'	-0 46	-0 40	-3.4	-1.2	7.9	9.1	6.2	
	Bahia Blanca										
5049	Punta Ancla	38° 57'	62° 00'	-0 57	-0 21	-1.9	-0.9	9.1	9.9	7.1	
5051	Puerto Rosales	38° 55'	62° 04'	-0 28	-0 06	-0.5	-0.5	10.1	11.0	8.0	
5053	Puerto Belgrano	38° 53'	62° 06'	-0 22	-0 07	-0.5	-0.3	9.9	11.0	8.0	
5055	PUERTO INGENIERO WHITE	38° 47'	62° 16'					10.1	11.6	8.5	
5057	General Daniel Cerri	38° 45'	62° 24'	+0 16	+0 20	+1.8	+0.1	11.8	12.9	9.4	
5059	Canal del Sur, Isla Bermejo	39° 01'	61° 58'	-0 55	-0 24	-2.2	-0.9	8.8	9.6	6.9	
5061	Canal Bermejo, Isla Trinidad	39° 05'	61° 58'	-0 57	-0 26	-2.7	-1.0	8.4	9.2	6.6	
5063	Punta Lobos, Isla Trinidad	39° 11'	61° 52'	-0 58	-0 41	-3.3	-1.2	8.0	8.8	6.2	
5065	El Chara (Punta Laberinto)	39° 26'	62° 03'	-1 19	-0 51	-2.9	-1.0	8.3	9.2	6.5	
5067	Bahia Arengada, Islete NW	40° 01'	62° 10'	-2 07	-2 00	(*0.63-0.6)	6.4	7.1	4.8		
5069	Bahia San Blas	40° 33'	62° 14'	-3 47	-3 41	*0.50 *0.35	5.6	6.0	4.0		
5071	Faro Segunda Barranca	40° 47'	62° 17'	-4 51	-4 40	(*0.53-0.5)	5.4	5.9	4.0		
5073	Punta Redonda, Rio Negro entrance	41° 02'	62° 46'	-6 16	-6 10	-1.6	-1.4	9.9	11.2	7.0	
	on Comodoro Rivadavia, p.296										
5075	Golfo San Matias	41° 02'	64° 06'	+7 14	+7 08	*1.45 *1.39		20.3	24.0	14.8	
5077	Caleta de los Loros	40° 48'	64° 52'	+7 30	+7 23	(*1.57-1.6)		21.9	25.6	14.6	
	Golfo San Jose										
5079	San Roman	42° 15'	64° 14'	+7 15	+7 18	(*1.42-1.1)		19.8	23.4	13.5	
5081	Pueyrredon (Fondeadero)	42° 24'	64° 09'	+7 46	+7 40	(*1.52-2.2)		21.2	24.6	13.5	
5083	La Argentina (Fondeadero)	42° 23'	64° 34'	+7 04	+6 58	*1.31 *1.36		18.0	23.3	13.5	
5085	Punta Norte	42° 05'	63° 46'	+6 50	+6 44	-0.8	-1.4	14.5	17.0	9.5	
5087	Caleta Valdes	42° 31'	63° 36'	+5 04	+4 58	-5.2	-1.9	10.6	12.4	6.7	
5089	Punta Delgada	42° 46'	63° 38'	+4 08	+4 02	-5.8	-2.0	10.1	11.7	6.4	
	Golfo Nuevo										
5091	Punta Ninfas (Fondeadero)	42° 57'	64° 25'	+2 48	+3 31	-2.3	-1.0	12.6	15.4	8.6	
5093	Puerto Piramides	42° 35'	64° 17'	+2 56	+3 33	-2.7	-1.3	12.5	15.0	8.3	
5095	Puerto Madryn	42° 46'	65° 02'	+3 08	+3 42	-0.8	-0.1	13.2	16.0	9.8	
5097	Bahia Engano	43° 20'	65° 04'	+2 06	+2 00	-2.7	-1.3	12.5	15.2	8.2	
5099	Isla Escondida	43° 43'	65° 17'	+2 10	+2 05	-3.3	-0.3	10.9	13.1	8.5	
5101	Bahia Janssen	44° 02'	65° 14'	+1 48	+2 03	-4.1	-1.9	11.7	13.9	7.3	
5103	Cabo Raso	44° 20'	65° 14'	+1 41	+1 26	-4.8	-1.6	10.7	12.4	7.0	
5105	Bahia Cruz	44° 27'	65° 19'	+2 13	+2 07	-6.1	-2.1	9.9	11.5	6.2	
5107	Santa Elena, Puerto	44° 31'	65° 22'	+1 45	+1 40	-3.1	-0.4	11.2	13.6	8.5	
5109	Bahia Camarones	44° 54'	65° 36'	+1 10	+1 14	-2.3	+0.1	11.5	13.7	9.2	
	Golfo San Jorge										
5111	Caleta Leones	45° 03'	65° 37'	+1 11	+1 05	-0.7	-0.2	13.4	14.7	9.8	
5113	Bahia Gil (Caleta Hormo)	45° 02'	65° 41'	+0 42	+0 36	-1.7	+0.3	11.9	14.1	9.6	
5115	Puerto Melo	45° 01'	65° 50'	+0 27	+0 24	-1.5	+0.1	12.3	14.6	9.6	
5117	Isla Tova	45° 06'	65° 59'	+0 27	+0 24	-1.5	+0.1	12.3	14.6	9.6	
5119	Bahia Bustamante	45° 07'	66° 32'	+0 28	+0 23	-0.8	+0.7	12.4	14.7	10.2	
5121	COMODORO RIVADAVIA	45° 52'	67° 29'					14.0	16.3	10.3	
5123	Cabo Blanco	47° 12'	65° 45'	-1 15	-1 20	-2.3	-0.3	11.9	13.2	9.0	
5125	Puerto Deseado	47° 45'	65° 55'	-2 52	-2 44	-0.6	+1.0	12.4	14.5	10.5	
5127	Bahia Oso Marino	47° 56'	65° 48'	-3 35	-3 40	-1.2	+1.2	11.5	14.1	10.3	
5129	Bahia de los Nodales	48° 01'	65° 57'	-3 01	-3 06	-1.2	+0.1	12.6	15.3	9.7	
5131	Bahia Laura	48° 23'	66° 29'	-5 28	-5 28	+6.7	-1.9	22.5	25.4	12.7	
5133	Bahia San Julian (Punta Pena)	49° 15'	67° 40'	-4 58	-5 04	(*1.40-1.4)		19.5	23.6	13.0	
	on Punta Loyola, p.300										
5135	Santa Cruz (Punta Quilla)	50° 07'	68° 25'	+0 43	+0 44	+0.2	+0.1	26.0	32.4	20.4	
5137	Ria Coig	50° 57'	69° 10'	-0 05	-0 04	0.0	-0.7	26.6	32.2	19.9	
5139	PUNTA LOYOLA	51° 36'	69° 01'					25.9	32.4	20.3	
5141	Rio Gallegos (Reducion Beacon)	51° 37'	69° 13'	+0 21	+0 30	+4.2	+1.1	29.0	36.2	22.9	
5143	Cabo Virgenes	52° 21'	68° 22'	-0 36	-0 55	-2.1	0.0	23.8	29.8	19.2	

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				
	ARGENTINA Tierra del Fuego <19> Time meridian, 45° W	South	West	h m	h m	ft	ft	ft	ft	ft	
5145	Bahia San Sebastian	53° 10'	68° 30'	-7 50	-7 55	*1.69	*1.91	22.8	28.6	17.7	
5147	Rio Grande (Muelle)	53° 48'	67° 41'	-7 50	-7 55	*1.15	*1.18	15.8	19.2	11.8	
5149	Cabo San Pablo	54° 17'	66° 42'	-8 48	-8 53	*1.17	*1.27	16.0	19.3	12.2	
				on Comodoro Rivadavia, p.296							
5151	Bahia Thetis	54° 38'	65° 15'	+1 00	+1 07	-2.0	-0.6	8.7	10.6	7.2	
	SOUTH ATLANTIC OCEAN ISLANDS Time meridian, 60° W			on Pictou, p.8							
5153	<i>Falkland Islands</i> Port Louis (Berkeley Sound)	51° 33'	58° 09'	+7 50	+7 47	-0.9	-1.0	3.3	4.2	3.0	
5155	Stanley Harbor	51° 42'	57° 51'	+7 51	+7 48	-1.0	-1.0	3.2	4.2	2.9	
5157	<i>South Georgia</i> Royal Bay (Moltke Harbor)	54° 31'	36° 01'	+9 58	+10 19	*0.36	*0.13	1.7	2.3	1.2	
5159	Leith Harbor	54° 08'	36° 41'	+9 15	+9 35	*0.64	*0.65	2.0	2.7	2.5	
	Time meridian, local										
5161	<i>South Orkneys</i> Scotia Bay, Laurie Island	60° 44'	44° 39'	+8 21	+8 32	-0.3	-0.6	3.5	5.0	3.5	
5163	<i>South Shetlands</i> Port Foster, Deception Island	62° 58'	60° 34'	+8 26	+8 38	0.0	-0.1	3.3	4.3	3.9	
	Time meridian, 45° W										
5165	Admiralty Bay	62° 03'	58° 24'	+9 49	+10 05	-0.5	-0.4	3.1	4.4	3.5	

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 309 and 310.

- † The tide at this location is chiefly diurnal. SEE CAUTION NOTE ON PAGE 305.
- <1> Neap low water falls lower than spring low water.
- <2> Wharves are dry at low water.
- <3> There is a bore in the Petitcodiac River. It arrives at Moncton about 1h 38m before high water at St. John: its height is about 3 to 3 1/2 feet on average spring tides, but it sometimes exceeds 5 feet on highest tides. On small tides it is not much more than a large ripple.
- <4> The Reversing Falls at St. John—The most turbulence in the gorge occurs on days when the tides are largest. On largest tides the outward fall is between 15 and 16 1/2 feet and is accompanied by a greater turbulence than the inward fall which is between 11 and 12 1/2 feet. The outward fall is at its greatest between 2 hours before and 1 hour after low water at St John: the inward fall is greater just before the time of high water.
- <5> For Eastern Standard, time subtract one hour from the predictions obtained using these differences.
- <6> Low water time difference is +2h 47m. SEE CAUTION NOTE ON PAGE 317.
- <7> Tidal information applies only during low river stages.
- <8> Values for the Hudson River above the George Washington Bridge are based upon averages for the six months May to October, when the freshwater discharge is at a minimum.
- <9> In Albemarle and Pamlico Sounds, except near the inlets, the periodic tide has a mean range of less than 0.5 foot.
- <11> In Choctawhatchee and Perdido Bays the periodic tide has a mean range of less than 0.5 foot.
- <12> At New Orleans the diurnal range of the tide during low river stages averages 0.8 foot. There is no periodic tide at high river stages.
- <13> For places on the Pacific coast, see "Tide Tables, West Coast of North and South America."
- <14> Inside, in the various bays, except near the inlets, the periodic tide has a mean range of less than 0.5 foot.
- <15> Spring range is given instead of diurnal range.
- <16> A "Pororoca", a bore, reported to vary from 5 to 15 feet at spring tides, occurs in the Araguari, Guama and Guajara Rivers.
- <17> Predictions will be approximate.
- <18> Diurnal range is given instead of spring range.
- <19> For places in Magellan Strait, on the south coast of Tierra del Fuego and on the Pacific coast, see "Tide Tables, West Coast of North and South America."
- <20> The time differences should be applied only to the higher high and the lower low water times of the reference station.
- <21> From Oak Hill southward in Mosquito Lagoon the periodic tide is negligible.
- <22> In Indian River north of Palm Bay, in Banana River and in Banana Creek, the periodic tides are negligible.
- <24> The periodic tide is negligible, at this location and above.
- <25> Data is for low river levels. At high levels the tidal range is reduced.
- <26> The periodic range of the tide is negligible at this location.
- <27> The periodic range of the tide is negligible inside Sugarloaf Sound.
- <29> "The times listed for this reference station are the Greenwich Intervals for high water and low water respectively. Please see the discussion at the beginning of Table 2 under the heading "Time differences".

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 0755 at New York (The Battery), N.Y., on a day when the predicted tides from Table 1 are given as:

Low Water		High Water	
Time h.m.	Height ft	Time h.m.	Height ft
0522	0.1	1114	4.2
1741	0.6	2310	4.1

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

The duration of rise is $11^{\text{h}}\ 14^{\text{m}} - 5^{\text{h}}\ 22^{\text{m}} = 5^{\text{h}}\ 52^{\text{m}}$.

The time after low water for which the height is required is $7^{\text{h}}\ 55^{\text{m}} - 5^{\text{h}}\ 22^{\text{m}} = 2^{\text{h}}\ 33^{\text{m}}$.

The range of tide is $4.2 - 0.1 = 4.1$ feet.

The duration of rise or fall in Table 3 is given in heavy-faced type for each 20 minutes from $4^{\text{h}}\ 10^{\text{m}}$ to $10^{\text{h}}\ 40^{\text{m}}$. The nearest tabular value to $5^{\text{h}}\ 52^{\text{m}}$, the above duration of rise, is $6^{\text{h}}\ 00^{\text{m}}$; and on the horizontal line of $6^{\text{h}}\ 00^{\text{m}}$, the nearest tabular time to $2^{\text{h}}\ 33^{\text{m}}$ after low water for which the height is required is $2^{\text{h}}\ 36^{\text{m}}$. Following down the column in which this $2^{\text{h}}\ 36^{\text{m}}$ is found to its intersection with the line of the range 4.0 feet (the nearest tabular value to the above range of 4.1 feet), the correction is found to be 1.6 feet, which being reckoned from low water, must be added, making $0.1 + 1.6 = 1.7$ feet or 52 centimeters which is the required height above mean lower low water, the datum for New York.

Example 2.—Find the height of the tide at 0300 at Somewhere, U.S.A. on a day when the predicted tides are given as:

High Water		Low Water	
Time h.m.	Height ft	Time h.m.	Height ft
0012	11.3	0638	-2.0
1251	11.0	1853	-0.8

The duration of fall is $6^{\text{h}}\ 38^{\text{m}} - 00^{\text{h}}\ 12^{\text{m}} = 6^{\text{h}}\ 26^{\text{m}}$.

The time after high water for which the height is required is $3^{\text{h}}\ 00^{\text{m}} - 00^{\text{h}}\ 12^{\text{m}} = 2^{\text{h}}\ 48^{\text{m}}$.

The range of tide is $11.3 - (-2.0) = 13.3$ feet.

Entering Table 3 at the duration of fall of $6^{\text{h}}\ 20^{\text{m}}$, which is the nearest value to $6^{\text{h}}\ 26^{\text{m}}$, the nearest value on the horizontal line to $2^{\text{h}}\ 48^{\text{m}}$ is $2^{\text{h}}\ 45^{\text{m}}$ after high water. Follow down this column to its intersection with a range of 13.5 feet which is the nearest tabular value to 13.3 feet, one obtains 5.3 which, being calculated from high water, must be subtracted from it. The approximate height at $03^{\text{h}}\ 00^{\text{m}}$ is, therefore, $11.3 - 5.3 = 6.0$ feet or 183 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.

TABLE 3.—HEIGHT OF TIDE AT ANY TIME

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 3^h 00^m could be determined as shown below.

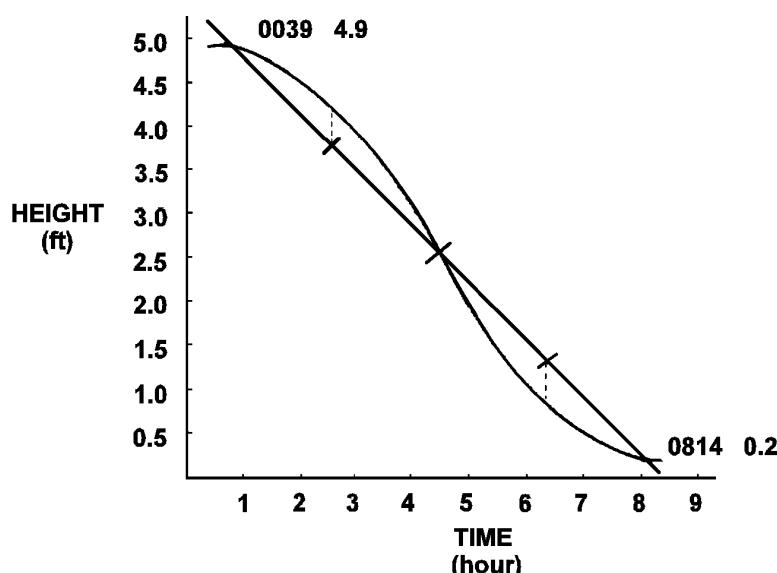


TABLE 3.—HEIGHT OF TIDE AT ANY TIME

		Time from the nearest high water or low water																	
		h. m.	h. m.	h. m.	h. m.	h. m.	h. m.	h. m.	h. m.	h. m.	h. m.	h. m.	h. m.	h. m.	h. m.	h. m.	h. m.	h. m.	
h. m.		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 10		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 20		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			
4 40																			
Duration of rise or fall, see footnote	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			
Duration of rise or fall, see footnote	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			
		Correction to height																	
		Ft.	Ft.	Ft.	Ft.	Ft.	Ft.	Ft.	Ft.	Ft.	Ft.	Ft.	Ft.	Ft.	Ft.	Ft.	Ft.	Ft.	Ft.
Ft.		0.5	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	0.2	0.2	0.2
0.5		1.0	0.0	0.0	0.0	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.5
1.0		1.5	0.0	0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.5	0.6	0.7	0.8			
1.5		2.0	0.0	0.0	0.0	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0			
2.0		2.5	0.0	0.0	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2		
2.5		3.0	0.0	0.0	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2		
3.0		3.5	0.0	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.2	1.4	1.6	1.8	
3.5		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		
4.0		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		
4.5		5.0	0.0	0.1	0.2	0.3	0.5	0.6	0.8	1.0	1.2	1.5	1.9	2.2	2.6	3.0	3.4	3.8	
5.0		5.5	0.0	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			
5.5		6.0	0.0	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			
6.0		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		
6.5		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		
7.0		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		
7.5		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		
8.0		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		
8.5		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		
9.0		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		
9.5		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		
10.0		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		
10.5		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		
11.0		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		
11.5		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		
12.0		12.5	0.0	0.1	0.3	0.5	0.8	1.2	1.6	2.6	1.9	2.6	3.1	3.7	4.3	5.0	5.6	6.2	
12.5		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		
13.0		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		
13.5		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		
14.0		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		
14.5		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		
15.0		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		
15.5		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		
16.0		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		
16.5		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		
17.0		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		
17.5		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		
18.0		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		
18.5		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		
19.0</td																			

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, 2016

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.	06 00	18 07	06 08	17 59	06 17	17 50	06 26	17 41	06 35	17 32	06 45	17 22
	06 02	18 09	06 10	18 01	06 19	17 53	06 27	17 44	06 36	17 35	06 46	17 25
	06 04	18 11	06 12	18 03	06 20	17 55	06 29	17 47	06 37	17 38	06 47	17 29
	06 06	18 13	06 14	18 06	06 21	17 58	06 29	17 50	06 38	17 41	06 47	17 33
	06 08	18 15	06 15	18 08	06 22	18 00	06 30	17 53	06 38	17 45	06 46	17 36
	06 09	18 16	06 16	18 09	06 23	18 02	06 30	17 55	06 37	17 48	06 45	17 40
	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.	06 10	18 17	06 16	18 12	06 22	18 06	06 28	18 00	06 34	17 54	06 41	17 47
	06 11	18 18	06 16	18 13	06 21	18 07	06 27	18 02	06 32	17 56	06 38	17 51
	06 11	18 18	06 15	18 13	06 20	18 09	06 25	18 04	06 30	17 59	06 35	17 54
	06 10	18 17	06 14	18 13	06 18	18 09	06 22	18 05	06 27	18 01	06 31	17 57
	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.	06 09	18 16	06 12	18 13	06 14	18 10	06 17	18 08	06 20	18 05	06 22	18 02
	06 08	18 14	06 10	18 13	06 12	18 11	06 14	18 09	06 16	18 07	06 18	18 05
	06 07	18 13	06 08	18 12	06 09	18 11	06 10	18 10	06 12	18 09	06 13	18 07
	06 05	18 12	06 06	18 11	06 06	18 11	06 07	18 10	06 07	18 10	06 08	18 10
	06 04	18 10	06 04	18 11	06 03	18 11	06 03	18 11	06 03	18 11	06 03	18 12
	06 02	18 09	06 01	18 10	06 01	18 11	06 00	18 12	05 59	18 13	05 57	18 14
	06 01	18 07	05 59	18 09	05 58	18 11	05 56	18 12	05 54	18 14	05 52	18 16
Apr.	05 59	18 06	05 57	18 08	05 55	18 10	05 52	18 13	05 50	18 15	05 47	18 18
	05 58	18 04	05 55	18 07	05 52	18 10	05 49	18 14	05 46	18 17	05 42	18 20
	05 57	18 03	05 53	18 07	05 49	18 11	05 46	18 14	05 42	18 18	05 38	18 23
	05 55	18 02	05 51	18 06	05 47	18 11	05 43	18 15	05 38	18 20	05 33	18 25
	05 55	18 01	05 50	18 06	05 45	18 11	05 40	18 16	05 34	18 22	05 29	18 27
	05 54	18 01	05 48	18 06	05 43	18 11	05 37	18 17	05 31	18 23	05 25	18 30
	05 53	18 00	05 47	18 06	05 41	18 12	05 35	18 18	05 28	18 25	05 21	18 32
May	05 53	18 00	05 46	18 06	05 40	18 13	05 33	18 20	05 26	18 27	05 18	18 35
	05 53	18 00	05 46	18 07	05 39	18 14	05 32	18 21	05 24	18 29	05 16	18 37
	05 53	18 00	05 46	18 07	05 38	18 15	05 30	18 23	05 22	18 31	05 13	18 40
	05 53	18 01	05 46	18 08	05 38	18 16	05 30	18 24	05 21	18 33	05 12	18 42
	05 54	18 01	05 46	18 09	05 38	18 18	05 29	18 26	05 20	18 35	05 10	18 45
	05 55	18 02	05 46	18 10	05 38	18 19	05 29	18 28	05 20	18 37	05 10	18 47
June	05 56	18 03	05 47	18 12	05 38	18 20	05 29	18 29	05 20	18 39	05 10	18 49
	05 57	18 04	05 48	18 13	05 39	18 22	05 30	18 31	05 20	18 40	05 10	18 51
	05 58	18 05	05 49	18 14	05 40	18 23	05 31	18 32	05 21	18 42	05 11	18 52
	05 59	18 06	05 50	18 15	05 41	18 24	05 32	18 33	05 22	18 43	05 12	18 53
	06 00	18 07	05 51	18 16	05 42	18 25	05 33	18 34	05 24	18 43	05 13	18 54
	06 01	18 08	05 52	18 17	05 44	18 25	05 35	18 34	05 25	18 44	05 15	18 54
July	06 02	18 09	05 53	18 17	05 45	18 25	05 36	18 34	05 27	18 43	05 17	18 53
	06 02	18 09	05 54	18 17	05 46	18 26	05 38	18 34	05 29	18 43	05 19	18 52
	06 03	18 10	05 55	18 17	05 47	18 25	05 39	18 33	05 31	18 42	05 22	18 51
	06 03	18 10	05 56	18 17	05 48	18 25	05 41	18 32	05 33	18 40	05 24	18 49
	06 03	18 10	05 56	18 17	05 49	18 24	05 42	18 31	05 34	18 38	05 26	18 46
	06 03	18 10	05 56	18 17	05 49	18 24	05 42	18 31	05 34	18 38	05 26	18 46
Aug.	06 03	18 10	05 56	18 16	05 50	18 22	05 43	18 29	05 36	18 36	05 29	18 43
	06 02	18 09	05 56	18 15	05 51	18 21	05 44	18 27	05 38	18 33	05 31	18 40
	06 01	18 08	05 56	18 13	05 51	18 19	05 45	18 24	05 40	18 30	05 33	18 36
	06 00	18 07	05 56	18 12	05 51	18 16	05 46	18 21	05 41	18 26	05 35	18 32
	05 59	18 06	05 55	18 10	05 51	18 14	05 47	18 18	05 42	18 22	05 37	18 27
	05 58	18 04	05 54	18 08	05 51	18 11	05 47	18 15	05 44	18 18	05 39	18 22
Sept.	05 56	18 03	05 54	18 05	05 51	18 08	05 48	18 11	05 45	18 14	05 41	18 17
	05 55	18 01	05 53	18 03	05 50	18 05	05 48	18 07	05 46	18 10	05 43	18 12
	05 53	17 59	05 51	18 01	05 50	18 02	05 48	18 04	05 47	18 05	05 45	18 07
	05 51	17 58	05 50	17 58	05 50	17 59	05 49	18 00	05 48	18 00	05 47	18 01
	05 49	17 56	05 49	17 56	05 49	17 56	05 49	17 56	05 49	17 56	05 49	17 56
	05 48	17 54	05 48	17 53	05 49	17 53	05 49	17 52	05 50	17 51	05 51	17 51
Oct.	05 46	17 52	05 47	17 51	05 49	17 50	05 50	17 48	05 51	17 47	05 53	17 45
	05 44	17 51	05 46	17 49	05 48	17 47	05 50	17 45	05 52	17 43	05 55	17 40
	05 43	17 50	05 46	17 47	05 48	17 44	05 51	17 41	05 54	17 39	05 57	17 35
	05 42	17 49	05 45	17 45	05 49	17 42	05 52	17 38	05 56	17 35	05 59	17 31
	05 41	17 48	05 45	17 44	05 49	17 40	05 53	17 36	05 57	17 31	06 02	17 27
	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.	05 40	17 47	05 45	17 42	05 51	17 36	05 56	17 31	06 02	17 25	06 08	17 19
	05 40	17 47	05 46	17 41	05 52	17 35	05 58	17 29	06 04	17 23	06 11	17 16
	05 41	17 48	05 47	17 41	05 53	17 35	06 00	17 28	06 07	17 21	06 14	17 14
	05 41	17 48	05 48	17 42	05 55	17 35	06 02	17 27	06 10	17 20	06 18	17 12
	05 42	17 50	05 50	17 42	05 57	17 35	06 05	17 27	06 13	17 19	06 21	17 11
	05 44	17 51	05 51	17 43	05 59	17 36	06 07	17 27	06 16	17 19	06 25	17 10
Dec.	05 45	17 53	05 54	17 45	06 02	17 37	06 10	17 28	06 19	17 19	06 28	17 10
	05 47	17 55	05 56	17 47	06 04	17 38	06 13	17 29	06 22	17 20	06 32	17 11
	05 50	17 57	05 58	17 49	06 07	17 40	06 16	17 31	06 25	17 22	06 35	17 12
	05 52	18 00	06 01	17 51	06 09	17 42	06 18	17 33	06 28	17 24	06 38	17 14
	05 55	18 02	06 03	17 53	06 12	17 45	06 21	17 36	06 31	17 26	06 41	17 16
	05 57	18 05	06 06	17 56	06 14	17 47	06 23	17 38	06 33	17 29	06 43	17 19
Jan.	05 59	18 07	06 08	17 58	06 17	17 50	06 26	17 41	06 35	17 32	06 45	17 22
	06 00	18 07	06 08	17 59	06 17	17 50	06 26	17 42	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, 2016

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Date	30° N.		32° N.		34° N.		36° N.		38° N.		40° N.	
	Rise h. m.	Set h. m.										
Jan.	06 56	17 11	07 00	17 06	07 05	17 01	07 10	16 56	07 16	16 51	07 22	16 45
	06 57	17 15	07 01	17 10	07 06	17 05	07 11	17 00	07 16	16 55	07 22	16 49
	06 57	17 19	07 01	17 14	07 06	17 10	07 11	17 05	07 16	17 00	07 21	16 54
	06 57	17 23	07 01	17 19	07 05	17 14	07 10	17 10	07 15	17 05	07 20	17 00
	06 55	17 27	06 59	17 23	07 04	17 19	07 08	17 15	07 13	17 10	07 17	17 05
	06 54	17 31	06 57	17 28	07 01	17 24	07 05	17 20	07 10	17 16	07 14	17 11
	06 51	17 36	06 55	17 32	06 58	17 29	07 02	17 25	07 06	17 21	07 10	17 17
Feb.	06 48	17 40	06 51	17 37	06 54	17 34	06 58	17 30	07 01	17 27	07 05	17 23
	06 45	17 44	06 47	17 41	06 50	17 39	06 53	17 36	06 56	17 32	07 00	17 29
	06 40	17 48	06 43	17 46	06 45	17 43	06 48	17 41	06 51	17 38	06 54	17 35
	06 36	17 52	06 38	17 50	06 40	17 48	06 42	17 46	06 45	17 43	06 47	17 41
	06 31	17 56	06 33	17 54	06 34	17 52	06 36	17 51	06 38	17 49	06 40	17 47
Mar.	06 26	17 59	06 27	17 58	06 28	17 57	06 30	17 55	06 31	17 54	06 33	17 52
	06 20	18 03	06 21	18 02	06 22	18 01	06 23	18 00	06 24	17 59	06 25	17 58
	06 14	18 06	06 15	18 05	06 15	18 05	06 16	18 04	06 17	18 04	06 17	18 03
	06 08	18 09	06 09	18 09	06 09	18 09	06 09	18 09	06 09	18 08	06 09	18 08
	06 02	18 12	06 02	18 12	06 02	18 13	06 02	18 13	06 02	18 13	06 01	18 13
	05 56	18 15	05 56	18 16	05 55	18 16	05 55	18 17	05 54	18 18	05 53	18 18
	05 50	18 18	05 49	18 19	05 48	18 20	05 47	18 21	05 46	18 22	05 45	18 24
Apr.	05 44	18 21	05 43	18 23	05 42	18 24	05 40	18 25	05 39	18 27	05 37	18 29
	05 38	18 24	05 37	18 26	05 35	18 28	05 33	18 30	05 31	18 32	05 29	18 34
	05 33	18 27	05 31	18 29	05 29	18 32	05 27	18 34	05 24	18 36	05 22	18 39
	05 28	18 31	05 25	18 33	05 23	18 35	05 20	18 38	05 17	18 41	05 14	18 44
	05 22	18 34	05 20	18 36	05 17	18 39	05 14	18 42	05 11	18 46	05 08	18 49
	05 18	18 37	05 15	18 40	05 12	18 43	05 08	18 47	05 05	18 50	05 01	18 54
May	05 14	18 40	05 10	18 44	05 07	18 47	05 03	18 51	04 59	18 55	04 55	18 59
	05 10	18 43	05 06	18 47	05 02	18 51	04 58	18 55	04 54	18 59	04 49	19 04
	05 06	18 47	05 03	18 51	04 58	18 55	04 54	18 59	04 49	19 04	04 45	19 09
	05 04	18 50	04 59	18 54	04 55	18 58	04 50	19 03	04 46	19 08	04 40	19 13
	05 01	18 53	04 57	18 57	04 52	19 02	04 48	19 07	04 42	19 12	04 37	19 18
	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	04 59	18 58	04 54	19 03	04 49	19 08	04 44	19 13	04 38	19 19	04 32	19 25
	04 58	19 00	04 53	19 05	04 48	19 11	04 43	19 16	04 37	19 22	04 31	19 28
	04 58	19 02	04 53	19 07	04 48	19 13	04 43	19 18	04 37	19 24	04 31	19 30
	04 59	19 04	04 54	19 09	04 49	19 14	04 43	19 20	04 37	19 26	04 31	19 32
	05 00	19 05	04 55	19 10	04 50	19 15	04 44	19 21	04 39	19 26	04 32	19 33
	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	05 04	19 05	04 59	19 10	04 54	19 15	04 49	19 20	04 43	19 26	04 37	19 32
	05 06	19 04	05 01	19 09	04 57	19 14	04 51	19 19	04 46	19 25	04 40	19 31
	05 09	19 03	05 04	19 07	04 59	19 12	04 54	19 17	04 49	19 22	04 43	19 28
	05 12	19 01	05 07	19 05	05 03	19 10	04 58	19 14	04 53	19 20	04 47	19 25
	05 14	18 58	05 10	19 02	05 06	19 07	05 01	19 11	04 57	19 16	04 51	19 21
	05 17	18 55	05 14	18 59	05 10	19 03	05 05	19 07	05 01	19 12	04 56	19 16
Aug.	05 20	18 51	05 17	18 55	05 13	18 59	05 09	19 03	05 05	19 07	05 01	19 11
	05 23	18 47	05 20	18 51	05 17	18 54	05 13	18 57	05 09	19 01	05 05	19 05
	05 26	18 43	05 23	18 46	05 20	18 49	05 17	18 52	05 14	18 55	05 10	18 59
	05 29	18 38	05 27	18 40	05 24	18 43	05 21	18 46	05 18	18 49	05 15	18 52
	05 32	18 32	05 30	18 35	05 27	18 37	05 25	18 39	05 22	18 42	05 19	18 45
	05 35	18 27	05 33	18 29	05 31	18 31	05 29	18 33	05 27	18 35	05 24	18 37
Sept.	05 38	18 21	05 36	18 22	05 34	18 24	05 33	18 26	05 31	18 27	05 29	18 29
	05 40	18 15	05 39	18 16	05 38	18 17	05 37	18 19	05 35	18 20	05 34	18 21
	05 43	18 09	05 42	18 09	05 41	18 10	05 40	18 11	05 39	18 12	05 38	18 13
	05 46	18 02	05 45	18 03	05 45	18 03	05 44	18 04	05 44	18 04	05 43	18 05
	05 48	17 56	05 48	17 56	05 48	17 56	05 48	17 56	05 48	17 56	05 48	17 57
	05 51	17 50	05 51	17 50	05 52	17 49	05 52	17 49	05 52	17 49	05 53	17 48
Oct.	05 54	17 44	05 55	17 43	05 55	17 42	05 56	17 42	05 57	17 41	05 58	17 40
	05 57	17 38	05 58	17 37	05 59	17 36	06 00	17 35	06 01	17 33	06 03	17 32
	06 00	17 32	06 02	17 31	06 03	17 29	06 04	17 28	06 06	17 26	06 08	17 24
	06 03	17 27	06 05	17 25	06 07	17 23	06 09	17 21	06 11	17 19	06 13	17 17
	06 07	17 22	06 09	17 19	06 11	17 17	06 13	17 15	06 16	17 13	06 18	17 10
	06 10	17 17	06 13	17 14	06 15	17 12	06 18	17 09	06 21	17 06	06 24	17 03
Nov.	06 14	17 13	06 17	17 10	06 20	17 07	06 23	17 04	06 26	17 01	06 29	16 57
	06 18	17 09	06 21	17 06	06 24	17 03	06 28	16 59	06 31	16 56	06 35	16 52
	06 22	17 06	06 25	17 02	06 29	16 59	06 33	16 55	06 37	16 51	06 41	16 47
	06 26	17 03	06 30	17 00	06 34	16 56	06 38	16 52	06 42	16 47	06 47	16 43
	06 30	17 01	06 34	16 57	06 38	16 53	06 43	16 49	06 47	16 44	06 52	16 39
	06 34	17 00	06 39	16 56	06 43	16 52	06 48	16 47	06 53	16 42	06 58	16 37
Dec.	06 38	17 00	06 43	16 55	06 47	16 51	06 52	16 46	06 57	16 41	07 03	16 35
	06 42	17 00	06 47	16 55	06 52	16 51	06 57	16 46	07 02	16 40	07 08	16 35
	06 46	17 01	06 51	16 56	06 55	16 51	07 01	16 46	07 06	16 41	07 12	16 35
	06 49	17 03	06 54	16 58	06 59	16 53	07 04	16 48	07 10	16 42	07 16	16 36
	06 52	17 05	06 57	17 00	07 02	16 55	07 07	16 50	07 12	16 44	07 18	16 38
	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.	06 56	17 11	07 00	17 06	07 05	17 01	07 10	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, 2016

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.	07 28	16 39	07 35	16 32	07 42	16 25	07 50	16 17	07 59	16 08	08 08	15 59
	07 28	16 43	07 35	16 37	07 42	16 30	07 49	16 22	07 58	16 14	08 07	16 04
	07 27	16 48	07 33	16 42	07 40	16 36	07 48	16 28	07 56	16 20	08 05	16 11
	07 25	16 54	07 31	16 48	07 38	16 42	07 45	16 35	07 52	16 27	08 01	16 19
	07 23	17 00	07 28	16 55	07 34	16 49	07 41	16 42	07 48	16 35	07 56	16 27
	07 19	17 06	07 24	17 01	07 30	16 56	07 36	16 50	07 42	16 43	07 50	16 36
	07 14	17 13	07 19	17 08	07 24	17 03	07 30	16 57	07 36	16 51	07 42	16 45
Feb.	07 09	17 19	07 13	17 15	07 18	17 10	07 23	17 05	07 28	17 00	07 34	16 54
	07 03	17 26	07 07	17 22	07 11	17 18	07 16	17 13	07 20	17 09	07 26	17 04
	06 57	17 32	07 00	17 29	07 04	17 25	07 08	17 21	07 12	17 17	07 16	17 13
	06 50	17 38	06 53	17 36	06 56	17 33	06 59	17 29	07 02	17 26	07 06	17 22
	06 42	17 44	06 45	17 42	06 47	17 40	06 50	17 37	06 53	17 34	06 56	17 31
Mar.	06 35	17 51	06 36	17 49	06 38	17 47	06 40	17 45	06 43	17 43	06 45	17 40
	06 26	17 56	06 28	17 55	06 29	17 54	06 31	17 52	06 32	17 51	06 34	17 49
	06 18	18 02	06 19	18 02	06 20	18 01	06 21	18 00	06 22	17 59	06 23	17 58
	06 10	18 08	06 10	18 08	06 10	18 08	06 11	18 07	06 11	18 07	06 11	18 07
	06 01	18 14	06 01	18 14	06 01	18 14	06 00	18 15	06 00	18 15	06 00	18 16
	05 53	18 19	05 52	18 20	05 51	18 21	05 50	18 22	05 49	18 23	05 48	18 24
	05 44	18 25	05 43	18 26	05 41	18 28	05 40	18 29	05 38	18 31	05 36	18 33
Apr.	05 36	18 30	05 34	18 32	05 32	18 34	05 30	18 36	05 27	18 39	05 25	18 41
	05 27	18 36	05 25	18 38	05 22	18 41	05 20	18 44	05 17	18 47	05 14	18 50
	05 19	18 41	05 16	18 44	05 13	18 47	05 10	18 51	05 07	18 54	05 03	18 58
	05 11	18 47	05 08	18 50	05 04	18 54	05 01	18 58	04 56	19 02	04 52	19 07
	05 04	18 53	05 00	18 56	04 56	19 01	04 52	19 05	04 47	19 10	04 42	19 15
	04 57	18 58	04 53	19 02	04 48	19 07	04 43	19 12	04 38	19 18	04 32	19 24
May	04 50	19 03	04 46	19 08	04 41	19 14	04 35	19 19	04 29	19 25	04 22	19 32
	04 45	19 09	04 39	19 14	04 34	19 20	04 28	19 26	04 21	19 33	04 14	19 40
	04 39	19 14	04 34	19 20	04 28	19 26	04 21	19 33	04 14	19 40	04 06	19 48
	04 35	19 19	04 29	19 25	04 22	19 32	04 15	19 39	04 07	19 47	03 59	19 55
	04 31	19 24	04 24	19 30	04 18	19 37	04 10	19 45	04 02	19 53	03 52	20 02
	04 28	19 28	04 21	19 34	04 14	19 42	04 06	19 50	03 57	19 59	03 47	20 08
June	04 26	19 31	04 19	19 38	04 11	19 46	04 03	19 54	03 54	20 04	03 44	20 14
	04 24	19 35	04 17	19 42	04 09	19 50	04 01	19 58	03 51	20 08	03 41	20 18
	04 24	19 37	04 17	19 44	04 09	19 52	04 00	20 01	03 50	20 11	03 40	20 21
	04 24	19 39	04 17	19 46	04 09	19 54	04 00	20 03	03 50	20 12	03 40	20 23
	04 25	19 40	04 18	19 47	04 10	19 55	04 01	20 04	03 52	20 13	03 41	20 24
	04 27	19 40	04 20	19 47	04 12	19 55	04 04	20 03	03 54	20 13	03 43	20 23
July	04 30	19 39	04 23	19 46	04 15	19 53	04 07	20 02	03 57	20 11	03 47	20 22
	04 33	19 37	04 26	19 44	04 19	19 51	04 11	19 59	04 02	20 08	03 52	20 18
	04 37	19 34	04 31	19 41	04 23	19 48	04 15	19 56	04 07	20 04	03 57	20 14
	04 41	19 31	04 35	19 37	04 28	19 44	04 21	19 51	04 13	19 59	04 04	20 08
	04 46	19 26	04 40	19 32	04 34	19 39	04 27	19 46	04 19	19 53	04 10	20 02
	04 51	19 21	04 45	19 27	04 39	19 33	04 33	19 39	04 26	19 46	04 18	19 54
Aug.	04 56	19 16	04 51	19 21	04 45	19 26	04 39	19 32	04 33	19 39	04 25	19 46
	05 01	19 10	04 56	19 14	04 51	19 19	04 46	19 24	04 40	19 30	04 33	19 37
	05 06	19 03	05 02	19 07	04 57	19 11	04 53	19 16	04 47	19 21	04 41	19 27
	05 11	18 55	05 08	18 59	05 04	19 03	04 59	19 07	04 55	19 12	04 49	19 17
	05 16	18 48	05 13	18 51	05 10	18 54	05 06	18 58	05 02	19 02	04 58	19 06
	05 22	18 40	05 19	18 42	05 16	18 45	05 13	18 48	05 10	18 52	05 06	18 55
Sept.	05 27	18 31	05 25	18 34	05 22	18 36	05 20	18 38	05 17	18 41	05 14	18 44
	05 32	18 23	05 30	18 25	05 29	18 26	05 27	18 28	05 24	18 30	05 22	18 33
	05 37	18 14	05 36	18 15	05 35	18 17	05 33	18 18	05 32	18 19	05 30	18 21
	05 42	18 05	05 42	18 06	05 41	18 07	05 40	18 08	05 39	18 08	05 38	18 09
	05 48	17 57	05 47	17 57	05 47	17 57	05 47	17 57	05 47	17 57	05 47	17 58
	05 53	17 48	05 53	17 48	05 54	17 47	05 54	17 47	05 54	17 46	05 55	17 46
Oct.	05 58	17 39	05 59	17 38	06 00	17 38	06 01	17 37	06 02	17 35	06 03	17 34
	06 04	17 31	06 05	17 30	06 07	17 28	06 08	17 26	06 10	17 25	06 12	17 23
	06 09	17 23	06 11	17 21	06 13	17 19	06 15	17 17	06 18	17 14	06 20	17 12
	06 15	17 15	06 17	17 12	06 20	17 10	06 23	17 07	06 26	17 04	06 29	17 01
	06 21	17 07	06 24	17 04	06 27	17 01	06 30	16 58	06 34	16 54	06 38	16 50
	06 27	17 00	06 30	16 57	06 34	16 53	06 38	16 49	06 42	16 45	06 46	16 40
Nov.	06 33	16 54	06 37	16 50	06 41	16 46	06 45	16 41	06 50	16 36	06 55	16 31
	06 39	16 48	06 43	16 43	06 48	16 39	06 53	16 34	06 59	16 28	07 04	16 22
	06 45	16 42	06 50	16 38	06 55	16 32	07 01	16 27	07 07	16 21	07 13	16 14
	06 51	16 38	06 57	16 33	07 02	16 27	07 08	16 21	07 15	16 14	07 22	16 07
	06 57	16 34	07 03	16 28	07 09	16 22	07 16	16 16	07 23	16 09	07 31	16 01
	07 03	16 31	07 09	16 25	07 16	16 19	07 23	16 12	07 30	16 04	07 39	15 56
Dec.	07 09	16 29	07 15	16 23	07 22	16 16	07 29	16 09	07 37	16 01	07 46	15 52
	07 14	16 29	07 20	16 22	07 27	16 15	07 35	16 07	07 43	15 59	07 53	15 49
	07 18	16 29	07 25	16 22	07 32	16 15	07 40	16 07	07 49	15 58	07 58	15 48
	07 22	16 30	07 29	16 23	07 36	16 16	07 44	16 07	07 53	15 59	08 03	15 49
	07 25	16 32	07 32	16 25	07 39	16 18	07 47	16 09	07 56	16 01	08 06	15 51
	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.	07 28	16 39	07 35	16 33	07 42	16 26	07 50	16 18	07 58	16 09	08 08	15 59

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

TABLE 4.-SUNRISE AND SUNSET, 2016

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

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

TABLE 4.-SUNRISE AND SUNSET, 2016

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

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

TABLE 4.-SUNRISE AND SUNSET, 2016

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

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

TABLE 4.-SUNRISE AND SUNSET, 2016

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.	05 02	19 05	04 57	19 09	04 52	19 15	04 46	19 20	04 41	19 26	04 34	19 32
	05 06	19 05	05 01	19 10	04 56	19 15	04 50	19 20	04 45	19 26	04 39	19 32
	05 10	19 06	05 05	19 10	05 00	19 15	04 55	19 20	04 50	19 25	04 44	19 31
	05 14	19 05	05 09	19 09	05 05	19 14	05 00	19 19	04 55	19 24	04 49	19 29
	05 18	19 04	05 14	19 08	05 10	19 12	05 05	19 17	05 00	19 22	04 55	19 27
	05 23	19 02	05 19	19 06	05 15	19 10	05 10	19 14	05 06	19 18	05 01	19 23
	05 27	18 59	05 24	19 03	05 20	19 06	05 16	19 10	05 12	19 15	05 07	19 19
Feb.	05 32	18 56	05 28	18 59	05 25	19 03	05 21	19 06	05 17	19 10	05 13	19 14
	05 36	18 52	05 33	18 55	05 30	18 58	05 26	19 01	05 23	19 05	05 19	19 08
	05 40	18 48	05 37	18 51	05 35	18 53	05 32	18 56	05 29	18 59	05 25	19 02
	05 44	18 43	05 42	18 45	05 39	18 48	05 37	18 50	05 34	18 53	05 31	18 55
	05 48	18 38	05 46	18 40	05 44	18 42	05 42	18 44	05 39	18 46	05 37	18 48
Mar.	05 51	18 33	05 50	18 34	05 48	18 36	05 46	18 37	05 45	18 39	05 43	18 41
	05 55	18 27	05 53	18 28	05 52	18 29	05 51	18 31	05 50	18 32	05 48	18 33
	05 58	18 21	05 57	18 22	05 56	18 23	05 56	18 24	05 55	18 24	05 54	18 25
	06 01	18 15	06 01	18 16	06 00	18 16	06 00	18 16	05 59	18 17	05 59	18 17
	06 04	18 09	06 04	18 09	06 04	18 09	06 04	18 09	06 04	18 09	06 04	18 09
	06 07	18 03	06 08	18 03	06 08	18 02	06 08	18 02	06 09	18 02	06 09	18 01
	06 10	17 57	06 11	17 57	06 12	17 56	06 13	17 55	06 13	17 54	06 14	17 53
Apr.	06 13	17 51	06 14	17 50	06 16	17 49	06 17	17 48	06 18	17 47	06 19	17 45
	06 16	17 46	06 18	17 44	06 19	17 43	06 21	17 41	06 23	17 39	06 24	17 37
	06 19	17 40	06 21	17 38	06 23	17 36	06 25	17 34	06 27	17 32	06 29	17 30
	06 22	17 35	06 25	17 33	06 27	17 30	06 29	17 28	06 32	17 25	06 34	17 23
	06 25	17 30	06 28	17 27	06 31	17 25	06 33	17 22	06 36	17 19	06 39	17 16
	06 29	17 25	06 31	17 23	06 34	17 20	06 38	17 16	06 41	17 13	06 44	17 10
May	06 32	17 21	06 35	17 18	06 38	17 15	06 42	17 11	06 45	17 08	06 49	17 04
	06 35	17 18	06 38	17 14	06 42	17 10	06 46	17 07	06 50	17 03	06 54	16 58
	06 38	17 14	06 42	17 11	06 46	17 07	06 50	17 03	06 54	16 58	06 59	16 54
	06 41	17 12	06 45	17 08	06 49	17 04	06 54	16 59	06 58	16 55	07 03	16 50
	06 44	17 10	06 48	17 05	06 53	17 01	06 57	16 56	07 02	16 51	07 07	16 46
	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	06 49	17 07	06 54	17 03	06 59	16 58	07 04	16 53	07 09	16 48	07 15	16 42
	06 52	17 07	06 56	17 02	07 01	16 57	07 06	16 52	07 12	16 47	07 18	16 41
	06 54	17 07	06 58	17 02	07 03	16 57	07 09	16 52	07 14	16 47	07 20	16 41
	06 55	17 08	07 00	17 03	07 05	16 58	07 10	16 53	07 16	16 47	07 22	16 41
	06 56	17 09	07 01	17 04	07 06	16 59	07 11	16 54	07 17	16 48	07 23	16 42
	06 57	17 11	07 01	17 06	07 06	17 01	07 11	16 56	07 17	16 50	07 23	16 44
July	06 56	17 13	07 01	17 08	07 06	17 03	07 11	16 58	07 16	16 53	07 22	16 47
	06 56	17 15	07 00	17 10	07 05	17 06	07 10	17 01	07 15	16 56	07 21	16 50
	06 55	17 17	06 59	17 13	07 03	17 09	07 08	17 04	07 13	16 59	07 19	16 54
	06 53	17 20	06 57	17 16	07 01	17 12	07 06	17 07	07 10	17 02	07 16	16 57
	06 50	17 23	06 54	17 19	06 58	17 15	07 03	17 11	07 07	17 06	07 12	17 01
	06 47	17 26	06 51	17 22	06 55	17 19	06 59	17 15	07 03	17 10	07 07	17 06
Aug.	06 44	17 29	06 47	17 26	06 51	17 22	06 54	17 18	06 58	17 14	07 02	17 10
	06 40	17 32	06 43	17 29	06 46	17 26	06 49	17 22	06 53	17 19	06 57	17 15
	06 35	17 35	06 38	17 32	06 41	17 29	06 44	17 26	06 47	17 23	06 50	17 20
	06 30	17 38	06 33	17 35	06 35	17 33	06 38	17 30	06 41	17 27	06 44	17 24
	06 25	17 40	06 27	17 38	06 29	17 36	06 32	17 34	06 34	17 31	06 37	17 29
	06 20	17 43	06 21	17 41	06 23	17 40	06 25	17 38	06 27	17 36	06 29	17 34
Sept.	06 14	17 46	06 15	17 44	06 17	17 43	06 18	17 41	06 20	17 40	06 21	17 38
	06 08	17 48	06 09	17 47	06 10	17 46	06 11	17 45	06 12	17 44	06 13	17 43
	06 02	17 51	06 02	17 50	06 03	17 50	06 04	17 49	06 04	17 48	06 05	17 48
	05 55	17 54	05 56	17 53	05 56	17 53	05 56	17 53	05 57	17 53	05 57	17 52
	05 49	17 56	05 49	17 57	05 49	17 57	05 49	17 57	05 49	17 57	05 49	17 57
	05 43	17 59	05 42	18 00	05 42	18 00	05 42	18 01	05 41	18 01	05 40	18 02
Oct.	05 37	18 02	05 36	18 03	05 35	18 04	05 34	18 05	05 33	18 06	05 32	18 07
	05 31	18 05	05 30	18 06	05 28	18 08	05 27	18 09	05 26	18 10	05 24	18 12
	05 25	18 08	05 23	18 10	05 22	18 11	05 20	18 13	05 18	18 15	05 16	18 17
	05 19	18 12	05 18	18 13	05 16	18 16	05 13	18 18	05 11	18 20	05 09	18 22
	05 14	18 15	05 12	18 17	05 10	18 20	05 07	18 22	05 04	18 25	05 02	18 28
	05 09	18 19	05 07	18 21	05 04	18 24	05 01	18 27	04 58	18 30	04 55	18 33
Nov.	05 05	18 23	05 02	18 26	04 59	18 29	04 56	18 32	04 52	18 35	04 49	18 39
	05 01	18 27	04 58	18 30	04 54	18 33	04 51	18 37	04 47	18 41	04 43	18 45
	04 58	18 31	04 54	18 34	04 51	18 38	04 47	18 42	04 42	18 46	04 38	18 51
	04 55	18 35	04 51	18 39	04 47	18 43	04 43	18 47	04 38	18 52	04 33	18 57
	04 53	18 39	04 49	18 43	04 45	18 48	04 40	18 52	04 35	18 57	04 30	19 03
	04 52	18 43	04 47	18 48	04 43	18 52	04 38	18 57	04 33	19 03	04 27	19 08
Dec.	04 51	18 47	04 47	18 52	04 42	18 57	04 37	19 02	04 31	19 08	04 25	19 13
	04 51	18 51	04 47	18 56	04 42	19 01	04 36	19 06	04 31	19 12	04 25	19 18
	04 52	18 55	04 47	19 00	04 42	19 05	04 37	19 10	04 31	19 16	04 25	19 22
	04 54	18 58	04 49	19 03	04 43	19 08	04 38	19 14	04 32	19 20	04 26	19 26
	04 56	19 01	04 51	19 06	04 46	19 11	04 40	19 17	04 34	19 23	04 28	19 29
	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.	05 02	19 04	04 57	19 09	04 52	19 15	04 46	19 20	04 40	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, 2016

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

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

TABLE 4.-SUNRISE AND SUNSET, 2016

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.	03 32	20 34	03 18	20 48	03 02	21 04	02 42	21 24
	03 38	20 32	03 25	20 45	03 09	21 01	02 51	21 20
	03 46	20 29	03 33	20 41	03 18	20 56	03 01	21 13
	03 54	20 24	03 42	20 36	03 29	20 49	03 12	21 05
	04 04	20 18	03 53	20 29	03 40	20 41	03 25	20 56
	04 13	20 10	04 03	20 20	03 52	20 32	03 38	20 45
31-	04 23	20 02	04 14	20 11	04 04	20 21	03 52	20 33
Feb.	04 34	19 53	04 26	20 01	04 16	20 10	04 06	20 20
	04 44	19 43	04 37	19 50	04 29	19 58	04 20	20 07
	04 55	19 32	04 48	19 38	04 41	19 45	04 33	19 53
	05 05	19 21	05 00	19 26	04 54	19 32	04 47	19 39
	05 15	19 10	05 11	19 14	05 06	19 19	05 00	19 24
Mar.	05 25	18 58	05 22	19 01	05 18	19 05	05 13	19 10
	05 35	18 46	05 32	18 49	05 29	18 51	05 26	18 55
	05 45	18 34	05 43	18 36	05 41	18 37	05 39	18 40
	05 54	18 22	05 53	18 22	05 52	18 23	05 51	18 24
	06 04	18 09	06 04	18 09	06 04	18 09	06 03	18 09
	06 13	17 57	06 14	17 56	06 15	17 55	06 16	17 54
31-	06 22	17 45	06 24	17 43	06 26	17 41	06 28	17 39
Apr.	06 32	17 33	06 34	17 30	06 37	17 27	06 40	17 24
	06 41	17 21	06 44	17 17	06 48	17 14	06 52	17 10
	06 50	17 09	06 54	17 05	06 59	17 00	07 04	16 55
	06 59	16 58	07 04	16 53	07 09	16 47	07 16	16 41
	07 08	16 47	07 14	16 41	07 20	16 35	07 28	16 27
	07 17	16 37	07 24	16 30	07 31	16 22	07 40	16 14
May	07 26	16 27	07 33	16 19	07 42	16 11	07 51	16 01
	07 34	16 18	07 43	16 09	07 52	16 00	08 03	15 49
	07 43	16 09	07 52	16 00	08 02	15 50	08 14	15 38
	07 51	16 02	08 00	15 52	08 12	15 41	08 25	15 28
	07 58	15 56	08 08	15 45	08 21	15 33	08 35	15 19
	08 04	15 50	08 16	15 39	08 29	15 26	08 44	15 11
June	08 10	15 47	08 22	15 35	08 36	15 21	08 52	15 05
	08 15	15 44	08 27	15 32	08 41	15 17	08 58	15 00
	08 18	15 43	08 31	15 30	08 45	15 15	09 03	14 58
	08 20	15 43	08 33	15 30	08 48	15 15	09 05	14 58
	08 21	15 44	08 34	15 31	08 48	15 17	09 06	14 59
	08 21	15 47	08 33	15 34	08 47	15 20	09 05	15 03
July	08 19	15 51	08 31	15 38	08 45	15 24	09 01	15 08
	08 15	15 56	08 27	15 44	08 40	15 31	08 56	15 15
	08 11	16 01	08 22	15 50	08 34	15 38	08 49	15 23
	08 05	16 08	08 15	15 58	08 27	15 46	08 41	15 32
	07 58	16 15	08 08	16 06	08 19	15 55	08 31	15 42
	07 50	16 23	07 59	16 14	08 09	16 04	08 21	15 53
Aug.	07 42	16 31	07 50	16 23	07 59	16 14	08 09	16 04
	07 32	16 40	07 39	16 33	07 47	16 24	07 57	16 15
	07 22	16 48	07 28	16 42	07 36	16 35	07 44	16 27
	07 11	16 57	07 17	16 51	07 23	16 45	07 30	16 38
	07 00	17 06	07 05	17 01	07 10	16 56	07 16	16 50
	06 49	17 14	06 53	17 10	06 57	17 06	07 02	17 01
Sept.	06 37	17 23	06 40	17 20	06 43	17 17	06 47	17 13
	06 25	17 32	06 27	17 30	06 30	17 27	06 32	17 25
	06 13	17 41	06 14	17 39	06 16	17 38	06 17	17 36
	06 00	17 49	06 01	17 49	06 01	17 48	06 02	17 48
	05 48	17 58	05 48	17 59	05 47	17 59	05 47	17 59
	05 35	18 07	05 34	18 09	05 33	18 10	05 32	18 11
Oct.	05 23	18 17	05 21	18 19	05 19	18 21	05 17	18 23
	05 11	18 26	05 08	18 29	05 05	18 32	05 01	18 35
	04 59	18 35	04 55	18 39	04 51	18 43	04 46	18 48
	04 47	18 45	04 42	18 50	04 37	18 55	04 32	19 01
	04 35	18 55	04 30	19 00	04 24	19 06	04 17	19 13
	04 24	19 05	04 18	19 11	04 11	19 18	04 03	19 27
Nov.	04 14	19 15	04 06	19 22	03 58	19 30	03 49	19 40
	04 04	19 25	03 55	19 33	03 46	19 43	03 36	19 53
	03 54	19 35	03 45	19 44	03 35	19 55	03 23	20 07
	03 46	19 45	03 36	19 55	03 25	20 07	03 11	20 20
	03 39	19 54	03 28	20 05	03 15	20 18	03 00	20 33
	03 33	20 03	03 21	20 15	03 07	20 29	02 51	20 45
Dec.	03 28	20 12	03 15	20 24	03 00	20 39	02 43	20 57
	03 24	20 19	03 11	20 32	02 55	20 48	02 37	21 07
	03 22	20 25	03 09	20 39	02 52	20 55	02 33	21 15
	03 22	20 30	03 08	20 44	02 51	21 01	02 31	21 21
	03 24	20 33	03 10	20 47	02 53	21 04	02 32	21 24
	03 27	20 34	03 13	20 48	02 56	21 05	02 36	21 25
Jan.	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	41	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.—MOONRISE AND MOONSET

EXPLANATION OF TABLE

This table gives the time of rising and setting of the Moon's upper limb for every day in the year, at each of the following places:

Boston, Massachusetts	New York, New York	Baltimore, Maryland
Washington, D.C.	Charleston, South Carolina	Savannah, Georgia
Galveston, Texas	Panama Canal	

All of Table 6 was supplied by the Nautical Almanac Office of the United States Naval Observatory. Since Baltimore, Md., and Washington, D.C., are comparatively near to each other, a single table was compiled for a point midway between the two cities. The difference in time of moonrise and moonset at the point selected and at either city may vary between 0 and 2 minutes. In a similar way, a single table was made for Charleston, S.C., and Savannah, Ga.; and the difference in time of the moonrise or moonset at the point selected and at either city may vary between 0 and 4 minutes, which differences are of no practical importance in this table. For the Panama Canal the times were computed for a point about midway between the two ends and are applicable to the entire canal and are accurate to within a minute or two.

TABLE 6-MOONRISE AND MOONSET, 2016

Boston, Massachusetts

Day	JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE		Day
	Rise h m	Set h m											
1	2353	1115	0031	1117	0013	1029	0133	1143	0135	1242	0157	1507	1
2	...	1144	0128	1153	0108	1113	0218	1245	0212	1351	0235	1620	2
3	0050	1213	0225	1235	0202	1202	0300	1351	0248	1502	0316	1733	3
4	0147	1244	0321	1322	0253	1257	0339	1501	0324	1616	0402	1842	4
5	0245	1319	0415	1415	0341	1359	0417	1614	0402	1730	0454	1947	5
6	0342	1358	0506	1515	0426	1505	0454	1728	0442	1845	0551	2045	6
7	0440	1443	0553	1621	0508	1616	0531	1844	0527	1957	0651	2135	7
8	0535	1534	0637	1729	0547	1728	0611	1958	0616	2104	0754	2218	8
9	0628	1631	0717	1841	0625	1842	0653	2111	0710	2204	0857	2256	9
10	0717	1734	0754	1952	0702	1956	0740	2219	0809	2257	0959	2329	10
11	0802	1840	0830	2104	0740	2109	0830	2321	0909	2343	1059	2359	11
12	0842	1948	0906	2215	0820	2221	0925	...	1011	...	1158	...	12
13	0920	2058	0943	2325	0902	2329	1023	0015	1112	0022	1256	0028	13
14	0955	2207	1022	...	0949	...	1122	0103	1211	0056	1353	0056	14
15	1030	2317	1105	0033	1039	0032	1221	0145	1310	0127	1449	0125	15
16	1105	...	1152	0138	1133	0129	1320	0221	1407	0156	1546	0155	16
17	1141	0026	1242	0238	1230	0220	1419	0254	1504	0225	1643	0228	17
18	1221	0134	1337	0333	1328	0304	1517	0324	1601	0253	1739	0304	18
19	1305	0241	1435	0421	1428	0344	1614	0353	1658	0322	1834	0345	19
20	1354	0345	1534	0505	1526	0419	1711	0421	1755	0353	1925	0431	20
21	1447	0444	1634	0543	1625	0451	1807	0449	1851	0427	2014	0523	21
22	1544	0538	1734	0617	1723	0520	1904	0519	1946	0505	2058	0619	22
23	1644	0625	1833	0649	1820	0549	2000	0552	2039	0548	2138	0720	23
24	1745	0707	1931	0718	1917	0618	2056	0627	2129	0636	2216	0823	24
25	1845	0744	2028	0747	2014	0647	2150	0706	2215	0728	2251	0929	25
26	1945	0817	2125	0815	2110	0717	2241	0750	2257	0826	2324	1036	26
27	2044	0848	2221	0845	2206	0751	2330	0839	2336	0927	2358	1144	27
28	2141	0917	2317	0916	2301	0827	...	0934	...	1031	...	1253	28
29	2238	0945	...	0951	2354	0908	0015	1032	0013	1137	0034	1404	29
30	2335	1014	...	...	...	0954	0056	1135	0047	1245	0112	1514	30
31	...	1044	...	...	0045	1045	...	...	0122	1355	...	...	31
Day	JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER		Day
	Rise h m	Set h m											
1	0154	1623	0321	1804	0519	1830	0608	1759	0749	1809	0824	1817	1
2	0242	1730	0423	1847	0619	1900	0705	1829	0843	1848	0912	1908	2
3	0335	1830	0527	1925	0718	1929	0803	1900	0936	1932	0956	2004	3
4	0433	1924	0630	1959	0817	1958	0859	1933	1026	2020	1036	2103	4
5	0536	2011	0731	2030	0914	2028	0954	2010	1112	2114	1114	2205	5
6	0639	2052	0831	2059	1011	2100	1048	2051	1155	2211	1148	2310	6
7	0743	2128	0930	2128	1107	2134	1140	2136	1235	2312	1222	...	7
8	0845	2200	1028	2157	1202	2213	1229	2227	1312	...	1255	0016	8
9	0945	2230	1125	2228	1256	2256	1315	2323	1348	0017	1329	0125	9
10	1044	2258	1221	2301	1348	2345	1358	...	1422	0124	1406	0236	10
11	1142	2327	1317	2337	1437	...	1438	0024	1457	0234	1446	0349	11
12	1239	2356	1413	...	1523	0039	1516	0129	1534	0347	1532	0502	12
13	1336	...	1506	0018	1605	0139	1552	0237	1614	0501	1624	0614	13
14	1433	0028	1558	0105	1645	0243	1628	0348	1658	0617	1723	0722	14
15	1529	0102	1647	0157	1723	0351	1705	0501	1748	0731	1827	0822	15
16	1624	0141	1732	0255	1759	0502	1744	0616	1844	0840	1933	0914	16
17	1718	0225	1813	0358	1835	0614	1826	0731	1944	0942	2039	0959	17
18	1808	0314	1851	0504	1912	0727	1912	0844	2048	1037	2143	1037	18
19	1855	0409	1928	0613	1951	0840	2004	0954	2152	1123	2245	1111	19
20	1938	0509	2003	0723	2034	0952	2100	1057	2255	1203	2346	1141	20
21	2017	0613	2038	0834	2121	1101	2159	1154	2356	1238	...	1210	21
22	2053	0719	2115	0944	2212	1206	2301	1243	...	1309	0044	1238	22
23	2128	0827	2154	1055	2308	1305	...	1325	0056	1338	0142	1307	23
24	2202	0936	2236	1204	...	1357	0002	1402	0155	1407	0239	1337	24
25	2236	1045	2324	1310	0007	1443	0104	1435	0253	1435	0336	1410	25
26	2313	1154	...	1412	0108	1523	0204	1505	0350	1504	0432	1446	26
27	2353	1303	0016	1509	0209	1559	0303	1534	0447	1535	0526	1527	27
28	0037	1412	0113	1559	0310	1631	0401	1602	0543	1609	0619	1613	28
29	0127	1517	0213	1644	0410	1702	0459	1631	0639	1647	0709	1703	29
30	0127	1619	0315	1723	0509	1730	0556	1701	0732	1730	0755	1758	30
31	0221	1715	0417	1758	...	...	0653	1734	...	...	0838	1857	31

Time meridian 75° W. 0000 is midnight. 1200 is noon.

TABLE 6-MOONRISE AND MOONSET, 2016

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New York, New York

Day	JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE		Day
	Rise h m	Set h m											
1	... 1128	0041 1132	0022 1045	0141 1159	0145 1256	0210 1518	1						
2	0005 1157	0137 1209	0117 1129	0227 1300	0223 1404	0249 1630	2						
3	0101 1227	0234 1251	0210 1218	0309 1406	0259 1515	0331 1742	3						
4	0157 1259	0329 1338	0301 1314	0349 1515	0337 1627	0418 1851	4						
5	0254 1335	0423 1432	0350 1415	0428 1627	0415 1741	0510 1955	5						
6	0351 1414	0514 1532	0435 1521	0506 1740	0457 1854	0607 2053	6						
7	0448 1500	0602 1636	0518 1630	0545 1854	0542 2006	0708 2144	7						
8	0543 1551	0646 1744	0558 1742	0625 2008	0632 2112	0810 2227	8						
9	0636 1648	0727 1855	0636 1854	0709 2120	0727 2213	0913 2306	9						
10	0725 1750	0805 2005	0715 2008	0756 2227	0825 2305	1014 2339	10						
11	0811 1855	0842 2116	0754 2120	0847 2329	0926 2351	1113 ...	11						
12	0852 2003	0919 2226	0834 2230	0942 ...	1026 ...	1211 0011	12						
13	0930 2111	0957 2335	0918 2337	1039 0024	1127 0031	1308 0040	13						
14	1007 2220	1037 ...	1005 ...	1138 0112	1225 0106	1404 0109	14						
15	1042 2328	1121 0042	1056 0040	1237 0154	1323 0138	1500 0138	15						
16	1118 ...	1208 0146	1150 0137	1335 0231	1420 0208	1556 0209	16						
17	1156 0036	1259 0246	1246 0228	1433 0304	1516 0237	1652 0243	17						
18	1236 0144	1354 0341	1344 0313	1530 0335	1612 0306	1748 0320	18						
19	1321 0250	1451 0430	1443 0353	1626 0404	1708 0336	1842 0401	19						
20	1410 0353	1550 0513	1541 0429	1722 0433	1804 0408	1933 0448	20						
21	1503 0452	1649 0552	1638 0501	1818 0503	1900 0443	2022 0539	21						
22	1601 0546	1748 0627	1735 0532	1914 0534	1954 0521	2107 0635	22						
23	1700 0634	1846 0659	1832 0601	2010 0607	2047 0604	2148 0735	23						
24	1800 0716	1943 0730	1928 0631	2104 0643	2137 0652	2226 0838	24						
25	1900 0754	2039 0759	2024 0700	2158 0722	2223 0745	2301 0943	25						
26	1959 0828	2135 0829	2119 0732	2249 0807	2306 0842	2336 1049	26						
27	2056 0859	2231 0859	2215 0806	2338 0856	2346 0942	... 1156	27						
28	2153 0929	2327 0931	2309 0843	... 0950	1045 ...	0011 1305	28						
29	2249 0958	... 1006	... 0924	0023 1048	0023 1151	0047 1414	29						
30	2345 1027	... ...	0002 1010	0105 1151	0059 1258	0126 1524	30					
31	... 1058	... ...	0053 1102	... ...	0134 1407	... ...	31			
Day	JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER		Day
	Rise h m	Set h m											
1	0210 1632	0337 1812	0533 1841	0619 1812	0758 1825	0832 1833	1						
2	0258 1738	0439 1856	0632 1912	0716 1843	0852 1905	0920 1925	2						
3	0352 1839	0542 1935	0731 1941	0813 1914	0944 1949	1004 2020	3						
4	0450 1933	0644 2009	0828 2011	0908 1948	1034 2037	1045 2119	4						
5	0552 2020	0745 2041	0925 2042	1003 2026	1120 2130	1123 2220	5						
6	0655 2101	0844 2111	1021 2114	1056 2107	1204 2227	1159 2324	6						
7	0758 2138	0942 2141	1116 2150	1148 2153	1244 2328	1233 ...	7						
8	0859 2211	1039 2211	1211 2229	1237 2244	1322 ...	1307 0029	8						
9	0959 2241	1135 2242	1304 2313	1323 2340	1358 0031	1342 0137	9						
10	1057 2311	1231 2316	1356 ...	1407 ...	1434 0138	1420 0247	10						
11	1154 2340	1326 2353	1445 0001	1447 0040	1510 0247	1501 0359	11						
12	1250 ...	1421 ...	1531 0056	1526 0144	1548 0358	1548 0511	12						
13	1346 0010	1515 0034	1614 0155	1603 0251	1629 0512	1641 0623	13						
14	1442 0043	1606 0121	1655 0259	1640 0401	1714 0626	1740 0730	14						
15	1538 0118	1655 0213	1733 0406	1718 0513	1805 0739	1843 0830	15						
16	1632 0157	1740 0311	1811 0515	1758 0627	1901 0848	1949 0923	16						
17	1726 0241	1822 0413	1848 0627	1841 0741	2001 0950	2054 1008	17						
18	1816 0331	1902 0519	1926 0739	1928 0853	2104 1045	2157 1047	18						
19	1903 0426	1939 0627	2006 0851	2020 1002	2207 1132	2259 1121	19						
20	1946 0525	2015 0736	2049 1002	2116 1105	2310 1212	2358 1153	20						
21	2026 0629	2051 0846	2137 1110	2216 1202	1248 ...	1222 1222	21						
22	2104 0734	2129 0955	2229 1214	2317 1251	0010 1320	0056 1251	22						
23	2139 0841	2208 1105	2324 1313	... 1334	0109 1350	0153 1321	23						
24	2214 0948	2252 1213	1406 ...	0018 1412	0207 1419	0249 1352	24						
25	2250 1056	2340 1319	0023 1452	0118 1445	0304 1448	0345 1426	25						
26	2327 1205	1420 0123	1533 0217	1516 0400	1518 0440	1502 1502	26						
27	... 1313	0032 1517	0224 1609	0316 1546	0456 1550	0535 1544	27						
28	0008 1421	0129 1608	0324 1642	0413 1615	0552 1625	0627 1629	28						
29	0053 1526	0229 1653	0423 1713	0510 1645	0647 1703	0717 1720	29						
30	0143 1627	0330 1732	0522 1743	0606 1716	0740 1746	0803 1815	30						
31	0238 1723	0432 1808	... ...	0702 1749	... ...	0846 1913	31				

Time meridian 75° W. 0000 is midnight. 1200 is noon.

TABLE 6-MOONRISE AND MOONSET, 2016

Baltimore, MD and Washington, DC

Day	JANUARY				FEBRUARY				MARCH				APRIL				MAY				Day	
	Rise h m	Set h m																				
1	... 1139	0050	1146	0030	1100	0149	1214	0154	1310	0223	1528	0223	1528	0223	1528	0223	1528	0223	1528	0223	1528	1
2	0016 1209	0146	1224	0125	1144	0235	1315	0233	1417	0302	1639	0302	1639	0302	1639	0302	1639	0302	1639	0302	1639	2
3	0111 1240	0242	1306	0218	1234	0318	1420	0310	1527	0345	1750	0345	1750	0345	1750	0345	1750	0345	1750	0345	1750	3
4	0207 1313	0337	1354	0309	1329	0359	1529	0348	1638	0433	1859	0433	1859	0433	1859	0433	1859	0433	1859	0433	1859	4
5	0303 1349	0431	1448	0358	1430	0438	1639	0428	1751	0525	2003	0525	2003	0525	2003	0525	2003	0525	2003	0525	2003	5
6	0359 1429	0522	1547	0444	1535	0517	1752	0511	1903	0623	2101	0623	2101	0623	2101	0623	2101	0623	2101	0623	2101	6
7	0456 1515	0610	1651	0527	1644	0557	1905	0557	2014	0723	2152	0723	2152	0723	2152	0723	2152	0723	2152	0723	2152	7
8	0551 1606	0655	1758	0608	1754	0639	2017	0648	2120	0825	2236	0825	2236	0825	2236	0825	2236	0825	2236	0825	2236	8
9	0644 1703	0736	1908	0647	1906	0723	2128	0743	2220	0927	2315	0927	2315	0927	2315	0927	2315	0927	2315	0927	2315	9
10	0733 1805	0816	2018	0727	2018	0811	2235	0841	2313	1027	2349	1027	2349	1027	2349	1027	2349	1027	2349	1027	2349	10
11	0819 1910	0854	2127	0806	2130	0902	2336	0941	2359	1126	...	1126	...	1126	...	1126	...	1126	...	1126	...	11
12	0901 2016	0932	2237	0848	2239	0957	...	1041	...	1223	0021	1223	0021	1223	0021	1223	0021	1223	0021	1223	0021	12
13	0940 2124	1011	2345	0932	2346	1054	0031	1141	0040	1319	0051	1319	0051	1319	0051	1319	0051	1319	0051	1319	0051	13
14	1018 2231	1052	...	1020	...	1153	0120	1239	0116	1414	0121	1414	0121	1414	0121	1414	0121	1414	0121	1414	0121	14
15	1054 2339	1135	0051	1111	0048	1251	0202	1336	0148	1509	0151	1509	0151	1509	0151	1509	0151	1509	0151	1509	0151	15
16	1131 ...	1223	0154	1205	0145	1349	0240	1431	0219	1605	0223	1605	0223	1605	0223	1605	0223	1605	0223	1605	0223	16
17	1209 0046	1314	0254	1301	0236	1446	0314	1527	0249	1700	0257	1700	0257	1700	0257	1700	0257	1700	0257	1700	0257	17
18	1251 0153	1409	0348	1359	0321	1542	0345	1622	0318	1755	0335	1755	0335	1755	0335	1755	0335	1755	0335	1755	0335	18
19	1336 0258	1506	0438	1457	0401	1637	0416	1717	0349	1849	0417	1849	0417	1849	0417	1849	0417	1849	0417	1849	0417	19
20	1425 0401	1605	0522	1554	0438	1733	0445	1813	0422	1941	0503	1941	0503	1941	0503	1941	0503	1941	0503	1941	0503	20
21	1519 0500	1703	0601	1651	0511	1828	0516	1908	0457	2029	0555	2029	0555	2029	0555	2029	0555	2029	0555	2029	0555	21
22	1616 0553	1801	0637	1747	0542	1923	0547	2002	0536	2115	0651	2115	0651	2115	0651	2115	0651	2115	0651	2115	0651	22
23	1715 0642	1858	0710	1843	0613	2018	0621	2054	0620	2156	0750	2156	0750	2156	0750	2156	0750	2156	0750	2156	0750	23
24	1815 0725	1955	0741	1938	0643	2113	0657	2144	0708	2235	0853	2235	0853	2235	0853	2235	0853	2235	0853	2235	0853	24
25	1914 0803	2050	0811	2033	0713	2206	0738	2231	0800	2312	0956	2312	0956	2312	0956	2312	0956	2312	0956	2312	0956	25
26	2012 0838	2145	0841	2128	0746	2257	0822	2314	0857	2347	1102	2347	1102	2347	1102	2347	1102	2347	1102	2347	1102	26
27	2109 0910	2240	0912	2223	0820	2346	0911	2355	0957	...	1208	...	1208	...	1208	...	1208	...	1208	...	1208	27
28	2204 0940	2335	0945	2317	0858	...	1005	...	1059	...	1315	...	1315	...	1315	...	1315	...	1315	...	1315	28
29	2300 1010	...	1021	...	0940	0031	1103	0032	1204	0100	1424	0100	1424	0100	1424	0100	1424	0100	1424	0100	1424	29
30	2355 1040	...	...	0010	1026	0114	1205	0109	1310	0140	1532	0140	1532	0140	1532	0140	1532	0140	1532	0140	1532	30
31	...	1112	...	...	0101	1117	...	...	0145	1419	...	...	...	...	...	...	...	...	...	...	...	31
Day	JULY				AUGUST				SEPTEMBER				OCTOBER				NOVEMBER				Day	
	Rise h m	Set h m																				
1	0224 1640	0353	1820	0546	1851	0630	1825	0806	1840	0839	1849	0839	1849	0839	1849	0839	1849	0839	1849	0839	1849	1
2	0313 1746	0454	1905	0645	1923	0727	1856	0900	1920	0927	1940	0927	1940	0927	1940	0927	1940	0927	1940	0927	1940	2
3	0407 1846	0556	1944	0742	1953	0822	1928	0951	2004	1012	2036	1012	2036	1012	2036	1012	2036	1012	2036	1012	2036	3
4	0506 1940	0658	2019	0839	2024	0917	2003	1041	2053	1053	2134	1053	2134	1053	2134	1053	2134	1053	2134	1053	2134	4
5	0607 2028	0758	2052	0935	2055	1011	2041	1128	2145	1132	2234	1132	2234	1132	2234	1132	2234	1132	2234	1132	2234	5
6	0710 2110	0856	2123	1030	2129	1104	2123	1212	2242	1208	2337	1208	2337	1208	2337	1208	2337	1208	2337	1208	2337	6
7	0812 2147	0953	2153	1125	2205	1156	2209	1253	2342	1243	...	1243	...	1243	...	1243	...	1243	...	1243	...	7
8	0912 2221	1049	2224	1219	2244	1245	2259	1331	...	1318	0041	1318	0041	1318	0041	1318	0041	1318	0041	1318	0041	8
9	1011 2252	1145	2256	1312	2328	1331	2355	1408	0045	1354	0148	1354	0148	1354	0148	1354	0148	1354	0148	1354	0148	9
10	1108 2323	1240	2330	1403	...	1415	...	1445	0151	1433	0257	1433	0257	1433	0257	1433	0257	1433	0257	1433	0257	10
11	1204 2353	1335	...	1452	0017	1456	0054	1522	0259	1515	0408	1515	0408	1515	0408	1515	0408	1515	0408	1515	0408	11
12	1300 ...	1429	0008	1539	0111	1536	0158	1600	0409	1603	0520	1603	0520	1603	0520	1603	0520	1603	0520	1603	0520	12
13	1355 0024	1522	0050	1623	0210	1614	0304	1642	0522	1656	0631	1656	0631	1656	0631	1656	0631	1656	0631	1656	0631	13
14	1450 0057	1614	0137	1704	0313	1651	0413	1729	0635	1755	0737	1755	0737	1755	0737	1755	0737	1755	0737	1755	0737	14
15	1546 0132	1702	0229	1743	0420	1730	0524	1820	0747	1859	0838	1859	0838	1859	0838	1859	0838	1859	0838	1859	0838	15
16	1640 0212	1748	0326	1821	0528	1811	0637	1916	0856	2004	0931	2004	0931	2004	0931	2004	0931	2004	0931	2004	0931	16
17	1733 0257	1831	0428	1859	0638	1855	0750	2017	0958	2108	1016	2108	1016	2108	1016							

TABLE 6-MOONRISE AND MOONSET, 2016

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Charleston, SC and Savannah, GA

Day	JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE		Day
	Rise h m	Set h m											
1	... 1155	0057	1211	0033	1128	0151	1242	0201	1332	0241	1539	1	
2	0029 1228	0150	1251	0126	1214	0238	1342	0243	1436	0324	1646	2	
3	0121 1301	0244	1335	0219	1304	0323	1444	0324	1542	0410	1754	3	
4	0214 1337	0338	1423	0310	1358	0407	1550	0405	1650	0500	1901	4	
5	0308 1415	0432	1517	0400	1458	0450	1657	0448	1759	0555	2004	5	
6	0402 1458	0524	1616	0448	1601	0532	1805	0534	1909	0653	2102	6	
7	0457 1544	0613	1718	0534	1706	0616	1915	0623	2017	0753	2154	7	
8	0552 1636	0700	1822	0618	1813	0701	2024	0716	2121	0853	2240	8	
9	0645 1732	0745	1928	0701	1922	0748	2132	0812	2221	0952	2321	9	
10	0736 1833	0828	2035	0744	2030	0838	2237	0910	2315	1050	2359	10	
11	0823 1935	0909	2141	0827	2138	0931	2338	1009	...	1146	...	11	
12	0908 2039	0950	2247	0912	2245	1027	...	1108	0003	1240	0033	12	
13	0950 2143	1032	2352	0959	2349	1123	0033	1205	0045	1333	0106	13	
14	1031 2247	1116	...	1048	...	1220	0122	1300	0124	1425	0139	14	
15	1111 2351	1203	0055	1140	0050	1317	0206	1354	0159	1518	0212	15	
16	1151 ...	1252	0157	1234	0146	1412	0246	1447	0232	1611	0246	16	
17	1232 0055	1344	0255	1330	0237	1506	0323	1540	0305	1704	0323	17	
18	1316 0159	1438	0350	1426	0324	1559	0357	1632	0337	1757	0402	18	
19	1404 0302	1534	0440	1521	0406	1652	0430	1725	0411	1850	0446	19	
20	1455 0403	1631	0525	1616	0445	1744	0503	1818	0446	1942	0533	20	
21	1549 0501	1727	0607	1710	0521	1837	0535	1911	0524	2031	0625	21	
22	1645 0555	1822	0645	1804	0555	1930	0610	2004	0605	2117	0720	22	
23	1743 0644	1917	0720	1857	0628	2022	0646	2055	0649	2201	0817	23	
24	1840 0729	2010	0754	1949	0701	2115	0724	2145	0738	2243	0917	24	
25	1937 0810	2103	0827	2042	0734	2207	0806	2233	0830	2322	1018	25	
26	2032 0847	2155	0900	2134	0809	2258	0852	2318	0925	...	1120	26	
27	2126 0922	2248	0934	2227	0846	2347	0941	...	1023	0001	1223	27	
28	2219 0955	2341	1009	2319	0925	...	1034	0000	1123	0040	1327	28	
29	2311 1027	...	1047	...	1008	0034	1131	0041	1224	0121	1432	29	
30	...	1100	...	0011	1055	0118	1230	0121	1328	0204	1538	30	
31	0004 1135	...	...	0102	1147	...	...	0201	1432	...	...	31
Day	JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER		Day
	Rise h m	Set h m											
1	0251 1643	0422	1823	0607	1902	0644	1843	0810	1907	0840	1919	1	
2	0342 1747	0522	1909	0702	1937	0737	1917	0902	1949	0928	2010	2	
3	0437 1847	0622	1951	0757	2010	0830	1952	0952	2034	1014	2104	3	
4	0535 1942	0720	2029	0851	2044	0922	2029	1042	2123	1057	2200	4	
5	0636 2032	0817	2104	0944	2118	1014	2109	1129	2215	1138	2258	5	
6	0736 2116	0913	2138	1037	2153	1106	2152	1214	2310	1217	2358	6	
7	0836 2156	1007	2211	1129	2231	1156	2238	1257	...	1255	...	7	
8	0934 2232	1100	2245	1221	2313	1246	2329	1338	0007	1333	0059	8	
9	1029 2306	1153	2319	1313	2358	1333	...	1418	0107	1413	0202	9	
10	1124 2339	1245	2356	1404	...	1418	0023	1458	0210	1455	0308	10	
11	1217 ...	1338	...	1454	0047	1502	0121	1538	0314	1540	0415	11	
12	1309 0012	1431	0035	1541	0140	1544	0222	1621	0421	1631	0524	12	
13	1402 0046	1523	0119	1627	0238	1625	0325	1706	0530	1726	0632	13	
14	1455 0121	1615	0206	1711	0339	1707	0431	1755	0641	1826	0738	14	
15	1548 0159	1704	0259	1753	0442	1749	0538	1849	0750	1928	0839	15	
16	1642 0241	1752	0355	1835	0547	1833	0647	1946	0857	2032	0933	16	
17	1734 0326	1837	0455	1916	0654	1920	0757	2047	0959	2134	1021	17	
18	1825 0416	1920	0557	1959	0801	2011	0906	2148	1054	2234	1103	18	
19	1913 0511	2001	0701	2043	0909	2105	1012	2249	1143	2331	1141	19	
20	1959 0608	2041	0806	2130	1016	2202	1114	2348	1227	...	1216	20	
21	2042 0709	2122	0911	2220	1121	2300	1211	...	1306	0027	1250	21	
22	2123 0811	2203	1016	2314	1224	2359	1301	0045	1341	0121	1322	22	
23	2203 0913	2247	1122	...	1322	...	1347	0140	1415	0214	1355	23	
24	2242 1016	2334	1226	0010	1415	0058	1427	0234	1448	0306	1430	24	
25	2322 1120	...	1329	0107	1503	0155	1504	0327	1520	0359	1506	25	
26	...	1224	0024	1429	0205	1546	0250	1539	0420	1554	0452	1546	26
27	0003 1329	0118	1526	0303	1626	0345	1612	0512	1629	0544	1628	27	
28	0048 1433	0214	1617	0359	1702	0438	1645	0605	1707	0635	1715	28	
29	0136 1535	0312	1704	0455	1737	0532	1718	0658	1747	0725	1805	29	
30	0228 1636	0411	1747	0550	1810	0624	1752	0749	1831	0812	1859	30	
31	0323 1732	0509	1826	...	...	0717	1828	...	...	0857	1955	31

Time meridian 75° W. 0000 is midnight. 1200 is noon.

TABLE 6-MOONRISE AND MOONSET, 2016

Galveston, Texas

Day	JANUARY				FEBRUARY				MARCH				APRIL				MAY				Day
	Rise h m	Set h m																			
1	...	1154	0052	1214	0028	1132	0144	1247	0157	1335	0242	1536	0658	2055	1147	...	1147	...	1606	0248	11
2	0027	1228	0145	1255	0120	1218	0232	1346	0239	1437	0326	1643	0758	2148	1240	...	1240	...	1659	0326	12
3	0118	1303	0238	1339	0212	1309	0318	1448	0322	1542	0414	1749	0858	2235	1331	...	1331	...	1752	0414	13
4	0210	1339	0332	1429	0304	1403	0403	1552	0405	1648	0505	1855	0956	2317	1423	...	1423	...	1857	0505	14
5	0303	1419	0425	1522	0354	1502	0447	1657	0450	1756	0600	1958	1052	2355	1514	0213	1514	0213	1959	0600	15
6	0357	1502	0517	1621	0443	1604	0531	1805	0537	1904	0658	2055	1147	...	1147	...	1147	...	2055	0658	6
7	0451	1549	0607	1722	0529	1709	0616	1913	0627	2011	0758	2148	1240	...	1240	...	1240	...	2148	0758	7
8	0545	1641	0655	1826	0615	1815	0703	2021	0721	2115	0858	2235	1331	...	1331	...	1331	...	2235	0858	8
9	0638	1738	0741	1930	0659	1921	0751	2127	0818	2215	0956	2317	1423	...	1423	...	1423	...	2317	0956	9
10	0729	1837	0825	2035	0743	2028	0843	2231	0916	2309	1052	2355	1514	0213	1514	0213	1514	0213	2355	1052	10
11	0818	1939	0908	2140	0828	2135	0936	2331	1014	2357	1147	...	1147	...	1147	...	1147	...	...	1147	11
12	0904	2041	0951	2245	0914	2240	1032	...	1112	...	1240	0031	1240	...	1240	...	1240	...	0031	1240	12
13	0947	2144	1034	2348	1002	2343	1128	0026	1208	0040	1331	0105	1331	...	1331	...	1331	...	0105	1331	13
14	1029	2247	1119	...	1053	...	1225	0116	1302	0119	1423	0138	1423	...	1423	...	1423	...	0138	1423	14
15	1110	2350	1207	0050	1145	0043	1320	0201	1355	0156	1514	0213	1514	...	1514	...	1514	...	0213	1514	15
16	1151	...	1257	0151	1240	0139	1414	0241	1446	0230	1606	0248	1606	...	1606	...	1606	...	0248	1606	16
17	1234	0052	1349	0249	1335	0231	1507	0319	1538	0304	1659	0326	1659	...	1659	...	1659	...	0326	1659	17
18	1320	0155	1444	0343	1430	0318	1559	0354	1629	0337	1751	0406	1751	...	1751	...	1751	...	0406	1751	18
19	1408	0256	1539	0433	1525	0401	1651	0428	1721	0412	1844	0450	1844	...	1844	...	1844	...	0450	1844	19
20	1500	0357	1635	0519	1618	0440	1742	0502	1813	0448	1935	0538	1935	...	1935	...	1935	...	0538	1935	20
21	1554	0454	1730	0602	1711	0517	1834	0536	1905	0527	2024	0630	2024	...	2024	...	2024	...	0630	2024	21
22	1650	0548	1824	0641	1804	0553	1925	0611	1957	0609	2111	0725	2111	...	2111	...	2111	...	0725	2111	22
23	1747	0638	1917	0717	1855	0627	2017	0648	2048	0654	2156	0822	2156	...	2156	...	2156	...	0822	2156	23
24	1844	0723	2009	0752	1947	0701	2109	0728	2138	0743	2238	0920	2238	...	2238	...	2238	...	0920	2238	24
25	1939	0805	2101	0826	2038	0735	2201	0811	2226	0835	2319	1020	2319	...	2319	...	2319	...	1020	2319	25
26	2033	0843	2152	0900	2130	0811	2251	0857	2312	0930	...	1121	...	1121	...	1121	...	...	1121	...	26
27	2126	0919	2244	0935	2221	0849	2340	0946	2355	1027	...	1222	...	1222	...	1222	...	...	1222	...	27
28	2218	0953	2336	1012	2313	0929	...	1039	...	1126	...	1325	...	1325	...	1325	...	...	1325	...	28
29	2309	1027	...	1050	...	1013	0027	1135	0037	1226	0122	1429	...	1429	...	1429	...	...	1429	...	29
30	...	1101	...	...	0004	1101	0113	1234	0118	1328	0207	1533	...	1533	...	1533	...	...	1533	...	30
31	0000	1136	...	...	0055	1152	...	...	0159	1431	...	...	...	...	...	...	...	...	...	...	31
Day	JULY				AUGUST				SEPTEMBER				OCTOBER				NOVEMBER				Day
	Rise h m	Set h m																			
1	0255	1638	0427	1817	0608	1859	0642	1843	0804	1911	0833	1924	1147	...	1147	...	1147	...	1147	...	11
2	0347	1741	0526	1903	0703	1935	0734	1918	0855	1953	0921	2015	1240	...	1240	...	1240	...	1240	...	2
3	0442	1840	0625	1946	0756	2009	0826	1954	0946	2039	1007	2109	1423	...	1423	...	1423	...	1423	...	3
4	0541	1936	0723	2025	0849	2044	0917	2032	1035	2128	1051	2204	1423	...	1423	...	1423	...	1423	...	4
5	0641	2026	0818	2102	0941	2119	1009	2113	1122	2220	1132	2301	1423	...	1423	...	1423	...	1423	...	5
6	0741	2111	0912	2137	1032	2156	1100	2156	1208	2314	1213	2359	1514	...	1514	...	1514	...	2359	1514	6
7	0839	2151	1005	2211	1124	2235	1150	2244	1251	2334	1332	0059	1332	...	1332	...	1332	...	0059	1332	7
8	0935	2229	1057	2245	1215	2317	1239	2334	1333	0011	1332	0059	1332	...	1332	...	1332	...	0059	1332	8
9	1030	2304	1149	2321	1307	...	1326	...	1415	0110	1413	0201	1413	...	1413	...	1413	...	0201	1413	9
10	1123	2338	1241	2359	1357	0003	1412	0028	1456	0211	1456	0305	1456	...	1456	...	1456	...	0305	1456	10
11	1215	...	1333	...	1447	0052	1457	0125	1538	0314	1543	0412	1543	...	1543	...	1543	...	0412	1543	11
12	1306	0012	1425	0039	1535	0145	1540	0225	1622	0420	1635	0519	1635	...	1635	...	1635	...	0519	1635	12
13	1358	0047	1517	0124	1622	0242	1623	0327	1709	0527	1731	0627	1731	...	1731	...	1731	...	0627	1731	13
14	1450	0124	1608	0212	1706	0342	1705	0431	1759	0636	1831	0732	1831	...	1831	...	1831	...	0732	1831	14
15	1542	0203	1658	0304	1750	0445	1749	0537	1854	0745	1934	0832	1934	...	1934	...	1934	...	0832	1934	15
16	1635	0245	1746	0400	1833	0549	1835	0645	1952	0851	2036	0926	2036	...	2036	...	2036	...	0926	2036	16
17	1727	0331	1832	0459	1916	0654	1924	0753	2052	0952	2137	1015	2137	...	2137	...	2137	...	1015	2137	17
18	1818	0422	1916	0600	2000	0800	2015	0901	2153	1048	2236	1058	2236	...	2236	...	2236	...	1058	2236	18
19	1907	0516	1958	0703	2046	0906	2110	1006	2253	1137	2332	1137	2332	...	2332	...	2332	...	1137	2332	19
20	1953	0613	2040	0806	2134	1012	2207	1108	2351	1222	...	1214	...	1214	...	1214	...	...	1214	...	20
21	2038	0712	2122	0910	2225	1116	2306	1204	...	1302	0026	1248	1248	...	1248	...	1248	...	0026	1248	21
22	2120	0813	2205	1014	2319	1217	...	1255	0046	1338	0119	1322	1322	...	1322	...	1322	...	0119	1322	22
23	2201	0915	2250	1118	...	1315	0004	1341	0140	1413	0211	1356	1356	...	1356	...	1356	...	0211	1356	23
24																					

TABLE 6-MOONRISE AND MOONSET, 2016

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Panama Canal (East End)

Day	JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE		Day	
	Rise h m	Set h m												
1	... 1155	0030 1235	0019 1234	0117 1319	... 0047	1159 1247	0112 1314	0136 1347	0247 1521	1	0019 1234	0226 1443	0339 1620	2
2	0104 1315	0207 1407	0104 1315	0207 1407	0138 1338	0254 1504	0316 1539	0434 1721	0434 1721	3	0207 1407	0407 1637	0530 1822	4
3	0150 1357	0258 1458	0150 1357	0258 1458	0230 1431	0346 1601	0407 1637	0459 1737	0629 1923	5	0258 1458	0459 1737	0629 1923	5
4	0238 1441	0351 1551	0238 1441	0351 1551	0323 1527	0437 1658	0908 2159	0945 2236	1106 2340	10	0351 1551	0945 2236	1106 2340	10
5	0327 1528	0444 1647	0418 1618	0538 1744	0416 1624	0529 1757	0554 1838	0728 2021	0728 2021	6	0444 1647	0622 1857	0650 1940	7
6	0511 1711	0632 1842	0511 1711	0632 1842	0601 1820	0716 1958	0748 2041	0922 2208	0922 2208	8	0632 1842	0748 2041	0922 2208	8
7	0604 1806	0724 1939	0604 1806	0724 1939	0653 1918	0811 2059	0847 2140	1016 2256	1016 2256	9	0724 1939	0847 2140	1016 2256	9
8	0658 1902	0815 2036	0658 1902	0815 2036	0745 2017	0908 2159	0945 2236	1106 2340	1106 2340	10	0815 2036	0945 2236	1106 2340	10
9	0751 1958	0906 2133	0843 2054	0956 2230	0838 2116	1005 2257	1040 2328	1154 ...	1154 ...	11	0906 2133	1040 2328	1154 ...	11
10	0933 2150	1047 2326	0933 2150	1047 2326	1025 2313	1101 2353	1134 ...	1241 0022	1241 0022	12	1047 2326	1101 2353	1134 ...	12
11	1022 2245	1139 ...	1022 2245	1139 ...	1119 ...	1249 0045	1313 0101	1411 0143	1411 0143	13	1139 ...	1249 0045	1313 0101	14
12	1111 2340	1231 0023	1111 2340	1231 0023	1214 0010	1340 0134	1359 0144	1457 0223	1457 0223	15	1231 0023	1340 0134	1359 0144	15
13	1200 ...	1324 0119	1250 0035	1418 0215	1308 0105	1429 0220	1445 0225	1543 0304	1543 0304	16	1324 0119	1429 0220	1543 0304	16
14	1341 0131	1512 0309	1341 0131	1512 0309	1453 0249	1602 0345	1615 0344	1719 0432	1719 0432	18	1512 0309	1602 0345	1615 0344	18
15	1434 0227	1605 0401	1434 0227	1605 0401	1543 0336	1647 0425	1700 0425	1809 0519	1809 0519	19	1605 0401	1647 0425	1700 0425	19
16	1528 0324	1656 0451	1528 0324	1656 0451	1631 0421	1732 0505	1747 0507	1900 0608	1900 0608	20	1656 0451	1732 0505	1747 0507	20
17	1623 0420	1746 0538	1718 0515	1835 0623	1718 0504	1817 0545	1835 0550	1951 0659	1951 0659	21	1835 0623	1903 0626	1924 0636	21
18	1712 0607	1922 0706	1812 0607	1922 0706	1849 0625	1950 0708	2014 0723	2131 0845	2131 0845	23	1922 0706	1950 0708	2014 0723	23
19	1903 0657	2008 0747	1903 0657	2008 0747	1934 0706	2038 0752	2104 0813	2219 0938	2219 0938	24	2008 0747	2104 0813	2219 0938	24
20	1953 0743	2053 0827	1953 0743	2053 0827	2020 0746	2127 0838	2154 0904	2307 1031	2307 1031	25	2053 0827	2127 0838	2154 0904	25
21	2041 0828	2138 0907	2128 0910	2224 0948	2106 0827	2217 0926	2244 0956	2355 1125	2355 1125	26	2224 0948	2307 1016	2333 1048	27
22	2213 0950	2310 1030	2213 0950	2310 1030	2241 0954	2357 1107	2357 ...	1141 0043	1141 0043	28	2310 1030	2357 1107	2357 ...	28
23	2258 1031	2358 1113	2258 1031	2358 1113	2331 1041	2357 1159	0021 1235	0132 1409	0132 1409	29	2358 1113	2357 1159	0021 1235	29
24	2343 1111	... ...	2343 1111	... ...	1130 0047	1253 0125	0109 1329	0224 1507	0224 1507	30	... ...	1130 0047	1253 0125	30
25	... 1152	... ...	... 1152	... ...	0021 0021	1221 1221	0158 1424	... ...	... ...	31	1152 0021	1221 1221	0158 1424	31
Day	JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER		Day	
	Rise h m	Set h m												
1	0318 1607	0455 1745	0414 1706	0551 1837	0618 1849	0634 1850	0736 1937	0757 1955	1	0455 1745	0720 1931	0823 2022	0846 2044	2
2	0512 1806	0645 1925	0610 1902	0736 2011	0753 2012	0806 2012	0912 2109	0935 2135	3	0645 1925	0806 2012	0912 2109	0935 2135	3
3	0708 1956	0826 2054	0708 1956	0826 2054	0925 2134	0939 2139	1049 2248	1109 2317	5	0826 2054	0939 2139	1049 2248	1109 2317	5
4	0803 2046	0913 2135	0856 2133	0959 2216	1011 2216	1027 2225	1137 2338	1156 ...	6	0913 2135	1115 2313	1225 2338	1242 0008	7
5	0946 2217	1045 2257	1034 2259	1131 2338	1145 2344	1204 ...	1313 0030	1329 0101	8	1045 2257	1145 2344	1204 ...	1329 0101	8
6	1120 2340	1217 ...	1120 2340	1217 ...	1323 0032	1343 0054	1449 0217	1509 0251	10	1217 ...	1323 0032	1343 0054	1449 0217	10
7	1206 ...	1304 0021	1251 0020	1353 0105	1413 0122	1433 0147	1539 0312	1603 0350	11	1304 0021	1539 0312	1603 0350	1603 0350	11
8	1337 0101	1442 0152	1337 0101	1442 0152	1555 0307	1612 0336	1725 0509	1800 0553	13	1442 0152	1612 0336	1725 0509	1800 0553	13
9	1424 0143	1533 0241	1512 0226	1625 0333	1646 0402	1703 0433	1822 0610	1902 0656	14	1533 0241	1646 0402	1703 0433	1822 0610	14
10	1512 0226	1625 0333	1512 0226	1625 0333	1736 0457	1755 0531	1922 0713	2002 0757	15	1625 0333	1755 0531	1922 0713	2002 0757	15
11	1602 0312	1716 0426	1652 0401	1808 0521	1827 0554	1849 0630	2022 0816	2101 0855	16	1716 0426	1827 0554	1849 0630	2101 0855	16
12	1744 0452	1858 0617	1744 0452	1858 0617	2010 0749	2041 0832	2220 1014	2249 1038	17	1858 0617	2010 0749	2041 0832	2220 1014	17
13	1835 0544	1948 0712	1835 0544	1948 0712	2103 0847	2139 0933	2315 1108	2339 1123	19	1948 0712	2103 0847	2139 0933	2315 1108	19
14	1926 0638	2037 0808	1926 0638	2037 0808	2157 0946	2237 1033	... 1158	... 1206	20	2037 0808	2157 0946	2237 1033	... 1206	20
15	2016 0732	2127 0904	2105 0827	2218 1000	2252 1045	2334 1130	0007 1244	0026 1248	21	2127 0904	2252 1045	2334 1130	0007 1244	21
16	2153 0921	2309 1057	2242 1015	2309 1057	1241 0044	0029 1314	0144 1409	0158 1408	23	2309 1057	1241 0044	0029 1314	0144 1409	23
17	2242 1015	2350 1154	2330 1110	0002 1251	0044 1335	0121 1401	0230 1449	0243 1450	24	2350 1154	0044 1335	0121 1401	0230 1449	24
18	2330 1110	0002 1251	0358 1651	0528 1805	0139 1427	0211 1445	0315 1529	0329 1532	25	0002 1251	0139 1427	0211 1445	0315 1529	25
19	0020 1301	0152 1445	0112 1358	0248 1539	0324 1602	0346 1609	0446 1651	0504 1703	27	0152 1445	0324 1602	0346 1609	0446 1651	27
20	0206 1456	0343 1630	0302 1554	0437 1719	0502 1728	0517 1729	0620 1820	0643 1841	29	0343 1630	0502 1728	0517 1729	0620 1820	29
21	0358 1651	0528 1805	0358 1651	0528 1805	0649 1809	0603 1811	0709 1907	0732 1931	30	0528 1805	0649 1809	0603 1811	0709 1907	30
22	0402 1728	0572 1850	0402 1728	0572 1850	0649 1853	0649 1853	0820 2023	0820 2023	31	0572 1850	0649 1853	0820 2023	0820 2023	31

Time meridian 75° W. 0000 is midnight. 1200 is noon.

TABLE 7.—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
50	1524	1527	1530	1533	1536	1539	1542	1545	1548	1551	50

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 Meter = 3.2808399 feet

1 Foot = 0.30480061 meters

1 Foot = 30.480061 centimeters

TABLE 8.—TIDE PREDICTION ACCURACY

EXPLANATION OF TABLE

The accuracy of National Ocean Service tide predictions is determined by comparing predicted and observed high and low waters at all stations for which data exists, primarily the U.S. and its territories. Each water-level station is unique; there is no single standard of accuracy when comparing astronomic tide predictions with observed water levels. Water-level station locations are examined on an individual basis to determine if the predictions are adequate. Comparisons are based on 1989 data except for those locations where the stations were not in operation or the data acquired were unacceptable. If a station was not in operation in 1989, the last good year of data was used. Comparisons are made by subtracting the observed times and heights of the high and low waters from the predicted tides to compute a difference.

Table Legend

Station ID—Each water-level station in the United States and dependent territories has a unique seven digit identification number (ID). The ID is unrelated to the four digit station number used in the published prediction tables.

90% Distribution Level—90% of the absolute values of the differences are less than or equal to the values in these columns.

Standard Deviation of Differences—Standard deviation of all the differences.

Average Difference—Average of the signed sum of all the differences.

Notes

Albany—This station, located on the Hudson River, experiences a significant change in river level and corresponding times and heights of high and low waters throughout the year.

Baltimore—Winds greatly affect the times and heights of the high and low tides, owing to the large shallow bay and small tidal range.

Gulf of Mexico locations—Water level is difficult to predict because the Gulf, being large, relatively shallow, and with a small tidal range, is greatly influenced by weather conditions.

TABLE 8.—TIDE PREDICTION ACCURACY

Station ID	Station Name	Year	90% Distribution Level				Standard Deviation of Differences				Average Differences			
			Time Differences		Height Differences		Times		Heights		Times		Heights	
			High Water (Hours)	Low Water (Hours)	High Water (Feet)	Low Water (Feet)	High Water (Hours)	Low Water (Hours)	High Water (Feet)	Low Water (Feet)	High Water (Hours)	Low Water (Hours)	High Water (Feet)	Low Water (Feet)
841-0140	Eastport, ME	1998	0.2	0.2	0.7	0.6	0.09	0.11	0.41	0.40	-0.07	-0.10	-0.08	-0.10
841-8150	Portland, ME	1998	0.3	0.2	0.6	0.6	0.14	0.13	0.40	0.39	-0.10	-0.07	-0.11	0.06
844-3970	Boston, MA	1998	0.3	0.3	0.8	0.7	0.14	0.14	0.49	0.48	-0.10	-0.10	-0.09	-0.09
844-7930	Woods Hole, MA	2003	0.5	>1.0	0.7	0.7	0.48	0.77	0.43	0.40	-0.03	0.01	-0.02	-0.01
844-9130	Nantucket, MA	2003	0.3	0.3	0.6	0.6	0.23	0.21	0.40	0.39	-0.03	0.03	-0.03	0.03
845-2660	Newport, RI	1997	0.3	0.6	0.7	0.7	0.19	0.14	0.41	0.40	-0.06	-0.04	-0.07	-0.05
846-1490	New London, CT	1998	0.4	0.3	0.7	0.7	0.25	0.22	0.47	0.47	-0.11	-0.08	-0.10	-0.09
846-7150	Bridgeport, CT	1998	0.3	0.3	0.8	0.8	0.13	0.13	0.55	0.56	-0.12	-0.15	-0.11	-0.16
841-6945	Kings Point, NY	1999	0.9	>1.0	0.8	0.8	0.59	0.54	0.55	0.56	-0.12	-0.15	-0.11	-0.16
851-8750	The Battery, NY	2003	0.6	0.5	0.9	0.9	0.37	0.31	0.59	0.60	-0.07	-0.06	0.03	-0.02
853-1680	Sandy Hook, NJ	2002	0.4	0.4	0.8	0.9	0.25	0.25	0.51	0.54	-0.13	-0.12	0.19	0.21
853-4720	Atlantic City, NJ	2000	0.3	0.4	0.9	0.9	0.24	0.24	0.57	0.57	-0.02	-0.01	0.02	-0.02
854-5530	Philadelphia, PA	1989	0.5	0.6	1.0	1.0	0.30	0.36	0.72	0.65	0.14	0.11	-0.12	0.28
855-1910	Reedy Point, DE	2002	0.5	0.7	0.9	0.9	0.23	0.31	0.55	0.56	-0.18	-0.35	0.09	-0.02
855-7380	Breakwater Harbor, DE	1998	0.3	0.3	0.9	0.9	0.18	0.18	0.62	0.68	-0.06	-0.03	-0.03	-0.01
857-4680	Baltimore, MD	1998	0.8	1.0	1.0	1.0	1.38	1.43	0.64	0.62	-0.21	-0.09	-0.21	-0.11
859-4900	Washington, DC	1998	0.5	0.8	1.0	1.0	0.33	0.48	0.73	0.83	-0.05	-0.19	-0.03	-0.23
863-8863	Chesapeake Bay Bri Tunnel	2002	0.3	0.4	0.8	0.8	0.25	0.27	0.50	0.52	-0.06	-0.08	-0.07	-0.08
863-8610	Hampton Roads, VA	1995	0.4	0.4	0.8	0.9	0.27	0.25	0.51	0.56	0.07	0.05	0.03	-0.01
865-8120	Wilmington, NC	2003	0.5	0.5	0.6	0.8	0.34	0.29	0.38	0.46	-0.01	-0.08	0.11	0.16
8661070	Myrtle Beach, SC	2003	0.4	0.4	0.8	0.8	0.28	0.29	0.48	0.50	0.00	0.01	0.00	0.00
866-5530	Charleston, SC	2000	0.4	0.4	0.6	0.7	0.19	0.20	0.42	0.47	0.14	-0.10	0.05	-0.02
867-0870	Savannah R. Ent., GA	1995	0.3	0.3	0.7	0.9	0.21	0.19	0.47	0.58	-0.01	-0.07	0.05	0.03
872-0030	Fernandina Beach, FL	1995	0.2	0.3	0.9	0.9	0.15	0.19	0.48	0.56	-0.02	0.06	0.33	0.30
872-0218	Mayport, FL	2003	0.2	0.3	0.6	0.8	0.14	0.21	0.41	0.51	-0.04	0.01	-0.02	0.01
872-3178	Miami, Government Cut, FL	1985	0.3	0.3	0.4	0.4	0.18	0.17	0.25	0.24	-0.07	0.01	-0.02	-0.01
872-4580	Key West, FL	2000	0.5	0.4	0.3	0.3	0.29	0.25	0.19	0.20	-0.18	-0.06	-0.15	-0.10
872-6520	St. Petersburg, FL	2003	0.7	0.7	0.6	0.5	0.56	0.44	0.38	0.34	0.07	0.00	0.01	0.2
872-9840	Pensacola, FL	1995	>1.0	>1.0	0.6	0.9	2.61	2.72	0.48	0.41	0.04	0.10	-0.04	0.07
873-7048	Mobile, AL	1994	>1.0	>1.0	0.8	0.7	2.56	2.49	0.48	0.45	0.05	-0.09	-0.05	0.04
876-1724	Grand Isle, LA	2003	>1.0	>1.0	0.5	0.5	1.21	1.22	0.30	0.30	-0.24	-0.33	0.00	0.00
877-1450	Galveston, TX	1995	>1.0	>1.0	0.7	0.8	1.29	1.25	0.50	0.54	-0.15	-0.12	-0.03	-0.03

TABLE 9.— LOWEST/ HIGHEST ASTRONOMICAL TIDE AND OTHER TIDAL DATUMS

EXPLANATION OF TABLE

Lowest Astronomical Tide (LAT) and Highest Astronomical Tide (HAT) are the lowest and highest predicted values for the tides at a given location over a 19 year period. These values were calculated by generating tide predictions for the time period of the latest National Tidal Datum Epoch (1983-2001) using the latest set of tidal harmonic constituents. The highest and lowest values predicted were recorded to the nearest 0.1 foot. It is important to note that the LAT and HAT values are derived solely from predicted tides based on astronomical forces. Observed water levels can be above the HAT level or below the LAT level due to storms, winds, or other meteorological effects which are not accounted for in the tide predictions.

Table Legend

Station - Each water level station in the United States and its territories has a unique seven digit identification number (ID). The ID is unrelated to the four digit indexing number used in the published prediction tables.

LAT - Lowest Astronomical Tide - The lowest predicted tidal level

MLLW - Mean Lower Low Water

MLW - Mean Low Water

MHW - Mean High Water

MHHW - Mean Higher High Water

HAT - Highest Astronomical Tide - The highest predicted tidal level

Notes

All elevations are provided in feet relative to Mean Lower Low Water (MLLW), the reference datum for tide predictions and soundings on NOAA nautical charts. The other tidal datums (Mean Low Water, Mean High Water, and Mean Higher High Water) in this table are included to provide additional information.

**TABLE 9.— LOWEST/ HIGHEST ASTRONOMICAL TIDE AND
OTHER TIDAL DATUMS**
RELATIVE TO MLLW (feet)

Station	Name	LAT	MLW	MHW	MHHW	HAT
8410140	Eastport, Maine	-3.4	0.4	18.8	19.3	22.9
8413320	Bar Harbor, Maine	-2.2	0.4	10.9	11.4	13.7
8418150	Portland, Maine	-2.0	0.3	9.5	9.9	11.9
8443970	Boston, Massachusetts	-2.2	0.3	9.8	10.3	12.4
8449130	Nantucket Island, Massachusetts	-0.8	0.2	3.2	3.6	4.5
8447930	Woods Hole, Massachusetts	-0.7	0.1	1.9	2.2	3.2
8452660	Newport, Rhode Island	-1.0	0.1	3.6	3.9	5.2
8510560	Montauk, Fort Pond, New York	-0.9	0.2	2.2	2.5	3.5
8461490	New London, Connecticut	-0.8	0.2	2.8	3.1	3.9
8467150	Bridgeport, Connecticut	-1.4	0.2	7.0	7.3	8.8
8516945	Kings Point, New York	-1.5	0.3	7.4	7.8	9.7
8518750	New York (The Battery), New York	-1.5	0.2	4.7	5.1	6.4
8519483	Bayonne Bridge, New York	-1.6	0.2	5.2	5.5	6.9
8518995	Albany, New York	-1.1	0.2	5.1	5.5	6.3
8531680	Sandy Hook, New Jersey	-1.4	0.2	4.9	5.2	6.6
8534720	Atlantic City, New Jersey	-1.3	0.2	4.2	4.6	5.8
8557380	Breakwater Harbor, Delaware	-1.1	0.2	4.2	4.7	5.8
8551910	Reedy Point, Delaware	-1.0	0.2	5.5	5.8	6.9
8545530	Philadelphia, Pennsylvania	-0.6	0.2	6.4	6.8	8.0
8570280	Ocean City, Maryland	-1.2	0.2	3.5	3.9	5.1
8574680	Baltimore, Maryland	-0.6	0.2	1.4	1.7	2.3
8594900	Washington, DC	-0.6	0.2	2.9	3.2	3.8
8638863	Chesapeake Bay Bridge Tunnel, Virginia	-0.9	0.1	2.7	2.9	4.0
8638610	Hampton Roads, Sewells Point, Virginia	-0.7	0.1	2.6	2.8	3.6
8651370	Duck Pier, North Carolina	-1.0	0.1	3.4	3.7	4.9
8652587	Oregon Inlet Marina, North Carolina	-0.2	0.1	1.0	1.2	1.7
8654400	Cape Hatteras, North Carolina	-1.0	0.1	3.1	3.5	4.7
8658120	Wilmington, North Carolina	-0.4	0.2	4.4	4.7	5.4
8661070	Myrtle Beach, South Carolina	-1.5	0.2	5.2	5.6	7.2
8665530	Charleston, South Carolina	-1.5	0.2	5.4	5.8	7.3
8670870	Savannah River Entrance, Georgia	-1.7	0.2	7.1	7.5	9.2
8670681	Savannah, Georgia	-1.9	0.3	8.1	8.6	10.1
8720030	Fernandina Beach, Florida	-1.7	0.2	6.2	6.6	8.2
8720218	Mayport, Florida	-1.6	0.2	4.7	5.0	6.4
8721604	Port Canaveral, Florida	-1.2	0.2	3.6	4.0	5.4
8723178	Miami, Government Cut, Florida	-0.9	0.1	2.5	2.5	3.6
8723970	Vaca Key, Florida	-0.5	0.2	0.9	1.0	1.7
8724580	Key West, Florida	-0.8	0.2	1.5	1.8	2.6
8725110	Naples, Florida	-1.4	0.6	2.6	2.9	3.8
8726520	St. Petersburg, Florida	-1.1	0.4	2.0	2.3	3.1
8727520	Cedar Key, Florida	-1.4	0.6	3.5	3.8	4.8
8728130	St. Marks River Entrance, Florida	-1.6	0.6	3.3	3.5	4.5
8728690	Apalachicola, Florida	-1.0	0.4	1.5	1.6	2.1
8729840	Pensacola, Florida	-1.2	0.0	1.2	1.3	2.2
8735180	Dauphin Island, Alabama	-1.0	0.0	1.2	1.2	2.0
8737048	Mobile, Alabama	-1.2	0.1	1.5	1.6	2.4
8760551	South Pass, Louisiana	-1.2	0.0	1.2	1.2	2.2
8761724	Grand Isle, Louisiana	-0.9	0.0	1.1	1.1	1.8
8771450	Galveston, Texas	-1.2	0.3	1.3	1.4	2.0
8773701	Port O'Connor, Texas	-0.9	0.0	0.8	0.8	1.7
8779750	Padre Island, Texas	-1.5	0.2	1.4	1.5	2.4
2695540	Bermuda Esso Pier, Bermuda	-0.8	0.1	2.6	2.9	3.9
9710441	Settlement Point, Grand Bahamas Island	-0.8	0.1	2.8	3.1	4.1
9759110	Magueyes Island, Puerto Rico	-0.5	0.0	0.7	0.7	1.1
9755371	San Juan, Puerto Rico	-0.6	0.2	1.3	1.6	2.2
9751639	Charlotte Amalie, St. Thomas Island	-0.5	0.0	0.7	0.8	1.2
9751401	Lime Tree Bay, St. Croix Island	-0.5	0.0	0.7	0.7	1.1

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).

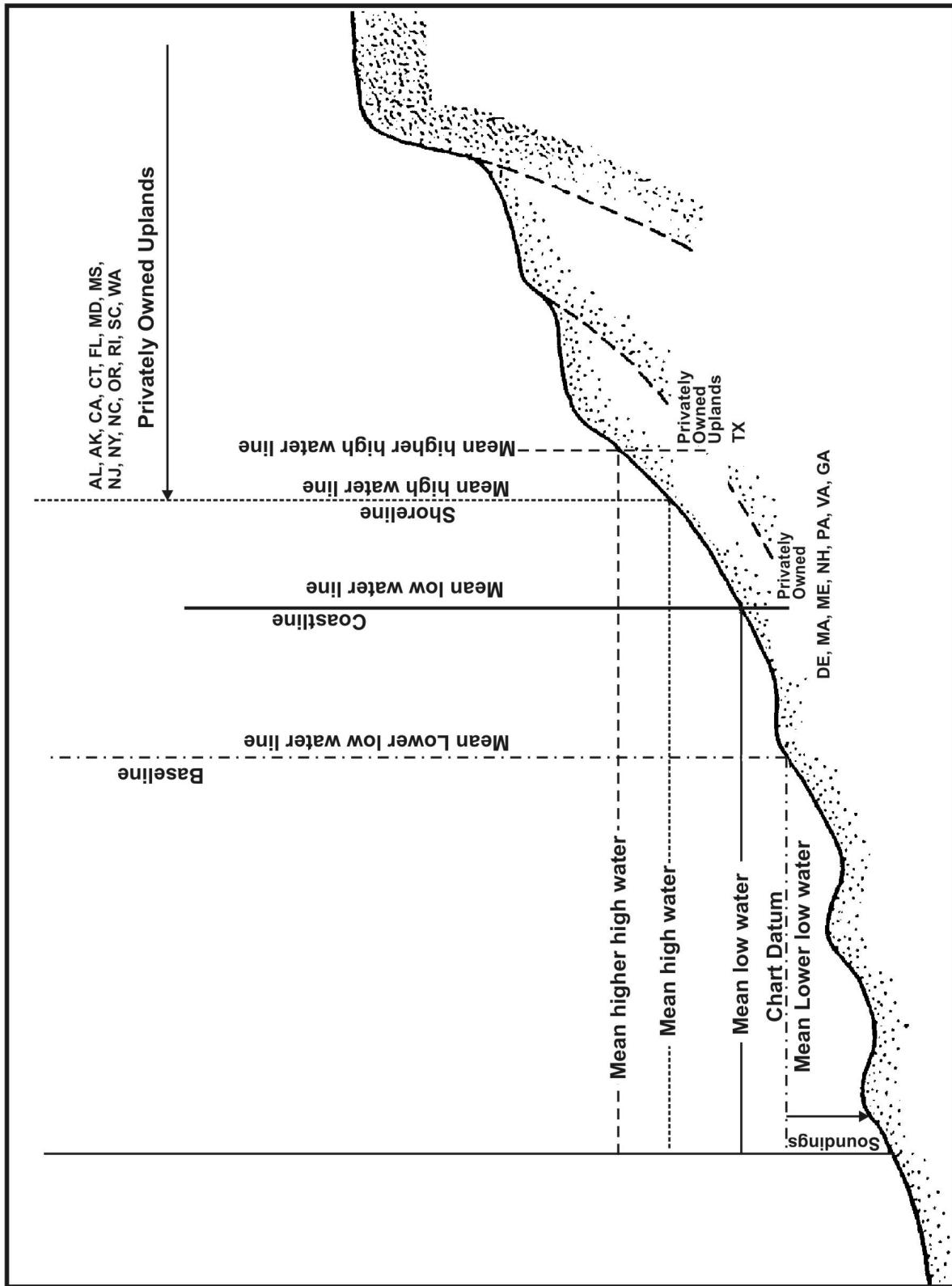
TIDAL CURRENT TABLES

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.

OFFICIAL U.S. DATUMS



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

GLOSSARY OF TERMS

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:

$$\text{Greenwich interval} = \text{local interval} + 0.069 L$$

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*.

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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* (Np) 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* (Pn) 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.

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For 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* (T_{cHHW}), *tropic lower high water* (T_{cLHW}), *tropic higher low water* (T_{cHLW}), and *tropic lower low water* (T_{cLLW}).

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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S	10	23	..
○	16	19	05
E	17	12	..
P	18	17	..
○ _s	22	14	21
●	23	09	56
N	23	17	..
E	30	17	..

October			
	d	h	m
●	1	00	11
A	4	11	..
S	8	07	..
○	9	04	33
E	14	23	..
○	16	04	23
P	16	23	..
N	21	00	..
○	22	19	14
E	28	00	..
●	30	17	38
A	31	19	..

November			
	d	h	m
S	4	14	..
○	7	19	51
E	11	10	..
P	14	11	..
○	14	13	52
N	17	10	..
○	21	08	33
E	24	06	..
A	27	20	..
●	29	12	18

December			
	d	h	m
S	1	21	..
○	7	09	03
E	8	20	..
P	12	23	..
○	14	00	05
N	14	22	..
○	21	01	56
○ _d	21	10	44
E	21	15	..
A	25	05	..
S	29	04	..
●	29	06	53

LUNAR DATA

- -- new Moon
- -- first quarter
- -- full Moon
- -- last quarter
- 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.