

Tidal Datum Errors for East Coast of the United States (Maine, New Hampshire, Massachusetts, Rhode Island, Connecticut, New York, New Jersey, Pennsylvania, Delaware, Maryland, Washington DC, Virginia, North Carolina, South Carolina, Georgia, and Florida)

Standard deviation (or accuracy) of Tidal Datum Computations:

The time period necessary to incorporate all of the major astronomical tide producing cycles into the computation of a tidal datum is 19-years. All tidal datums are referenced to specific 19-year National Tidal Datum Epochs (NTDE). First reduction tidal datums are determined directly by averaging values of the tidal parameters over a 19-year NDTE. Errors in determination of tidal datums using First Reduction for the 19-year NTDE are theoretically zero. NTDE datums for short-term subordinate stations are computed and adjusted to a 19-year NTDE equivalent using simultaneous comparison with an appropriate nearby control station (NOS, 2003, Swanson, 1974, and Marmer, 1951). See Gill and Fisher, 2008:

http://tidesandcurrents.noaa.gov/publications/Technical_Memorandum_NOS_COOPS_0048.pdf for the areas of coverage for tidal datum computation for each National Water Level Observation Network (NWLON) control tide station.

Errors in determination of tidal datums at short-term stations through the method of simultaneous comparison are known to be generally correlated with the length if the subordinate station observations, with geographic distance from the control station and with difference in range of tide and time of tide between control and subordinate stations. In applied research performed by Bodnar (1981), multiple curvilinear regression equations estimating the accuracy of computed 19-year equivalent tidal datums were developed. The formulas for Mean Low Water were adopted for use in estimating tidal datum errors because the low water differences express the effects of shallow water and bottom friction better than MHW. Although these regression equations are the best available estimate of the datum accuracy they may be unreliable in areas which have widely divergent characteristics.

The table below provides datum error estimates using the standard deviation of the estimate (in feet). To estimate the 95% Confidence Interval of the errors, multiply the standard deviation by 1.96.

Station Name	STATION ID	Latitude	Longitude	Error in Meters	Error in Feet
EASTPORT, PASSAMAQUODDY BAY	8410140	44.904600	-66.982900	0.000	0.00
COFFIN POINT, COFFIN NECK	8410714	44.870000	-67.108300	0.014	0.05
GARNET POINT, HERSEY NECK	8410715	44.923300	-67.130000	0.014	0.05
PETTEGROVE POINT, DOCHET ISLAND	8410834	45.128444	-67.144667	0.012	0.04
GRAVELLY PT., WHITING BAY	8410864	44.823333	-67.151667	0.014	0.05
CUTLER FARRIS WHARF, LITTLE RIVER	8411060	44.656700	-67.210000	0.013	0.04
CUTLER NAVAL BASE, MACHIAS BAY	8411250	44.641700	-67.296700	0.006	0.02
MILBRIDGE, NARRAGUAGUS RIVER	8412581	44.540000	-67.875000	0.017	0.05
BAR HARBOR, FRENCHMAN BAY	8413320	44.391700	-68.205000	0.001	0.00

Station Name	STATION ID	Latitude	Longitude	Error in Meters	Error in Feet
ELLSWORTH, UNION RIVER	8413801	44.535000	-68.421700	0.015	0.05
OCEANVILLE, DEER ISLAND	8414249	44.192306	-68.620931	0.015	0.05
BANGOR, PENOBSCOT RIVER	8414612	44.785000	-68.766700	0.021	0.07
FORT POINT, PENOBSCOT RIVER	8414721	44.471700	-68.813300	0.025	0.08
WINTERPORT, PENOBSCOT RIVER	8414781	44.636700	-68.841700	0.020	0.07
PULPIT HARBOR, PENOBSCOT BAY	8414888	44.156700	-68.886700	0.023	0.07
BELFAST, PENOBSCOT BAY	8415191	44.426700	-69.005000	0.017	0.05
ROCKLAND	8415490	44.105000	-69.101700	0.003	0.01
THOMASTON, ST GEORGE RIVER	8415709	44.071700	-69.181700	0.021	0.07
WALPOLE, DAMARISCOTTA RIVER	8416731	43.933300	-69.580000	0.013	0.04
GARDINER, KENNEBEC RIVER	8417134	44.233300	-69.766700	0.031	0.10
HUNNIWELL POINT, KENNEBEC RIVER	8417177	43.755000	-69.785000	0.017	0.06
RICHMOND, KENNEBEC RIVER	8417208	44.088300	-69.798300	0.029	0.09
BATH, KENNEBEC RIVER	8417227	43.925000	-69.815000	0.021	0.07
GREAT CHEBEAGUE ISLAND	8417881	43.721700	-70.141700	0.013	0.04
LONG ISLAND, CASCO BAY	8417941	43.690000	-70.170000	0.012	0.04
PRINCE POINT, YARMOUTH	8417948	43.761700	-70.173300	0.013	0.04
GREAT DIAMOND IS., CASCO BAY	8417988	43.670000	-70.200000	0.011	0.04
CUSHING ISLAND, CASCO BAY	8417997	43.645000	-70.198300	0.011	0.04
COW ISLAND, CASCO BAY	8418009	43.690000	-70.190000	0.012	0.04
FALMOUTH FORESIDE	8418015	43.731700	-70.205000	0.012	0.04
PORTLAND HEAD LIGHT STATION	8418031	43.623300	-70.206700	0.012	0.04
PORTLAND, CASCO BAY	8418150	43.656700	-70.246700	0.000	0.00
FORE RIVER, PORTLAND	8418268	43.641700	-70.285000	0.011	0.04
PINE POINT, SCARBOROUGH RIVER	8418445	43.545000	-70.333300	0.014	0.05
CAMP ELLIS, SACO RIVER	8418606	43.461700	-70.381700	0.015	0.05
BIDDEFORD, SACO RIVER	8418828	43.491700	-70.446700	0.016	0.05
KENNEBUNKPORT, KENNEBUNK RIVER	8418911	43.358300	-70.476700	0.017	0.05
WELLS, WEBHANNET RIVER	8419317	43.320000	-70.563306	0.008	0.03
CAPE NEDDICK	8419399	43.166700	-70.593300	0.019	0.06
FORT POINT, YORK HARBOR	8419528	43.130000	-70.638300	0.020	0.07
SEAPOINT, CUTTS ISLAND	8419590	43.085000	-70.661700	0.020	0.06
SEAVEY ISLAND, PORTSMOUTH HARBOR	8419870	43.080000	-70.741700	0.014	0.05
DOVER, COCHECO RIVER	8420411	43.198300	-70.868300	0.024	0.08
FORT POINT, NEWCASTLE ISLAND	8423898	43.071700	-70.711700	0.008	0.03
SALISBURY POINT, MERRIMACK RIVER	8440273	42.838300	-70.908300	0.020	0.07
MERRIMACPORT, MERRIMACK RIVER	8440369	42.825000	-70.988300	0.023	0.07
PLUM ISLAND, MERRIMACK RIVER ENTRANCE	8440452	42.816700	-70.820000	0.019	0.06
NEWBURYPORT, MERRIMACK RIVER	8440466	42.815000	-70.873300	0.016	0.05
RIVERSIDE, MERRIMACK RIVER	8440889	42.763300	-71.076700	0.027	0.09
PLUM IS. SOUTH END	8441241	42.710139	-70.788611	0.018	0.06
ROCKPORT HARBOR	8441551	42.658300	-70.615000	0.018	0.06
LOBSTER COVE, ANNISQUAM RIVER	8441571	42.655000	-70.676700	0.015	0.05
ESSEX, ESSEX RIVER	8441771	42.631700	-70.776700	0.015	0.05
GLOUCESTER HARBOR	8441841	42.610000	-70.660000	0.017	0.06
BEVERLY, BEVERLY HARBOR	8442417	42.540000	-70.886700	0.015	0.05
SALEM, SALEM HARBOR	8442645	42.523300	-70.876700	0.015	0.05
LYNN, LYNN HARBOR	8443187	42.458300	-70.943300	0.014	0.05
AMELIA EARHART DAM, MYSTIC RIVER	8443662	42.395000	-71.076700	0.012	0.04
CHELSEA ST. BRIDGE, CHELSEA RIVER	8443725	42.386700	-71.023300	0.011	0.04
BOSTON, BOSTON HARBOR	8443970	42.354800	-71.053400	0.000	0.00
BOSTON LIGHT, BOSTON HARBOR	8444162	42.328300	-70.891700	0.011	0.04
NUT ISLAND, QUINCY BAY	8444525	42.280000	-70.953300	0.010	0.03

Station Name	STATION ID	Latitude	Longitude	Error in Meters	Error in Feet
SHIPYARD POINT, WEYMOUTH FORE RIVER	8444788	42.248300	-70.966700	0.013	0.04
SCITUATE, SCITUATE HARBOR	8445138	42.201700	-70.726700	0.016	0.05
BRANT ROCK, GREEN HARBOR RIVER	8446009	42.083300	-70.646700	0.017	0.06
PROVINCETOWN, CAPE COD	8446121	42.049592	-70.182158	0.016	0.05
DUXBURY, DUXBURY HARBOR	8446166	42.038300	-70.670000	0.019	0.06
PLYMOUTH, PLYMOUTH HARBOR	8446493	41.960000	-70.661700	0.018	0.06
SAGAMORE, CAPE COD CANAL (STA. 115)	8447173	41.775000	-70.535000	0.021	0.07
SANDWICH MARINA, CAPE COD CANAL	8447180	41.771700	-70.506700	0.007	0.02
BOURNEDALE, CAPE COD CANAL (STA. 200)	8447191	41.770000	-70.561700	0.023	0.08
SESUIT HARBOR, EAST DENNIS	8447241	41.751700	-70.155000	0.021	0.07
BOURNE BRIDGE, CAPE COD CANAL (STA. 320)	8447259	41.745000	-70.593300	0.025	0.08
BUZZARDS BAY (RR BRIDGE), CAPE COD CANAL	8447270	41.741700	-70.616700	0.024	0.08
ONSET BEACH T-12	8447277	41.741700	-70.658300	0.025	0.08
STEEPBROOK	8447281	41.740000	-71.131700	0.015	0.05
GRAY GABLES, BUZZARDS BAY	8447295	41.735000	-70.623300	0.021	0.07
MONUMENT BEACH T-8	8447355	41.715000	-70.616700	0.021	0.07
GREAT HILL	8447368	41.711700	-70.715000	0.016	0.05
FALL RIVER, HOPE BAY	8447386	41.704300	-71.164100	0.004	0.01
PINEY POINT, WINGS COVE	8447416	41.695000	-70.720000	0.019	0.06
CHATHAM, LYDIA COVE	8447435	41.688472	-69.951083	0.012	0.04
SAQUATUCKET HARBOR	8447495	41.668300	-70.056700	0.016	0.05
CHATHAM, STAGE HARBOR	8447505	41.666700	-69.966700	0.020	0.07
HYANNISPORT	8447605	41.631700	-70.300000	0.018	0.06
CHAPPAQUOIT POINT, BUZZARDS BAY	8447685	41.605000	-70.651700	0.019	0.06
NEW BEDFORD, CLARKS POINT	8447712	41.593300	-70.900000	0.017	0.06
ROUND HILL POINT	8447842	41.538300	-70.928300	0.014	0.05
WOODS HOLE, BUZZARDS BAY	8447930	41.523300	-70.671700	0.000	0.00
VINEYARD HAVEN, VINEYARD HVN HBR	8448157	41.458300	-70.600000	0.017	0.05
PENIKESE ISLAND	8448248	41.450000	-70.921700	0.012	0.04
QUICK'S HOLE	8448251	41.448300	-70.856700	0.018	0.06
CUTTYHUNK	8448376	41.425000	-70.916700	0.019	0.06
EDGARTOWN, MARTHA'S VINEYARD	8448558	41.388300	-70.511700	0.020	0.06
MENEMSHA HARBOR	8448725	41.354444	-70.767833	0.009	0.03
NANTUCKET ISLAND, NANTUCKET SOUND	8449130	41.285000	-70.096700	0.000	0.00
SAKONNET	8450768	41.465000	-71.193300	0.012	0.04
SAKONNET RIVER, NORTH END, BAY OIL PIER	8450898	41.651700	-71.210000	0.016	0.05
ANTHONY POINT	8450948	41.638300	-71.211700	0.016	0.05
NANNAQUAKET	8450954	41.618300	-71.203300	0.014	0.05
THE GLEN,SAKONNET RIVER	8451301	41.558300	-71.236700	0.013	0.04
SACHUEST, FLINT POINT	8451351	41.486700	-71.238300	0.014	0.04
BRISTOL FERRY	8451552	41.636700	-71.255000	0.015	0.05
NAVY PIER, PRUDENCE ISLAND	8452555	41.580000	-71.321700	0.013	0.04
NEWPORT, NARRAGANSETT BAY	8452660	41.505000	-71.326700	0.000	0.00
CONIMICUT LIGHT, NARRAGANSETT BAY	8452944	41.716700	-71.343300	0.005	0.01
BAY SPRING, BULLOCK COVE	8453033	41.751700	-71.351700	0.012	0.04
CASTLE HILL	8453201	41.463300	-71.361700	0.013	0.04
RUMFORD, SEEKONK RIVER	8453433	41.840000	-71.373300	0.011	0.04
WARWICK POINT	8453572	41.666700	-71.378300	0.015	0.05
WEST JAMESTOWN	8453742	41.496700	-71.386700	0.012	0.04
PAWTUXET COVE, PROVIDENCE RIVER	8453767	41.761700	-71.388300	0.011	0.04
BEAVERTAIL POINT	8453999	41.451700	-71.401700	0.013	0.04
PROVIDENCE, PROVIDENCE RIVER	8454000	41.807100	-71.401200	0.000	0.00
QUONSET POINT	8454049	41.586800	-71.411000	0.004	0.01

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BOSTON NECK	8454341	41.460000	-71.428300	0.013	0.04
WICKFORD, NARRAGANSETT BAY	8454538	41.571700	-71.445000	0.014	0.05
POINT JUDITH, HARBOR OF REFUGE	8455083	41.363300	-71.490000	0.017	0.05
WEEKAPAUG POINT, BLOCK ISLAND SOUND	8458022	41.328300	-71.761700	0.021	0.07
WATCH HILL POINT	8458694	41.305000	-71.860000	0.016	0.05
BLOCK ISLAND HARBOR, OLD HARBOR	8459338	41.173300	-71.556700	0.014	0.05
BLOCK ISLAND, SW END, BLOCK ISLAND SOUND	8459681	41.163300	-71.610000	0.017	0.06
NORWICH, THAMES RIVER	8461392	41.523300	-72.078300	0.014	0.05
YALE BOATHOUSE, THAMES RIVER	8461467	41.430000	-72.093300	0.012	0.04
NEW LONDON, THAMES RIVER	8461490	41.361389	-72.089972	0.000	0.00
NIANTIC, NIANTIC RIVER	8461925	41.325000	-72.186700	0.014	0.05
LYME HWY. BR. CT. RIVER	8462764	41.321700	-72.350000	0.019	0.06
TYLERVILLE, CONNECTICUT R.	8463348	41.451700	-72.465000	0.018	0.06
CLINTON, CLINTON HARBOR	8463701	41.268300	-72.531700	0.021	0.07
MAROMAS, CONNECTICUT RIVER	8463827	41.541700	-72.551700	0.020	0.07
HIGGANUM CREEK, CONNECTICUT R.	8463836	41.503300	-72.553300	0.019	0.06
ROCKY HILL,CONNECTICUT RIVER	8464255	41.663300	-72.630000	0.024	0.08
MIDDLETOWN, CONNECTICUT RIVER	8464336	41.560000	-72.645000	0.016	0.05
SOUTH HARTFORD, CONNECTICUT RIVER	8464418	41.755000	-72.658300	0.026	0.09
GUILFORD, GUILFORD HARBOR	8464445	41.271700	-72.666700	0.020	0.06
BRANFORD, BRANFORD RIVER	8465233	41.261700	-72.818300	0.015	0.05
LIGHTHOUSE POINT, NEW HAVEN HARBOR	8465692	41.251700	-72.905000	0.014	0.05
NEW HAVEN, NEW HAVEN HARBOR	8465705	41.283300	-72.908300	0.005	0.02
NEW HAVEN	8465748	41.293300	-72.916700	0.014	0.04
GULF BEACH	8466375	41.205000	-73.041700	0.014	0.05
MILFORD HARBOR	8466442	41.218300	-73.055000	0.012	0.04
SHELTON, HOUSATONIC RIVER	8466573	41.301700	-73.071700	0.017	0.06
MURPHY'S BOAT YARD, HOUSATONIC RIVER	8466664	41.275000	-73.088300	0.016	0.05
SNIFFENS POINT, HOUSATONIC RIVER	8466791	41.186700	-73.113300	0.012	0.04
I-95 BRIDGE, HOUSATONIC RIVER	8466797	41.203300	-73.111700	0.013	0.04
BRIDGEPORT, BRIDGEPORT HARBOR	8467150	41.173300	-73.181700	0.000	0.00
BLACK ROCK HARBOR, CEDAR CREEK	8467373	41.156700	-73.213300	0.011	0.04
SOUTHPORT, SOUTHPORT HARBOR	8467726	41.133300	-73.283300	0.013	0.04
SOUTH NORWALK, NORWALK RIVER	8468448	41.096700	-73.415000	0.015	0.05
ROWAYTON, FIVEMILE RIVER	8468609	41.065000	-73.445000	0.015	0.05
LONG NECK POINT, LONG ISLAND SOUND	8468799	41.038300	-73.480000	0.019	0.06
U.S. COAST GUARD STATION, LAKE MONTAUK	8510448	41.073300	-71.935000	0.010	0.03
MONTAUK, FORT POND BAY	8510560	41.048300	-71.960000	0.000	0.00
SILVER EEL POND, FISHERS IS.	8510719	41.256700	-72.030000	0.008	0.03
PLUM ISLAND PLUM GUT HARBOR	8511236	41.171700	-72.205000	0.013	0.04
ORIENT, ORIENT HARBOR	8511671	41.136700	-72.306700	0.019	0.06
SHINNECOCK INLET	8512354	40.836700	-72.480000	0.019	0.06
PONQUOGUE POINT, SHINNECOCK BAY	8512451	40.850000	-72.503300	0.010	0.03
MATTITUCK INLET, LONG ISLAND	8512668	41.015000	-72.561700	0.020	0.07
SHINNECOCK BAY, INSIDE OUTER BAR	8512671	40.820000	-72.561700	0.019	0.06
SOUTH JAMESPORT, GREAT PECONIC BAY	8512735	40.935000	-72.581700	0.009	0.03
SHINNECOCK YACHT CLUB, PENNIMAN CREEK	8512769	40.818556	-72.586611	0.020	0.06
NORTHVILLE FUEL DOCK, LONG ISLAND	8512987	40.981700	-72.645000	0.014	0.05
MORICHES COAST GUARD STATION, MORICHES B	8513388	40.786700	-72.750000	0.009	0.03
Moriches Inlet (Open Coast)	8513398	40.764417	-72.755972	0.027	0.09
SMITH POINT BRIDGE, NARROW BAY	8513825	40.738300	-72.868300	0.017	0.06
PATCHOGUE, PATCHOGUE RIVER	8514322	40.750000	-73.000000	0.020	0.07
CEDAR BEACH	8514422	40.965000	-73.043300	0.013	0.04

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PORT JEFFERSON	8514560	40.950000	-73.076700	0.007	0.02
BAYSHORE, LONG ISLAND	8515102	40.716700	-73.240000	0.020	0.07
FIRE ISLAND COAST GUARD STATION	8515186	40.626700	-73.260000	0.020	0.07
NORTHPORT, NORTHPORT BAY	8515586	40.900000	-73.353300	0.019	0.06
EATONS NECK, HUNTINGTON BAY	8515786	40.953300	-73.400000	0.009	0.03
LLOYD HARBOR LIGHTHOUSE	8515921	40.910000	-73.431700	0.019	0.06
COLD SPRINGS HARBOR	8516061	40.873300	-73.470000	0.018	0.06
GREEN ISLAND DRAWBRIDGE	8516155	40.623300	-73.501700	0.021	0.07
BAYVILLE BRIDGE, OYSTER BAY	8516299	40.903300	-73.550000	0.018	0.06
GLEN COVE YACHT CLUB, LONG ISLAND	8516614	40.863300	-73.655000	0.016	0.05
LONG BEACH	8516663	40.596333	-73.655083	0.016	0.05
PORT WASHINGTON, MANHASSET BAY	8516761	40.831700	-73.703300	0.016	0.05
NORTON POINT, HOOK CREEK	8516891	40.635000	-73.746700	0.015	0.05
KINGS POINT, LONG ISLAND SOUND	8516945	40.810300	-73.764900	0.004	0.01
WILLETS POINT, LITTLE BAY, EAST RIVER	8516990	40.793300	-73.781700	0.000	0.00
BROOKLYN BRIDGE, EAST RIVER	8517847	40.703300	-73.995000	0.015	0.05
RYE BEACH, AMUSEMENT PARK	8518091	40.961700	-73.671700	0.012	0.04
NEW ROCHELLE	8518490	40.893300	-73.781700	0.009	0.03
PORT MORRIS, EAST 138TH ST.	8518639	40.801700	-73.906700	0.012	0.04
HORNS HOOK, E. 90TH STREET, HELL GATE	8518668	40.776700	-73.941700	0.014	0.05
QUEENSBORO BRIDGE, EAST RIVER	8518687	40.758300	-73.958300	0.017	0.06
WILLIAMSBURG BRIDGE	8518699	40.711700	-73.968300	0.016	0.05
THE BATTERY, NEW YORK HARBOR	8518750	40.700600	-74.014200	0.000	0.00
HAVERSTRAW BAY	8518924	41.218300	-73.963300	0.010	0.03
ALBANY, HUDSON RIVER	8518995	42.650000	-73.746700	0.008	0.02
BERGEN POINT WEST REACH, KILL VAN KULL	8519483	40.636700	-74.141700	0.000	0.00
ALPINE, HUDSON RIVER	8530095	40.945000	-73.918300	0.014	0.04
NEW MILFORD, HACKENSACK RIVER	8530186	40.935000	-74.030000	0.021	0.07
HACKENSACK, HACKENSACK RIVER	8530278	40.880000	-74.040000	0.019	0.06
EAST RUTHERFORD, PASSAIC RIVER	8530403	40.846700	-74.120000	0.019	0.06
BERRYS CREEK, NO. 7	8530502	40.816700	-74.086700	0.013	0.04
CARLSTADT, HACKENSACK RIVER	8530528	40.806700	-74.060000	0.017	0.06
BERRYS CREEK, FISH CREEK	8530586	40.793300	-74.091700	0.013	0.04
BELLEVILLE, PASSAIC RIVER	8530591	40.786700	-74.146700	0.017	0.06
AMTRACK RR SWINGBRIDGE, HACKENSACK RIVER	8530696	40.751700	-74.096700	0.012	0.04
POINT NO POINT, PASSAIC RIVER	8530743	40.731700	-74.116700	0.012	0.04
KEARNY POINT, HACKENSACK RIVER	8530772	40.728300	-74.103300	0.014	0.05
PORT ELIZABETH, NEWARK BAY	8530882	40.673300	-74.140000	0.008	0.02
RAHWAY RIVER #1	8531077	40.598300	-74.231700	0.013	0.04
PORT READING, ARTHUR KILL	8531142	40.555000	-74.245000	0.014	0.05
WOODBIDGE CREEK #1	8531156	40.545000	-74.265000	0.013	0.04
CHEESEQUAKE CREEK	8531223	40.453300	-74.273300	0.012	0.04
KEASBEY, RARITAN RIVER	8531262	40.508300	-74.311700	0.013	0.04
NORTH OLD BRIDGE, SOUTH RIVER	8531369	40.416700	-74.363300	0.014	0.05
SAYREVILLE, RARITAN RIVER	8531390	40.478300	-74.356700	0.013	0.04
NEW BRUNSWICK RARITAN RIVER	8531463	40.488300	-74.435000	0.014	0.05
MATAWAN CREEK RARITAN BAY	8531526	40.433300	-74.218300	0.016	0.05
KEYPORT, RARITAN BAY	8531545	40.440000	-74.198300	0.012	0.04
SANDY HOOK	8531680	40.466900	-74.009400	0.000	0.00
OCEANIC, NAVESINK RIVER	8531753	40.376700	-74.015000	0.014	0.04
RED BANK, NAVESINK RIVER	8531833	40.355000	-74.065000	0.014	0.05
LONG BRANCH, INSIDE	8531942	40.325000	-73.996700	0.016	0.05
LONG BRANCH, FISHING PIER	8531991	40.303300	-73.976700	0.006	0.02

Station Name	STATION ID	Latitude	Longitude	Error in Meters	Error in Feet
POINT PLEASANT BEACH, MANASQUAN RIVER	8532585	40.105000	-74.055000	0.014	0.04
MANASQUAN INLET	8532591	40.101700	-74.035000	0.009	0.03
BEAVER DAM CREEK	8532715	40.061700	-74.061700	0.023	0.08
BARNEGAT INLET (INSIDE)	8533615	39.761700	-74.111700	0.005	0.02
WEST CREEK, WESTECUNK CREEK	8533987	39.631700	-74.296700	0.019	0.06
WADING RIVER	8534043	39.618300	-74.496700	0.022	0.07
LONG POINT, LITTLE EGG HARBOR	8534044	39.613300	-74.263300	0.019	0.06
BEACH HAVEN CREST (INSIDE)	8534048	39.613300	-74.210000	0.025	0.08
PARKER RUN, LITTLE EGG HARBOR	8534049	39.616700	-74.310000	0.019	0.06
TUCKERTON, TUCKERTONCREEK	8534080	39.601700	-74.341700	0.019	0.06
NEW GREटना, BASS RIVER	8534104	39.591700	-74.441700	0.017	0.06
BEACH HAVEN CG STATION	8534208	39.548300	-74.256700	0.018	0.06
CRAMERS BOATYARD, MULLICA RIVER	8534212	39.548300	-74.461700	0.017	0.06
GRAVELING POINT	8534244	39.540000	-74.386700	0.016	0.05
NANCOTE CREEK	8534256	39.535000	-74.463300	0.017	0.05
LITTLE SHEEPSHEAD CREEK	8534287	39.521700	-74.320000	0.016	0.05
Great Bay, Shooting Thorofare	8534319	39.508300	-74.325000	0.016	0.05
MAIN MARSH THOROFARE	8534393	39.478300	-74.383300	0.016	0.05
MAYS LANDING, GREAT EGG HARBOR RIVER	8534468	39.448300	-74.728300	0.015	0.05
BRIGANTINE CHANNEL	8534496	39.435000	-74.363300	0.018	0.06
ABSECON, ABSECON CREEK	8534540	39.423300	-74.500000	0.015	0.05
PLEASANTVILLE, LAKES BAY	8534657	39.381700	-74.518300	0.017	0.06
GREAT EGG HARBOR RIVER	8534691	39.368300	-74.716700	0.019	0.06
ATLANTIC CITY, ATLANTIC OCEAN	8534720	39.355000	-74.418300	0.000	0.00
DOCK THOROFARE	8534739	39.351700	-74.540000	0.014	0.05
VENTNOR CITY, FISHING PIER	8534770	39.335000	-74.476700	0.007	0.02
STEELMANVILLE, PATCONG RIVER	8534778	39.335000	-74.596700	0.015	0.05
LONGPORT, RISELY CHANNEL	8534836	39.308300	-74.533300	0.014	0.05
TUCKAHOE, TUCKAHOE RIVER	8534883	39.295000	-74.748300	0.018	0.06
CEDAR SWAMP, TUCKAHOE RIVER	8535001	39.246700	-74.718300	0.020	0.07
CORSON INLET	8535101	39.215000	-74.648300	0.014	0.05
STRATHMERE, STRATHMERE BAY	8535163	39.200000	-74.656700	0.014	0.05
LUDLAM BAY	8535221	39.176700	-74.710000	0.018	0.06
TOWNSEND SOUND	8535309	39.146700	-74.750000	0.020	0.06
WILDWOOD CREST	8535835	38.975000	-74.823300	0.013	0.04
CAPE MAY, CAPE MAY CANAL, DELAWARE BAY	8536110	38.968333	-74.960000	0.000	0.00
BIDWELL CREEK ENTRANCE, DELAWARE BAY	8536581	39.128300	-74.891700	0.015	0.05
FORTESCUE CREEK	8536931	39.238300	-75.175000	0.021	0.07
SHIP JOHN SHOAL, DELAWARE RIVER	8537121	39.305000	-75.375000	0.008	0.02
AUBURN, OLDMANS CREEK	8538274	39.715000	-75.360000	0.023	0.08
MANTUA	8538438	39.795000	-75.176700	0.017	0.06
BRIDGEPORT, RACOON CREEK	8538449	39.806700	-75.355000	0.014	0.05
PAULSBORO, MANTUA CREEK	8538512	39.835000	-75.238300	0.013	0.04
PALMYRA, PENNSAUKEN CREEK	8538853	39.993300	-75.028300	0.014	0.04
POMPESTON CREEK, DELAWARE RIVER	8538875	40.013300	-75.008300	0.016	0.05
TACONY-PALMYRA BRIDGE	8538886	40.011940	-75.043000	0.006	0.02
ASSISCUNK CREEK, DELAWARE RIVER	8539058	40.073300	-74.848300	0.020	0.06
BURLINGTON, DELAWARE RIVER	8539094	40.081700	-74.869700	0.006	0.02
FIELDSBORO, DELAWARE RIVER	8539487	40.136700	-74.736700	0.016	0.05
TRENTON MARINE TERMINAL	8539993	40.188300	-74.755000	0.008	0.02
MARCUS HOOK	8540433	39.811700	-75.410000	0.005	0.02
Wanamaker Bridge, Darby Creek	8542425	39.876700	-75.305000	0.013	0.04
NORWOOD, DARBY CREEK	8542699	39.880000	-75.290000	0.014	0.05

Station Name	STATION ID	Latitude	Longitude	Error in Meters	Error in Feet
TINICUM 3, DARBY CREEK	8543024	39.886700	-75.265000	0.019	0.06
PHILADELPHIA (USCG STA.), DELAWARE RIVER	8545240	39.933333	-75.141667	0.001	0.00
PHILADELPHIA (PIER 11 NORTH), DEL. RIVER	8545530	39.953300	-75.138300	0.005	0.02
NEWBOLD, DELAWARE RIVER	8548989	40.136700	-74.751700	0.005	0.02
DELAWARE CITY, DELAWARE RIVER	8551762	39.581700	-75.588300	0.005	0.01
REEDY POINT, C&D CANAL	8551910	39.558306	-75.573306	0.000	0.00
MAHON RIVER ENTRANCE, DELAWARE BAY	8554399	39.185000	-75.400000	0.017	0.06
BRANDYWINE SHOAL LIGHT, DELAWARE BAY	8555889	38.986670	-75.113333	0.005	0.02
LEWES, FT. MILES	8557380	38.781694	-75.120000	0.000	0.00
INDIAN RIVER INLET	8558690	38.610000	-75.070000	0.006	0.02
KEYDASH, ISLE OF WIGHT BAY	8570255	38.341700	-75.085000	0.019	0.06
OCEAN CITY, FISHING PIER	8570280	38.326700	-75.083300	0.005	0.02
OCEAN CITY, ISLE OF WIGHT	8570282	38.331700	-75.090000	0.016	0.05
OCEAN CITY INLET	8570283	38.328330	-75.091667	0.006	0.02
SOUTH POINT, SINEPUXENT NECK, CHINC. BAY	8570536	38.215000	-75.191700	0.034	0.11
PUBLIC LANDING, CHINCOTEAGUE BAY	8570649	38.148300	-75.285000	0.035	0.11
CRISFIELD	8571091	37.976700	-75.863300	0.019	0.06
EWELL, SMITH ISLAND	8571117	37.995000	-76.031700	0.016	0.05
SNOW HILL, POCOMOKE RIVER	8571359	38.178330	-75.396667	0.007	0.02
BISHOPS HEAD, HOOPERS STRAIT	8571421	38.220000	-76.038300	0.006	0.02
MCCREADYS CREEK, FISHING BAY	8571559	38.300000	-76.005000	0.010	0.03
BARREN ISLAND, CHESAPEAKE BAY	8571579	38.341700	-76.265000	0.012	0.04
SALISBURY, WICOMICO RIVER	8571616	38.365000	-75.606700	0.029	0.09
SMITHVILLE ROAD BRIDGE, BEAVERDAM CREEK	8571702	38.428330	-76.236667	0.008	0.03
VIENNA, NANICOKE RIVER	8571773	38.483330	-75.818333	0.008	0.03
CAMBRIDGE, CHOPTANK RIVER	8571892	38.573300	-76.068300	0.000	0.00
POPLAR ISLAND	8572271	38.758333	-76.375000	0.008	0.03
KENT POINT, CHESAPEAKE BAY	8572467	38.836700	-76.373300	0.007	0.02
HILLSBORO, TUCKAHOE CREEK	8572669	38.916700	-75.945000	0.022	0.07
MATAPEAKE	8572770	38.956700	-76.355000	0.007	0.02
LOVE POINT PIER, KENT ISLAND	8572955	39.031700	-76.301700	0.007	0.02
CRUMPTON, CHESTER RIVER	8573349	39.245000	-75.925000	0.011	0.03
TOLCHESTER BEACH, CHESAPEAKE BAY	8573364	39.213330	-76.245000	0.001	0.00
BETTERTON, SASSAFRAS RIVER	8573704	39.371700	-76.063300	0.016	0.05
TOWN POINT WHARF	8573903	39.503300	-75.916700	0.008	0.03
CHESAPEAKE CITY	8573927	39.526700	-75.810000	0.005	0.02
HAVRE DE GRACE, CHESAPEAKE BAY	8574070	39.536700	-76.090000	0.003	0.01
POND POINT (ABERDEEN P.G.), BUSH RIVER	8574459	39.388300	-76.255000	0.019	0.06
BALTIMORE, FORT MCHENRY, PATAPSCO RIVER	8574680	39.266670	-76.578333	0.000	0.00
FORT MCHENRY MARSH, PATAPSCO RIVER	8574683	39.261700	-76.585000	0.010	0.03
HAWKINS POINT, PATAPSCO RIVER	8574821	39.208300	-76.533300	0.013	0.04
STONY CREEK	8574931	39.163300	-76.526700	0.014	0.04
CORNFIELD CREEK, MAGOTHY RIVER	8575109	39.100000	-76.445000	0.018	0.06
U.S. NAVAL ACADEMY, SEVERN R., CHES. BAY	8575512	38.983280	-76.481556	0.000	0.00
LONG BEACH, CHESAPEAKE BAY	8577004	38.465000	-76.473300	0.008	0.03
COVE POINT	8577188	38.391700	-76.398300	0.025	0.08
SOLOMONS ISLAND, PATUXENT RIVER	8577330	38.316670	-76.451667	0.000	0.00
LOWER MARLBORO, PATUXENT RIVER	8579542	38.655000	-76.683333	0.008	0.03
BLADENSBURG, ANACOSTIA RIVER	8579997	38.933300	-76.938300	0.012	0.04
WASHINGTON NAVY YARD, D.C.	8593005	38.871700	-76.995000	0.011	0.04
EAST LAKE, ANACOSTIA RIVER	8593909	38.910000	-76.955000	0.013	0.04
WASHINGTON, POTOMAC RIVER	8594900	38.873330	-77.021667	0.000	0.00
JESTERS ISLAND, CHINCOTEAGUE BAY	8630111	37.981700	-75.301700	0.031	0.10

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CHINCOTEAGUE, USCG STATION	8630249	37.931700	-75.383300	0.018	0.06
CHINCOTEAGUE CHANNEL, SOUTH END	8630308	37.906700	-75.405000	0.023	0.08
HARBOR OF REFUGE, CHINCOTEAGUE	8630316	37.903300	-75.406700	0.025	0.08
WACHAPREAGUE, WACHAPREAGUE CHANNEL	8631044	37.607778	-75.685833	0.001	0.00
SAND SHOAL INLET, COBB ISLAND	8631542	37.301700	-75.778300	0.010	0.03
OYSTER HARBOR	8631591	37.288300	-75.925000	0.018	0.06
FISHERMANS ISLAND	8632085	37.096700	-75.983300	0.014	0.05
KIPTOPEKE, CHESAPEAKE BAY	8632200	37.165190	-75.988444	0.000	0.00
RAPPAHANNOCK LIGHT	8632837	37.538300	-76.015000	0.018	0.06
GASKINS PT., OCCOHANNOCK CREEK	8632869	37.556700	-75.916700	0.019	0.06
HARBORTON, PUNGOTEAGUE CREEK	8633091	37.666700	-75.833300	0.017	0.06
SCHOONER BAY	8633362	37.763300	-75.773300	0.029	0.09
TANGIER ISLAND, CHESAPEAKE BAY	8633532	37.828300	-75.993300	0.022	0.07
SAXIS, STARLING CREEK	8633777	37.921700	-75.728300	0.023	0.07
COLONIAL BEACH, POTOMAC RIVER	8635150	38.251700	-76.960000	0.000	0.00
RAPPAHANNOCK BEND	8635257	38.213300	-77.243300	0.024	0.08
LEWISSETTA, POTOMAC RIVER	8635750	37.996111	-76.464444	0.000	0.00
WARES WHARF, RAPPAHANNOCK RIVER	8635985	37.873300	-76.783300	0.019	0.06
WINDMILL POINT, RAPPAHANNOCK RIVER	8636580	37.616200	-76.290000	0.007	0.02
LESTER MANOR	8636653	37.583300	-76.990000	0.032	0.10
RICHMOND DEEPWATER TERMINAL, JAMES RIVER	8636941	37.459556	-77.420778	0.032	0.11
GLOUCESTER POINT, YORK RIVER	8637624	37.246700	-76.500000	0.000	0.00
YORKTOWN USCG TRAINING CENTER, YORK R.	8637689	37.226667	-76.478333	0.006	0.02
JAMESTOWN WHARF	8637712	37.220111	-76.791417	0.026	0.09
Fort Eustis (MARAD), James River	8638017	37.138222	-76.622750	0.020	0.07
WESTERN BRANCH	8638339	36.823222	-76.399111	0.013	0.04
KINGSMILL, JAMES RIVER	8638424	37.220000	-76.663300	0.022	0.07
SCOTLAND, JAMES RIVER	8638433	37.185000	-76.783300	0.026	0.08
LANEXA, CHICAHOMINY RIVER	8638445	37.403300	-76.911700	0.017	0.05
CLAREMONT, JAMES RIVER	8638449	37.231700	-76.948300	0.009	0.03
TETTINGTON, JAMES RIVER	8638450	37.240000	-76.943300	0.009	0.03
WILLCOX WHARF, CHARLES CITY	8638464	37.315000	-77.098300	0.032	0.11
JORDAN POINT, JAMES RIVER	8638476	37.313300	-77.223300	0.025	0.08
CITY POINT, HOPEWELL	8638481	37.313300	-77.270000	0.024	0.08
PUDDLEDOCK, APPOMATTOX RIVER	8638489	37.266700	-77.371700	0.040	0.13
VEPCO PLANT, CHESTER, JAMES RIVER	8638491	37.383300	-77.378300	0.024	0.08
RICHMOND RIVER LOCKS, JAMES RIVER	8638495	37.525000	-77.420000	0.010	0.03
SEWELLS POINT, HAMPTON ROADS	8638610	36.946667	-76.330000	0.000	0.00
PORTSMOUTH, NORFOLK NAVAL SHIPYARD	8638660	36.821700	-76.293300	0.006	0.02
LAFAYETTE RIVER	8638671	36.884222	-76.275858	0.012	0.04
CHESAPEAKE BAY BRIDGE TUNNEL	8638863	36.966667	-76.113333	0.000	0.00
CAPE HENRY	8638999	36.930000	-76.006700	0.015	0.05
INSIDE CHANNEL, RUDEE INLET	8639207	36.831700	-75.973300	0.009	0.03
VIRGINIA BEACH, RUDEE INLET	8639208	36.831700	-75.968300	0.023	0.07
RUDEE HEIGHTS, LAKE WESLEY	8639214	36.825000	-75.975000	0.018	0.06
SOUTH END, LAKE RUDEE	8639219	36.825000	-75.981700	0.018	0.06
MONEY POINT, S. BR. ELIZABETH RIVER	8639348	36.778300	-76.301700	0.003	0.01
DEEP CREEK ENTRANCE	8639414	36.755000	-76.293300	0.013	0.04
SANDBRIDGE	8639428	36.691700	-75.920000	0.019	0.06
DUCK, FRF PIER	8651370	36.183306	-75.746694	0.000	0.00
Frog Island	8651538	36.138583	-76.105611	0.028	0.09
Edenhouse Point	8651817	36.055028	-76.684250	0.036	0.12
MANTEO, SHALLOWBAG BAY	8652232	35.910000	-75.670000	0.023	0.08

Station Name	STATION ID	Latitude	Longitude	Error in Meters	Error in Feet
MANNS HARBOR, CROATAN SOUND	8652247	35.903300	-75.770000	0.021	0.07
OYSTER CREEK, CROATAN SOUND	8652437	35.845000	-75.655000	0.019	0.06
ROANOKE MARSHES LIGHT, CROATAN SOUND	8652547	35.811700	-75.700000	0.019	0.06
OREGON INLET MARINA, PAMLICO SOUND	8652587	35.795000	-75.548300	0.001	0.00
OLD HOUSE CHANNEL, PAMLICO SOUND	8652648	35.776700	-75.585000	0.013	0.04
USCG LIFEBOAT STATION, OREGON INLET	8652678	35.768300	-75.526700	0.023	0.07
LAKE WORTH, STUMPY POINT BAY	8652905	35.698300	-75.773300	0.020	0.06
RODANTHE, PAMLICO SOUND	8653215	35.595000	-75.471700	0.020	0.07
WASHINGTON, TAR RIVER, PAMLICO RIVER	8653365	35.545000	-77.061700	0.035	0.11
PETER'S DITCH	8653951	35.350139	-75.512028	0.026	0.08
CAPE HATTERAS FISHING PIER	8654400	35.223300	-75.635000	0.000	0.00
USCG STATION HATTERAS, PAMLICO SOUND	8654467	35.208639	-75.704167	0.017	0.06
Ocracoke Island	8654572	35.171333	-75.817444	0.024	0.08
OCRACOKE ISLAND	8654792	35.115000	-75.988300	0.026	0.08
River Dunes	8654875	35.085278	-76.600444	0.032	0.11
Portsmouth	8655353	34.979389	-76.163083	0.029	0.10
SEA LEVEL, CORE SOUND	8655875	34.875000	-76.343300	0.032	0.11
CORE CREEK BRIDGE	8656084	34.825000	-76.690000	0.015	0.05
Core Sound	8656201	34.796750	-76.455472	0.022	0.07
MOREHEAD-BEAUFORT Y.C., NEWPORT RIVER	8656306	34.768300	-76.671700	0.012	0.04
NEW RIVER, JACKSONVILLE	8656394	34.745000	-77.436700	0.032	0.11
SPOONERS CREEK	8656467	34.725000	-76.803300	0.018	0.06
BEAUFORT, DUKE MARINE LAB	8656483	34.720000	-76.670000	0.000	0.00
MOREHEAD CITY HARBOR, HARBOR CHANNEL	8656502	34.720000	-76.710833	0.010	0.03
BEAUFORT, TAYLOR CREEK	8656518	34.711700	-76.645000	0.011	0.04
LENOXVILLE POINT, NORTH RIVER CHANNEL	8656539	34.708300	-76.620000	0.015	0.05
ATLANTIC BEACH TRIPLE S PIER	8656590	34.693300	-76.711700	0.012	0.04
CALICO JACKS MARINA, HARKER'S ISLAND	8656612	34.686700	-76.533300	0.018	0.06
CAPE LOOKOUT, LOOKOUT BIGHT	8656841	34.613300	-76.538300	0.018	0.06
CAPE LOOKOUT, ATLANTIC OCEAN	8656937	34.608300	-76.528300	0.013	0.04
OCEAN CITY, FISHING PIER	8657419	34.451700	-77.495000	0.019	0.06
WILMINGTON, CAPE FEAR RIVER	8658120	34.226700	-77.953300	0.000	0.00
WRIGHTSVILLE BEACH	8658163	34.213300	-77.786700	0.007	0.02
ORTON POINT, CAPE FEAR RIVER	8658501	34.056700	-77.940000	0.016	0.05
WILMINGTON BEACH	8658559	34.031700	-77.893300	0.017	0.05
SUNNY POINT, MOTSU NORTH WHARF	8658579	34.023300	-77.946700	0.017	0.06
REAVES POINT, MOTSU CENTER	8658622	34.003300	-77.955000	0.018	0.06
MOTSU SOUTH WHARF #1, CAPE FEAR RIVER	8658654	33.990000	-77.956700	0.018	0.06
FEDERAL POINT, CAPE FEAR RIVER	8658715	33.961700	-77.940000	0.020	0.06
ZEKES ISLAND, CAPE FEAR RIVER	8658741	33.950000	-77.951700	0.019	0.06
BALD HEAD ISLAND, CAPE FEAR RIVER	8658901	33.880000	-78.001700	0.022	0.07
SOUTHPORT	8659084	33.915000	-78.018300	0.005	0.02
OAK ISLAND, ATLANTIC OCEAN	8659182	33.901700	-78.081700	0.014	0.05
SUNSET BEACH PIER, ATLANTIC OCEAN	8659897	33.865000	-78.506700	0.008	0.03
SUNSET BEACH BRIDGE	8659898	33.881700	-78.510000	0.024	0.08
LITTLE RIVER NECK	8660098	33.870000	-78.573300	0.017	0.06
DUNN SOUND, NORTH, LITTLE RIVER	8660147	33.860000	-78.580000	0.017	0.05
NIXON CROSSROADS, LITTLE RIVER	8660166	33.855000	-78.648300	0.018	0.06
CHERRY GROVE, INSIDE	8660265	33.835000	-78.633300	0.017	0.05
NORTH MYRTLE BEACH	8660642	33.766700	-78.815000	0.019	0.06
COMBINATION BRIDGE	8660854	33.713300	-78.921700	0.013	0.04
SOCASSEE BRIDGE	8660983	33.686700	-79.005000	0.013	0.04
MYRTLE BEACH	8661000	33.683300	-78.885000	0.009	0.03

Station Name	STATION ID	Latitude	Longitude	Error in Meters	Error in Feet
SPRINGMAID PIER, ATLANTIC OCEAN	8661070	33.655000	-78.918300	0.000	0.00
YAUHANNAH BRIDGE, PEE DEE RIVER	8661093	33.660000	-79.155000	0.030	0.10
BUCKSPORT, WACCAMAW RIVER	8661139	33.646700	-79.095000	0.002	0.01
LOWER TOPSAW LANDING, PEE DEE RIVER	8661299	33.608300	-79.151700	0.014	0.05
GARDEN CITY BRIDGE, MURRELLS INLET	8661419	33.578300	-79.003300	0.017	0.06
GARDEN CITY PIER, MURRELLS INLET	8661437	33.575000	-78.996700	0.015	0.05
CAPT. ALEX'S MARINA, MURRELLS	8661529	33.551700	-79.036700	0.021	0.07
SMITH'S DOCK, MURRELLS INLET	8661559	33.545000	-79.045000	0.017	0.05
DIVINE'S DOCK, MURRELLS INLET	8661582	33.541700	-79.028300	0.016	0.05
WINEA PLANTATION, BLACK RIVER	8661593	33.535000	-79.388300	0.017	0.06
OAKS CR. INLET, MURRELLS INLET	8661609	33.530000	-79.043300	0.019	0.06
OAKS CREEK, UPPER END, MURRELLS INLET	8661684	33.511700	-79.068300	0.020	0.06
SANDY ISLAND, THOROUGHFARE CREEK	8661703	33.506700	-79.145000	0.014	0.05
BENNETT'S DOCK	8661989	33.435000	-79.126700	0.014	0.04
HAGLEY, WACCAMAW RIVER	8661991	33.435000	-79.181700	0.018	0.06
PAWLEYS ISLAND PIER, ATLANTIC OCEAN	8662006	33.431700	-79.116700	0.015	0.05
PAWLEYS INLET, WARDS DOCK	8662071	33.411700	-79.135000	0.022	0.07
CUMBERLAND, SAMPIT RIVER	8662216	33.370000	-79.433300	0.016	0.05
OYSTER LANDING, CRAB HAUL CREEK	8662245	33.351700	-79.186700	0.007	0.02
CLAMBANK CREEK DOCK, GOAT ISLAND	8662299	33.333300	-79.193300	0.015	0.05
JAMESTOWN BRIDGE, SANTEE RIVER	8662405	33.305000	-79.678300	0.029	0.10
SOUTH ISLAND FERRY, WINYAH BAY	8662549	33.251700	-79.268300	0.016	0.05
PLEASANT HILL LANDING, SANTEE RIVER	8662670	33.245000	-79.521700	0.022	0.07
WINYAH BAY, SOUTH ISLAND PLANTATION	8662746	33.235000	-79.203300	0.001	0.00
MINIM CREEK	8662796	33.195000	-79.275000	0.013	0.04
US HIGHWAY 17, SOUTH SANTEE RIVER	8662799	33.185000	-79.406700	0.004	0.01
WACCAMAW RIVER ENTRANCE	8662931	33.366700	-79.255000	0.012	0.04
WINDSOR PLANTATION, BLACK RIVER	8662953	33.415000	-79.250000	0.018	0.06
CASINO CREEK	8663461	33.108300	-79.393300	0.021	0.07
QUINBY BRIDGE, QUINBY CREEK	8663535	33.095000	-79.808300	0.019	0.06
PIMLICO, WEST BRANCH COOPER RIVER	8663539	33.095000	-79.953300	0.019	0.06
MC CLELLANVILLE, JEREMY CREEK	8663618	33.078300	-79.460000	0.019	0.06
RICHMOND PLANTATION, E. BR. COOPER RIVER	8663665	33.076700	-79.855000	0.015	0.05
FRENCH QUARTER CREEK	8663781	33.055000	-79.880000	0.019	0.06
GEN. DYNAMICS PIER, COOPER R.	8664022	33.008300	-79.923300	0.001	0.00
SNOW POINT, 0.4 MILE N OF, COOPER RIVER	8664515	32.948300	-79.931700	0.012	0.04
BACON BRIDGE, ASHLEY RIVER	8664531	32.958300	-80.203300	0.029	0.09
YEAMANS HALL, GOOSE CREEK	8664541	32.925000	-79.986700	0.012	0.04
CAINHOY, WANDO RIVER	8664545	32.926700	-79.830000	0.010	0.03
CAINHOY, WANDO RIVER	8664561	32.923300	-79.836700	0.016	0.05
HANAHAN, TURKEY CREEK	8664589	32.918300	-80.011700	0.019	0.06
BIG PARADISE ISLAND, WANDO RIVER	8664611	32.915000	-79.746700	0.014	0.04
GOOSE CREEK ENTRANCE, COOPER RIVER	8664662	32.910000	-79.951700	0.009	0.03
CLOUTER CREEK, NORTH	8664688	32.906700	-79.935000	0.013	0.04
NOWELL CREEK	8664701	32.900000	-79.900000	0.012	0.04
HORLBECK CREEK, WANDO RIVER	8664782	32.885000	-79.845000	0.015	0.05
PRICE CREEK, NORTH CAPERS ISLAND	8664801	32.881700	-79.658300	0.013	0.04
OLD CAPERS LANDING, CAPERS ISLAND	8664878	32.870000	-79.686700	0.014	0.05
SOUTH CAPERS ISLAND, CAPERS CREEK	8664941	32.856700	-79.706700	0.009	0.03
CLOUTER CREEK, SOUTH	8664945	32.860000	-79.938300	0.012	0.04
NORTH DEWEE'S ISLAND	8664992	32.850000	-79.703300	0.013	0.04
DRAYTON, BEES FERRY, ASHLEY RIVER	8665002	32.848300	-80.051700	0.012	0.04
I-526 BRIDGE, ASHLEY RIVER	8665099	32.836700	-80.021700	0.013	0.04

Station Name	STATION ID	Latitude	Longitude	Error in Meters	Error in Feet
COSGROVE BRIDGE, ASHLEY RIVER	8665101	32.835000	-79.986700	0.011	0.04
SOUTH DEWEES ISLAND, DEWEES INLET	8665111	32.833300	-79.726700	0.012	0.04
HAMLIN SOUND	8665167	32.826700	-79.786700	0.011	0.04
WANDO RIVER ENTRANCE, HOBCAW POINT	8665192	32.821700	-79.900000	0.011	0.03
EDISTO RIVER, SOUTH OF CANADAY LANDING	8665257	32.813300	-80.406700	0.037	0.12
HAMLIN CREEK, ISLE OF PALMS	8665387	32.786700	-79.791700	0.009	0.03
HIGHWAY 171 BRIDGE, FOLLY CREEK	8665424	32.675000	-79.951700	0.011	0.04
LIMEHOUSE BRIDGE, STONO RIVER	8665475	32.786700	-80.105000	0.015	0.05
ISLE OF PALMS PIER	8665494	32.783300	-79.785000	0.012	0.04
SOUTH ASHLEY BRIDGE, ASHLEY RIVER	8665495	32.783300	-79.956700	0.010	0.03
CHARLESTON, COOPER RIVER ENTRANCE	8665530	32.781700	-79.925000	0.000	0.00
BREACH INLET	8665552	32.776700	-79.811700	0.011	0.04
BEN SAWYER BRIDGE, IWW	8665567	32.773300	-79.841700	0.013	0.04
SANDBLASTERS, PENNY'S CREEK	8665589	32.770000	-80.063300	0.016	0.05
PENNEYS CREEK W ENTRANCE, STONO RIVER	8665599	32.768300	-80.070000	0.017	0.06
THE COVE, FT MOULTRIE, CHARLESTON HARBOR	8665637	32.763300	-79.856700	0.011	0.04
ELLIOTT CUT ENTRANCE, STONO RIVER	8665641	32.763300	-80.001700	0.011	0.04
JACKSONBORO CAMP, SOUTH EDISTO RIVER	8665737	32.753300	-80.450000	0.016	0.05
CHURCH FLATS, STONO RIVER	8665763	32.746700	-80.165000	0.014	0.04
ASHEPOO RIVER AT 17	8665814	32.743300	-80.556700	0.025	0.08
EDISTO RIVER, SOUTH OF PENNY CREEK	8666017	32.715000	-80.436700	0.019	0.06
JOHNS ISLAND, CHURCH CREEK	8666101	32.706700	-80.156700	0.014	0.05
LOWER TOOGODOO CREEK	8666131	32.703300	-80.278300	0.020	0.07
HOPE CREEK	8666167	32.700000	-80.426700	0.018	0.06
YONGES ISLAND, WADMALAW RIVER	8666217	32.695000	-80.223300	0.014	0.05
BLUFF PLANTATION, COMBAHEE RIVER	8666359	32.683300	-80.738300	0.009	0.03
WILLTOWN BLUFF	8666367	32.681700	-80.416700	0.015	0.05
TOOGODOO CREEK	8666433	32.668300	-80.293300	0.014	0.05
FOLLY RIVER, NORTH	8666467	32.670000	-79.916700	0.011	0.04
SOUTH EDISTO RIVER AT DAWHOO RIVER	8666616	32.656700	-80.391700	0.019	0.06
FOLLY RIVER BRIDGE, FOLLY RIVER	8666652	32.661700	-79.945000	0.011	0.04
COMBAHEE RIVER AT US HWY. 17	8666659	32.651700	-80.683300	0.016	0.05
BLUFF POINT, WADMALAW RIVER	8666699	32.646700	-80.256700	0.014	0.04
AIRY HALL, ASHEPOO RIVER	8666749	32.631700	-80.471700	0.017	0.06
SNAKE ISLAND, STONO RIVER	8666767	32.640000	-80.015000	0.014	0.05
LEADENWAH CREEK	8666775	32.636700	-80.201700	0.013	0.04
DAWHOO BRIDGE, DAWHOO RIVER	8666799	32.636700	-80.341700	0.014	0.05
HO-NON-WAH BOYSCOUT CAMP, BOHICKET CR	8666918	32.625000	-80.166700	0.017	0.06
KIAWAH BRIDGE, KIAWAH RIVER	8667062	32.603300	-80.131700	0.012	0.04
WIGGINS, CHEHAW RIVER	8667074	32.601700	-80.541700	0.015	0.05
STEAMBOAT CREEK LANDING	8667075	32.603300	-80.286700	0.014	0.04
SHELDON, HUSPA CREEK	8667172	32.583300	-80.783300	0.019	0.06
POINT OF PINES, N. EDISTO R.	8667178	32.585000	-80.228300	0.013	0.04
WIMBEE CREEK	8667199	32.578300	-80.670000	0.016	0.05
MUSSELBORO ISLAND, MOSQUITO CREEK	8667209	32.578300	-80.448300	0.016	0.05
FENWICK ISLAND, SOUTH EDISTO RIVER	8667309	32.560000	-80.418300	0.021	0.07
LOBECO, WHALE BRANCH, COOSAW RIVER	8667411	32.573300	-80.745000	0.014	0.05
PETERS POINT, ST. PIERRE CREEK	8667425	32.540000	-80.340000	0.014	0.05
EDISTO BEACH, EDISTO ISLAND	8667630	32.501700	-80.296700	0.009	0.03
CLARENDON PLANTATION, WHALE BR.	8667633	32.502500	-80.784100	0.010	0.03
EDISTO MARINA, BIG BAY CREEK	8667676	32.493300	-80.340000	0.017	0.06
CARTER'S DOCK, BIG BAY CREEK	8667679	32.493300	-80.326700	0.014	0.05
SAMS POINT, LUCY POINT CREEK	8667733	32.483300	-80.600000	0.014	0.04

Station Name	STATION ID	Latitude	Longitude	Error in Meters	Error in Feet
OTTER ISLAND, ST. HELENA SOUND	8667783	32.476700	-80.420000	0.015	0.05
EDDINGS POINT CREEK	8667972	32.446700	-80.533300	0.014	0.05
JENKINS CREEK	8667982	32.440000	-80.553300	0.018	0.06
BEAUFORT	8667999	32.430000	-80.675000	0.007	0.02
BATTERY CREEK	8668092	32.413300	-80.700000	0.013	0.04
HARBOR RIVER BRIDGE, ST. HELENA SOUND	8668146	32.403300	-80.453300	0.014	0.05
DISTANT ISLAND CREEK, UPPER END	8668155	32.401700	-80.653300	0.013	0.04
BROAD RIVER BRIDGE	8668223	32.386700	-80.776700	0.013	0.04
JOHNSON'S CREEK, HARBOR ISLAND	8668227	32.391700	-80.438300	0.014	0.05
BAILEYS LANDING, OKATEE RIVER	8668482	32.346700	-80.890000	0.014	0.05
HUNTING ISLAND PIER, FRIPPS INLET	8668498	32.340000	-80.465000	0.009	0.03
STATION CREEK	8668601	32.325000	-80.601700	0.014	0.05
PURRYSBURG LANDING, SAVANNAH RIVER	8668701	32.303300	-81.121700	0.023	0.07
RIBAUT ISLAND, SKULL CREEK	8668918	32.266700	-80.736700	0.016	0.05
NEW RIVER, ROUTE 170 BRIDGE	8669072	32.236700	-81.011700	0.017	0.06
SKULL CREEK SOUTH	8669133	32.223300	-80.771700	0.017	0.06
PORT ROYAL PLTN., HILTON HEAD	8669167	32.220000	-80.668300	0.020	0.07
BROAD CREEK	8669338	32.185000	-80.753300	0.018	0.06
U.S. HIGHWAY 17, LITTLE BACK RIVER	8669415	32.165000	-81.130000	0.013	0.04
PINE ISLAND, RAMSHORN CREEK	8669601	32.121700	-80.898300	0.014	0.05
DAUFUSKIE LANDING, NEW RIVER	8669691	32.103300	-80.895000	0.011	0.04
BLOODY POINT, NEW RIVER	8669801	32.081700	-80.878300	0.013	0.04
PORT WENTWORTH	8670424	32.143300	-81.141700	0.018	0.06
FORT PULASKI, SAVANNAH RIVER	8670870	32.033300	-80.901700	0.000	0.00
RANGE A LIGHT, ICWW, BEAR R.	8672667	31.793300	-81.181700	0.018	0.06
SUNBURY, SUNBURY CH.,MEDWAY R.	8672875	31.766700	-81.278300	0.019	0.06
S.OSSABAW IS,BEAR R.,ST.CATH.S.	8673171	31.723028	-81.141700	0.017	0.06
HALFMOON, COLONELS ISLAND, TIMMONS RIVER	8673381	31.695000	-81.271700	0.025	0.08
DAYMARK #135, SOUTH NEWPORT R.	8674301	31.575000	-81.190000	0.018	0.06
DAYMARK #156, HEAD OF MUD RIVER	8674975	31.486700	-81.320000	0.021	0.07
OLD TOWER, SAPELO ISLAND, DOBOY SOUND	8675622	31.390000	-81.288300	0.017	0.06
DAYMARK #185, ROCKDEDUNDY R ENT	8675761	31.373861	-81.333944	0.021	0.07
MACKAY RIVER, ICWW, BUTTERMILK SOUND	8676329	31.285000	-81.385000	0.023	0.08
ST SIMONS LIGHTHOUSE, ST SIMONS ISLAND	8677344	31.131700	-81.396700	0.005	0.02
HOWE STREET PIER, EAST RIVER, BRUNSWICK	8677406	31.144556	-81.496806	0.020	0.06
JEKYLL ISLAND MARINA, JEKYLL CREEK	8677832	31.056700	-81.423300	0.024	0.08
RACCOON KEY SPIT	8678124	31.014806	-81.455972	0.017	0.06
BAILEY CUT, SATILLA RIVER	8678322	30.985000	-81.591700	0.016	0.05
KINGS BAY	8679511	30.796700	-81.515000	0.012	0.04
DUNGENESS, SEACAMP DOCK	8679758	30.763300	-81.471700	0.011	0.04
BEACH CREEK	8679945	30.726700	-81.476700	0.012	0.04
ST. MARYS, ST. MARYS RIVER	8679964	30.720000	-81.548300	0.009	0.03
ST. MARYS RIVER HEADWATERS	8720001	30.786700	-81.840000	0.023	0.08
CRANDALL, ST. MARYS RIVER	8720004	30.721700	-81.621700	0.015	0.05
LITTLE ST. MARYS RIVER	8720006	30.731700	-81.726700	0.023	0.08
ROSES BLUFF	8720007	30.703300	-81.576700	0.014	0.05
CUT 1N FRONT RANGE, ST MARYS RIVER ENTR	8720011	30.708300	-81.465000	0.011	0.04
CHESTER, BELLS RIVER	8720023	30.683300	-81.533300	0.013	0.04
FERNANDINA BEACH, AMELIA RIVER	8720030	30.671700	-81.465000	0.000	0.00
LANCEFORD CREEK, LOFTON	8720051	30.643300	-81.523300	0.011	0.04
KINGSLEY CREEK, SEABOARD R.R.	8720058	30.631700	-81.476700	0.012	0.04
MELTON NELSON MEM PK, VAUGHNS LDG	8720059	30.630000	-81.576700	0.011	0.04
BOGGY CREEK, UPPER NASSAU RIVER	8720084	30.588300	-81.663300	0.021	0.07

Station Name	STATION ID	Latitude	Longitude	Error in Meters	Error in Feet
AMELIA CITY, SOUTH AMELIA RIVER	8720086	30.586700	-81.463300	0.012	0.04
HALFMOON ISLAND	8720093	30.576700	-81.608300	0.021	0.07
CUNO, LOFTON CREEK	8720097	30.576700	-81.571700	0.023	0.08
NASSAUVILLE, NASSAU RIVER EAST	8720098	30.568300	-81.515000	0.013	0.04
MINK CREEK ENT., NASSAU RIVER	8720119	30.536700	-81.581700	0.020	0.06
NASSAU RIVER ENTRANCE	8720135	30.518300	-81.453300	0.019	0.06
SAWPIT CREEK ENTRANCE	8720137	30.513300	-81.456700	0.019	0.06
SAWPIT CREEK	8720143	30.503300	-81.471700	0.019	0.06
EDWARDS CREEK	8720145	30.501700	-81.541700	0.009	0.03
TIGER POINT, PUMPKIN HILLS CREEK	8720148	30.501700	-81.495000	0.019	0.06
SIMPSON CREEK	8720168	30.465000	-81.431700	0.013	0.04
FORT GEORGE ISLAND	8720186	30.440000	-81.438300	0.012	0.04
CEDAR HEIGHTS	8720189	30.436700	-81.641700	0.017	0.06
LITTLE TALBOT ISLAND	8720194	30.430000	-81.405000	0.014	0.05
SISTERS CREEK	8720196	30.416700	-81.453300	0.012	0.04
CLAPBOARD CREEK	8720198	30.406700	-81.510000	0.014	0.04
BLOUNT ISLAND BRIDGE	8720203	30.413300	-81.545000	0.017	0.06
WWTD, MAYPORT NAVAL STA., ST JOHNS RIVER	8720211	30.400000	-81.413300	0.011	0.04
TROUT R., SHERWOOD FOREST	8720213	30.420000	-81.728300	0.019	0.06
DEGAUSSING STRUCTURE, MAYPORT NAVAL STA.	8720214	30.396700	-81.395000	0.011	0.04
JACKSONVILLE, NAVY FUEL DEPOT	8720215	30.400000	-81.626700	0.018	0.06
RIBAULT RIVER, LAKE FOREST	8720216	30.398300	-81.698300	0.021	0.07
MONCRIEF CREEK ENTRANCE	8720217	30.391700	-81.661700	0.022	0.07
BAR PILOTS DOCK, ST JOHNS RIVER	8720218	30.396700	-81.430000	0.005	0.02
DAMES POINT, ST. JOHNS RIVER	8720219	30.386700	-81.558300	0.014	0.05
MAYPORT (FERRY DEPOT), SAINT JOHNS RIVER	8720220	30.393300	-81.431700	0.000	0.00
FULTON, ST. JOHNS RIVER	8720221	30.390000	-81.506700	0.013	0.04
MAYPORT, ST JOHNS RIVER	8720224	30.395000	-81.431700	0.010	0.03
PHOENIX PARK	8720225	30.383300	-81.636700	0.018	0.06
SOUTHBANK RIVERWALK, ST JOHNS RIVER	8720226	30.320000	-81.658300	0.011	0.04
PABLO CREEK ENTRANCE	8720232	30.376700	-81.448300	0.013	0.04
LONGBRANCH (USE-DDP), ST JOHNS RIVER	8720242	30.360000	-81.620000	0.016	0.05
PABLO CREEK	8720267	30.323300	-81.438300	0.014	0.05
LITTLE POTTSBURG CREEK	8720274	30.310000	-81.610000	0.019	0.06
JACKSONVILLE BEACH	8720291	30.283300	-81.386700	0.014	0.05
ORTEGA RIVER ENTRANCE	8720296	30.278300	-81.705000	0.023	0.07
OAK LANDING	8720305	30.253300	-81.430000	0.019	0.06
PINEY POINT, ST. JOHNS RIVER	8720333	30.228300	-81.663300	0.030	0.10
I-295 BRIDGE, WEST END, ST JOHNS RIVER	8720357	30.191700	-81.691700	0.010	0.03
PALM VALLEY, ICWW	8720398	30.133300	-81.386700	0.020	0.07
DOCTORS LAKE, PEORIA POINT	8720406	30.120000	-81.758300	0.025	0.08
JULINGTON CREEK	8720409	30.135000	-81.630000	0.027	0.09
BLACK CREEK	8720434	30.080000	-81.761700	0.026	0.08
GREEN COVE SPRINGS, ST. JOHNS R.	8720496	29.990000	-81.663300	0.021	0.07
RED BAY POINT, ST JOHNS RIVER	8720503	29.978300	-81.628300	0.012	0.04
VILANO BEACH (ICWW)	8720554	29.916700	-81.300000	0.014	0.05
ST. AUGUSTINE	8720576	29.891700	-81.310000	0.009	0.03
STATE ROAD 312, MATANZAS RIVER	8720582	29.866700	-81.306700	0.015	0.05
ST. AUGUSTINE BEACH, ATLANTIC OCEAN	8720587	29.856700	-81.263300	0.006	0.02
EAST TOCOI, ST. JOHNS RIVER	8720596	29.858300	-81.553300	0.028	0.09
ANASTASIA ISLAND	8720623	29.793300	-81.271700	0.021	0.07
RACY POINT, ST JOHNS RIVER	8720625	29.801700	-81.548300	0.023	0.08
CRESCENT BEACH, MATANZAS RIVER	8720651	29.768300	-81.258300	0.016	0.05

Station Name	STATION ID	Latitude	Longitude	Error in Meters	Error in Feet
PALMETTO BLUFF, ST. JOHNS RIVER	8720653	29.763300	-81.561700	0.026	0.09
FORT MATANZAS	8720686	29.715000	-81.238300	0.015	0.05
STATE ROAD A1A BRIDGE	8720692	29.704531	-81.227856	0.022	0.07
BINGS LANDING, MATANZAS RIVER	8720757	29.615000	-81.205000	0.021	0.07
BUFFALO BLUFF, ST. JOHNS RIVER	8720767	29.595000	-81.681700	0.020	0.06
PALATKA, ST. JOHNS RIVER	8720774	29.643300	-81.631700	0.021	0.07
SUTHERLANDS STILL, DUNNS CREEK	8720782	29.571700	-81.606700	0.029	0.09
WELAKA, ST. JOHNS RIVER	8720832	29.476700	-81.675000	0.025	0.08
SMITH CREEK, FLAGLER BEACH	8720833	29.478300	-81.136700	0.036	0.12
CRESCENT CITY, CRESCENT LAKE	8720855	29.430000	-81.506700	0.033	0.11
ORMOND BEACH	8720954	29.285000	-81.053300	0.033	0.11
DAYTONA BEACH SHORES	8721120	29.146700	-80.963300	0.008	0.02
NORTH TURNBULL BAY	8721136	29.083300	-80.966700	0.022	0.07
HALIFAX RIVER, PONCE INLET	8721138	29.081700	-80.936700	0.020	0.06
PONCE DE LEON INLET SOUTH	8721147	29.063300	-80.915000	0.018	0.06
NEW SMYRNA BEACH, MOSQUITO LAGOON	8721164	29.023300	-80.918300	0.025	0.08
EDGEWATER, INDIAN RIVER	8721191	28.988300	-80.900000	0.035	0.11
PACKWOOD PLACE	8721222	28.940000	-80.870000	0.029	0.09
TURTLE MOUND	8721223	28.926700	-80.825000	0.043	0.14
ALLENHURST,HAULOVER CANAL	8721374	28.733300	-80.756700	0.021	0.07
TITUSVILLE, INDIAN RIVER	8721456	28.620000	-80.800000	0.010	0.03
TRIDENT PIER, PORT CANAVERAL	8721604	28.415800	-80.593100	0.003	0.01
COCOA BEACH, ATLANTIC OCEAN	8721649	28.368300	-80.600000	0.011	0.04
CANOVA	8721804	28.138300	-80.578300	0.033	0.11
MELBOURNE, INDIAN RIVER	8721832	28.100000	-80.611700	0.028	0.09
MICCO, INDIAN RIVER	8721994	27.873300	-80.496700	0.019	0.06
SEBASTIAN INLET	8722004	27.860000	-80.448300	0.019	0.06
SEBASTIAN, INDIAN RIVER	8722029	27.811700	-80.463300	0.013	0.04
WABASSO,INDIAN RIVER	8722059	27.755000	-80.425000	0.042	0.14
VERO BEACH (OCEAN)	8722105	27.670000	-80.360000	0.020	0.07
VERO BEACH, INDIAN RIVER	8722125	27.631700	-80.371700	0.046	0.15
NORTH BEACH CAUSEWAY, INDIAN RIVER	8722208	27.471700	-80.325000	0.029	0.10
FORT PIERCE, SOUTH JETTY	8722212	27.470000	-80.288300	0.022	0.07
BINNEY DOCK, FT PIERCE INLET	8722213	27.468300	-80.300000	0.026	0.09
SOUTH BEACH CAUSEWAY, INDIAN RIVER	8722219	27.456700	-80.323300	0.030	0.10
NORTH FORK, ST. LUCIE RIVER	8722334	27.243300	-80.313300	0.032	0.11
STUART, ST. LUCIE RIVER	8722357	27.200000	-80.258300	0.023	0.07
SEWALL POINT. ST. LUCIE RIVER	8722371	27.175000	-80.188300	0.028	0.09
GREAT POCKET,ST. LUCIE INLET	8722381	27.155000	-80.171700	0.026	0.09
PORT SALERNO	8722383	27.151700	-80.195000	0.034	0.11
PECK LAKE, ST. LUCIE INLET	8722404	27.113300	-80.145000	0.034	0.11
GOMEZ	8722414	27.093300	-80.136700	0.024	0.08
HOBE SOUND BRIDGE, HOBE SOUND	8722429	27.065000	-80.123300	0.020	0.07
HOBE SOUND, STATE PARK	8722445	27.036700	-80.106700	0.038	0.12
NORTH LOXAHATCHEE RIVER	8722472	26.986700	-80.141700	0.029	0.10
NORTH FORK, LOXAHATCHEE RIVER	8722478	26.975000	-80.113300	0.023	0.07
LOXAHATCHEE RIVER	8722481	26.970000	-80.126700	0.023	0.07
TEQUESTA, N.FORK,LOXAHATCHEE R.	8722486	26.960000	-80.105000	0.031	0.10
TEQUESTA, NORTH	8722487	26.951700	-80.101700	0.029	0.10
TEQUESTA, LOXAHATCHEE RIVER	8722488	26.951700	-80.103300	0.012	0.04
JUPITER SOUND, SOUTH END	8722491	26.951700	-80.080000	0.027	0.09
JUPITER WEST	8722492	26.946700	-80.090000	0.018	0.06
JUPITER INLET	8722495	26.943300	-80.073300	0.011	0.03

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LOXAHATCHEE RIVER LOCK	8722496	26.935000	-80.143300	0.022	0.07
LAKE WORTH CREEK	8722512	26.911700	-80.080000	0.020	0.07
PGA BOULEVARD BRIDGE, PALM BEACH	8722548	26.843300	-80.066700	0.017	0.06
NORTH PALM BEACH	8722557	26.826700	-80.055000	0.010	0.03
PORT OF W. PALM BEACH, LAKE WORTH	8722588	26.770000	-80.051700	0.010	0.03
PALM BEACH	8722607	26.733300	-80.041700	0.017	0.05
PALM BEACH, BRAZILIAN DOCK,	8722621	26.705000	-80.045000	0.006	0.02
WEST PALM BEACH	8722654	26.645000	-80.045000	0.016	0.05
LAKE WORTH INTRACOASTAL WATERWAY	8722669	26.613300	-80.046700	0.010	0.03
LAKE WORTH PIER, ATLANTIC OCEAN	8722670	26.611700	-80.033300	0.009	0.03
DELRAY BEACH	8722746	26.473300	-80.061700	0.025	0.08
SOUTH DELRAY BEACH	8722761	26.446700	-80.065000	0.025	0.08
LAKE WYMAN	8722802	26.370000	-80.070000	0.025	0.08
BOCA RATON	8722816	26.343300	-80.076700	0.016	0.05
HILLSBORO	8722859	26.260000	-80.085000	0.017	0.06
HILLSBORO INLET, INSIDE	8722861	26.258300	-80.081700	0.015	0.05
HILLSBORO INLET OCEAN	8722862	26.256700	-80.080000	0.015	0.05
LAUDERDALE-BY-THE-SEA	8722899	26.188300	-80.093300	0.015	0.05
FT. LAUDERDALE, ANDREWS AVENUE BRIDGE	8722937	26.118300	-80.145000	0.015	0.05
FT. LAUDERDALE BAHIA YACHT CLUB	8722939	26.113300	-80.108300	0.014	0.05
PORT EVERGLADES, LAKE MABEL	8722951	26.091700	-80.123300	0.010	0.03
SOUTH PORT EVERGLADES	8722956	26.081700	-80.116700	0.017	0.06
NORTH DANIA SOUND	8722957	26.080000	-80.111700	0.017	0.06
PORT LAUDANIA	8722968	26.060000	-80.130000	0.018	0.06
WHISKEY CREEK, SOUTH ENTRANCE	8722971	26.055000	-80.113300	0.019	0.06
WEST LAKE, NORTH END	8722977	26.043300	-80.126700	0.022	0.07
HOLLYWOOD BEACH	8722979	26.040000	-80.115000	0.020	0.07
WEST LAKE, SOUTH END	8722982	26.033300	-80.123300	0.022	0.07
DUMFOUNDLING BAY	8723044	25.941700	-80.125000	0.021	0.07
NORTH MIAMI BEACH	8723050	25.930000	-80.120000	0.013	0.04
HAUOVER INSIDE	8723073	25.903300	-80.125000	0.015	0.05
HAUOVER PIER, N. MIAMI BEACH	8723080	25.903300	-80.120000	0.006	0.02
BISCAYNE CREEK, INTRACOASTAL WATERWAY	8723089	25.880000	-80.163300	0.014	0.05
MIAMI, BISCAYNE BAY	8723165	25.778300	-80.185000	0.011	0.03
MIAMI BEACH (CITY PIER)	8723170	25.768300	-80.131700	0.006	0.02
MIAMI BEACH, GOVERNMENT CUT	8723178	25.763300	-80.130000	0.013	0.04
VIRGINIA KEY, BISCAYNE BAY	8723214	25.731400	-80.161800	0.003	0.01
KEY BISCAYNE YACHT CLUB	8723232	25.698300	-80.170000	0.026	0.09
CUTLER, BISCAYNE BAY	8723289	25.615000	-80.305000	0.016	0.05
RAGGED KEY #3	8723350	25.533300	-80.171700	0.018	0.06
RAGGED KEY NO. 5, BISCAYNE BAY	8723355	25.523300	-80.175000	0.025	0.08
SANDS KEY, ELLIOTT KEY	8723372	25.506700	-80.188300	0.023	0.08
COON POINT, ELLIOTT KEY	8723391	25.480000	-80.188300	0.024	0.08
ELLIOTT KEY (OUTSIDE)	8723393	25.476700	-80.180000	0.018	0.06
ELLIOTT KEY HARBOR, ELLIOTT KEY	8723409	25.453300	-80.196700	0.025	0.08
TURKEY POINT, BISCAYNE BAY	8723423	25.436700	-80.330000	0.018	0.06
BILLY'S POINT, ELLIOTT KEY	8723439	25.415000	-80.210000	0.026	0.09
ADAMS KEY	8723453	25.396700	-80.233300	0.023	0.08
CHRISTMAS POINT, ELLIOTT KEY	8723457	25.391700	-80.230000	0.024	0.08
EAST ARSENIKER, CARD SOUND	8723465	25.373300	-80.290000	0.027	0.09
TOTTEN KEY, BISCAYNE BAY	8723467	25.378300	-80.256700	0.027	0.09
PUMPKIN KEY, CARD SOUND	8723506	25.325000	-80.293300	0.024	0.08

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WEDNESDAY POINT, KEY LARGO	8723518	25.310000	-80.298300	0.026	0.08
OCEAN REEF HARBOR, KEY LARGO	8723519	25.308300	-80.276700	0.015	0.05
CARD SOUND BRIDGE	8723534	25.288300	-80.370000	0.021	0.07
CARYSFORT REEF LIGHTHOUSE	8723583	25.221700	-80.211700	0.021	0.07
ROCK HARBOR INSIDE	8723688	25.081700	-80.445000	0.031	0.10
POINT CHARLES, KEY LARGO	8723689	25.081700	-80.446700	0.024	0.08
PT. CHARLES, GAGE 'C', KEY LARGO	8723691	25.081700	-80.450000	0.026	0.08
GAGE A, POINT CHARLES, KEY LARGO	8723693	25.076700	-80.455000	0.024	0.08
CRANE KEY	8723746	25.005000	-80.618300	0.030	0.10
TAVERNIER HAWK CHANNEL	8723747	25.005000	-80.516700	0.020	0.06
EAST KEY, FLORIDA BAY	8723752	24.996700	-80.610000	0.028	0.09
PLANTATION KEY, ATLANTIC SIDE	8723769	24.973300	-80.550000	0.023	0.08
USCG STA., ISLAMORADA, SNAKE CR	8723786	24.953300	-80.586700	0.023	0.07
WHALE HARBOR MARINA	8723795	24.940000	-80.608300	0.025	0.08
ISLAMORADA, WHALE HARBOR CHANNEL	8723797	24.938300	-80.610000	0.024	0.08
UPPER MATECUMBE KEY, FLORIDA BAY	8723808	24.925000	-80.631700	0.020	0.07
LOWER MATECUMBE KEY HAWK CHANNEL	8723851	24.868300	-80.703300	0.018	0.06