

Tide Tables 2009 – East Coast of North and South America including Greenland

Tide Tables 2009

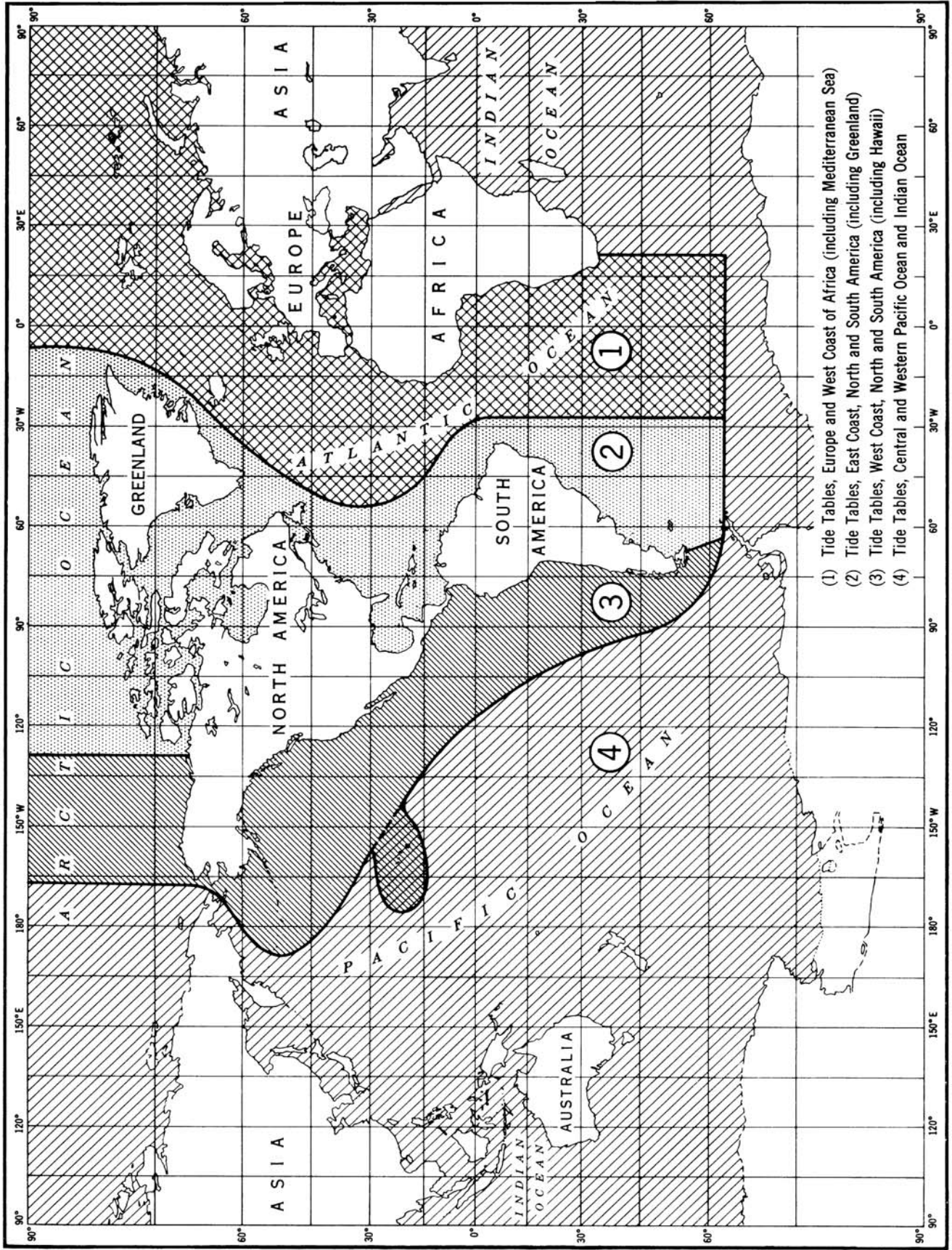
HIGH AND LOW WATER PREDICTIONS

East Coast of North and South America

Including Greenland



INDEX OF TIDE TABLE COVERAGE



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

Tide Tables 2009 HIGH AND LOW WATER PREDICTIONS

East Coast of North and South America

Including Greenland

Issued 2008

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 private companies working from information provided by NOS.

NOS now offers two new 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 private printers who wish to print in book-form the full set of Tables for distribution to resellers and the general public. Second, for domestic tide reference stations, limited predictions are available on the NOS, Center for Operational Oceanographic Products and Services (CO-OPS), web site, (<http://tidesandcurrents.noaa.gov/>).

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

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

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

PUBLICATIONS:

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

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

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

TECHNICAL ASSISTANCE:

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

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

SOURCES OF ADDITIONAL INFORMATION

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

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

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

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

WEBSITES

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

<http://tidesandcurrents.noaa.gov>

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

U.S. Naval Oceanographic Office - <https://www.navo.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.

CONTENTS

	Page
Index map of tide table coverage	inside front cover
Astronomical data	inside back cover
Important notices	VII
Introduction	XI
List of reference stations	XII
Table 1. —Daily tide predictions.	
Explanation of table.....	1
Typical tide curves for United States ports	3
Daily predictions for reference stations	4
Table 2. —Tidal differences and other constants.	
Explanation of table.....	309
Tidal differences and other constants	312
Table 3. —Height of tide at any time.	
Explanation of table.....	355
Height of tide at any time	357
Table 4. —Local mean time of sunrise and sunset.	
Explanation of table.....	359
Sunrise and sunset.....	360
Table 5. —Reduction of local mean time to standard time.....	369
Table 6. —Moonrise and moonset.	
Explanation of table.....	371
Moonrise and moonset	372
Table 7. —Conversion of feet to centimeters.....	379
Table 8. —Tide prediction accuracy.....	381
Table 9. — Lowest / highest astronomical tide and other tidal datums	383
Publications relating to tides and tidal currents	385
Official U.S. Datums	386
Glossary of terms	387
Index to stations	393

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
CHERRY POINT		www.tidesandcurrents.noaa.gov
CHESAPEAKE BAY	866-CH-PORTS (866-247-6787)	“
DELAWARE RIVER & BAY	866-30-PORTS (866-307-6787)	“
GULFPORT	888-257-1858	“
HOUSTON/GALVESTON	866-HG-PORTS (866-447-6787)	“
LOS ANGELES/LONG BEACH		“
LOWER COLUMBIA RIVER	888-53-PORTS (888-537-6787)	“
MOBILE BAY	877-84-PORTS (877-847-6787)	“
NARRAGANSETT BAY	866-75-PORTS (866-757-6787)	“
NEW HAVEN	888-80-PORTS (888-807-6787)	“
NEW YORK/NEW JERSEY	866-21-PORTS (866-217-6787)	“

PORTS® SITES	VOICE ACCESS	INTERNET ACCESS
PASCAGOULA	888-257-1857	www.tidesandcurrents.noaa.gov
PORT OF ANCHORAGE	866-AK-PORTS (866-257-6787)	"
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

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 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

IMPORTANT NOTICES

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)

CHARLESTON HARBOR, SC

The US Army Corps of Engineers (CEO) 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.

IMPORTANT NOTICES

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' verses 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)

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 270 reference ports and differences and other constants for more than 6,530 stations.

This edition of the Tide Tables, *East Coast of North and South America*, contains full daily predictions for 76 reference ports and differences and other constants for about 2,600 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, Products and Services 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.

Directoria 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

Name of station	Page	Datum below mean sea-level	Updated	Data Series
Albany, New York.....	80	* 2.49	1966	192 days beginning 5/1/1934
Amuay, Venezuela.....	268	0.65		
Apalachicola, Florida.....	196	0.92	1999	3 years (1995-1997)
Argentia, Newfoundland.....	4	4.3		
Atlantic City, New Jersey	88	2.23	2006	5 years (1999-2003)
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	240	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.....	292	2.6		
Cape Hatteras, North Carolina.....	132	1.65	1998	4 years (1988-1991)
Cedar Key, Florida	188	2.03	2003	5 years (1992-1997)
Charleston, South Carolina	144	2.95	2003	5 years (1996-2000)
Charlotte Amalie, St. Thomas Island.....	256	0.38	2002	8 years (1984-1991)
Chesapeake Bay Bridge Tunnel, Virginia....	116	1.45	2006	5 years (1999-2003)
Comodoro Rivadavia, Argentina	300	10.3		
Cristobal, Panama.....	236	0.38		
Dauphin Island, Alabama	204	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	156	3.35	2003	3 years (1998-2000)
Galveston, Texas	220	0.82	2006	5 years (1999-2003)
Grand Isle, Louisiana.....	216	0.56	2006	5 years (1999-2003)
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	264	2.70		
Key West, Florida	176	0.92	2003	5 years (1996-2000)
Kings Point, Long Island, New York.....	68	3.87	2006	5 years (1999-2003)
Lime Tree, Saint Croix, Virgin Islands	260	0.38	2002	3 years (1995-1997)
Magueyes Island, Puerto Rico	248	0.34	2002	3 years (1995-1997)
Mayport, Florida	160	2.46	2005	3 years (2001-2003)
Miami, Government Cut, Florida	168	1.43	2005	2 years (1985-1986)
Mobile, Alabama	208	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	2006	5 years (1999-2003)
Nantucket, Massachusetts.....	44	1.79	2005	5 years (1999-2003)
Naples, Florida	180	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	2006	5 years (1999-2003)
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)

LIST OF REFERENCE STATIONS *Cont.*

Name of station	Page	Datum below mean sea-level	Updated	Data Series
Padre Island, Texas.....	228	0.86	1998	1 year (1963)
Pensacola, Florida.....	200	0.62	2003	5 years (1996-2000)
Philadelphia, Pennsylvania.....	100	* 3.47	2006	5 years (1999-2003)
Pictou, Nova Scotia	8	3.9		
Port Canaveral (Trident Pier), Florida	164	1.92	2003	5 years (1997-2001)
Port O'Connor, Texas	224	0.42	1999	29 days beginning 2/1/1989
Portland, Maine.....	36	4.93	2001	5 years (1993-1997)
Puerto Ingeniero White, Argentina	296	8.5		
Punta Gorda, Venezuela	272	3.30		
Punta Loyola, Argentina.....	304	20.3		
Quebec, Quebec.....	16	* 8.5		
Recife, Brazil	280	3.7		
Reedy Point, Delaware.....	96	2.99	2006	5 years (1999-2003)
Rio de Janeiro, Brazil	284	2.3		
St. John, New Brunswick.....	24	14.5		
St. Marks River Entrance, Florida	192	1.93	1996	358 days beginning 9/1/1970
St. Petersburg, Florida	184	1.19	2006	5 years (1999-2003)
San Juan, Puerto Rico	252	0.78	1999	4 years (1983-1996)
Sandy Hook, New Jersey.....	84	2.56	2006	5 years (1999-2003)
Santos, Brazil.....	288	2.5		
Savannah, Georgia.....	152	4.38	1990	1 year (1980)
Savannah River Entrance, Georgia	148	3.80	2003	5 years (1996-2000)
Settlement Point, Bahama	244	1.45	2002	4 years (1986-1988, 1990)
South Pass, Louisiana.....	212	.68	1999	3 years (1989-1991)
Suriname River Entrance, Surinam	276	4.28		
Tampico Harbor, Mexico.....	232	0.84		
Vaca Key, Florida	172	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	2006	5 years (1999-2003)
Woods Hole, Massachusetts	48	1.04	2005	5 years (1999-2003)

*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.

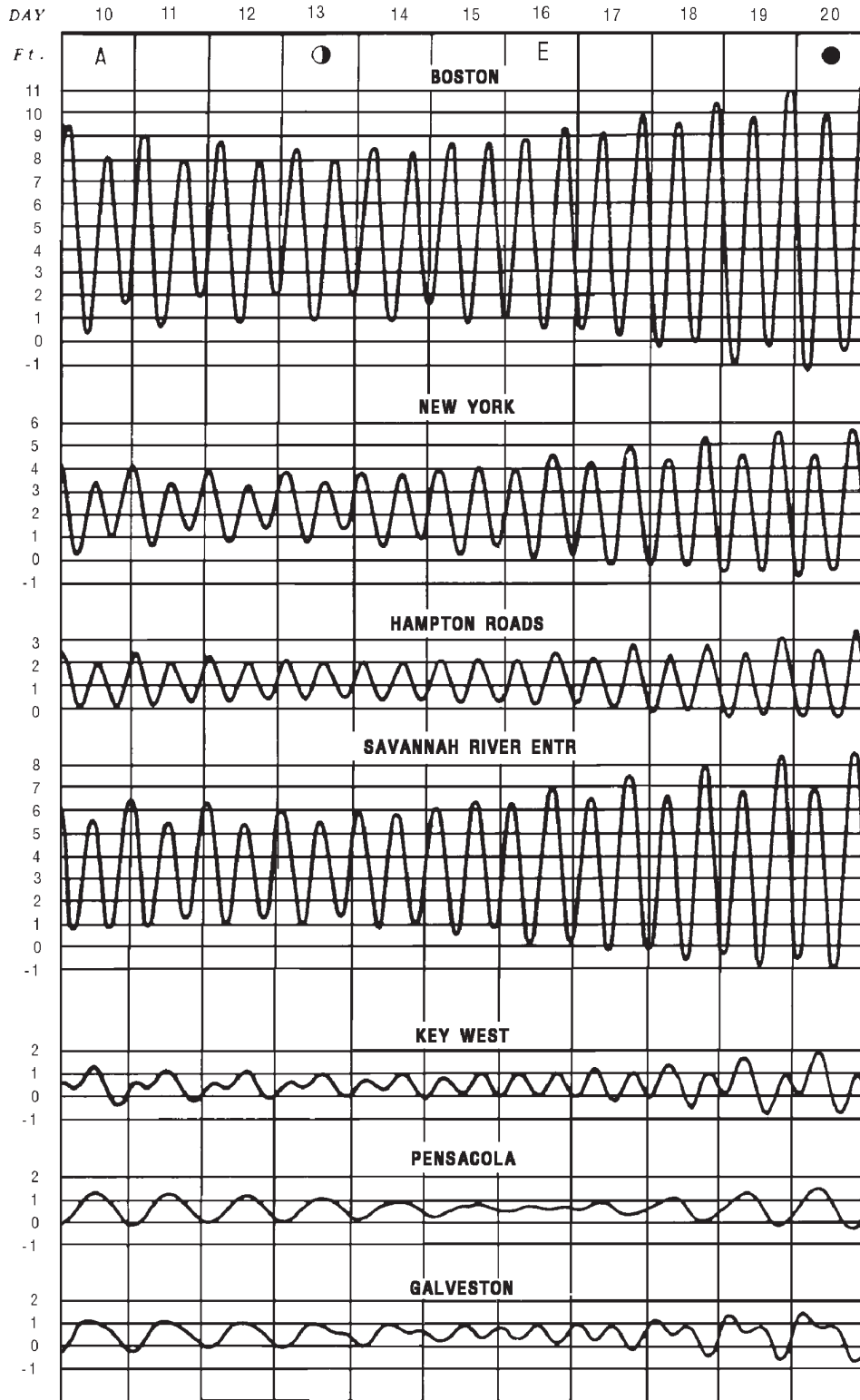
Number of tides.— There are usually two high and two low waters in a day. Tides follow the Moon more closely than they do the Sun, and the lunar or tidal day is about 50 minutes longer than the solar day. This causes the tide to occur later each day, and a tide that has occurred near the end of one calendar 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.

TABLE 1.—DAILY TIDE PREDICTIONS

Relation of tide to current.— In using these tables of tide predictions bear in mind that they give the times and heights of high and low waters and not the times of turning of the current or slack water. For stations on the outer coast there is usually a small difference between the time of high or low water and the beginning of ebb or flood current, but for places in narrow channels, landlocked harbors, or on tidal rivers, the time of slack water may differ by several hours from the time of high or low water stand. The relation of the times of high and low water to the turning of the current depends upon a number of factors, so no simple or general rule can be given. For the predicted time of slack water, and other current data, reference should be made to the Tidal Current Tables prepared by the National Ocean Service, for the Atlantic and the Pacific coast of North America and Asia.

Typical tide curves.— The 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
☾ - last quarter
E - Moon on Equator
● - new Moon

Argentia, Newfoundland, 2009

Times and Heights of High and Low Waters

January				February				March																
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height											
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm										
1 Th	0432	2.3	70	16 F	0506	2.0	60	1 Su	0520	2.0	60	16 M	0049	6.9	210									
	1108	7.2	220		1225	7.2	220		1158	6.6	200		0557	2.6	80	1 Su	0419	1.6	50					
	1654	2.3	70		1729	2.3	70		1731	2.0	60		1325	5.9	180	1050	6.9	210	16 M	1140	6.2	190		
	2332	6.6	200		1811	2.6	80		1813	2.3	70		1812	3.0	90	1626	1.6	50	2319	7.2	220	1656	2.3	70
2 F	0509	2.3	70	17 Sa	0040	6.9	210	2 M	0032	6.9	210	17 Tu	0147	6.6	200	2 M	0455	2.0	60	17 Tu	0007	6.9	210	
	1148	6.9	210		0549	2.3	70		0602	2.3	70		0651	3.3	100		1132	6.6	200		0525	2.6	80	
	1727	2.3	70		1318	6.6	200		1245	6.2	190		1428	5.6	170		1702	1.6	50		1234	5.9	180	
3 Sa	0016	6.6	200	18 Su	0135	6.6	200	3 Tu	0130	6.9	210	18 W	0249	6.2	190	3 Tu	0010	7.2	220	18 W	0103	6.6	200	
	0549	2.6	80		0639	3.0	90		0653	2.6	80		0931	3.6	110		0537	2.3	70		0612	3.3	100	
	1231	6.6	200		1416	6.2	190		1344	5.9	180		1530	5.2	160		1223	6.2	190		1241	5.6	170	
	1805	2.3	70		1901	3.0	90		1906	2.3	70		2115	3.3	100		1744	2.0	60		1824	3.3	100	
4 Su	0105	6.6	200	19 M	0232	6.6	200	4 W	0239	6.9	210	19 Th	0354	6.2	190	4 W	0112	6.9	210	19 Th	0206	6.2	190	
	0635	2.6	80		0755	3.3	100		0811	3.0	90		1048	3.6	110		0629	2.6	80		0823	3.6	110	
	1320	6.2	190		1515	5.9	180		1457	5.9	180		1635	5.2	160		1330	5.9	180		1446	5.2	160	
5 M	1851	2.6	80	20 Tu	2019	3.3	100	5 Th	2018	2.6	80	20 F	2229	3.3	100	5 Th	1836	2.6	80	20 F	0203	3.6	110	
	0201	6.6	200		0332	6.6	200		0354	6.9	210		0502	6.6	200		0224	6.9	210		0311	6.2	190	
	0733	3.0	90		1012	3.3	100		1033	3.0	90		1141	3.3	100		0757	3.3	100		1013	3.6	110	
	1418	6.2	190		1615	5.6	170		1616	5.9	180		1738	5.6	170		1450	5.9	180		1551	5.2	160	
6 Tu	1950	2.6	80	21 W	2151	3.0	90	6 F	2151	2.6	80	21 Sa	2324	3.0	90	6 F	1952	3.0	90	21 Sa	2201	3.3	100	
	0306	6.6	200		0433	6.6	200		0509	7.2	220		0603	6.6	200		0340	6.9	210		0419	6.2	190	
	0856	3.0	90		1113	3.3	100		1144	2.6	80		1222	3.0	90		1041	3.0	90		1106	3.3	100	
	1525	5.9	180		1715	5.6	170		1733	6.2	190		1827	5.9	180		1612	5.9	180		1657	5.6	170	
7 W	2104	2.3	70	22 Th	2249	3.0	90	7 Sa	2315	2.3	70	22 Su	1906	6.2	190	7 Sa	2211	3.0	90	22 Su	2258	3.0	90	
	0417	6.9	210		0535	6.6	200		0618	7.9	240		0014	2.6	80		0458	7.2	220		0524	6.6	200	
	1032	2.6	80		1203	3.0	90		1239	2.0	60		0650	6.9	210		1139	2.6	80		1147	3.0	90	
	1635	5.9	180		1809	5.6	170		1840	6.6	200		1257	2.6	80		1730	6.2	190		1751	5.9	180	
8 Th	2217	2.3	70	23 F	2340	2.6	80	8 Su	0024	2.0	60	23 M	1906	6.2	190	8 Su	2332	2.6	80	23 M	2348	2.6	80	
	0524	7.2	220		0630	6.9	210		0024	2.0	60		0058	2.3	70		0609	7.5	230		0615	6.9	210	
	1142	2.3	70		1244	3.0	90		0717	8.2	250		0727	7.2	220		1225	2.0	60		1222	2.6	80	
	1743	6.2	190		1853	5.9	180		1325	1.6	50		1329	2.3	70		1831	6.9	210		1832	6.2	190	
9 F	2320	2.0	60	24 Sa	1933	7.2	220	9 M	0121	1.6	50	24 Tu	1939	6.6	200	9 M	2012	6.9	210	24 Tu	1908	6.9	210	
	0627	7.9	240		0029	2.3	70		0809	8.5	260		0138	2.0	60		0028	2.0	60		0032	2.3	70	
	1241	2.0	60		0715	7.2	220		1404	1.6	50		0759	7.5	230		0706	7.9	240		0654	6.9	210	
	1845	6.6	200		1321	2.6	80		2019	7.5	230		1359	2.0	60		1304	1.6	50		1254	2.3	70	
10 Sa	1941	0020	1.6	50	25 Su	1930	6.2	190	10 Tu	0208	1.3	40	25 W	2012	6.9	210	10 Tu	1918	7.2	220	25 W	1908	6.9	210
		0725	8.2	250		0115	2.3	70		0856	8.5	260		0213	1.6	50		0114	1.6	50		0111	1.6	50
		1333	1.6	50		0752	7.2	220		1439	1.3	40		0832	7.5	230		0754	8.2	250		0729	7.2	220
		1941	6.9	210		1355	2.3	70		2102	7.5	230		1427	1.6	50		1337	1.6	50		1324	2.0	60
11 Su	2033	0119	1.6	50	26 M	2004	6.6	200	11 W	0249	1.0	30	26 Th	2044	7.2	220	11 W	2000	7.5	230	26 Th	1942	7.2	220
		0820	8.5	260		0156	2.0	60		0939	8.5	260		0245	1.6	50		0153	1.3	40		0146	1.3	40
		1419	1.3	40		0826	7.5	230		1512	1.6	50		0904	7.5	230		0835	8.2	250		0803	7.2	220
		2033	7.2	220		1427	2.0	60		2144	7.5	230		1455	1.6	50		1409	1.3	40		1353	1.6	50
12 M	2122	0213	1.3	40	27 Tu	2037	6.6	200	12 Th	0326	1.3	40	27 F	2119	7.5	230	12 Th	2039	7.9	240	27 F	2016	7.5	230
		0911	8.9	270		0233	2.0	60		1020	8.2	250		0316	1.3	40		0228	1.0	30		0219	1.3	40
		1501	1.3	40		0858	7.5	230		1545	1.6	50		0938	7.5	230		0913	7.9	240		0836	7.5	230
		2122	7.2	220		1457	2.0	60		2226	7.5	230		1523	1.3	40		1440	1.3	40		1422	1.3	40
13 Tu	2210	0301	1.3	40	28 W	2111	6.9	210	13 F	0402	1.3	40	28 Sa	2155	7.5	230	13 F	2117	7.9	240	28 Sa	2052	7.5	230
		1000	8.5	260		0307	2.0	60		1100	7.5	230		0347	1.3	40		0302	1.3	40		0250	1.0	30
		1539	1.6	50		0931	7.5	230		1618	1.6	50		1012	7.2	220		0948	7.5	230		0911	7.2	220
		2210	7.5	230		1526	1.6	50		2310	7.2	220		1553	1.3	40		1512	1.3	40		1453	1.3	40
14 W	2258	0345	1.3	40	29 Th	2146	6.9	210	14 Sa	0438	1.6	50	29 Su	2235	7.5	230	14 Sa	2155	7.5	230	29 Su	2131	7.9	240
		1048	8.2	250		0340	1.6	50		1141	6.9	210		0316	1.3	40		0336	1.3	40		0323	1.3	40
		1615	1.6	50		1005	7.5	230		1653	2.0	60		1546	1.6	50		1022	7.2	220		0947	7.2	220
		2258	7.2	220		1554	1.6	50		2357	7.2	220		2235	7.5	230		1546	1.6	50		1526	1.3	40
15 Th	2348	0426	1.6	50	30 F	2222	7.2	220	15 Su	0516	2.3	70	30 M	2318	7.2	220	15 Su	2235	7.5	230	30 M	2214	7.5	230
		1136	7.9	240		0411	1.6	50		1228	6.6	200		0411	1.6	50		0411	1.6	50		0358	1.3	40
		1651	2.0	60		1040	7.2	220		1730	2.3	70		1058	6.6	200		1620	2.0	60		1028	6.9	210
		2348	7.2	220		1623	1.6	50		2301	7.2	220		2318	7.2	220		2318	7.2	220		1601	1.3	40
31 Sa	2344	0444	2.0	60	31 Su	2344	6.9	210	31 Tu	0437	1.6	50	31 Tu	2359	7.2	220	31 Tu	2359	7.2	220				
		1117	6.9	210																				

Argentia, Newfoundland, 2009

Times and Heights of High and Low Waters

April				May				June																										
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height																					
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm																				
1 W	0521	2.3	70		16 Th	0026	6.6	200		1 F	0059	7.2	220		16 Sa	0040	6.6	200		1 M	0255	6.6	200		16 Tu	0137	6.2	190						
	1217	6.2	190			0548	3.3	100			0617	2.6	80			0622	3.3	100			0920	2.6	80			0716	3.0	90						
	1725	2.3	70			1258	5.6	170			1333	6.2	190			1316	5.6	170			1518	6.6	200			1518	6.6	200		1415	6.2	190		
2 Th	0104	7.2	220		17 F	0123	6.6	200		2 Sa	0205	6.9	210		17 Su	0133	6.6	200		2 Tu	0401	6.6	200		17 W	0235	5.9	180		17 Th	0338	5.9	180	
	0618	2.6	80			0702	3.6	110			0852	3.0	90			0736	3.3	100			1011	2.6	80			0821	3.0	90			0933	2.6	80	
	1333	5.9	180			1402	5.2	160			1440	6.2	190			1412	5.6	170			1620	6.6	200			1620	6.6	200			1516	6.2	190	
3 F	0215	6.9	210		18 Sa	0223	6.2	190		3 Su	0316	6.9	210		18 M	0231	6.2	190		3 W	0504	6.2	190		18 Th	0338	5.9	180		18 Fr	0441	5.9	180	
	0916	3.0	90			0921	3.6	110			1003	2.6	80			0909	3.3	100			1048	2.3	70			0933	2.6	80			1031	2.3	70	
	1451	5.9	180			1503	5.6	170			1547	6.6	200			1510	5.9	180			1717	6.9	210			1621	6.6	200			1722	6.9	210	
4 Sa	0329	6.9	210		19 Su	0327	6.2	190		4 M	0428	6.6	200		19 Tu	0334	6.2	190		4 Th	0558	6.2	190		19 F	0441	5.9	180		19 Sa	0538	6.2	190	
	1029	2.6	80			1020	3.3	100			1050	2.3	70			1005	3.0	90			1123	2.3	70			1031	2.3	70			1121	2.0	60	
	1606	6.2	190			1607	5.6	170			1652	6.6	200			1610	6.2	190			1808	7.2	220			1722	6.9	210			1818	7.5	230	
5 Su	0447	6.9	210		20 M	0433	6.2	190		5 Tu	0533	6.9	210		20 W	0436	6.2	190		5 F	0023	2.3	70		20 Sa	0538	6.2	190		20 Su	0633	6.6	200	
	1119	2.3	70			1103	3.0	90			1127	2.3	70			1047	2.6	80			0644	6.2	190			0633	6.6	200			1211	1.6	50	
	1716	6.6	200			1704	5.9	180			1747	6.9	210			1705	6.6	200			1159	2.0	60			1211	1.6	50			1911	7.9	240	
6 M	0555	7.2	220		21 Tu	0530	6.6	200		6 W	0002	2.0	60		21 Th	0530	6.2	190		6 Sa	0059	2.3	70		21 Su	0027	2.0	60		21 M	0117	1.6	50	
	1159	2.0	60			1139	2.6	80			0626	6.9	210			1124	2.3	70			0724	6.2	190			0633	6.6	200			0725	6.9	210	
	1812	6.9	210			1751	6.6	200			1158	2.0	60			1755	6.9	210			1239	2.0	60			1211	1.6	50			1302	1.3	40	
7 Tu	0019	2.0	60		22 W	0000	2.3	70		7 Th	0039	1.6	50		22 F	0006	2.0	60		7 Su	0133	2.0	60		22 M	0117	1.6	50		22 Tu	0205	1.6	50	
	0649	7.5	230			0616	6.6	200			0709	6.9	210			0616	6.6	200			0759	6.2	190			0205	1.6	50			0205	1.6	50	
	1233	2.0	60			1212	2.0	60			1230	1.6	50			1202	1.6	50			1320	1.6	50			1302	1.3	40			1302	1.3	40	
8 W	0058	1.6	50		23 Th	0040	1.6	50		8 F	0113	1.6	50		23 Sa	0047	1.6	50		8 M	0207	2.0	60		23 Tu	0205	1.6	50		23 W	0205	1.6	50	
	0733	7.5	230			0655	6.9	210			0746	6.6	200			1241	1.3	40			0831	6.2	190			0816	6.9	210			0816	6.9	210	
	1304	1.6	50			1244	1.6	50			1304	1.6	50			1928	7.9	240			1402	2.0	60			1353	1.3	40			1353	1.3	40	
9 Th	0133	1.3	40		24 F	0116	1.3	40		9 Sa	0147	1.6	50		24 Su	0129	1.3	40		9 Tu	0242	2.0	60		24 W	0250	1.3	40		24 Th	0250	1.3	40	
	0811	7.5	230			0731	7.2	220			0819	6.6	200			0743	6.9	210			0905	6.2	190			0907	7.2	220			0907	7.2	220	
	1336	1.3	40			1316	1.3	40			1340	1.3	40			1322	1.3	40			1442	2.0	60			1444	1.3	40			1444	1.3	40	
10 F	0206	1.3	40		25 Sa	0151	1.3	40		10 Su	0220	1.6	50		25 M	0211	1.3	40		10 W	0318	2.3	70		25 Th	0333	1.3	40		25 Fr	0333	1.3	40	
	0845	7.2	220			0808	7.2	220			0851	6.6	200			0828	6.9	210			0941	6.2	190			0959	7.2	220			0959	7.2	220	
	1408	1.3	40			1350	1.3	40			1417	1.6	50			1404	1.0	30			1521	2.0	60			1533	1.3	40			1533	1.3	40	
11 Sa	0239	1.3	40		26 Su	0227	1.0	30		11 M	0254	2.0	60		26 Tu	0255	1.3	40		11 Th	0354	2.3	70		26 F	0414	1.6	50		26 Sa	0456	2.0	60	
	0917	6.9	210			0846	7.2	220			0923	6.2	190			0916	6.9	210			1020	6.2	190			1054	7.2	220			1054	7.2	220	
	1442	1.3	40			1426	1.0	30			1455	1.6	50			1449	1.3	40			1559	2.3	70			1620	1.6	50			1620	1.6	50	
12 Su	0313	1.6	50		27 M	0304	1.3	40		12 Tu	0330	2.0	60		27 W	0339	1.3	40		12 F	0431	2.3	70		27 Sa	0456	2.0	60		27 Su	0539	2.3	70	
	0949	6.6	200			0928	6.9	210			1533	2.0	60			1009	6.9	210			1102	6.2	190			1150	7.2	220			1150	7.2	220	
	1517	1.6	50			1503	1.0	30			2226	7.2	220			1535	1.6	50			1637	2.6	80			1707	2.0	60			1707	2.0	60	
13 M	0347	2.0	60		28 Tu	0344	1.3	40		13 W	0407	2.3	70		28 Th	0424	1.6	50		13 Sa	0507	2.6	80		28 Su	0026	7.5	230		28 M	0124	7.2	220	
	1024	6.2	190			1015	6.9	210			1040	5.9	180			1109	6.9	210			1146	6.2	190			0539	2.3	70			0626	2.6	80	
	1553	2.0	60			1543	1.3	40			1611	2.3	70			1624	2.0	60			1717	2.6	80			1247	6.9	210			1345	6.9	210	
14 Tu	0423	2.3	70		29 W	0427	1.6	50		14 Th	0446	2.6	80		29 F	0512	2.0	60		14 Su	0002	6.9	210		29 M	0124	7.2	220		29 Tu	0225	6.6	200	
	1104	5.9	180			1112	6.6	200			1127	5.9	180			1213	6.6	200			0545	2.6	80			0626	2.6	80			0626	2.6	80	
	1629	2.3	70			1627	2.0	60			1651	2.6	80			1717	2.3	70			1232	6.2	190			1321	7.2	220			1345	6.9	210	
15 W	0502	2.6	80		30 Th	0516	2.3	70		15 F	0530	3.0	90		30 Sa	0047	7.5	230		15 M	0047	6.6	200		30 Tu	0225	6.6	200		30 W	0225	6.6	200	
	1																																	

Argentia, Newfoundland, 2009

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 W	0327	6.2	190	16 Th	0144	5.9	180	1 Sa	0454	5.6	170	16 Su	0336	5.9	180	1 Tu	0007	3.0	90	16 W	0556	6.6	200
	0900	3.0	90		0713	2.6	80		1032	3.0	90		0903	3.0	90		0617	5.9	180		1158	2.3	70
	1544	6.6	200		1433	6.6	200		1715	6.6	200		1633	6.9	210		1159	2.6	80		1834	7.9	240
	2228	3.0	90		2009	3.0	90		2357	3.0	90		2316	3.0	90		1838	6.9	210				
2 Th	0428	5.9	180	17 F	0248	5.9	180	2 Su	0555	5.6	170	17 M	0455	5.9	180	2 W	0040	2.6	80	17 Th	0035	1.6	50
	1005	3.0	90		0819	2.6	80		1126	2.6	80		1041	2.6	80		0656	6.2	190		0649	7.2	220
	1644	6.6	200		1544	6.6	200		1816	6.9	210		1745	7.5	230		1244	2.3	70		1248	1.6	50
	2324	3.0	90		2201	3.0	90								1915		7.2	220	1925		8.2	250	
3 F	0527	5.9	180	18 Sa	0359	5.9	180	3 M	0036	3.0	90	18 Tu	0011	2.3	70	3 Th	0111	2.3	70	18 F	0112	1.6	50
	1052	2.6	80		0939	2.6	80		0644	5.9	180		0607	6.6	200		0728	6.6	200		0734	7.5	230
	1742	6.9	210		1654	6.9	210		1216	2.6	80		1156	2.3	70		1323	2.0	60		1330	1.3	40
					2319	2.6	80		1905	7.2	220		1848	7.9	240		1947	7.2	220		2010	8.2	250
4 Sa	0012	2.6	80	19 Su	0510	5.9	180	4 Tu	0108	2.6	80	19 W	0058	2.0	60	4 F	0141	2.0	60	19 Sa	0146	1.3	40
	0620	5.9	180		1050	2.3	70		0722	6.2	190		0704	6.9	210		0759	6.9	210		0815	7.9	240
	1138	2.3	70		1759	7.5	230		1302	2.3	70		1256	1.6	50		1358	1.6	50		1408	1.0	30
	1835	7.2	220						1943	7.2	220		1941	8.5	260		2017	7.5	230		2050	8.2	250
5 Su	0050	2.6	80	20 M	0019	2.3	70	5 W	0140	2.3	70	20 Th	0139	1.6	50	5 Sa	0210	1.6	50	20 Su	0220	1.3	40
	0704	5.9	180		0616	6.2	190		0755	6.6	200		0752	7.5	230		0830	7.2	220		0856	7.9	240
	1225	2.3	70		1154	2.0	60		1343	2.0	60		1345	1.3	40		1431	1.6	50		1444	1.0	30
	1922	7.2	220		1859	8.2	250		2015	7.5	230		2029	8.5	260		2048	7.5	230		2128	7.5	230
6 M	0124	2.6	80	21 Tu	0111	2.0	60	6 Th	0210	2.0	60	21 F	0216	1.3	40	6 Su	0239	1.6	50	21 M	0253	1.3	40
	0742	6.2	190		0714	6.9	210		0826	6.6	200		0837	7.9	240		0902	7.2	220		0936	7.9	240
	1311	2.0	60		1256	1.6	50		1420	2.0	60		1427	1.0	30		1501	1.3	40		1519	1.3	40
	2002	7.2	220		1954	8.5	260		2045	7.5	230		2113	8.5	260		2119	7.2	220		2205	7.2	220
7 Tu	0157	2.3	70	22 W	0157	1.6	50	7 F	0241	2.0	60	22 Sa	0250	1.3	40	7 M	0307	1.3	40	22 Tu	0327	1.3	40
	0815	6.2	190		0806	7.2	220		0858	6.9	210		0919	7.9	240		0936	7.5	230		1018	7.5	230
	1354	2.0	60		1351	1.3	40		1454	2.0	60		1506	1.0	30		1531	1.3	40		1554	1.6	50
	2037	7.5	230		2044	8.9	270		2115	7.5	230		2156	8.2	250		2152	7.2	220		2244	6.9	210
8 W	0230	2.3	70	23 Th	0238	1.3	40	8 Sa	0310	1.6	50	23 Su	0324	1.3	40	8 Tu	0335	1.3	40	23 W	0402	1.6	50
	0848	6.6	200		0855	7.5	230		0930	6.9	210		1003	7.9	240		1013	7.5	230		1103	7.2	220
	1434	2.0	60		1440	1.3	40		1526	1.6	50		1542	1.0	30		1602	1.6	50		1630	2.0	60
	2109	7.5	230		2133	8.9	270		2147	7.5	230		2237	7.9	240		2227	6.9	210		2328	6.2	190
9 Th	0304	2.0	60	24 F	0316	1.3	40	9 Su	0338	1.6	50	24 M	0358	1.6	50	9 W	0406	1.6	50	24 Th	0438	2.3	70
	0922	6.6	200		0942	7.5	230		1004	7.2	220		1047	7.5	230		1055	7.2	220		1154	6.9	210
	1511	2.0	60		1524	1.0	30		1557	1.6	50		1619	1.3	40		1635	2.0	60		1709	2.6	80
	2141	7.5	230		2220	8.5	260		2220	7.2	220		2320	7.2	220		2306	6.6	200				
10 F	0336	2.0	60	25 Sa	0353	1.6	50	10 M	0406	1.6	50	25 Tu	0432	2.0	60	10 Th	0440	1.6	50	25 F	0024	5.9	180
	0957	6.6	200		1030	7.5	230		1040	7.2	220		1135	7.2	220		1142	7.2	220		0518	2.6	80
	1546	2.0	60		1605	1.3	40		1628	2.0	60		1656	2.0	60		1713	2.3	70		1250	6.6	200
	2215	7.5	230		2308	8.2	250		2255	6.9	210						2352	6.2	190		1755	3.0	90
11 Sa	0407	2.0	60	26 Su	0429	1.6	50	11 Tu	0436	2.0	60	26 W	0008	6.6	200	11 F	0519	2.0	60	26 Sa	0131	5.6	170
	1033	6.6	200		1119	7.5	230		1120	6.9	210		0509	2.3	70		1238	6.9	210		0607	3.3	100
	1620	2.3	70		1645	1.6	50		1701	2.0	60		1229	6.9	210		1759	2.6	80		1350	6.6	200
	2250	7.2	220		2356	7.5	230		2333	6.6	200		1737	2.6	80						1910	3.6	110
12 Su	0438	2.0	60	27 M	0506	2.0	60	12 W	0509	2.0	60	27 Th	0107	5.9	180	12 Sa	0053	5.9	180	27 Su	0233	5.6	170
	1112	6.6	200		1211	7.2	220		1205	6.9	210		0549	2.6	80		0605	2.3	70		0736	3.6	110
	1654	2.3	70		1726	2.0	60		1738	2.3	70		1328	6.6	200		1345	6.9	210		1452	6.2	190
	2327	6.9	210										1826	3.0	90		1904	3.0	90		2152	3.6	110
13 M	0509	2.3	70	28 Tu	0050	6.9	210	13 Th	0016	6.2	190	28 F	0211	5.6	170	13 Su	0209	5.9	180	28 M	0336	5.6	170
	1153	6.6	200		0545	2.3	70		0547	2.0	60		0640	3.3	100		0708	3.0	90		0942	3.3	100
	1730	2.3	70		1308	6.9	210		1257	6.9	210		1429	6.6	200		1459	6.9	210		1559	6.2	190
					1811	2.6	80		1823	2.6	80		2114	3.6	110		2159	3.0	90		2247	3.3	100
14 Tu	0007	6.6	200	29 W	0148	6.2	190	14 F	0109	5.9	180	29 Sa	0313	5.6	170	14 M	0329	5.9	180	29 Tu	0441	5.6	170
	0543	2.3	70		0630	2.6	80		0632	2.3	70		0835	3.3	100		0901	3.0	90		1041	3.0	90
	1238	6.6	200		1407	6.6	200		1402	6.6	200		1533	6.2	190		1616	6.9	210		1706	6.2	190
	1811	2.6	80		1910	3.0	90		1925	3.3	100		2237	3.6	110		2304	2.6	80		2328	3.0	90
15 W	0051	6.2	190	30 Th	0249	5.9	180																

Pictou, Nova Scotia, 2009

Times and Heights of High and Low Waters

January				February				March																			
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height														
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm													
1 Th	0643	2.0	60	16 F	0115	5.9	180	1 Su	0129	5.2	160	16 M	0254	4.9	150												
	1338	5.2	160		0728	2.0	60		0718	2.6	80		0801	3.3	100	1 Su	0038	5.2	160								
	1851	3.6	110		1406	5.6	170		1343	5.6	170		1406	5.6	170	0617	2.3	70	16 M	0138	4.9	150					
2 F	0042	5.6	170	17 Sa	0214	5.6	170	2 M	0223	4.9	150	17 Tu	0405	4.6	140	2 M	0126	5.2	160	17 Tu	0231	4.6	140				
	0716	2.3	70		0808	2.6	80		0752	3.0	90		0833	3.6	110		0651	2.6	80		0722	3.6	110				
	1406	5.2	160		1440	5.6	170		1412	5.9	180		1436	5.6	170		1301	5.9	180		1315	5.6	170				
3 Sa	1935	3.3	100	●	2043	2.3	70	●	2049	2.0	60	18 W	2218	2.3	70	3 Tu	1933	1.3	40	2025	2.0	60					
	0132	5.2	160	18 Su	0321	4.9	150	3 Tu	0330	4.6	140		18 W	0526	4.3		130	3 Tu	0220		4.9	150	18 W	0335	4.3	130	
	0750	2.6	80		0849	3.3	100		0830	3.3	100			0909	3.9		120		0727		3.3	100		0753	3.6	110	
1433	5.6	170	1513		5.6	170	1447		5.9	180	1514	5.2		160	1333	5.9	180		1346	5.2	160						
4 Su	2024	3.0	90	2147	2.3	70	2151	2.0	60	4 W	2343	2.3	70	4 W	2026	1.3	40	19 Th	2132	2.0	60						
	0230	4.9	150	19 M	0440	4.6	140	4 W	0454		4.6	140	19 Th		0656	4.3	130		4 W	0328	4.6	140	19 Th	0447	4.3	130	
	0827	3.0	90		0932	3.6	110		0917		3.6	110			1005	4.3	130			0807	3.6	110		0828	3.9	120	
1503	5.6	170	1548		5.6	170	1533		5.9	180	1611	5.2		160	1412	5.9	180	1426		5.2	160						
5 M	2120	2.6	80	2303	2.3	70	2304	1.6	50	5 Th	2304	1.6	50	5 Th	2130	1.6	50	20 F	2255	2.3	70						
	0344	4.6	140	20 Tu	0603	4.6	140	5 Th	0622		4.6	140	20 F		0057	2.3	70		5 Th	0451	4.6	140	20 F	0603	4.3	130	
	0909	3.3	100		1021	3.9	120		1024		3.9	120			0836	4.3	130			0859	3.6	110		0928	3.9	120	
1537	5.6	170	1629		5.6	170	1633		5.9	180	1138	4.3		130	1503	5.9	180	1521		5.2	160						
6 Tu	2223	2.3	70	21 W	0019	2.3	70	6 F	0021	1.6	50	21 Sa	1738	5.2	160	6 F	2248	1.6	50	21 Sa	1521	5.2	160				
	0512	4.6	140		0019	2.3	70		0745	4.6	140		0915	4.6	140		0616	4.6	140		0008	2.3	70				
	0959	3.6	110		1123	4.3	130		1151	3.9	120		1259	4.3	130		1018	3.9	120		0715	4.3	130				
7 W	1619	5.9	180	1724	5.6	170	1750	6.2	190	7 Sa	1904	5.2	160	7 Sa	1616	5.9	180	22 Su	1108	3.9	120						
	2331	2.0	60	22 Th	0125	2.0	60	7 Sa	0134		1.3	40	22 Su		2006	5.6	170		7 Sa	1756	5.6	170	22 Su	1652	4.9	150	
	0636	4.6	140		0853	4.6	140		0853		4.9	150			0939	4.6	140			0009	1.6	50		0107	2.3	70	
1103	3.9	120	1229		4.3	130	1313		3.9	120	1402	3.9		120	0733	4.6	140	0803		4.3	130						
8 Th	1710	6.2	190	1829	5.6	170	1915	6.2	190	8 Su	2006	5.6	170	8 Su	1925	5.9	180	23 M	1837	4.9	150						
	0039	1.6	50	23 F	0222	2.0	60	8 Su	0236		1.0	30	23 M		0317	2.0	60		8 Su	0122	1.3	40	23 M	0153	2.3	70	
	0751	4.9	150		0944	4.6	140		0943		5.2	160			1002	4.9	150			0831	4.9	150		0836	4.6	140	
1216	3.9	120	1331		4.3	130	1424		3.6	110	1452	3.6		110	1313	3.6	110	1338		3.6	110						
9 F	1812	6.2	190	1931	5.6	170	2030	6.2	190	9 M	2030	6.2	190	9 M	2058	5.6	170	9 M	1946	4.9	150						
	0144	1.3	40	24 Sa	0308	2.0	60	9 M	0329		1.0	30	24 Tu		0347	1.6	50		9 M	2034	5.9	180	24 Tu	0231	2.0	60	
	0858	5.2	160		1016	4.9	150		1025		5.2	160			1026	4.9	150			0914	5.2	160		0904	4.9	150	
1326	3.9	120	1426		4.3	130	1524		3.3	100	1535	3.3		100	1420	3.0	90	1427		3.0	90						
10 Sa	1920	6.6	200	2025	5.9	180	●	2134	6.6	200	10 Tu	2144	5.6	170	10 Tu	2034	5.9	180	25 W	2042	5.2	160					
	0244	1.0	30	25 Su	0346	1.6	50	10 Tu	0416	1.0		30	25 W	0415		1.6	50	10 Tu		0234	5.9	180	25 W	0303	2.0	60	
	0956	5.2	160		1043	4.9	150		1102	5.6		170		1051		5.2	160			0950	5.2	160		0932	4.9	150	
1432	3.9	120	1513		3.9	120	1616		2.6	80	1613	3.0		90	1514	2.6	80		1509	2.6	80						
11 Su	2028	6.6	200	2111	5.9	180	2230	6.6	200	11 W	2230	6.6	200	11 W	2133	5.9	180	26 Th	2131	5.2	160						
	0339	0.7	20	26 M	0419	1.6	50	11 W	0458		1.0	30	26 Th		0444	2.0	60		11 W	0353	1.3	40	26 Th	0335	2.0	60	
	1045	5.6	170		1109	4.9	150		1138		5.6	170			1116	5.2	160			1024	5.6	170		0958	5.2	160	
1532	3.6	110	1555		3.6	110	1704		2.3	70	1651	2.3		70	1602	2.0	60	1548		2.0	60						
12 M	2132	6.9	210	●	2154	5.9	180	12 Th	2322	6.2	190	12 Th	2311	5.6	170	12 Th	2226	5.9	180	27 F	2217	5.6	170				
	0430	0.7	20	27 Tu	0448	1.6	50		12 Th	0538	1.3		40	27 F	0513		2.0	60	12 Th		0432	1.6	50	27 F	0407	2.3	70
	1130	5.6	170		1135	5.2	160			1211	5.9		180		1141		5.6	170			1056	5.6	170		1026	5.6	170
1628	3.3	100	1634		3.6	110	1749	2.0		60	1728	2.0	60		1646	1.6	50	1626		1.6	50						
13 Tu	2231	6.9	210	2235	5.9	180	13 F	0012	5.9	180	13 F	2354	5.6	170	13 F	2315	5.9	180	28 Sa	2302	5.6	170					
	0517	0.7	20	28 W	0516	1.6		50	13 F	0616		2.0	60	28 Sa		0544	2.3	70		13 F	0509	2.0	60	28 Sa	0441	2.3	70
	1212	5.9	180		1201	5.2		160		1242		5.6	170			1206	5.6	170			1126	5.6	170		1054	5.6	170
1719	3.0	90	1713		3.3	100	1833	2.0		60	1807	1.6	50		1727	1.3	40	1705	1.0		30						
14 W	2326	6.6	200	2316	5.9	180	14 Sa	0102	5.6	170	14 Sa	1807	1.6	50	14 Sa	1727	1.3	40	29 Su	2347	5.6	170					
	0602	1.0	30	29 Th	0544	1.6		50	14 Sa	0102		5.6	170	14 Sa		0002	5.6	170		14 Sa	0002	5.6	170	29 Su	0516	2.6	80
	1252	5.9	180		1227	5.2		160		0652		2.3	70			0652	2.3	70			0545	2.3	70		1123	5.9	180
1809	3.0	90	1751		3.0	90	1312	5.6		170	1918	2.0	60		1155	5.6	170	1745	1.0		30						
15 Th	2359	5.6	170	2359	5.6	170	15 Su	0154	5.2	160	15 Su	2006	2.0	60	15 Su	1808	1.3	40	30 M	1745	1.0	30					
	0020	6.2	190	30 F	0614	2.0		60	15 Su	0154		5.2	160	15 Su		0049	5.2	160		15 Su	0049	5.2	160	30 M	0034	5.2	160
	0646	1.3	40		1252	5.6		170		0727		3.0	90			0618	3.0										

Pictou, Nova Scotia, 2009

Times and Heights of High and Low Waters

July				August				September															
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height										
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm									
1 W	0439	5.2	160	16 Th	0323	5.2	160	1 Sa	0534	5.2	160	16 Su	0417	5.6	170	1 Tu	0104	3.6	110	16 W	0046	3.3	100
	1109	2.0	60		1001	2.0	60		1301	1.6	50		1151	1.6	50		0716	5.2	160		0702	5.9	180
	1757	4.6	140		1652	4.6	140		2002	4.6	140		1907	4.6	140		1426	2.0	60		1350	1.6	50
	2308	3.3	100		2147	3.3	100						2330	3.6	110		2108	4.6	140		2035	5.2	160
2 Th	0523	5.2	160	17 F	0402	5.6	170	2 Su	0027	3.9	120	17 M	0532	5.9	180	2 W	0159	3.6	110	17 Th	0153	3.0	90
	1216	1.6	50		1105	2.0	60		0636	5.2	160		1304	1.3	40		0811	5.6	170		0812	5.9	180
	1909	4.6	140		1808	4.6	140		1402	1.6	50		2013	4.6	140		1505	2.0	60		1442	1.3	40
			2244		3.6	110	2103		4.6	140					2138		4.9	150	2116		5.6	170	
3 F	0004	3.6	110	18 Sa	0451	5.6	170	3 M	0126	3.9	120	18 Tu	0048	3.6	110	3 Th	0246	3.3	100	18 F	0249	2.3	70
	0610	5.2	160		1211	1.6	50		0735	5.6	170		0655	5.9	180		0859	5.6	170		0912	6.2	190
	1318	1.6	50		1920	4.6	140		1452	1.6	50		1408	1.0	30		1538	2.0	60		1527	1.6	50
	2017	4.6	140		2351	3.6	110		2147	4.6	140		2107	4.9	150		2206	4.9	150		●	2154	5.6	170
4 Sa	0059	3.6	110	19 Su	0549	5.9	180	4 Tu	0220	3.6	110	19 W	0159	3.3	100	4 F	0327	3.0	90	19 Sa	0338	1.6	50
	0701	5.6	170		1317	1.3	40		0828	5.6	170		0810	6.2	190		0943	5.6	170		1007	6.2	190
	1414	1.3	40		2028	4.6	140		1535	1.6	50		1503	1.0	30		1608	2.0	60		1610	1.6	50
	2118	4.6	140						2221	4.6	140		2152	5.2	160		○	2233	5.2		160	2229	5.9	180
5 Su	0152	3.6	110	20 M	0100	3.6	110	5 W	0307	3.6	110	20 Th	0259	3.0	90	5 Sa	0403	2.6	80	20 Su	0424	1.3	40
	0752	5.6	170		0657	5.9	180		0915	5.6	170		0914	6.2	190		1025	5.6	170		1058	6.2	190
	1505	1.3	40		1419	1.0	30		1611	1.3	40		1551	1.0	30		1636	2.0	60		1650	2.0	60
	2207	4.9	150		2127	4.9	150		○	2251	4.9		150	●	2232		5.6	170	2259		5.2	160	2304	5.9	180
6 M	0241	3.6	110	21 Tu	0207	3.6	110	6 Th	0350	3.3	100	21 F	0354	2.3	70	6 Su	0439	2.3	70	21 M	0507	1.0	30
	0841	5.6	170		0807	6.2	190		0958	5.6	170		1012	6.6	200		1106	5.6	170		1148	5.9	180
	1550	1.3	40		1516	0.7	20		1643	1.6	50		1636	1.0	30		1704	2.3	70		1729	2.6	80
	2248	4.9	150		●	2217	5.2		160	2319	4.9		150	2310	5.6		170	2325	5.2		160	2337	5.9	180
7 Tu	0326	3.6	110	22 W	0309	3.3	100	7 F	0428	3.0	90	22 Sa	0443	2.0	60	7 M	0515	2.0	60	22 Tu	0550	1.0	30
	0927	5.6	170		0914	6.6	200		1039	5.6	170		1106	6.2	190		1148	5.6	170		1238	5.6	170
	1630	1.3	40		1607	0.3	10		1712	1.6	50		1718	1.3	40		1734	2.3	70		1807	3.0	90
	2323	4.9	150		2303	5.2	160		2347	4.9	150		2347	5.6	170		2351	5.6	170				
8 W	0409	3.6	110	23 Th	0406	3.0	90	8 Sa	0505	2.6	80	23 Su	0529	1.6	50	8 Tu	0551	1.6	50	23 W	0010	5.9	180
	1009	5.6	170		1015	6.6	200		1119	5.6	170		1159	6.2	190		1231	5.6	170		0634	1.0	30
	1707	1.3	40		1656	0.3	10		1740	1.6	50		1759	1.6	50		1806	2.6	80		1330	5.2	160
	2357	4.9	150		2346	5.6	170														1845	3.3	100
9 Th	0449	3.3	100	24 F	0459	2.6	80	9 Su	0014	5.2	160	24 M	0022	5.6	170	9 W	0017	5.6	170	24 Th	0041	5.6	170
	1049	5.6	170		1112	6.6	200		0542	2.6	80		0615	1.3	40		0630	1.6	50		0721	1.3	40
	1740	1.3	40		1742	0.7	20		1200	5.6	170		1251	5.9	180		1317	5.2	160		1427	4.9	150
									1808	2.0	60		1840	2.3	70		1840	3.0	90		1923	3.6	110
10 F	0028	4.9	150	25 Sa	0027	5.6	170	10 M	0040	5.2	160	25 Tu	0057	5.6	170	10 Th	0045	5.6	170	25 F	0114	5.6	170
	0528	3.3	100		0549	2.3	70		0619	2.3	70		0701	1.3	40		0713	1.3	40		0817	1.6	50
	1128	5.6	170		1207	6.2	190		1243	5.2	160		1347	5.6	170		1408	4.9	150		1531	4.9	150
	1810	1.6	50		1827	1.0	30		1839	2.3	70		1920	2.6	80		1916	3.3	100		2005	3.6	110
11 Sa	0058	4.9	150	26 Su	0107	5.6	170	11 Tu	0105	5.2	160	26 W	0132	5.6	170	11 F	0117	5.6	170	26 Sa	0151	5.2	160
	0607	3.3	100		0639	2.0	60		0658	2.0	60		0751	1.6	50		0803	1.6	50		0930	2.0	60
	1209	5.2	160		1304	5.9	180		1328	5.2	160		1448	4.9	150		1511	4.9	150		1639	4.6	140
	1841	1.6	50		1911	1.6	50		1911	2.6	80		2001	3.3	100		○	1957	3.6		110	●	2058	3.9	120
12 Su	0127	4.9	150	27 M	0146	5.6	170	12 W	0132	5.2	160	27 Th	0207	5.6	170	12 Sa	0156	5.6	170	27 Su	0240	5.2	160
	0646	3.0	90		0729	2.0	60		0740	2.0	60		0851	1.6	50		0903	1.6	50		1051	2.3	70
	1252	5.2	160		1403	5.6	170		1419	4.9	150		1557	4.9	150		1625	4.6	140		1746	4.6	140
	1912	2.0	60		1956	2.3	70		1946	3.0	90		○	2046	3.6		110	2049	3.6		110	2212	3.9	120
13 M	0155	4.9	150	28 Tu	0224	5.6	170	13 Th	0201	5.2	160	28 F	0247	5.2	160	13 Su	0247	5.6	170	28 M	0403	4.9	150
	0727	2.6	80		0824	1.6	50		0829	2.0	60		1007	2.0	60		1017	1.6	50		1159	2.3	70
	1339	4.9	150		1509	5.2	160		1520	4.6	140		1710	4.6	140		1741	4.6	140		1847	4.6	140
	1945	2.3	70		○	2042	2.6		80	○	2024		3.3	100	2140		3.6	110	2203		3.9	120	2331	3.9	120
14 Tu	0222	5.2	160	29 W	0304	5.6	170	14 F	0235	5.6	170	29 Sa	0341	5.2	160	14 M	0400	5.6	170	29 Tu	0538	4.9	150
	0812	2.6	80		0926	1.6	50		0927	2.0	60		1128	2.0	60		1136	1.6	50		1255	2.3	70
	1432	4.9	150		1622	4.9	150		1634	4.6	140		1823	4.6	140		1850	4.6	140		1935	4.6	140
	2021	2.6	80		2130	3.3	100		2110	3.6	110		2248	3.9	120		2328	3.6	110				
15 W	0251	5.2	160	30 Th	0346	5.2	160	15 Sa	0319	5.6	170	30 Su	0456	5.2	160	15 Tu	0536	5.6	170	30 W	0040	3.6	110
	0903	2.3	70		1039	2.0	60		1037	1.6	50		1238	2.0	60		1248	1.6	50		0650	4.9	150
	1537	4.6	140		1736	4.6	140		1752	4.6	140		1935	4.6	140		1948	4.9	150		1342	2.3	70
	2101	3.0	90		2225	3.6	110		2212	3.6	110		2359	3.9	120						2011	4.9	150

Pictou, Nova Scotia, 2009

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 Th	0135	3.3	100		16 F	0143	2.3	70		1 Su	0225	2.0	60		16 M	0306	1.3	40		1 Tu	0235	1.6	50		16 W	0341	1.3	40	
	0749	5.2	160			0811	5.6	170			0906	5.2	160			0959	5.6	170			0937	5.2	160			1046	5.2	160	
	1421	2.3	70			1413	2.3	70			1436	3.3	100			1511	3.6	110			1431	3.9	120			1526	3.9	120	
	2042	4.9	150			2034	5.6	170			2038	5.6	170			2109	5.9	180	●		2020	6.2	190			2122	6.2	190	●
2 F	0220	3.0	90		17 Sa	0235	1.6	50		2 M	0304	1.6	50		17 Tu	0349	1.0	30		2 W	0320	1.0	30		17 Th	0424	1.3	40	
	0839	5.2	160			0909	5.9	180			0953	5.6	170			1047	5.6	170			1026	5.6	170			1126	5.2	160	
	1454	2.3	70			1459	2.6	80			1513	3.3	100			1551	3.6	110			1517	3.9	120			1608	3.9	120	
	2111	5.2	160			2111	5.9	180			2111	5.9	180	○		2146	6.2	190			2107	6.6	200	○		2203	6.2	190	
3 Sa	0259	2.3	70		18 Su	0321	1.3	40		3 Tu	0344	1.3	40		18 W	0432	1.0	30		3 Th	0406	0.7	20		18 F	0504	1.3	40	
	0925	5.6	170			1002	5.9	180			1038	5.6	170			1132	5.6	170			1113	5.6	170			1203	5.2	160	
	1525	2.6	80			1540	2.6	80			1551	3.3	100			1631	3.9	120			1605	3.9	120			1649	3.9	120	
	2138	5.2	160			● 2147	5.9	180			2146	6.2	190			2222	6.2	190			2154	6.6	200			2241	6.2	190	
4 Su	0335	2.0	60		19 M	0405	1.0	30		4 W	0424	1.0	30		19 Th	0514	1.3	40		4 F	0452	0.7	20		19 Sa	0541	1.6	50	
	1009	5.6	170			1051	5.9	180			1124	5.6	170			1216	5.6	170			1200	5.6	170			1237	5.2	160	
	1555	2.6	80			1620	3.0	90			1630	3.6	110			1709	3.9	120			1653	3.6	110			1728	3.9	120	
	2206	5.6	170			2222	5.9	180			2222	6.2	190			2257	6.2	190			2244	6.6	200			2317	5.9	180	
5 M	0411	1.6	50		20 Tu	0447	1.0	30		5 Th	0506	0.7	20		20 F	0555	1.3	40		5 Sa	0539	0.7	20		20 Su	0615	1.6	50	
	1052	5.6	170			1139	5.9	180			1211	5.6	170			1259	5.2	160			1248	5.9	180			1310	5.2	160	
	1627	2.6	80			1658	3.3	100			1711	3.6	110			1748	3.9	120			1744	3.6	110			1808	3.9	120	
	2234	5.6	170			2255	5.9	180			2301	6.2	190			2331	5.9	180			2335	6.6	200			2354	5.9	180	
6 Tu	0448	1.3	40		21 W	0529	1.0	30		6 F	0551	0.7	20		21 Sa	0636	1.6	50		6 Su	0628	1.0	30		21 M	0648	2.0	60	
	1135	5.6	170			1226	5.6	170			1301	5.6	170			1342	5.2	160			1337	5.9	180			1342	5.2	160	
	1701	3.0	90			1736	3.6	110			1755	3.6	110			1828	3.9	120			1836	3.6	110			1847	3.6	110	
	2303	5.9	180			2328	5.9	180			2343	6.2	190																
7 W	0526	1.0	30		22 Th	0611	1.3	40		7 Sa	0639	1.0	30		22 Su	0005	5.9	180		7 M	0031	6.2	190		22 Tu	0032	5.6	170	
	1220	5.6	170			1315	5.2	160			1355	5.6	170			0718	2.0	60			0718	1.3	40			0719	2.3	70	
	1736	3.3	100			1813	3.6	110			1844	3.6	110			1424	5.2	160			1426	5.6	170			1411	5.2	160	
	2334	5.9	180			2359	5.9	180								1910	3.9	120			1933	3.3	100			1930	3.6	110	
8 Th	0607	1.0	30		23 F	0657	1.6	50		8 Su	0029	6.2	190		23 M	0043	5.6	170		8 Tu	0133	5.9	180		23 W	0116	5.2	160	
	1308	5.2	160			1406	5.2	160			0732	1.3	40			0759	2.3	70			0811	1.6	50			0751	2.6	80	
	1813	3.3	100			1852	3.9	120			1453	5.2	160			1506	4.9	150			1515	5.6	170			1440	5.2	160	
											1940	3.9	120			1958	3.9	120			2034	3.3	100	○		2016	3.3	100	
9 F	0007	5.9	180		24 Sa	0032	5.6	170		9 M	0126	5.9	180		24 Tu	0128	5.2	160		9 W	0246	5.6	170		24 Th	0209	4.9	150	
	0653	1.0	30			0747	2.0	60			0831	1.6	50			0842	2.6	80			0906	2.3	70			0825	3.0	90	
	1403	5.2	160			1501	4.9	150			1552	5.2	160			1547	4.9	150			1602	5.6	170			1509	5.2	160	
	1855	3.6	110			1934	3.9	120			● 2046	3.6	110			● 2054	3.9	120			2143	3.0	90			● 2109	3.3	100	
10 Sa	0045	5.9	180		25 Su	0109	5.6	170		10 Tu	0241	5.6	170		25 W	0228	4.9	150		10 Th	0411	5.2	160		25 F	0315	4.6	140	
	0745	1.3	40			0845	2.3	70			0936	2.0	60			0926	3.0	90			1004	2.6	80			0903	3.3	100	
	1506	4.9	150			1559	4.9	150			1647	5.2	160			1624	4.9	150			1649	5.6	170			1540	5.6	170	
	1943	3.6	110			● 2026	3.9	120			2201	3.6	110			2159	3.6	110			2257	2.6	80			2208	3.0	90	
11 Su	0131	5.9	180		26 M	0154	5.2	160		11 W	0415	5.2	160		26 Th	0355	4.6	140		11 F	0536	4.9	150		26 Sa	0441	4.6	140	
	0847	1.6	50			0950	2.6	80			1042	2.3	70			1014	3.0	90			1104	3.3	100			0947	3.6	110	
	1615	4.9	150			1653	4.9	150			1738	5.6	170			1700	5.2	160			1734	5.6	170			1615	5.6	170	
	2046	3.9	120			2134	3.9	120			2319	3.0	90			2307	3.3	100								2312	2.6	80	
12 M	0232	5.6	170		27 Tu	0303	4.9	150		12 Th	0545	5.2	160		27 F	0531	4.6	140		12 Sa	0008	2.3	70		27 Su	0606	4.6	140	
	0959	1.6	50			1052	2.6	80			1147	2.6	80			1106	3.3	100			0655	5.2	160			1042	3.6	110	
	1721	4.9	150			1742	4.9	150			1825	5.6	170			1736	5.2	160			1205	3.6	110			1658	5.6	170	
	2206	3.9	120			2252	3.9	120													1820	5.9	180						
13 Tu	0406	5.6	170		28 W	0450	4.9	150		13 F	0029	2.6	80		28 Sa	0008	3.0	90		13 Su	0110	2.0	60		28 M	0015	2.3	70	
	1114	2.0	60			1147	3.0	90			0702	5.2	160			0647	4.9	150			0806	5.2	160			0720	4.6	140	
	1820	5.2	160			1824	4.9	150			1246	3.0	90			1159	3.6	110			1302	3.9	120			1145	3.9	120	
	2328	3.6	110								1908	5.6	170			1813	5.6	170			1907	5.9	180			1747	5.9	180	
14 W	0545	5.6	170		29 Th	0003	3.6	110		14 Sa	0128	2.0	60		29 Su	0101	2.3	70		14 M	0206	1.6	50		29 Tu	0115	2.0	60	
	1222	2.0	60			0615	4.9	150			0809	5.6	170			0750	4.9	150			0908	5.2	160			0826	4.9	150	
	1910	5.2	160			1236	3.0	90			1340	3.3	100			1253	3.6	110			1354	3.9	120			1251	3.9	120	
						1900	4.9	150			1950	5.9	180			1853	5.6	170			1954	5.9	180			1843	6.2	190	
15 Th	0042	3.0	90		30 F	0059	3.0	90		15 Su	0219	1.6	50																

Harrington Harbour, Quebec, 2009

Times and Heights of High and Low Waters

April				May				June							
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height		
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm	
1 W	0240	5.6	170			16 Th	0319	4.9	150			1 M	0530	4.9	150
	0909	2.3	70				0950	2.6	80				1146	1.6	50
	1417	4.3	130				1433	3.9	120				1811	4.9	150
	2043	1.3	40				2104	2.0	60				2318	2.3	70
2 Th	0356	5.2	160			17 F	0430	4.6	140			2 Tu	0017	2.0	60
	1028	2.6	80				1059	2.6	80				0627	4.9	150
	1526	3.9	120				1546	3.6	110				1239	1.6	50
	2159	1.3	40				2223	2.0	60				1917	5.2	160
3 F	0526	5.2	160			18 Sa	0546	4.6	140			3 W	0127	2.0	60
	1153	2.6	80				1209	2.6	80				0720	4.6	140
	1708	3.9	120				1731	3.6	110				1329	1.3	40
	2329	1.6	50				2349	2.3	70				2014	5.6	170
4 Sa	0647	5.2	160			19 Su	0648	4.6	140			4 Th	0229	2.0	60
	1309	2.3	70				1308	2.3	70				0808	4.3	130
	1848	4.3	130				1856	3.9	120				1416	1.3	40
													2103	5.9	180
5 Su	0052	1.3	40			20 M	0101	2.0	60			5 F	0321	2.0	60
	0748	5.6	170				0736	4.9	150				0852	4.3	130
	1406	2.0	60				1353	2.0	60				1459	1.0	30
	1957	4.6	140				1952	4.3	130				2148	5.9	180
6 M	0159	1.3	40			21 Tu	0157	1.6	50			6 Sa	0408	2.0	60
	0836	5.6	170				0816	4.9	150				0932	4.3	130
	1450	1.3	40				1429	1.6	50				1540	1.0	30
	2050	5.2	160				2037	4.9	150				2230	6.2	190
7 Tu	0255	1.0	30			22 W	0244	1.6	50			7 Su	0450	2.0	60
	0918	5.6	170				0851	4.9	150				1009	4.3	130
	1528	1.0	30				1501	1.3	40				1618	1.0	30
	2135	5.6	170				2117	5.6	170				2309	6.2	190
8 W	0344	1.0	30			23 Th	0327	1.3	40			8 M	0530	2.0	60
	0955	5.6	170				0924	5.2	160				1046	4.6	140
	1602	1.0	30				1532	1.0	30				1654	1.0	30
	2216	5.9	180				2155	5.9	180				2347	6.2	190
9 Th	0429	1.0	30			24 F	0409	1.3	40			9 Tu	0609	2.0	60
	1029	5.2	160				0958	5.2	160				1122	4.6	140
	1636	0.7	20				1604	0.7	20				1730	1.0	30
	2255	6.2	190				2234	6.2	190						
10 F	0511	1.0	30			25 Sa	0451	1.3	40			10 W	0024	5.9	180
	1101	4.9	150				1033	4.9	150				0646	2.3	70
	1708	0.7	20				1639	0.3	10				1158	4.6	140
	2334	6.2	190				2315	6.6	200				1806	1.0	30
11 Sa	0551	1.3	40			26 Su	0534	1.3	40			11 Th	0059	5.9	180
	1132	4.9	150				1110	4.9	150				0723	2.3	70
	1740	0.7	20				1716	0.3	10				1237	4.6	140
							2358	6.6	200				1843	1.3	40
12 Su	0013	6.2	190			27 M	0620	1.3	40			12 F	0136	5.6	170
	0632	1.6	50				1150	4.9	150				0801	2.3	70
	1203	4.6	140				1757	0.3	10				1318	4.6	140
	1813	0.7	20										1923	1.6	50
13 M	0053	5.9	180			28 Tu	0045	6.6	200			13 Sa	0214	5.6	170
	0714	2.0	60				0710	1.6	50				0841	2.3	70
	1233	4.6	140				1233	4.6	140				1403	4.3	130
	1846	1.0	30				1843	0.3	10				2009	1.6	50
14 Tu	0135	5.6	170			29 W	0138	6.2	190			14 Su	0255	5.2	160
	0758	2.3	70				0807	2.0	60				0922	2.3	70
	1306	4.3	130				1322	4.6	140				1457	4.3	130
	1923	1.3	40				1936	0.7	20				2103	2.0	60
15 W	0222	5.2	160			30 Th	0239	5.9	180			15 M	0339	4.9	150
	0849	2.6	80				0910	2.0	60				1006	2.0	60
	1344	3.9	120				1421	4.3	130				1559	4.3	130
	2006	1.6	50				2039	1.0	30				2207	2.3	70
16 Th	0247	5.2	160			31 F	0247	5.2	160			16 Tu	0440	4.9	150
	0918	2.3	70				0918	2.3	70				1059	1.6	50
	1421	3.9	120				1421	3.9	120				1737	5.2	160
	2035	2.0	60				2035	2.0	60				2350	2.3	70
17 F	0330	5.9	180			1 Sa	0350	5.6	170			17 W	0427	4.9	150
	0954	2.0	60				1019	2.3	70				1052	2.0	60
	1534	4.6	140				1537	3.9	120				1711	4.6	140
	2145	1.6	50				2156	1.3	40				2318	2.3	70
18 Sa	0438	4.9	150			2 Su	0505	5.2	160			18 Th	0520	4.6	140
	1105	2.3	70				1129	2.0	60				1141	1.6	50
	1644	3.9	120				1711	4.3	130				1820	4.9	150
	2254	2.3	70				2319	1.6	50						
19 M	0536	4.6	140			3 Tu	0614	5.2	160			19 F	0614	4.6	140
	1157	2.3	70				1231	2.0	60				0709	4.6	140
	1804	4.3	130				1836	4.6	140				1323	1.3	40
													1922	5.2	160
20 Tu	0008	2.3	70			4 W	0038	1.6	50			20 Th	0138	2.3	70
	0628	4.6	140				0711	5.2	160				0709	4.6	140
	1245	2.0	60				1324	1.6	50				1323	1.3	40
	1907	4.6	140				1941	4.9	150				2018	5.9	180
21 W	0114	2.0	60			5 Th	0146	1.6	50			21 F	0239	2.3	70
	0715	4.6	140				0800	4.9	150				0803	4.6	140
	1328	1.6	50				1410	1.3	40				1414	1.0	30
	1959	5.2	160				2033	5.6	170				2110	6.2	190
22 Th	0211	2.0	60			6 F	0243	1.3	40			22 Sa	0334	2.0	60
	0758	4.6	140				0843	4.9	150				0856	4.6	140
	1408	1.3	40				1450	1.0	30				1505	0.7	20
	2045	5.6	170				2118	5.9	180				2202	6.6	200
23 F	0302	1.6	50			7 Sa	0333	1.3	40			23 Su	0425	2.0	60
	0840	4.6	140				0922	4.9	150				0948	4.9	150
	1448	1.0	30				1528	1.0	30				1556	0.3	10
	2130	6.2	190				2200	6.2	190				2252	6.9	210
24 Sa	0350	1.6	50			8 M	0417	1.3	40			24 M	0515	1.6	50
	0923	4.9	150				0958	4.6	140				1038	4.9	150
	1529	0.7	20				1604	0.7	20				1647	0.0	0
	2215	6.6	200				2240	6.2	190				2342	6.9	210
25 Su	0437	1.6	50			9 Tu	0459	1.6	50			25 W	0604	1.6	50
	1006	4.9	150				1032								

Harrington Harbour, Quebec, 2009

Times and Heights of High and Low Waters

July				August				September																					
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height																
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm															
1 W	0537	4.3	130		16 Th	0418	4.6	140		1 Sa	0159	3.0	90		16 Su	0100	3.0	90		1 Tu	0314	2.6	80		16 W	0247	2.0	60	
	1155	1.6	50			1046	1.6	50			0709	3.9	120			0612	4.3	130			0843	4.6	140			0831	5.2	160	
	1851	5.2	160			1739	5.2	160			1329	1.6	50			1236	1.3	40			1452	1.6	50			1438	1.0	30	
						2355	2.6	80			2039	5.6	170			1951	5.9	180			2134	5.6	170			2116	6.2	190	
2 Th	0106	2.6	80		17 F	0521	4.3	130		2 Su	0258	2.6	80		17 M	0212	2.6	80		2 W	0347	2.3	70		17 Th	0329	1.6	50	
	0637	4.3	130			1147	1.6	50			0811	4.3	130			0732	4.3	130			0921	4.9	150			0921	5.6	170	
	1253	1.6	50			1853	5.6	170			1424	1.6	50			1345	1.0	30			1531	1.3	40			1529	0.7	20	
	1956	5.6	170								2125	5.6	170			2049	6.2	190			2204	5.9	180			2157	6.2	190	
3 F	0214	2.6	80		18 Sa	0113	2.6	80		3 M	0342	2.6	80		18 Tu	0308	2.3	70		3 Th	0415	2.0	60		18 F	0407	1.3	40	
	0735	4.3	130			0631	4.3	130			0859	4.3	130			0836	4.9	150			0956	5.2	160			1006	6.2	190	
	1349	1.6	50			1252	1.3	40			1510	1.3	40			1445	0.7	20			1605	1.3	40			1617	0.7	20	
	2051	5.6	170			2000	5.9	180			2203	5.9	180			2138	6.6	200			2232	5.9	180		●	2235	6.2	190	
4 Sa	0311	2.6	80		19 Su	0222	2.6	80		4 Tu	0419	2.3	70		19 W	0355	1.6	50		4 F	0442	1.6	50		19 Sa	0443	1.0	30	
	0827	4.3	130			0740	4.3	130			0939	4.6	140			0930	5.2	160			1029	5.2	160			1050	6.6	200	
	1439	1.3	40			1354	1.0	30			1550	1.3	40			1538	0.3	10			1639	1.0	30			1703	0.7	20	
	2139	5.9	180			2059	6.2	190			2236	5.9	180			2222	6.9	210		○	2259	5.9	180			2311	5.9	180	
5 Su	0358	2.3	70		20 M	0321	2.3	70		5 W	0451	2.3	70		20 Th	0437	1.3	40		5 Sa	0508	1.6	50		20 Su	0518	1.0	30	
	0913	4.3	130			0841	4.6	140			1016	4.9	150			1019	5.6	170			1103	5.6	170			1132	6.6	200	
	1524	1.3	40			1453	0.7	20			1625	1.0	30			1628	0.3	10			1712	1.0	30			1748	1.0	30	
	2220	5.9	180			2152	6.6	200		○	2306	5.9	180		●	2304	6.6	200			2325	5.6	170			2346	5.6	170	
6 M	0439	2.3	70		21 Tu	0413	2.0	60		6 Th	0520	2.0	60		21 F	0516	1.3	40		6 Su	0534	1.3	40		21 M	0553	1.0	30	
	0953	4.6	140			0937	4.9	150			1050	4.9	150			1106	5.9	180			1137	5.9	180			1214	6.6	200	
	1604	1.0	30			1547	0.3	10			1659	1.0	30			1716	0.3	10			1746	1.3	40			1832	1.3	40	
	2257	6.2	190		●	2241	6.9	210			2335	5.9	180			2343	6.6	200			2352	5.6	170						
7 Tu	0515	2.3	70		22 W	0500	1.6	50		7 F	0548	2.0	60		22 Sa	0554	1.0	30		7 M	0601	1.3	40		22 Tu	0629	1.0	30	
	1031	4.6	140			1029	5.2	160			1124	5.2	160			1151	6.2	190			1212	5.9	180			1258	6.2	190	
	1640	1.0	30			1638	0.0	0			1732	1.0	30			1803	0.7	20			1823	1.3	40			1919	2.0	60	
	2331	6.2	190			2327	6.9	210																					
8 W	0549	2.3	70		23 Th	0545	1.3	40		8 Sa	0002	5.9	180		23 Su	0021	6.2	190		8 Tu	0021	5.2	160		23 W	0053	4.9	150	
	1107	4.6	140			1119	5.6	170			0616	1.6	50			0631	1.0	30			0630	1.3	40			0706	1.3	40	
	1716	1.0	30			1728	0.0	0			1159	5.2	160			1236	6.2	190			1250	5.9	180			1345	5.9	180	
											1806	1.3	40			1851	1.0	30			1904	1.6	50			2009	2.3	70	
9 Th	0004	5.9	180		24 F	0011	6.9	210		9 Su	0030	5.9	180		24 M	0057	5.6	170		9 W	0052	5.2	160		24 Th	0128	4.6	140	
	0622	2.0	60			0628	1.3	40			0644	1.6	50			0709	1.0	30			0703	1.3	40			0748	1.6	50	
	1143	4.9	150			1209	5.6	170			1235	5.2	160			1323	5.9	180			1332	5.9	180			1440	5.6	170	
	1750	1.0	30			1818	0.3	10			1842	1.3	40			1940	1.6	50			1950	2.0	60			2107	2.6	80	
10 F	0035	5.9	180		25 Sa	0054	6.6	200		10 M	0059	5.6	170		25 Tu	0133	5.2	160		10 Th	0127	4.9	150		25 F	0208	4.3	130	
	0654	2.0	60			0709	1.3	40			0713	1.6	50			0748	1.3	40			0742	1.3	40			0839	2.0	60	
	1220	4.9	150			1258	5.6	170			1314	5.2	160			1413	5.9	180			1423	5.6	170			1551	5.2	160	
	1825	1.3	40			1909	0.7	20			1921	1.6	50			2032	2.0	60			2048	2.6	80			2218	3.0	90	
11 Sa	0106	5.9	180		26 Su	0135	5.9	180		11 Tu	0129	5.2	160		26 W	0210	4.6	140		11 F	0208	4.6	140		26 Sa	0302	3.9	120	
	0726	2.0	60			0751	1.3	40			0745	1.6	50			0831	1.6	50			0831	1.6	50			0950	2.3	70	
	1258	4.9	150			1349	5.6	170			1356	5.2	160			1511	5.2	160			1530	5.2	160			1719	4.9	150	
	1903	1.3	40			2002	1.3	40			2007	2.0	60			2134	2.6	80		○	2201	3.0	90		○	2340	3.0	90	
12 Su	0137	5.6	170		27 M	0216	5.6	170		12 W	0202	4.9	150		27 Th	0251	4.3	130		12 Sa	0305	4.3	130		27 Su	0432	3.9	120	
	0758	2.0	60			0833	1.3	40			0821	1.6	50			0924	2.0	60			0939	1.6	50			1117	2.3	70	
	1340	4.9	150			1444	5.6	170			1446	5.2	160			1626	5.2	160			1659	5.2	160			1839	4.9	150	
	1944	1.6	50			2059	2.0	60			2102	2.3	70		○	2249	3.0	90			2328	3.0	90						
13 M	0211	5.2	160		28 Tu	0259	4.9	150		13 Th	0241	4.6	140		28 F	0346	3.9	120											

Harrington Harbour, Quebec, 2009

Times and Heights of High and Low Waters

October			November			December																	
Time	Height		Time	Height		Time	Height		Time	Height													
	h	m	ft	cm	h	m	ft	cm	h	m	ft	cm											
1 Th	0304	2.0	60	16 F	0257	1.3	40	1 Su	0315	1.3	40	16 M	0344	1.0	30	1 Tu	0313	1.0	30	16 W	0406	1.0	30
	0857	4.9	150		0909	5.9	180		0941	6.2	190		1022	6.6	200		0959	6.6	200		1056	6.6	200
	1506	1.6	50		1520	1.0	30		1556	1.6	50		1642	1.6	50		1621	2.0	60		1715	2.3	70
	2123	5.6	170		2128	5.9	180		2141	5.2	160		2215	4.9	150		2149	4.9	150		2234	4.9	150
2 F	0332	2.0	60	17 Sa	0334	1.0	30	2 M	0346	1.0	30	17 Tu	0421	1.0	30	2 W	0354	0.7	20	17 Th	0444	1.0	30
	0932	5.6	170		0952	6.6	200		1018	6.6	200		1103	6.9	210		1043	6.9	210		1135	6.6	200
	1542	1.3	40		1607	1.0	30		1636	1.6	50		1724	2.0	60		1706	2.0	60		1753	2.3	70
	2151	5.6	170		2205	5.6	170		2215	5.2	160		2251	4.9	150		2231	5.2	160		2311	4.9	150
3 Sa	0359	1.6	50	18 Su	0410	1.0	30	3 Tu	0419	1.0	30	18 W	0458	1.0	30	3 Th	0437	0.7	20	18 F	0520	1.0	30
	1006	5.9	180		1034	6.6	200		1056	6.6	200		1144	6.6	200		1129	7.2	220		1211	6.6	200
	1617	1.3	40		1651	1.3	40		1716	1.6	50		1805	2.0	60		1752	2.0	60		1830	2.3	70
	2219	5.6	170		2240	5.2	160		2251	5.2	160		2326	4.9	150		2316	5.2	160		2347	4.9	150
4 Su	0426	1.3	40	19 M	0446	1.0	30	4 W	0455	0.7	20	19 Th	0535	1.0	30	4 F	0523	0.3	10	19 Sa	0556	1.3	40
	1040	6.2	190		1115	6.9	210		1137	6.9	210		1225	6.6	200		1216	6.9	210		1245	6.2	190
	1653	1.3	40		1734	1.3	40		1759	2.0	60		1847	2.3	70		1840	2.0	60		1906	2.3	70
	2248	5.6	170		2315	5.2	160		2329	5.2	160												
5 M	0453	1.0	30	20 Tu	0521	1.0	30	5 Th	0534	0.7	20	20 F	0602	4.9	150	5 Sa	0603	5.2	160	20 Su	0624	4.9	150
	1115	6.2	190		1156	6.6	200		1222	6.6	200		0612	1.3	40		0611	0.7	20		0632	1.3	40
	1730	1.3	40		1817	1.6	50		1847	2.0	60		1306	6.2	190		1306	6.9	210		1320	5.9	180
	2318	5.2	160		2348	4.9	150						1930	2.6	80		1930	2.0	60		1942	2.3	70
6 Tu	0523	1.0	30	21 W	0557	1.0	30	6 F	0611	4.9	150	21 Sa	0639	4.6	140	6 Su	0654	5.2	160	21 M	0710	4.9	150
	1152	6.2	190		1239	6.2	190		0618	1.0	30		0651	1.6	50		0704	1.0	30		0710	1.6	50
	1809	1.6	50		1902	2.3	70		1312	6.6	200		1348	5.9	180		1357	6.6	200		1354	5.9	180
	2350	5.2	160						1940	2.3	70		2015	2.6	80		2023	2.0	60		2018	2.3	70
7 W	0556	1.0	30	22 Th	0622	4.6	140	7 Sa	0658	4.9	150	22 Su	0734	2.0	60	7 M	0802	1.3	40	22 Tu	0845	4.9	150
	1232	6.2	190		0634	1.3	40		0709	1.0	30		0734	2.0	60		0802	1.3	40		0845	4.9	150
	1853	2.0	60		1324	5.9	180		1409	6.2	190		1434	5.6	170		1452	6.2	190		1431	5.6	170
					1949	2.6	80		2040	2.3	70		2102	2.6	80		2118	2.0	60		2057	2.3	70
8 Th	0633	1.0	30	23 F	0659	4.6	140	8 Su	0715	4.6	140	23 M	0825	2.3	70	8 Tu	0908	1.6	50	23 W	0940	2.3	70
	1318	6.2	190		0714	1.6	50		0809	1.3	40		0825	2.3	70		0908	1.6	50		0940	2.3	70
	1944	2.3	70		1414	5.6	170		1515	5.9	180		1524	5.2	160		1550	5.9	180		1511	5.2	160
					2042	2.6	80		2146	2.6	80		2153	2.6	80		2214	2.0	60		2139	2.3	70
9 F	0106	4.6	140	24 Sa	0140	4.3	130	9 M	0305	4.6	140	24 Tu	0312	4.3	130	9 W	0413	4.9	150	24 Th	0533	4.6	140
	0718	1.3	40		0802	2.0	60		0922	1.6	50		0928	2.6	80		1022	2.0	60		0940	2.6	80
	1413	5.9	180		1513	5.2	160		1627	5.9	180		1620	5.2	160		1651	5.6	170		1557	4.9	150
	2045	2.6	80		2143	3.0	90		2253	2.3	70		2246	2.6	80		2311	2.0	60		2225	2.3	70
10 Sa	0154	4.6	140	25 Su	0234	4.3	130	10 Tu	0434	4.6	140	25 W	0430	4.3	130	10 Th	0534	5.2	160	25 F	0644	4.9	150
	0814	1.6	50		0905	2.3	70		1044	2.0	60		1042	2.6	80		1141	2.3	70		1051	3.0	90
	1524	5.6	170		1623	5.2	160		1737	5.6	170		1717	4.9	150		1752	5.2	160		1650	4.6	140
	2158	2.6	80		2250	3.0	90		2356	2.3	70		2339	2.6	80						2316	2.3	70
11 Su	0301	4.3	130	26 M	0352	3.9	120	11 W	0602	4.9	150	26 Th	0551	4.6	140	11 F	0608	2.0	60	26 Sa	0559	4.9	150
	0929	1.6	50		1025	2.6	80		1205	2.0	60		1157	2.6	80		0648	5.6	170		1210	3.0	90
	1650	5.6	170		1736	4.9	150		1838	5.6	170		1812	4.9	150		1257	2.3	70		1749	4.6	140
	2319	2.6	80		2355	3.0	90								1851		4.9	150					
12 M	0437	4.3	130	27 Tu	0532	4.3	130	12 Th	0651	2.0	60	27 F	0628	2.3	70	12 Sa	0751	5.9	180	27 Su	0811	2.0	60
	1057	2.0	60		1148	2.6	80		0712	5.2	160		0657	4.9	150		0751	5.9	180		0708	5.2	160
	1811	5.6	170		1836	4.9	150		1316	2.0	60		1304	2.6	80		1405	2.3	70		1323	3.0	90
									1931	5.2	160		1900	4.9	150		1946	4.6	140		1849	4.6	140
13 Tu	0031	2.3	70	28 W	0051	2.6	80	13 F	0140	1.6	50	28 Sa	0113	2.0	60	13 Su	0154	1.6	50	28 M	0105	1.6	50
	0615	4.6	140		0650	4.6	140		0808	5.9	180		0749	5.2	160		0845	6.2	190		0806	5.9	180
	1220	1.6	50		1256	2.3	70		1417	2.0	60		1401	2.3	70		1502	2.3	70		1426	2.6	80
	1914	5.9	180		1923	4.9	150		2017	5.2	160		1944	4.9	150		2034	4.6	140		1946	4.6	140
14 W	0129	2.0	60	29 Th	0136	2.3	70	14 Sa	0224	1.3	40	29 Su	0154	1.6	50	14 M	0242	1.3	40	29 Tu	0158	1.3	40
	0727	4.9	150		0744	4.9	150		0856	6.2	190		0834	5.9	180		0932	6.2	190		0858	6.2	190
	1330	1.6	50		1351	2.3	70		1510	1.6	50		1451	2.3	70		1551	2.3	70		1520	2.3	70
	2004	5.9	180		2002	5.2	160		2059	5.2	160		2026	4.9	150		2118	4.6	140		2040	4.9	150
15 Th	0216	1.6	50	30 F	0212	2.0	60	15 Su	0305	1.0	30	30 M	0233	1.3	40	15 Tu	0325	1.3	40	30 W	0249	1.0	30
	0822	5.6	170		0826	5.2	160		0940	6.6	200		0917	6.2	190		1016	6.6	200		0946	6.6	200
	1428	1.3	40		1436	2.0	60		1558	1.6	50		1537	2.0	60		1635	2.3	70		1608	2.3	70
	2048	5.9	180		2036	5.2	160		2138	4.9	150		2107	4.9	150		2157	4.9	150		2130	4.9	150
			31 Sa	0244	1.6	50																	
				0904	5.9																		

Quebec, Quebec, 2009

Times and Heights of High and Low Waters

January				February				March																					
Time	Height			Time	Height			Time	Height			Time	Height																
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm		h	m	ft	cm										
1 Th	0405	1.6	50		16 F	0446	1.0	30		1 Su	0442	1.0	30		16 M	0521	2.0	60		1 Su	0344	1.3	40		16 M	0407	2.0	60	
	0920	14.4	440			0954	15.4	470			0955	15.7	480			1058	15.1	460			0845	17.1	520			0932	16.4	500	
	1604	2.0	60			1704	1.3	40			1708	1.0	30			1815	2.0	60			1613	0.7	20			1652	2.0	60	
	2123	15.4	470			2216	15.7	480			2224	14.4	440			2336	12.5	380			2117	15.4	470			2211	13.8	420	
2 F	0436	1.6	50		17 Sa	0528	1.6	50		2 M	0518	1.3	40		17 Tu	0558	3.0	90		2 M	0417	1.3	40		17 Tu	0432	2.6	80	
	0957	14.4	440			1043	15.1	460			1042	15.7	480			1156	14.1	430			0924	17.1	520			1019	15.4	470	
	1643	2.0	60			1755	1.3	40			1756	1.3	40			1923	2.6	80			1654	1.0	30			1737	2.6	80	
	2206	15.1	460			2310	14.4	440			2321	13.1	400								2205	14.1	430			2305	12.5	380	
3 Sa	0510	1.6	50		18 Su	0613	2.0	60		3 Tu	0603	1.6	50		18 W	0041	11.2	340		3 Tu	0455	1.6	50		18 W	0501	3.3	100	
	1037	14.4	440			1137	14.8	450			1143	15.4	470			0652	3.6	110			1013	16.4	500			1115	14.1	430	
	1726	2.0	60			1854	2.0	60			1859	2.0	60			1301	13.1	400			1743	1.6	50			1837	3.3	100	
	2256	14.4	440													2039	2.6	80			2304	13.1	400						
4 Su	0549	1.6	50		19 M	0011	12.8	390		4 W	0031	12.1	370		19 Th	0155	10.5	320		4 W	0540	2.3	70		19 Th	0007	11.2	340	
	1125	14.8	450			0706	2.6	80			0700	2.3	70			0830	3.9	120			1118	15.4	470			0541	3.9	120	
	1817	2.0	60			1236	14.1	430			1254	15.1	460			1412	13.1	400			1848	2.0	60			1220	13.1	400	
	2355	13.5	410			2003	2.0	60			2024	2.0	60			2149	2.3	70								1958	3.6	110	
5 M	0637	2.0	60		20 Tu	0117	11.8	360		5 Th	0147	11.8	360		20 F	0313	10.5	320		5 Th	0015	11.8	360		20 F	0117	10.5	320	
	1223	14.8	450			0810	3.0	90			0824	2.6	80			0945	3.6	110			0641	3.0	90			0640	4.6	140	
	1924	2.0	60			1341	13.8	420			1408	15.1	460			1519	13.1	400			1234	14.8	450			1331	12.8	390	
						2112	2.0	60			2145	2.0	60			2247	2.0	60			2013	2.3	70			2111	3.3	100	
6 Tu	0102	13.1	400		21 W	0229	11.2	340		6 F	0300	11.8	360		21 Sa	0415	11.2	340		6 F	0131	11.5	350		21 Sa	0229	10.5	320	
	0738	2.3	70			0915	3.0	90			0951	2.6	80			1044	3.0	90			0817	3.3	100			0907	4.3	130	
	1326	15.4	470			1446	13.8	420			1516	15.7	480			1615	13.8	420			1351	14.8	450			1440	13.1	400	
	2046	2.0	60			2216	1.6	50			2254	1.3	40			2335	1.3	40			2131	2.0	60			2210	2.6	80	
7 W	0211	12.8	390		22 Th	0340	11.2	340		7 Sa	0406	12.5	380		22 Su	0458	12.1	370		7 Sa	0245	11.8	360		22 Su	0331	11.5	350	
	0853	2.3	70			1015	2.6	80			1101	2.0	60			1135	2.3	70			0942	3.0	90			1014	3.3	100	
	1431	16.1	490			1546	14.1	430			1618	16.4	500			1659	14.8	450			1502	15.1	460			1539	13.8	420	
	2201	1.6	50			2312	1.3	40			2354	1.0	30								2237	1.3	40			2258	2.0	60	
8 Th	0318	12.8	390		23 F	0438	11.8	360		8 Su	0503	13.5	410		23 M	0018	1.3	40		8 Su	0350	12.8	390		23 M	0417	12.8	390	
	1007	2.3	70			1108	2.3	70			1201	1.3	40			0533	13.5	410			1049	2.0	60			1106	2.6	80	
	1533	16.7	510			1637	14.4	440			1713	17.1	520			1221	1.6	50			1605	15.7	480			1627	14.8	450	
	2308	1.3	40													1738	15.4	470			2333	1.0	30			2340	1.6	50	
9 F	0420	13.5	410		24 Sa	0001	1.3	40		9 M	0047	0.7	20		24 Tu	0056	1.0	30		9 M	0444	14.1	430		24 Tu	0454	14.1	430	
	1112	2.0	60			0523	12.5	380			0552	14.4	440			0606	14.4	440			1147	1.3	40			1153	1.6	50	
	1631	17.4	530			1157	2.0	60			1255	1.0	30			1303	1.3	40			1658	16.4	500			1708	15.4	470	
						1720	15.1	460			1803	17.4	530			1814	16.1	490											
10 Sa	0009	1.0	30		25 Su	0045	1.3	40		10 Tu	0134	0.3	10		25 W	0132	1.0	30		10 Tu	0023	0.7	20		25 W	0019	1.6	50	
	0516	14.1	430			0559	13.1	400			0636	15.4	470			0638	15.4	470			0530	15.1	460			0528	15.4	470	
	1212	1.6	50			1242	2.0	60			1344	0.7	20			1343	1.0	30			1238	0.7	20			1236	1.3	40	
	1725	17.7	540			1759	15.4	470			1848	17.7	540			1850	16.4	500			1745	17.1	520			1746	16.1	490	
11 Su	0104	0.7	20		26 M	0125	1.3	40		11 W	0217	0.3	10		26 Th	0206	1.0	30		11 W	0107	0.7	20		26 Th	0057	1.6	50	
	0608	14.4	440			0635	13.8	420			0717	16.1	490			0710	16.1	490			0611	16.1	490			0602	16.4	500	
	1307	1.3	40			1324	1.6	50			1430	0.7	20			1421	1.0	30			1325	0.7	20			1317	1.0	30	
	1816	18.0	550			1836	15.7	480			1932	17.7	540			1925	16.7	510			1829	17.4	530			1823	16.7	510	
12 M	0154	0.7	20		27 Tu	0201	1.3	40		12 Th	0257	0.7	20		27 F	0239	1.0	30		12 Th	0149	1.0	30		27 F	0133	1.6	50	
	0655	15.1	460			0708	14.4	440			0758	16.4	500			0741	16.7	510			0650	17.1	520			0635	17.4	530	
	1359	1.3	40			1403	1.6	50			1513	0.3	10			1458	0.7	20			1409	0.7	20			1357	1.0	30	
	1904	18.0	550			1912	16.1	490			2016	17.4	530			2001	16.4	500			1911	17.4	530			1900	16.7	510	
13 Tu	0241	0.7	20		28 W	0236	1.3	40		13 F	0335	0.7	20		28 Sa	0312	1.0	30		13 F	0227	1.0	30		28 Sa	0208	1.6	50	
	0741	15.4	470			0742	14.8	450			0839	16.7	510			0812	17.1	520			0729	17.4	530			0708	18.0	550	
	1447	1.0	30			1441	1.3	40			1555	0.7	20			1535	0.7	20			1451	0.7	20			1437	1.0	30	
	1951	17.7	540			1948	16.4	500			2101	16.7	510			2037	16.1	490			1953	17.1	520			1938	16.7	510	
14 W	0324	0.7	20		29 Th	0308	1.0	30		14 Sa	0412	1.0	30		14 Sa	0303	1.3	40		14 Sa	0303	1.3	40		29 Su	0244	1.6	50	
	0825	15.4	470			0814	15.4	470			0921	16.4	500			0808	17.4	530			0743	18.4	560						
	1533	1.0	30			1517	1.3	40			1638	1.0	30			1531	1.0	30			1517	1.0	30						
	2038	17.4	530			2023	16.1	490			2148	15.4	470			2036	16.4	500			2019	16.1	490						
15 Th	0405	0.7	20		30 F	0339	1.0	30		15 Su	0447																		

Quebec, Quebec, 2009

Times and Heights of High and Low Waters

April				May				June																					
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height																
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm															
1 W	0440	2.3	70		16 Th	0426	3.6	110		1 F	0531	3.3	100		16 Sa	0449	3.6	110		1 M	0020	14.1	430		16 Tu	0619	3.0	90	
	0959	16.7	510			1037	14.8	450			1056	16.1	490			1059	14.1	430			0731	2.6	80			1212	13.5	410	
	1737	2.0	60			1751	3.3	100			1832	2.3	70			1759	3.0	90			1244	14.4	440			1850	2.6	80	
	2256	13.1	400			2333	11.8	360			2348	13.1	400			2351	12.5	380			2004	2.3	70						
2 Th	0530	3.0	90		17 F	0508	3.9	120		2 Sa	0641	3.6	110		17 Su	0541	3.9	120		2 Tu	0120	14.4	440		17 W	0045	14.1	430	
	1106	15.7	480			1138	13.8	420			1204	15.1	460			1159	13.8	420			0838	2.3	70			0727	3.0	90	
	1844	2.3	70			1859	3.6	110			1937	2.3	70			1857	3.3	100			1349	13.8	420			1313	13.1	400	
3 F	0004	12.1	370		18 Sa	0035	11.2	340		3 Su	0052	13.1	400		18 M	0045	12.5	380		3 W	0220	15.1	460		18 Th	0140	14.8	450	
	0641	3.6	110			0603	4.6	140			0757	3.3	100			0651	3.9	120			0940	1.6	50			0848	2.6	80	
	1221	14.8	450			1245	13.1	400			1312	14.4	440			1302	13.5	410			1453	13.8	420			1416	13.1	400	
	1959	2.6	80			2016	3.6	110			2041	2.3	70			2005	3.3	100			2157	2.0	60			2057	2.6	80	
4 Sa	0115	12.1	370		19 Su	0137	11.5	350		4 M	0155	13.8	420		19 Tu	0139	13.1	400		4 Th	0316	15.7	480		19 F	0236	15.7	480	
	0812	3.6	110			0806	4.6	140			0906	2.6	80			0831	3.9	120			1038	1.3	40			0958	2.3	70	
	1335	14.4	440			1352	13.1	400			1419	14.4	440			1403	13.5	410			1551	13.8	420			1516	13.5	410	
	2110	2.3	70			2117	3.3	100			2139	2.0	60			2106	3.0	90			2248	2.0	60			2202	2.3	70	
5 Su	0225	12.8	390		20 M	0235	12.1	370		5 Tu	0255	14.8	450		20 W	0231	14.1	430		5 F	0407	16.4	500		20 Sa	0330	16.7	510	
	0928	3.0	90			0930	3.9	120			1008	2.0	60			0940	3.0	90			1131	1.0	30			1100	1.6	50	
	1444	14.8	450			1452	13.8	420			1520	14.8	450			1459	13.8	420			1644	14.1	430			1313	13.8	420	
	2211	1.6	50			2209	3.0	90			2232	2.0	60			2159	3.0	90			2336	2.3	70			2302	2.3	70	
6 M	0326	13.8	420		21 Tu	0325	13.5	410		6 W	0348	15.7	480		21 Th	0320	15.7	480		6 Sa	0453	16.7	510		21 Su	0423	17.7	540	
	1032	2.0	60			1028	3.0	90			1103	1.3	40			1038	2.3	70			1221	1.0	30			1158	1.3	40	
	1545	15.4	470			1545	14.4	440			1615	15.1	460			1552	14.4	440			1731	14.4	440			1706	14.4	440	
	2305	1.3	40			2254	2.6	80			2320	2.0	60			2249	2.6	80								2359	2.0	60	
7 Tu	0418	15.1	460		22 W	0407	15.1	460		7 Th	0434	16.7	510		22 F	0405	17.1	520		7 Su	0021	2.3	70		22 M	0514	18.4	560	
	1127	1.3	40			1118	2.3	70			1154	1.0	30			1131	1.6	50			0536	17.1	520			1254	1.0	30	
	1638	16.1	490			1631	15.4	470			1703	15.4	470			1641	15.1	460			1307	1.3	40			1758	14.8	450	
	2353	1.3	40			2336	2.3	70								2337	2.3	70			1814	14.4	440						
8 W	0503	16.1	490		23 Th	0446	16.4	500		8 F	0006	2.0	60		23 Sa	0450	18.0	550		8 M	0103	2.6	80		23 Tu	0055	1.6	50	
	1217	1.0	30			1204	1.6	50			1241	1.0	30			1221	1.3	40			0616	17.1	520			0605	18.7	570	
	1724	16.4	500			1713	16.1	490			1747	15.7	480			1728	15.4	470			1350	1.6	50			1346	0.7	20	
																						1856	14.4	440			1849	15.1	460
9 Th	0037	1.3	40		24 F	0017	2.0	60		9 Sa	0048	2.3	70		24 Su	0025	2.3	70		9 Tu	0142	3.0	90		24 W	0148	1.6	50	
	0544	17.1	520			0524	17.7	540			0557	18.0	550			0534	18.7	570			0654	17.1	520			0655	18.7	570	
	1303	0.7	20			1249	1.3	40			1326	1.3	40			1311	1.3	40			1431	2.0	60			1436	0.7	20	
	1808	16.7	510			1754	16.4	500			1830	15.7	480			1815	15.7	480			1936	14.4	440			1937	15.1	460	
10 F	0118	1.6	50		25 Sa	0058	2.0	60		10 Su	0127	2.6	80		25 M	0113	2.0	60		10 W	0219	3.0	90		25 Th	0239	1.3	40	
	0623	17.7	540			0602	18.4	560			0636	18.0	550			0619	19.0	580			0733	16.7	510			0745	18.4	560	
	1347	1.0	30			1333	1.0	30			1409	1.6	50			1401	1.0	30			1509	2.3	70			1523	0.7	20	
	1849	16.7	510			1836	16.4	500			1912	15.4	470			1903	15.7	480			2017	14.1	430			2025	15.4	470	
11 Sa	0156	2.0	60		26 Su	0138	2.0	60		11 M	0204	3.0	90		26 Tu	0201	2.0	60		11 Th	0253	3.0	90		26 F	0329	1.3	40	
	0701	18.0	550			0640	19.0	580			0714	17.7	540			0706	19.0	580			0812	16.4	500			0835	17.7	540	
	1429	1.0	30			1417	1.0	30			1449	2.0	60			1449	1.0	30			1544	2.3	70			1609	0.7	20	
	1931	16.4	500			1919	16.1	490			1954	15.1	460			1952	15.4	470			2058	14.1	430			2113	15.1	460	
12 Su	0232	2.3	70		27 M	0220	2.0	60		12 Tu	0237	3.0	90		27 W	0249	2.0	60		12 F	0326	3.0	90		27 Sa	0417	1.3	40	
	0739	18.0	550			0721	19.0	580			0753	17.4	530			0756	18.7	570			0853	15.7	480			0926	17.1	520	
	1509	1.6	50			1502	1.3	40			1527	2.3	70			1538	1.3	40			1617	2.3	70			1654	1.0	30	
	2014	15.7	480			2005	15.7	480			2037	14.4	440			2043	15.1	460			2139	13.8	420			2201	15.1	460	
13 M	0304	2.6	80		28 Tu	0302	2.3	70		13 W	0305	3.3	100		28 Th	0338	2.3	70		13 Sa	0401	3.0	90		28 Su	0507	1.6	50	
	0818	17.4	530			0805	18.7	570			0833	16.7	510			0848	18.0	550			0936	15.4	470			1018	16.1	490	
	1548	2.0	60			1548	1.3	40			1604	2.6	80			1627	1.3	40			1648	2.3	70			1739	1.3	40	
	2058	14.8	450			2054	15.1	460			2122	13.8	420			2134	14.8	450			2221	13.5	410			2252	15.1	460	
14 Tu	0331	3.0	90		29 W	0346	2.3	70		14 Th	0333</																		

Quebec, Quebec, 2009

Times and Heights of High and Low Waters

July				August				September															
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height										
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm									
1 W	0044	14.8	450	16 Th	0648	2.0	60	1 Sa	0219	14.1	430	16 Su	0136	15.1	460	1 Tu	0359	14.1	430	16 W	0335	16.1	490
	0806	2.0	60		1229	12.5	380		0950	1.3	40		0909	2.0	60		1115	1.3	40		1102	0.7	20
	1318	13.1	400		1858	2.0	60		1511	11.2	340		1428	11.5	350		1641	12.5	380		1614	14.1	430
	2023	2.3	70						2151	2.6	80		2110	2.6	80		2318	2.0	60		2317	1.0	30
2 Th	0145	14.8	450	17 F	0055	14.8	450	2 Su	0324	14.1	430	17 M	0246	15.4	470	2 W	0445	14.8	450	17 Th	0431	16.7	510
	0912	1.6	50		0804	2.3	70		1050	1.0	30		1022	1.3	40		1159	1.0	30		1153	0.7	20
	1425	12.5	380		1339	12.1	370		1616	11.5	350		1535	12.5	380		1716	13.5	410		1702	15.4	470
	2122	2.3	70		2004	2.3	70		2249	2.3	70		2228	2.0	60								
3 F	0247	15.1	460	18 Sa	0200	15.4	470	3 M	0419	14.8	450	18 Tu	0350	16.4	500	3 Th	0004	1.3	40	18 F	0011	0.7	20
	1013	1.3	40		0927	2.0	60		1142	1.0	30		1124	0.7	20		0523	15.4	470		0520	17.4	530
	1530	12.5	380		1448	12.1	370		1705	12.1	370		1634	13.5	410		1237	1.0	30		1240	0.7	20
	2218	2.3	70		2125	2.3	70		2340	2.0	60		2332	1.3	40		1749	14.4	440		●	1745	16.4	500
4 Sa	0344	15.4	470	19 Su	0304	16.1	490	4 Tu	0505	15.1	460	19 W	0447	17.1	520	4 F	0046	1.3	40	19 Sa	0100	0.3	10
	1110	1.0	30		1038	1.6	50		1228	1.0	30		1218	0.3	10		0559	15.7	480		0604	17.4	530
	1628	12.5	380		1552	12.8	390		1744	13.1	400		1725	14.4	440		1314	1.0	30		1323	0.7	20
	2310	2.3	70		2239	2.0	60								1821		15.1	460	1825		17.1	520	
5 Su	0435	15.7	480	20 M	0404	17.1	520	5 W	0026	1.6	50	20 Th	0029	0.7	20	5 Sa	0126	1.0	30	20 Su	0146	0.3	10
	1202	1.0	30		1141	1.0	30		0545	15.4	470		0538	17.7	540		0634	16.1	490		0647	17.4	530
	1718	13.1	400		1650	13.5	410		1308	1.0	30		1307	0.0	0		1348	1.0	30		1404	1.0	30
	2359	2.3	70		2344	1.6	50		1819	13.8	420		●	1811	15.4		470	1852	15.7		480	1905	17.7	540
6 M	0519	16.1	490	21 Tu	0500	17.7	540	6 Th	0109	1.6	50	21 F	0120	0.3	10	6 Su	0204	1.0	30	21 M	0230	0.7	20
	1249	1.0	30		1238	0.7	20		0622	15.7	480		0625	18.0	550		0708	16.4	500		0730	17.1	520
	1801	13.5	410		1743	14.1	430		1345	1.0	30		1352	0.3	10		1421	1.3	40		1442	1.3	40
					●				1852	14.4	440		1853	16.1	490		1922	16.4	500		1944	17.7	540
7 Tu	0044	2.3	70	22 W	0042	1.3	40	7 F	0149	1.6	50	22 Sa	0207	0.3	10	7 M	0240	1.3	40	22 Tu	0312	1.0	30
	0600	16.1	490		0553	18.0	550		0658	16.1	490		0709	17.7	540		0742	16.1	490		0813	16.4	500
	1332	1.3	40		1329	0.3	10		1420	1.0	30		1434	0.3	10		1452	1.3	40		1518	1.6	50
	1840	13.8	420		1832	14.8	450		1925	14.8	450		1934	16.7	510		1952	16.7	510		2025	17.4	530
8 W	0126	2.3	70	23 Th	0136	1.0	30	8 Sa	0227	1.3	40	23 Su	0252	0.3	10	8 Tu	0316	1.3	40	23 W	0354	1.3	40
	0639	16.1	490		0642	18.4	560		0733	16.1	490		0753	17.4	530		0817	15.7	480		0859	15.4	470
	1411	1.6	50		1417	0.3	10		1452	1.0	30		1514	0.7	20		1523	1.6	50		1552	2.0	60
	1917	14.1	430		1918	15.4	470		1957	15.1	460		2015	16.7	510		2021	16.7	510		2110	16.7	510
9 Th	0206	2.3	70	24 F	0225	0.7	20	9 Su	0302	1.3	40	24 M	0336	0.7	20	9 W	0352	1.3	40	24 Th	0438	1.6	50
	0717	16.1	490		0730	18.0	550		0807	16.1	490		0838	16.7	510		0853	15.1	460		0949	14.1	430
	1447	1.6	50		1501	0.3	10		1522	1.3	40		1551	1.0	30		1555	1.6	50		1623	2.6	80
	1953	14.1	430		2002	15.7	480		2028	15.4	470		2057	16.7	510		2055	16.7	510		2159	15.7	480
10 F	0243	2.3	70	25 Sa	0313	0.7	20	10 M	0336	1.3	40	25 Tu	0419	0.7	20	10 Th	0431	1.3	40	25 F	0526	2.3	70
	0754	16.1	490		0816	17.7	540		0842	15.4	470		0924	15.7	480		0936	14.1	430		1044	12.8	390
	1520	1.6	50		1543	0.3	10		1551	1.3	40		1628	1.3	40		1630	1.6	50		1654	3.0	90
	2029	14.4	440		2045	16.1	490		2059	15.4	470		2143	16.4	500		2140	16.1	490		●	2256	14.8	450
11 Sa	0319	2.3	70	26 Su	0358	0.7	20	11 Tu	0411	1.3	40	26 W	0504	1.3	40	11 F	0516	1.6	50	26 Sa	0625	3.0	90
	0831	15.7	480		0903	17.1	520		0918	14.8	450		1015	14.4	440		1032	12.8	390		1146	11.5	350
	1551	1.3	40		1624	0.7	20		1621	1.3	40		1705	2.0	60		1712	2.3	70		1733	3.6	110
	2105	14.4	440		2130	15.7	480		2131	15.4	470		2234	15.4	470		●	2242	15.4		470		
12 Su	0353	2.0	60	27 M	0444	1.0	30	12 W	0448	1.3	40	27 Th	0556	1.6	50	12 Sa	0613	2.0	60	27 Su	0002	13.5	410
	0909	15.4	470		0951	16.1	490		0958	14.1	430		1112	12.8	390		1142	11.8	360		0739	3.3	100
	1620	1.3	40		1705	1.0	30		1654	1.3	40		1745	2.6	80		1806	2.6	80		1255	10.8	330
	2140	14.4	440		2217	15.7	480		2212	15.4	470		●	2332	14.4		440	2359	14.8		450	1901	4.3
13 M	0428	2.0	60	28 Tu	0533	1.0	30	13 Th	0530	1.6	50	28 F	0700	2.3	70	13 Su	0733	2.3	70	28 M	0113	13.1	400
	0948	14.8	450		1044	14.8	450		1050	13.1	400		1217	11.5	350		1258	11.5	350		0850	3.0	90
	1650	1.3	40		1748	1.6	50		1735	1.6	50		1840	3.3	100		1929	3.0	90		1407	10.8	330
	2217	14.4	440		●	2310	15.1		460	●	2309		15.1	460					2051		3.9	120	
14 Tu	0507	2.0	60	29 W	0628	1.6	50	14 F	0624	2.0	60	29 Sa	0038	13.8	420	14 M	0119	14.8	450	29 Tu	0223	13.1	400
	1033	14.1	430		1142	13.5	410		1158	12.1	370		0815	2.3	70		0855	2.0	60		0949	2.3	70
	1725	1.6	50		1837	2.3	70		1825	2.0	60		1330	10.8	330		1411	11.8	360		1511	11.5	350
	2300	14.4	440								2008		3.6	110	2008		3.6	110	2105		2.6	80	2156	3.3	100
15 W	0552	2.0	60	30 Th	0008	14.4	440	15 Sa	0020	14.8	450	30 Su	0150	13.1	400	15 Tu	0231	15.1	460	30 W	0324	13.8	420
	1126	13.1	400		0733	2.0	60		0741	2.0	60		0925	2.0	60		1003	1.3	40		1038	2.0	60
	1806	1.6	50		1247	12.1	370		1314	11.5	350		1447	10.8	330		1518	12.8	390		1559	12.8	390
	2353	14.4	440</																				

Quebec, Quebec, 2009

Times and Heights of High and Low Waters

October				November				December															
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height										
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm									
1 Th	0412	14.4	440	16 F	0410	16.1	490	1 Su	0457	15.4	470	16 M	0017	1.0	30	1 Tu	0509	14.8	450	16 W	0046	1.0	30
	1121	1.6	50		1124	1.0	30		1157	2.0	60		0523	15.7	480		1203	2.3	70		0554	14.4	440
	1637	14.1	430		1635	16.4	500		1706	17.1	520		1224	2.0	60		1715	18.0	550		1246	2.0	60
	2335	1.6	50		2350	0.7	20		●	1734	17.7		540	●	1759		17.1	520					
2 F	0452	15.1	460	17 Sa	0458	16.7	510	2 M	0029	1.3	40	17 Tu	0104	1.0	30	2 W	0049	1.3	40	17 Th	0132	1.3	40
	1159	1.3	40		1210	1.3	40		0537	15.7	480		0608	15.7	480		0555	15.1	460		0638	14.4	440
	1711	15.4	470		1717	17.4	530		○	1236	2.0		60	1307	2.3		70	1250	2.0		60	1328	2.3	70
3 Sa	0018	1.3	40	18 Su	0038	0.7	20	3 Tu	0112	1.3	40	18 W	0148	1.3	40	3 Th	0138	1.3	40	18 F	0215	1.6	50
	0530	15.7	480		0543	16.7	510		0617	16.1	490		0651	15.4	470		0641	15.4	470		0719	14.4	440
	1237	1.6	50		1253	1.3	40		1316	2.0	60		1347	2.3	70		1338	2.0	60		1409	2.3	70
	1744	16.4	500		●	1758	18.0		550	1820	18.4		560	1855	17.7		540	1845	18.7		570	1920	16.7	510
4 Su	0059	1.0	30	19 M	0124	0.7	20	4 W	0155	1.3	40	19 Th	0231	1.6	50	4 F	0226	1.0	30	19 Sa	0254	2.0	60
	0606	16.1	490		0626	16.7	510		0658	15.7	480		0734	15.4	470		0728	15.4	470		0759	14.4	440
	1313	1.6	50		1334	1.6	50		1357	2.3	70		1424	2.6	80		1427	1.6	50		1446	2.6	80
	1816	17.1	520		1837	18.4	560		1858	18.7	570		1936	17.4	530		1933	18.4	560		2000	16.4	500
5 M	0138	1.3	40	20 Tu	0208	1.0	30	5 Th	0239	1.6	50	20 F	0313	2.3	70	5 Sa	0313	1.0	30	20 Su	0331	2.0	60
	0642	16.4	500		0708	16.4	500		0741	15.4	470		0818	14.8	450		0817	15.4	470		0839	14.4	440
	1348	1.6	50		1412	2.0	60		1439	2.3	70		1459	3.0	90		1516	1.6	50		1521	2.6	80
	1848	17.7	540		1917	18.0	550		1940	18.4	560		2018	16.7	510		2023	18.0	550		2041	16.1	490
6 Tu	0217	1.3	40	21 W	0250	1.6	50	6 F	0324	1.6	50	21 Sa	0352	2.3	70	6 Su	0401	1.0	30	21 M	0404	2.0	60
	0718	16.1	490		0752	16.1	490		0828	15.1	460		0903	14.1	430		0907	15.1	460		0920	14.1	430
	1423	2.0	60		1448	2.3	70		1523	2.3	70		1530	3.3	100		1606	1.6	50		1554	2.6	80
	1920	17.7	540		1958	17.7	540		2028	17.7	540		2102	16.1	490		2116	17.4	530		2123	15.4	470
7 W	0256	1.3	40	22 Th	0332	2.0	60	7 Sa	0412	1.6	50	22 Su	0431	2.6	80	7 M	0449	1.3	40	22 Tu	0435	2.0	60
	0756	15.7	480		0837	15.1	460		0919	14.4	440		0949	13.5	410		0958	14.8	450		1000	13.8	420
	1458	2.0	60		1520	2.6	80		1610	2.3	70		1601	3.3	100		1658	2.0	60		1628	2.6	80
	1954	17.7	540		2041	17.1	520		2123	17.1	520		2151	15.1	460		2212	16.4	500		2207	14.8	450
8 Th	0336	1.6	50	23 F	0413	2.3	70	8 Su	0503	2.0	60	23 M	0509	3.0	90	8 Tu	0539	1.3	40	23 W	0505	2.3	70
	0838	15.1	460		0925	14.1	430		1015	14.1	430		1038	13.1	400		1051	14.8	450		1043	13.5	410
	1535	2.3	70		1549	3.0	90		1703	2.6	80		1639	3.3	100		1755	2.0	60		1708	2.6	80
	2035	17.4	530		2128	16.1	490		2226	16.1	490		2243	14.4	440		●	2310	15.4		470	2255	13.8	420
9 F	0419	1.6	50	24 Sa	0457	3.0	90	9 M	0559	2.0	60	24 Tu	0550	3.0	90	9 W	0632	1.6	50	24 Th	0539	2.3	70
	0927	14.1	430		1017	13.1	400		1115	13.8	420		1129	12.5	380		1146	14.4	440		1128	13.5	410
	1615	2.3	70		1618	3.3	100		1808	3.0	90		1728	3.6	110		1857	2.0	60		1756	2.6	80
	2126	16.7	510		2222	14.8	450		●	2332	15.4		470	●	2341		13.5	410	●		2350	13.1	400
10 Sa	0509	2.0	60	25 Su	0547	3.3	100	10 Tu	0701	2.3	70	25 W	0641	3.3	100	10 Th	0011	14.4	440	25 F	0622	2.6	80
	1025	13.1	400		1113	12.1	370		1217	13.5	410		1222	12.5	380		1245	14.4	440		1219	13.5	410
	1703	2.6	80		1657	3.9	120		1920	3.0	90		1835	3.9	120		2003	2.0	60		1856	3.0	90
	2232	15.7	480		●	2322	13.8		420	0040	14.8		450	0042	13.1		400	0115	13.8		420	0050	12.5	380
11 Su	0610	2.3	70	26 M	0649	3.6	110	11 W	0805	2.3	70	26 Th	0742	3.3	100	11 F	0829	2.3	70	26 Sa	0716	3.0	90
	1131	12.5	380		1213	11.5	350		1320	13.8	420		1317	12.8	390		1345	14.8	450		1314	13.8	420
	1806	3.3	100		1753	4.3	130		2031	2.3	70		2009	3.6	110		2108	1.6	50		2015	3.0	90
	●	2348	15.1		460	0028	13.1		400	0146	14.4		440	0143	12.8		390	0220	13.5		410	0153	12.1	370
12 M	0722	2.3	70	27 Tu	0757	3.6	110	12 Th	0906	2.0	60	27 F	0843	3.3	100	12 Sa	0927	2.3	70	27 Su	0824	3.0	90
	1241	12.5	380		1316	11.5	350		1420	14.4	440		1410	13.8	420		1444	15.4	470		1412	14.4	440
	1932	3.3	100		1957	4.3	130		2136	1.6	50		2119	3.0	90		2209	1.3	40		2132	2.6	80
	13 Tu	0102	14.8		450	28 W	0134		13.1	400	13 F		0249	14.8	450		28 Sa	0241	13.1		400	13 Su	0322	13.5	410	28 M	0254	12.5	380
0834		2.0	60	0858	3.3		100	1001	1.6	50		0938	3.0	90	1021	2.0		60	0934	2.6	80		
1350		12.8	390	1415	12.1		370	1516	15.4	470		1459	14.8	450	1539	16.1		490	1508	15.7	480		
2053		2.6	80	2112	3.6		110	2234	1.3	40		2217	2.3	70	2305	1.0		30	2237	2.0	60		
14 W	0212	15.1	460	29 Th	0236	13.5	410	14 Sa	0346	15.1	460	29 Su	0334	13.8	420	14 M	0418	13.8	420	29 Tu	0352	12.8	390
	0938	1.6	50		0949	2.6	80		1052	1.6	50		1028	2.6	80		1112	2.0	60		1038	2.3	70
	1452	13.8	420		1506	13.1	400		1606	16.4	500		1546	16.1	490		1629	16.4	500		1602	16.7	510
	2159	2.0	60		2210	3.0	90		2327	1.0	30		2310	2.0	60		2357	1.0	30		2335	1.6	50
15 Th	0315	15.4	470	30 F	0329	14.1	430	15 Su	0437	15.4	470	30 M	0423	14.1	430	15 Tu	0508	14.1	430	30 W	0446	13.8	420
	1033	1.3	40		1034	2.3	70		1140	1.6	50		1115	2.3	70		1200	2.0	60		1136	2.0	60
	1547	15.1	460		1550	14.4	440		1651	17.4	530		1631	17.1	520		1715	16.7	510		1654	17.7	540
	2257	1.3	40		2259	2.0	60		31 Sa	0415	14.8		450	31 Th	1116		2.3	70	31 O		1744	18.0	550
16 Th	0046	1.0	30	0537	14.4	440	1232	1.6		50</													

Halifax, Nova Scotia, 2009

Times and Heights of High and Low Waters

January				February				March															
Time		Height		Time		Height		Time		Height		Time		Height									
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm									
1 Th	0459	2.3	70		16 F	0638	1.3	40		1 Su	0610	1.6	50		16 M	0023	5.6	170					
	1046	5.6	170			1149	5.6	170			1144	5.2	160			0744	1.6	50		1 Su	0454	1.0	30
	1716	1.3	40			1842	1.0	30			1811	1.6	50			1253	4.6	140			1041	5.6	170
	2325	5.6	170													1949	2.0	60			1656	1.3	40
																	2256	5.9	180				
2 F	0549	2.3	70		17 Sa	0018	5.9	180		2 M	0006	5.6	170		17 Tu	0111	5.2	160		2 M	0547	1.0	30
	1125	5.2	160			0733	1.3	40			0707	1.6	50			0837	1.6	50			1124	5.2	160
	1758	1.3	40			1238	4.9	150			1232	4.9	150			1350	4.6	140			1751	1.6	50
						1935	1.6	50			1907	2.0	60			2049	2.3	70			2339	5.6	170
3 Sa	0002	5.6	170		18 Su	0104	5.6	170		3 Tu	0052	5.6	170		18 W	0209	4.9	150		3 Tu	0648	1.3	40
	0643	2.0	60			0827	1.3	40			0808	1.3	40			0930	1.6	50			1213	5.2	160
	1209	5.2	160			1331	4.6	140			1329	4.9	150			1505	4.6	140			1857	2.0	60
	1844	1.6	50			2029	2.0	60			2011	2.0	60			2149	2.3	70			2011	2.6	80
4 Su	0042	5.6	170		19 M	0156	5.2	160		4 W	0148	5.6	170		19 Th	0320	4.9	150		4 W	0028	5.6	170
	0738	2.0	60			0920	1.6	50			0912	1.3	40			1023	1.6	50			0753	1.3	40
	1259	4.9	150			1434	4.6	140			1438	4.9	150			1628	4.6	140			1310	4.9	150
	1935	1.6	50			2126	2.0	60			2118	2.0	60			2245	2.3	70			2007	2.0	60
5 M	0128	5.6	170		20 Tu	0254	5.2	160		5 Th	0256	5.6	170		20 F	0431	4.9	150		5 Th	0127	5.6	170
	0835	1.6	50			1012	1.6	50			1016	1.0	30			1115	1.6	50			0859	1.3	40
	1359	4.9	150			1548	4.6	140			1600	4.9	150			1731	4.9	150			1422	4.6	140
	2031	2.0	60			2224	2.3	70			2226	2.0	60			2335	2.3	70			2116	2.0	60
6 Tu	0222	5.6	170		21 W	0358	4.9	150		6 F	0412	5.9	180		21 Sa	0527	5.2	160		6 F	0240	5.6	170
	0934	1.3	40			1104	1.3	40			1120	0.7	20			1202	1.3	40			1003	1.0	30
	1509	4.9	150			1659	4.6	140			1718	5.2	160			1817	4.9	150			1554	4.9	150
	2131	2.0	60			2321	2.3	70			2333	1.6	50								2223	2.0	60
7 W	0325	5.9	180		22 Th	0458	5.2	160		7 Sa	0524	6.2	190		22 Su	0016	2.3	70		7 Sa	0404	5.6	170
	1034	1.0	30			1152	1.3	40			1221	0.3	10			0612	5.6	170			1106	1.0	30
	1622	4.9	150			1756	4.9	150			1822	5.6	170			1245	1.3	40			1712	5.2	160
	2235	1.6	50													1856	5.2	160			2328	1.6	50
8 Th	0430	5.9	180		23 F	0011	2.3	70		8 Su	0037	1.3	40		23 M	0054	2.0	60		8 Su	0518	5.9	180
	1135	0.7	20			0551	5.2	160			0628	6.2	190			0652	5.6	170			1204	0.7	20
	1730	5.2	160			1238	1.3	40			1316	0.3	10			1322	1.0	30			1809	5.6	170
	2341	1.6	50			1844	4.9	150			1917	5.9	180			1931	5.2	160			1818	5.2	160
9 F	0535	6.2	190		24 Sa	0052	2.3	70		9 M	0137	1.0	30		24 Tu	0129	1.6	50		9 M	0029	1.3	40
	1235	0.3	10			0636	5.6	170			0724	6.6	200			0730	5.9	180			0618	6.2	190
	1832	5.6	170			1318	1.0	30			1408	0.0	0			1356	0.7	20			1257	0.3	10
						1925	5.2	160			2007	6.2	190			2004	5.6	170			1858	6.2	190
10 Sa	0045	1.3	40		25 Su	0127	2.0	60		10 Tu	0233	1.0	30		25 W	0206	1.3	40		10 Tu	0125	1.0	30
	0636	6.6	200			0717	5.6	170			0816	6.6	200			0807	5.9	180			0710	6.2	190
	1332	0.0	0			1355	1.0	30			1456	0.0	0			1429	0.7	20			1346	0.3	10
	1930	5.9	180			2002	5.2	160			2054	6.6	200			2036	5.6	170			1942	6.2	190
11 Su	0147	1.3	40		26 M	0159	2.0	60		11 W	0327	1.0	30		26 Th	0245	1.3	40		11 W	0216	0.7	20
	0735	6.6	200			0756	5.9	180			0905	6.2	190			0844	5.9	180			0758	6.2	190
	1427	0.0	0			1429	1.0	30			1543	0.3	10			1502	0.7	20			1432	0.3	10
	2025	6.2	190			2037	5.2	160			2138	6.6	200			2109	5.9	180			2024	6.6	200
12 M	0246	1.0	30		27 Tu	0233	2.0	60		12 Th	0418	1.0	30		27 F	0325	1.0	30		12 Th	0304	0.7	20
	0830	6.6	200			0834	5.9	180			0951	6.2	190			0922	5.6	170			0843	6.2	190
	1519	0.0	0			1502	1.0	30			1628	0.7	20			1536	1.0	30			1515	0.7	20
	2117	6.2	190			2111	5.6	170			2219	6.2	190			2143	5.9	180			2105	6.6	200
13 Tu	0345	1.0	30		28 W	0309	1.6	50		13 F	0509	1.0	30		28 Sa	0407	1.0	30		13 F	0349	0.7	20
	0923	6.6	200			0910	5.9	180			1036	5.9	180			1000	5.6	170			0927	5.9	180
	1609	0.0	0			1534	1.0	30			1714	1.0	30			1613	1.0	30			1556	1.0	30
	2205	6.2	190			2144	5.6	170			2259	6.2	190			2218	5.9	180			2144	6.2	190
14 W	0444	1.0	30		29 Th	0348	1.6	50		14 Sa	0559	1.3	40		29 Su	0433	1.0	30		14 Sa	0433	1.0	30
	1013	6.2	190			0946	5.9	180			1120	5.2	160			1010	5.6	170			1010	5.6	170
	1659	0.3	10			1608	1.0	30			1801	1.3	40			1636	1.3	40			1636	1.3	40
	2251	6.2	190			2217	5.6	170			2339	5.9	180			2223	5.9	180			2223	5.9	180
15 Th	0541	1.3	40		30 F	0431	1.6	50		15 Su	0651	1.3	40		30 M	0518	1.0	30		15 Su	0518	1.0	30
	1101	5.9	180			1023	5.6	170			1204	4.9	150			1052	5.2	160			1052	5.2	160
	1751	0.7	20			1643	1.0	30			1852	2.0	60			1718	2.0	60			1718	2.0	60
	2335	6.2	190			2251	5.9	180								2303	5.9	180			2303	5.9	180
				31 Sa	0518	1.6	50											31 Tu	0535	0.7	20		
					1102	5.6	170												1111	5.2	160		
					1723	1.3	40												1748	1.6	50		
					2326	5.6	170												2321	5.9	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, 2009

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	0638	1.0	30	16	0656	2.0	60	1	0007	5.6	170	16	0013	5.2	160	1	0208	4.9	150	16	0113	4.9	150
W	1203	5.2	160	Th	1241	4.9	150	F	0731	1.0	30	Sa	0658	2.0	60	M	0906	1.3	40	Tu	0747	2.0	60
	1900	2.0	60		1930	2.6	80	☉	1303	5.2	160		1303	5.2	160		1453	5.6	170		1353	5.6	170
									2007	2.0	60		1943	2.6	80		2153	1.3	40		2046	2.0	60
2	0014	5.6	170	17	0049	4.9	150	2	0111	5.2	160	17	0103	4.9	150	2	0320	4.9	150	17	0213	4.6	140
Th	0744	1.0	30	F	0748	2.0	60	Sa	0831	1.0	30	Su	0747	2.0	60	Tu	1002	1.3	40	W	0839	2.0	60
☉	1303	4.9	150	☉	1342	4.9	150		1415	5.2	160	☉	1359	5.2	160		1551	5.6	170		1444	5.6	170
	2010	2.0	60		2027	2.6	80		2111	1.6	50		2037	2.6	80		2248	1.0	30		2139	1.6	50
3	0116	5.6	170	18	0149	4.9	150	3	0226	5.2	160	18	0202	4.9	150	3	0427	4.9	150	18	0321	4.6	140
F	0847	1.0	30	Sa	0840	2.0	60	Su	0930	1.0	30	M	0836	2.0	60	W	1058	1.6	50	Th	0933	2.0	60
	1420	4.9	150		1457	4.9	150		1530	5.2	160		1459	5.2	160		1643	5.6	170		1538	5.6	170
	2116	2.0	60		2121	2.6	80		2211	1.6	50		2128	2.3	70		2339	1.0	30		2234	1.3	40
4	0233	5.2	160	19	0300	4.9	150	4	0346	5.2	160	19	0309	4.9	150	4	0524	4.9	150	19	0428	4.9	150
Sa	0949	1.0	30	Su	0931	2.0	60	M	1027	1.0	30	Tu	0926	2.0	60	Th	1152	1.6	50	F	1029	2.0	60
	1550	4.9	150		1604	4.9	150		1630	5.6	170		1551	5.2	160		1730	5.6	170		1633	5.9	180
	2220	1.6	50		2211	2.3	70		2308	1.3	40		2219	2.0	60						2330	0.7	20
5	0359	5.2	160	20	0406	4.9	150	5	0453	5.2	160	20	0413	4.9	150	5	0027	1.0	30	20	0527	4.9	150
Su	1048	1.0	30	M	1020	1.6	50	Tu	1122	1.3	40	W	1016	1.6	50	F	0615	5.2	160	Sa	1128	1.6	50
	1657	5.6	170		1652	5.2	160		1718	5.9	180		1635	5.6	170		1243	1.6	50		1728	6.2	190
	2321	1.3	40		2259	2.0	60						2309	1.3	40		1815	5.6	170				
6	0509	5.6	170	21	0459	4.9	150	6	0001	1.0	30	21	0509	4.9	150	6	0112	0.7	20	21	0025	0.3	10
M	1144	1.0	30	Tu	1107	1.6	50	W	0546	5.2	160	Th	1106	1.6	50	Sa	0702	5.2	160	Su	0622	5.2	160
	1748	5.9	180		1731	5.6	170		1214	1.3	40		1718	5.9	180		1329	1.6	50		1227	1.3	40
					2345	1.6	50		1801	5.9	180		2359	1.0	30		1857	5.6	170		1823	6.2	190
7	0018	1.0	30	22	0546	5.2	160	7	0050	0.7	20	22	0559	5.2	160	7	0153	0.7	20	22	0120	0.0	0
Tu	0604	5.6	170	W	1152	1.3	40	Th	0634	5.6	170	F	1157	1.3	40	Su	0746	5.2	160	M	0716	5.6	170
	1236	0.7	20		1806	5.6	170		1303	1.3	40		1801	6.2	190	☉	1410	2.0	60	☉	1326	1.3	40
	1832	6.2	190						1842	5.9	180						1940	5.6	170		1919	6.6	200
8	0109	1.0	30	23	0030	1.0	30	8	0134	0.7	20	23	0049	0.3	10	8	0231	0.7	20	23	0214	0.0	0
W	0653	5.9	180	Th	0630	5.2	160	F	0719	5.6	170	Sa	0646	5.2	160	M	0829	5.6	170	Tu	0810	5.9	180
	1324	0.7	20		1235	1.3	40		1348	1.3	40		1249	1.3	40		1446	2.0	60		1426	1.0	30
	1913	6.2	190		1841	5.9	180		1922	5.9	180		1847	6.2	190		2021	5.6	170		2014	6.6	200
9	0156	0.7	20	24	0115	0.7	20	9	0215	0.7	20	24	0139	0.0	0	9	0307	1.0	30	24	0308	-0.3	-10
Th	0738	5.9	180	F	0712	5.6	170	Sa	0802	5.6	170	Su	0734	5.6	170	Tu	0909	5.6	170	W	0904	5.9	180
☉	1408	1.0	30	☉	1318	1.0	30	☉	1428	1.6	50	☉	1341	1.3	40		1518	2.3	70		1526	1.0	30
	1952	6.2	190		1919	6.2	190		2002	5.9	180		1935	6.6	200		2103	5.6	170		2108	6.6	200
10	0239	0.7	20	25	0159	0.3	10	10	0253	0.7	20	25	0229	0.0	0	10	0341	1.0	30	25	0401	-0.3	-10
F	0822	5.9	180	Sa	0755	5.6	170	Su	0845	5.6	170	M	0823	5.6	170	W	0948	5.6	170	Th	0957	6.2	190
	1449	1.3	40		1402	1.0	30		1506	2.0	60		1436	1.3	40		1551	2.3	70		1629	1.3	40
	2031	6.2	190		2000	6.2	190		2042	5.9	180		2026	6.6	200		2144	5.6	170		2201	6.2	190
11	0319	0.7	20	26	0245	0.0	0	11	0330	1.0	30	26	0322	0.0	0	11	0416	1.3	40	26	0455	0.0	0
Sa	0904	5.6	170	Su	0840	5.6	170	M	0927	5.6	170	Tu	0915	5.6	170	Th	1025	5.6	170	F	1048	6.2	190
	1527	1.3	40		1448	1.0	30		1541	2.3	70		1534	1.3	40		1629	2.3	70		1732	1.3	40
	2110	5.9	180		2044	6.2	190		2123	5.6	170		2118	6.2	190		2223	5.6	170		2254	5.9	180
12	0358	1.0	30	27	0334	0.3	10	12	0406	1.0	30	27	0417	0.0	0	12	0452	1.6	50	27	0550	0.3	10
Su	0946	5.6	170	M	0926	5.6	170	Tu	1007	5.6	170	W	1007	5.9	180	F	1103	5.6	170	Sa	1137	6.2	190
	1604	2.0	60		1540	1.3	40		1617	2.3	70		1638	1.3	40		1714	2.6	80		1834	1.3	40
	2150	5.9	180		2131	6.2	190		2204	5.6	170		2211	6.2	190		2301	5.6	170		2346	5.6	170
13	0438	1.0	30	28	0428	0.3	10	13	0444	1.3	40	28	0514	0.3	10	13	0530	1.6	50	28	0646	0.7	20
M	1027	5.2	160	Tu	1014	5.6	170	W	1047	5.2	160	Th	1101	5.9	180	Sa	1142	5.6	170	Su	1226	5.9	180
	1643	2.3	70		1641	1.6	50		1659	2.6	80		1746	1.6	50		1805	2.6	80		1934	1.3	40
	2230	5.6	170		2220	5.9	180		2246	5.6	170		2305	5.9	180		2341	5.2	160				
14	0520	1.3	40	29	0527	0.7	20	14	0525	1.6	50	29	0613	0.3	10	14	0613	1.6	50	29	0040	5.2	160
Tu	1109	5.2	160	W	1105	5.6	170	Th	1128	5.2	160	F	1155	5.6	170	Su	1223	5.6	170	☉	0742	1.0	30
	1731	2.3	70		1751	1.6																	

Halifax, Nova Scotia, 2009

Times and Heights of High and Low Waters

July				August				September															
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height										
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm									
1 W	0243	4.6	140	16 Th	0130	4.9	150	1 Sa	0434	4.6	140	16 Su	0319	4.6	140	1 Tu	0601	4.9	150	16 W	0535	5.6	170
	0935	1.6	50		0801	2.0	60		1102	2.0	60		0951	2.0	60		1208	2.3	70		1155	1.3	40
	1508	5.2	160		1351	5.6	170		1638	4.9	150		1533	5.6	170		1759	5.2	160		1745	5.9	180
	2221	1.3	40		2104	1.6	50		2335	1.3	40		2246	1.0	30								
2 Th	0354	4.6	140	17 F	0234	4.6	140	2 Su	0538	4.9	150	17 M	0442	4.9	150	2 W	0032	1.3	40	17 Th	0023	0.7	20
	1032	1.6	50		0901	2.0	60		1156	2.0	60		1058	1.6	50		0641	5.2	160		0626	6.2	190
	1607	5.2	160		1450	5.6	170		1736	5.2	160		1650	5.9	180		1246	2.0	60		1253	1.0	30
	2313	1.0	30		2204	1.3	40						2347	0.7	20		1840	5.6	170		1841	6.2	190
3 F	0500	4.9	150	18 Sa	0348	4.6	140	3 M	0024	1.3	40	18 Tu	0550	5.2	160	3 Th	0110	1.0	30	18 F	0115	0.3	10
	1129	2.0	60		1004	2.0	60		0628	4.9	150		1203	1.3	40		0716	5.2	160		0713	6.6	200
	1703	5.2	160		1557	5.9	180		1241	2.0	60		1756	6.2	190		1320	1.6	50		1348	0.7	20
					2305	1.0	30		1823	5.6	170						1918	5.6	170		●	1931	6.2	190
4 Sa	0003	1.0	30	19 Su	0459	4.9	150	4 Tu	0107	1.0	30	19 W	0044	0.3	10	4 F	0143	1.0	30	19 Sa	0203	0.3	10
	0557	4.9	150		1109	1.6	50		0710	5.2	160		0647	5.9	180		0748	5.6	170		0757	6.6	200
	1221	2.0	60		1704	6.2	190		1319	2.0	60		1304	1.0	30		1354	1.6	50		1438	0.3	10
	1753	5.2	160						1906	5.6	170		1855	6.6	200		○	1955	5.9		180	2019	6.2	190
5 Su	0049	1.0	30	20 M	0005	0.7	20	5 W	0145	1.0	30	20 Th	0137	0.0	0	5 Sa	0213	1.0	30	20 Su	0250	0.3	10
	0646	5.2	160		0604	5.2	160		0748	5.2	160		0738	6.2	190		0819	5.6	170		0840	6.6	200
	1308	2.0	60		1213	1.3	40		1351	2.0	60		1402	0.7	20		1429	1.3	40		1526	0.3	10
	1840	5.6	170		1807	6.2	190		○	1944	5.9		180	●	1948		6.6	200	2031		5.6	170	2105	5.9	180
6 M	0132	1.0	30	21 Tu	0103	0.3	10	6 Th	0218	1.0	30	21 F	0227	0.0	0	6 Su	0244	1.0	30	21 M	0335	0.7	20
	0731	5.2	160		0702	5.6	170		0823	5.6	170		0826	6.6	200		0851	5.9	180		0922	6.6	200
	1348	2.0	60		1315	1.3	40		1422	2.0	60		1457	0.7	20		1506	1.0	30		1612	0.7	20
	1923	5.6	170		●	1906	6.6		200	2021	5.9		180	2039	6.6		200	2107	5.6		170	2150	5.9	180
7 Tu	0210	1.0	30	22 W	0157	0.0	0	7 F	0248	1.0	30	22 Sa	0315	0.0	0	7 M	0316	1.0	30	22 Tu	0420	1.3	40
	0811	5.2	160		0757	5.9	180		0856	5.6	170		0911	6.6	200		0923	5.9	180		1003	6.2	190
	1421	2.0	60		1415	1.0	30		1455	1.6	50		1550	0.7	20		1545	1.0	30		1659	1.0	30
	2005	5.9	180		2002	6.6	200		2057	5.9	180		2127	6.2	190		2144	5.6	170		2234	5.6	170
8 W	0245	1.0	30	23 Th	0249	-0.3	-10	8 Sa	0317	1.0	30	23 Su	0402	0.3	10	8 Tu	0350	1.3	40	23 W	0507	1.6	50
	0849	5.6	170		0849	6.2	190		0928	5.6	170		0954	6.6	200		0956	5.9	180		1044	5.9	180
	1452	2.0	60		1514	1.0	30		1531	1.6	50		1642	0.7	20		1627	1.0	30		1748	1.0	30
	2044	5.9	180		2056	6.6	200		2132	5.9	180		2213	5.9	180		2221	5.6	170		2317	5.2	160
9 Th	0317	1.0	30	24 F	0339	-0.3	-10	9 Su	0347	1.0	30	24 M	0450	0.7	20	9 W	0429	1.3	40	24 Th	0600	2.0	60
	0925	5.6	170		0938	6.6	200		0959	5.6	170		1036	6.2	190		1032	5.9	180		1127	5.6	170
	1523	2.0	60		1612	1.0	30		1610	1.6	50		1734	1.0	30		1716	1.3	40		1840	1.3	40
	2122	5.9	180		2147	6.2	190		2208	5.6	170		2259	5.6	170		2302	5.2	160				
10 F	0348	1.0	30	25 Sa	0430	0.0	0	10 M	0420	1.3	40	25 Tu	0541	1.3	40	10 Th	0517	1.6	50	25 F	0003	4.9	150
	0959	5.6	170		1024	6.6	200		1031	5.9	180		1118	5.9	180		1112	5.6	170		0659	2.3	70
	1558	2.0	60		1710	1.0	30		1652	1.6	50		1827	1.0	30		1813	1.3	40		1214	5.2	160
	2158	5.9	180		2236	5.9	180		2244	5.6	170		2344	5.2	160		2346	5.2	160		1933	1.6	50
11 Sa	0420	1.3	40	26 Su	0522	0.3	10	11 Tu	0456	1.3	40	26 W	0635	1.6	50	11 F	0620	2.0	60	26 Sa	0055	4.9	150
	1034	5.6	170		1109	6.2	190		1105	5.6	170		1201	5.6	170		1158	5.6	170		0801	2.6	80
	1639	2.0	60		1807	1.0	30		1740	1.6	50		1922	1.3	40		1917	1.3	40		1309	4.9	150
	2234	5.6	170		2324	5.6	170		2323	5.2	160						○	2027	2.0		60		
12 Su	0454	1.3	40	27 M	0615	1.0	30	12 W	0539	1.6	50	27 Th	0031	4.9	150	12 Sa	0038	4.9	150	27 Su	0159	4.6	140
	1108	5.6	170		1153	5.9	180		1141	5.6	170		0733	2.0	60		0730	2.3	70		0859	2.6	80
	1726	2.0	60		1903	1.0	30		1835	1.6	50		1248	5.2	160		1252	5.6	170		1416	4.9	150
	2311	5.2	160								○		2017	1.6	50		2023	1.3	40		2120	2.0	60
13 M	0532	1.6	50	28 Tu	0013	5.2	160	13 Th	0007	5.2	160	28 F	0126	4.6	140	13 Su	0142	4.9	150	28 M	0323	4.6	140
	1143	5.6	170		0710	1.3	40		0634	2.0	60		0834	2.3	70		0839	2.3	70		0955	2.6	80
	1817	2.0	60		1238	5.9	180		1224	5.6	170		1345	4.9	150		1359	5.6	170		1534	4.9	150
	2351	5.2	160		○	1959	1.3		40	○	1935		1.6	50	2112		1.6	50	2127		1.3	40	2212	2.0	60
14 Tu	0615	1.6	50	29 W	0104	4.9	150	14 F	0058	4.9	150	29 Sa	0236	4.6	140	14 M	0306	4.9	150	29 Tu	0434	4.9	150
	1220	5.6	170		0807	1.6	50		0737	2.0	60		0934	2.3	70		0946	2.0	60		1045	2.3	70
	1910	2.0	60		1327	5.6	170		1315	5.6	170		1455	4.9	150		1520	5.6	170		1638	4.9	150
					2054	1.3	40		2038	1.3	40		2207	1.6	50		2229	1.0	30		2301	1.6	50
15 W	0036	4.9	150	30 Th	0203	4.6	140	15 Sa	0159	4.6	140	30 Su	0403	4.6	140	15 Tu	0432	5.2	160	30 W	0523	5.2	160
	0705	2.0	60		0905	2.0	60		0844	2.0	60		1032	2.3	70		1052	1.6	50		1130	2.3	70
	1301	5.6	170		1424	5.2	160		1418	5.6	170		1612	4.9	150		1640	5.9	180		1727	5.2	160
	2006	1.6	50		2149	1.3	40		2142	1.3	40		2259	1.6	50		2328	0.7	20		2345	1.6	50
			31 F	0315	4.6</																		

Halifax, Nova Scotia, 2009

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 Th	0602	5.2	160	16 F	0002	1.0	30	1 Su	0017	1.3	40	16 M	0124	1.3	40	1 Tu	0028	1.6	50	16 W	0154	2.0	60				
	1210	2.0	60		0600	6.2	190		0624	5.9	180		0659	5.9	180		0626	5.9	180		0723	5.9	180				
	1809	5.2	160		1240	0.7	20		1258	0.7	20		1356	0.3	10		1317	0.3	10		1418	0.7	20				
				1825	5.9	180	1858	5.2	160	1942	5.6	170	1916	5.2	160	2012	5.6	170	2012	5.6	170						
2 F	0024	1.3	40	17 Sa	0054	0.7	20	2 M	0059	1.3	40	17 Tu	0210	1.6	50	2 W	0119	1.3	40	17 Th	0235	2.0	60	17 Th	0807	5.9	180
	0636	5.6	170		0645	6.2	190		0700	5.9	180		0743	5.9	180		0713	6.2	190		0807	5.9	180				
	1248	1.6	50		1330	0.3	10		1340	0.3	10		1438	0.7	20		1406	0.0	0		1456	1.0	30				
	1848	5.6	170	1913	5.9	180	1940	5.2	160	2027	5.6	170	2003	5.6	170	2054	5.6	170	2054	5.6	170						
3 Sa	0101	1.3	40	18 Su	0142	1.0	30	3 Tu	0142	1.3	40	18 W	0253	1.6	50	3 Th	0211	1.3	40	18 F	0311	2.0	60	18 F	0850	5.9	180
	0707	5.6	170		0727	6.2	190		0739	6.2	190		0825	5.9	180		0802	6.2	190		0850	5.9	180				
	1326	1.0	30		1417	0.3	10		1424	0.3	10		1518	0.7	20		1456	0.0	0		1533	1.0	30				
	1926	5.6	170	1959	5.9	180	2022	5.6	170	2111	5.6	170	2052	5.6	170	2134	5.6	170	2134	5.6	170						
4 Su	0136	1.0	30	19 M	0228	1.0	30	4 W	0227	1.3	40	19 Th	0334	2.0	60	4 F	0306	1.3	40	19 Sa	0346	2.3	70	19 Sa	0932	5.9	180
	0739	5.9	180		0809	6.2	190		0822	6.2	190		0908	5.9	180		0853	6.2	190		0932	5.9	180				
	1405	0.7	20		1501	0.3	10		1511	0.3	10		1557	1.0	30		1548	0.0	0		1607	1.3	40				
	2005	5.6	170	2045	5.9	180	2105	5.6	170	2153	5.6	170	2142	5.9	180	2212	5.6	170	2212	5.6	170						
5 M	0211	1.0	30	20 Tu	0312	1.3	40	5 Th	0315	1.3	40	20 F	0414	2.3	70	5 Sa	0405	1.3	40	20 Su	0422	2.3	70	20 Su	1012	5.6	170
	0813	5.9	180		0851	6.2	190		0907	6.2	190		0952	5.6	170		0944	6.2	190		1012	5.6	170				
	1444	0.7	20		1543	0.7	20		1600	0.3	10		1636	1.3	40		1642	0.0	0		1640	1.3	40				
	2043	5.6	170	2129	5.6	170	2151	5.6	170	2235	5.6	170	2234	5.9	180	2250	5.6	170	2250	5.6	170						
6 Tu	0248	1.0	30	21 W	0354	1.6	50	6 F	0410	1.6	50	21 Sa	0456	2.3	70	6 Su	0509	1.6	50	21 M	0502	2.3	70	21 M	1051	5.6	170
	0849	5.9	180		0932	5.9	180		0954	5.9	180		1035	5.6	170		1036	6.2	190		1051	5.6	170				
	1526	0.7	20		1626	1.0	30		1655	0.3	10		1716	1.6	50		1738	0.3	10		1714	1.6	50				
	2123	5.6	170	2212	5.6	170	2240	5.6	170	2316	5.6	170	2325	5.9	180	2328	5.6	170	2328	5.6	170						
7 W	0328	1.3	40	22 Th	0439	2.0	60	7 Sa	0514	1.6	50	22 Su	0545	2.6	80	7 M	0615	1.6	50	22 Tu	0549	2.3	70	22 Tu	1130	5.2	160
	0927	5.9	180		1015	5.9	180		1043	5.9	180		1118	5.2	160		1130	5.9	180		1130	5.2	160				
	1611	0.7	20		1710	1.3	40		1754	0.7	20		1757	2.0	60		1836	0.7	20		1752	1.6	50				
	2203	5.6	170	2255	5.2	160	2332	5.2	160	2359	5.2	160															
8 Th	0415	1.6	50	23 F	0528	2.3	70	8 Su	0623	2.0	60	23 M	0637	2.6	80	8 Tu	0018	5.9	180	23 W	0007	5.6	170	23 W	0640	2.3	70
	1009	5.9	180		1059	5.6	170		1136	5.9	180		1203	5.2	160		0718	1.6	50		0640	2.3	70				
	1704	0.7	20		1756	1.6	50		1854	0.7	20		1841	2.0	60		1226	5.6	170		1211	4.9	150				
	2247	5.2	160	2339	5.2	160						1933	0.7	20	1835	2.0	60	1835	2.0	60							
9 F	0512	2.0	60	24 Sa	0625	2.6	80	9 M	0028	5.2	160	24 Tu	0047	5.2	160	9 W	0112	5.6	170	24 Th	0047	5.6	170	24 Th	0733	2.3	70
	1054	5.9	180		1145	5.2	160		0730	2.0	60		0731	2.6	80		0819	1.3	40		0733	2.3	70				
	1803	1.0	30		1845	2.0	60		1235	5.6	170		1251	4.9	150		1328	5.2	160		1257	4.9	150				
	2335	5.2	160				1954	1.0	30	1927	2.0	60	2030	1.0	30	1923	2.0	60	1923	2.0	60						
10 Sa	0622	2.0	60	25 Su	0027	5.2	160	10 Tu	0131	5.2	160	25 W	0139	5.2	160	10 Th	0210	5.6	170	25 F	0131	5.6	170	25 F	0825	2.0	60
	1143	5.6	170		0723	2.6	80		0833	1.6	50		0823	2.6	80		0918	1.3	40		0825	2.0	60				
	1907	1.0	30		1236	4.9	150		1342	5.2	160		1346	4.9	150		1437	4.9	150		1352	4.6	140				
				1935	2.0	60	2052	1.0	30	2015	2.0	60	2128	1.3	40	2014	2.0	60	2014	2.0	60						
11 Su	0031	4.9	150	26 M	0124	4.9	150	11 W	0241	5.6	170	26 Th	0235	5.2	160	11 F	0310	5.6	170	26 Sa	0220	5.2	160	26 Sa	0917	2.0	60
	0732	2.0	60		0819	2.6	80		0935	1.6	50		0913	2.3	70		1015	1.0	30		0917	2.0	60				
	1240	5.6	170		1334	4.9	150		1459	5.2	160		1449	4.6	140		1549	4.9	150		1457	4.6	140				
	2010	1.0	30	2024	2.0	60	2149	1.0	30	2104	2.0	60	2104	2.0	60	2225	1.3	40	2109	2.0	60						
12 M	0137	4.9	150	27 Tu	0232	4.9	150	12 Th	0347	5.6	170	27 F	0328	5.2	160	12 Sa	0409	5.6	170	27 Su	0313	5.6	170	27 Su	1011	1.3	40
	0839	2.0	60		0912	2.6	80		1034	1.3	40		1003	2.0	60		1110	1.0	30		1011	1.3	40				
	1349	5.6	170		1442	4.6	140		1613	5.2	160		1554	4.6	140		1654	4.9	150		1605	4.6	140				
	2111	1.0	30	2113	2.0	60	2246	1.3	40	2246	1.3	40	2155	2.0	60	2323	1.6	50	2206	2.0	60						
13 Tu	0259	5.2	160	28 W	0340	5.2	160	13 F	0442	5.9	180	28 Sa	0415	5.6	170	13 Su	0502	5.6	170	28 M	0408	5.6	170	28 M	1106	1.0	30
	0943	2.0	60		1001	2.3	70		1130	1.0	30		1051	1.6	50		1202	0.7	20		1106	1.0	30				
	1511	5.2	160		1549	4.9	150		1715	5.2	160		1652	4.9	150		1750	5.2	160		1707	4.9	150				
	2210	1.0	30	2202	2.0	60	2342	1.3	40	2342	1.3	40	2246	2.0	60	2305	2.0	60	2305	2.0	60						
14 W	0415	5.6	170	29 Th	0432	5.2	160	14 Sa	0531	5.9	180	29 Su	0458	5.6	170	14 M	0018	1.6	50	29 Tu	0504	5.9	180	29 Tu	1201	0.7	20
	1045	1.6	50		1048	2.0	60		1222	0.7	20		1140	1.0	30		0552	5.6	170		1201	0.7	20				
	1629	5.6	170		1645	4.9	150		1808	5.6	170		1743	4.9	150		1840	5.2	160		1802	4.9</					

Saint John, New Brunswick, 2009

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 W	0323	25.3	770		16 Th	0415	23.0	700		1 F	0417	24.9	760		16 Sa	0429	22.6	690		1 M	0004	4.6	140		16 Tu	0523	22.6	690	
	0948	3.6	110			1037	6.2	190			1044	3.6	110			1048	6.2	190			0615	24.3	740			1139	5.9	180	
	1559	23.6	720			1650	21.7	660			1658	23.6	720			1701	22.0	670			1233	4.3	130			1751	23.3	710	
	2214	4.9	150			2259	7.9	240			2313	5.2	160			2312	7.5	230			1849	24.6	750						
2 Th	0424	24.6	750		17 F	0511	22.3	680		2 Sa	0525	24.6	750		17 Su	0521	22.3	680		2 Tu	0108	4.6	140		17 W	0008	5.9	180	
	1052	4.3	130			1132	6.9	210			1150	4.3	130			1139	6.6	200			0720	24.0	730			0616	22.6	690	
	1704	23.0	700			1747	21.3	650			1806	23.6	720			1753	22.0	670			1333	4.6	140			1230	5.6	170	
	2320	5.6	170			2358	7.9	240			1912	24.0	730			1845	22.6	690			1948	24.6	750			1842	23.6	720	
3 F	0533	24.3	740		18 Sa	0610	22.0	670		3 Su	0622	5.2	160		18 M	0005	7.2	220		3 W	0208	4.3	130		18 Th	0103	5.2	160	
	1201	4.6	140			1230	6.9	210			0634	24.3	740			0615	22.3	680			0820	24.0	730			0711	22.6	690	
	1816	23.0	700			1845	21.3	650			1257	4.3	130			1845	22.6	690			1430	4.6	140			1323	5.6	170	
											1912	24.0	730			2043	24.9	760			2043	24.9	760			1935	24.6	750	
4 Sa	0031	5.6	170		19 Su	0056	7.9	240		4 M	0129	4.6	140		19 Tu	0059	6.6	200		4 Th	0303	3.9	120		19 F	0158	4.6	140	
	0645	24.3	740			0708	22.0	670			0741	24.3	740			0709	22.3	680			0915	24.0	730			0807	23.3	710	
	1311	4.6	140			1325	6.6	200			1359	3.9	120			1322	5.9	180			1523	4.6	140			1418	4.9	150	
	1926	23.3	710			1939	22.0	670			2013	24.6	750			1934	23.3	710			2134	25.3	770			2029	25.3	770	
5 Su	0141	4.9	150		20 M	0151	7.2	220		5 Tu	0230	3.9	120		20 W	0151	5.9	180		5 F	0354	3.6	110		20 Sa	0253	3.6	110	
	0754	24.6	750			0801	22.3	680			0841	24.6	750			0759	23.0	700			1006	24.0	730			0902	24.0	730	
	1417	3.9	120			1416	5.9	180			1455	3.9	120			1411	5.2	160			1612	4.6	140			1512	4.3	130	
	2030	24.3	740			2027	22.6	690			2107	25.3	770			2022	24.0	730			2221	25.3	770			2123	26.2	800	
6 M	0245	4.3	130		21 Tu	0240	6.2	190		6 W	0325	3.3	100		21 Th	0240	4.6	140		6 Sa	0441	3.3	100		21 Su	0347	2.3	70	
	0857	24.9	760			0849	23.0	700			0936	24.6	750			0849	23.6	720			1052	24.0	730			0957	24.6	750	
	1515	3.3	100			1502	5.2	160			1547	3.6	110			1459	4.6	140			1658	4.9	150			1607	3.6	110	
	2127	24.9	760			2110	23.6	720			2157	25.6	780			2108	25.3	770			2305	25.3	770			2217	27.2	830	
7 Tu	0342	3.3	100		22 W	0324	4.9	150		7 Th	0415	3.0	90		22 F	0328	3.3	100		7 Su	0525	3.3	100		22 M	0441	1.6	50	
	0952	25.6	780			0933	24.0	730			1025	24.6	750			0936	24.3	740			1136	24.0	730			1051	25.3	770	
	1608	3.0	90			1544	4.3	130			1634	3.6	110			1545	3.9	120			1741	4.9	150			1701	3.0	90	
	2217	25.6	780			2151	24.6	750			2242	25.9	790			2154	26.2	800			2347	25.3	770			2311	27.9	850	
8 W	0433	2.6	80		23 Th	0406	3.6	110		8 F	0501	2.6	80		23 Sa	0415	2.3	70		8 M	0607	3.6	110		23 Tu	0535	1.0	30	
	1042	25.6	780			1014	24.6	750			1111	24.6	750			1023	24.9	760			1216	24.0	730			1144	25.9	790	
	1655	2.6	80			1624	3.6	110			1718	3.9	120			1632	3.3	100			1822	5.2	160			1755	2.3	70	
	2303	26.2	800			2230	25.6	780			2325	25.9	790			2240	26.9	820											
9 Th	0520	2.3	70		24 F	0447	2.6	80		9 Sa	0544	2.6	80		24 Su	0502	1.6	50		9 Tu	0027	25.3	770		24 W	0004	28.2	860	
	1129	25.6	780			1055	24.9	760			1154	24.6	750			1111	25.												

Saint John, New Brunswick, 2009

Times and Heights of High and Low Waters

July				August				September																			
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height														
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm													
1 W	0039	4.6	140			16 Su	0709	22.6	690	1 Tu	0938	22.3	680	16 W	0255	3.0	90										
	0651	23.3	710	16 Th	1146		5.6	170	16 Su		1324	5.6	170		1 Tu	1547	6.2	190	16 W	0907	24.9	760					
	1303	5.2	160		16 Th		1758	24.3			740	16 Su	1937			24.9	760	1 Tu		2156	24.0	730	16 W	1521	3.3	100	
	1917	24.3	740				16 Th									16 Su						1 Tu		2132	26.2	800	16 W
2 Th	0140	4.6	140			2 Su	0918	22.3	680	17 M	0817	23.6	720	2 W	1021	23.0	700	17 Th	0353	2.3	70						
	0752	23.0	700	17 F	1244		5.6	170	17 M		1431	4.6	140		2 W	1629	5.6		170	17 Th	1003	25.9	790				
	1402	5.6	170		17 F		1857	24.6			750	17 M	2044			25.6	780		2 W		2238	24.3	740	17 Th	1618	2.3	70
	2015	24.3	740				17 F									17 M							2 W		2227	26.9	820	17 Th	2227	26.9	820
3 F	0238	4.6	140			3 M	1008	22.6	690	18 Tu	0920	24.6	750	3 Th	1058	23.6	720	18 F	1054	26.9	820						
	0850	23.0	700	18 Sa	1345		5.2	160	18 Tu		1533	3.6	110		3 Th	1707	4.9		150	18 F	1709	1.6	50				
	1458	5.6	170		18 Sa		1958	25.3			770	18 Tu	2145			26.9	820		3 Th		2315	24.6	750	18 F	2318	26.9	820
	2110	24.3	740				18 Sa									18 Tu							3 Th				
4 Sa	0331	4.3	130			4 Tu	1052	23.0	700	19 W	1018	25.6	780	4 F	1132	24.3	740	19 Sa	1142	27.2	830						
	0944	23.0	700	19 Su	1447		4.6	140	19 W		1631	2.3	70		4 F	1742	4.3		130	19 Sa	1758	1.3	40				
	1550	5.6	170		19 Su		2059	25.9			790	19 W	2242			27.6	840		4 F		2349	24.9	760	19 Sa			
	2159	24.6	750				19 Su									19 W							4 F				
5 Su	0421	4.3	130			5 W	1130	23.6	720	20 Th	1112	26.6	810	5 Sa	1204	24.6	750	20 Su	0006	26.9	820						
	1032	23.3	710	20 M	1547		3.6	110	20 Th		1726	1.6	50		5 Sa	1815	3.6		110	20 Su	0620	1.3	40				
	1638	5.6	170		20 M		2159	26.9			820	20 Th	2335			27.9	850		5 Sa					20 Su	1228	27.2	830
	2246	24.9	760				20 M									20 Th							5 Sa		1845	1.3	40	20 Su	1845	1.3	40
6 M	0506	3.9	120			6 Th	1205	24.0	730	21 F	1203	27.2	830	6 Su	0022	24.9	760	21 M	0053	26.2	800						
	1116	23.3	710	21 Tu	1645		2.6	80	21 F		1817	1.3	40		6 Su	0633	3.6		110	21 M	0706	2.0	60				
	1721	5.6	170		21 Tu		2256	27.9			850	21 F							6 Su		1237	25.3	770	21 M	1313	26.9	820
	2328	24.9	760				21 Tu									21 F							6 Su		1849	3.3	100	21 M	1931	1.6	50
7 Tu	0547	3.9	120			7 F	1238	24.3	740	22 Sa	1252	27.6	840	7 M	0707	3.3	100	22 Tu	0751	3.0	90						
	1156	23.6	720	22 W	1741		2.0	60	22 Sa		1907	1.3	40		7 M	1310	25.3		770	22 Tu	1359	26.2	800				
	1801	5.6	170		22 W		2350	28.2			860	22 Sa							7 M		1925	3.3	100	22 Tu	2018	2.6	80
8 W	0007	24.9	760			8 Sa	1310	24.6	750	23 Su	1339	27.2	830	8 Tu	0130	24.9	760	23 W	0227	24.6	750						
	0625	3.9	120	23 Th	1834		1.6	50	23 Su		1956	1.6	50		8 Tu	0742	3.6		110	23 W	0838	3.9	120				
	1232	23.6	720		23 Th							23 Su							8 Tu		1346	25.6	780	23 W	1447	25.3	770
	1838	5.2	160				23 Th									23 Su							8 Tu		2003	3.3	100	23 W	2107	3.6	110
9 Th	0044	24.9	760			9 Su	1343	24.6	750	24 M	1428	26.6	810	9 W	0209	24.6	750	24 Th	0317	23.6	720						
	0701	3.9	120	24 F	1927		1.6	50	24 M		2045	2.3	70		9 W	0821	3.9		120	24 Th	0928	5.2	160				
	1307	23.6	720		24 F							24 M							9 W		1427	25.3	770	24 Th	1537	24.3	740
	1914	5.2	160				24 F									24 M							9 W		2046	3.6	110	24 Th	2159	4.6	140
10 F	0120	24.9	760			10 M	1418	24.9	760	25 Tu	1517	25.6	780	10 Th	0252	24.0	730	25 F	0410	22.6	690						
	0736	4.3	130	25 Sa	2020		2.0	60	25 Tu		2136	3.3	100		10 Th	0905	4.6		140	25 F	1021	6.2	190				
	1342	24.0	730		25 Sa							25 Tu							10 Th		1512	24.9	760	25 F	1632	23.6	720
	1950	5.2	160				25 Sa									25 Tu							10 Th		2134	3.9	120	25 F	2255	5.6	170
11 Sa	0155	24.6	750			11 Tu	1456	24.6	750	26 W	1610	24.6	750	11 F	0342	23.3	710	26 Sa	0508	22.0	670						
	0811	4.3	130	26 Su	2113		2.6	80	26 W		2231	4.6	140		11 F	0956	5.2		160	26 Sa	1120	7.2	220				
	1417	24.0	730		26 Su																						

Saint John, New Brunswick, 2009

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 Th	0334	5.2	160		1 Su	0409	4.6	140		1 Tu	0414	4.3	130	
	0942	23.0	700			1016	24.9	760			1022	25.9	790	
	1553	5.6	170			1633	3.3	100			1644	2.3	70	
	2202	24.0	730			2241	24.3	740			2253	24.6	750	
2 F	0414	4.6	140		2 M	0448	3.9	120		2 W	0501	3.6	110	
	1020	24.0	730			1054	25.6	780			1108	26.9	820	
	1632	4.6	140			1713	2.6	80			1731	1.6	50	
	2240	24.3	740			2321	2.6	750			2340	24.9	760	
3 Sa	0450	4.3	130		3 Tu	0529	3.6	110		3 Th	0549	3.3	100	
	1055	24.6	750			1134	26.2	800			1156	27.2	830	
	1708	3.6	110			1754	2.0	60			1819	1.3	40	
	2316	24.6	750											
4 Su	0525	3.6	110		4 W	0002	24.9	760		4 F	0028	25.6	780	
	1129	25.3	770			0610	3.3	100			0639	3.0	90	
	1744	3.0	90			1216	26.6	810			1246	27.6	840	
	2351	24.9	760			1837	2.0	60			1910	1.3	40	
5 M	0600	3.3	100		5 Th	0045	24.9	760		5 Sa	0119	25.6	780	
	1204	25.6	780			0655	3.3	100			0731	3.0	90	
	1820	2.6	80			1302	26.6	810			1338	27.2	830	
						1924	2.0	60			2002	1.3	40	
6 Tu	0027	24.9	760		6 F	0132	24.9	760		6 Su	0212	25.6	780	
	0637	3.3	100			0744	3.6	110			0825	3.0	90	
	1241	25.9	790			1351	26.2	800			1433	26.9	820	
	1859	2.3	70			2014	2.3	70			2057	2.0	60	
7 W	0106	24.9	760		7 Sa	0224	24.6	750		7 M	0308	25.6	780	
	0716	3.6	110			0837	3.9	120			0922	3.3	100	
	1321	25.9	790			1444	25.9	790			1531	26.2	800	
	1941	2.6	80			2109	3.0	90			2154	2.3	70	
8 Th	0148	24.6	750		8 Su	0320	24.3	740		8 Tu	0407	25.3	770	
	0759	3.9	120			0934	4.6	140			1022	3.6	110	
	1405	25.6	780			1543	25.3	770			1632	25.6	780	
	2027	3.0	90			2209	3.3	100			2253	3.0	90	
9 F	0235	24.0	730		9 M	0421	24.0	730		9 W	0508	24.9	760	
	0848	4.6	140			1036	4.6	140			1125	3.9	120	
	1455	25.3	770			1647	24.9	760			1736	24.6	750	
	2119	3.6	110			2312	3.6	110			2354	3.6	110	
10 Sa	0328	23.6	720		10 Tu	0526	24.0	730		10 Th	0610	24.9	760	
	0943	4.9	150			1142	4.9	150			1229	3.9	120	
	1552	24.6	750			1754	24.6	750			1841	24.3	740	
	2218	3.9	120											
11 Su	0429	23.3	710		11 W	0016	3.9	120		11 F	0056	4.3	130	
	1045	5.6	170			0631	24.3	740			0711	24.9	760	
	1656	24.3	740			1249	4.6	140			1332	3.9	120	
	2323	4.6	140			1901	24.6	750			1944	24.0	730	
12 M	0536	23.0	700		12 Th	0119	3.9	120		12 Sa	0155	4.6	140	
	1153	5.6	170			0734	24.9	760			0809	25.3	770	
	1805	24.3	740			1353	3.9	120			1431	3.6	110	
						2004	24.6	750			2043	24.0	730	
13 Tu	0032	4.3	130		13 F	0219	3.6	110		13 Su	0252	4.6	140	
	0646	23.3	710			0832	25.3	770			0904	25.3	770	
	1302	4.9	150			1451	3.3	100			1526	3.3	100	
	1915	24.6	750			2102	24.6	750			2138	24.0	730	
14 W	0138	3.9	120		14 Sa	0314	3.6	110		14 M	0345	4.6	140	
	0752	24.3	740			0925	25.9	790			0955	25.3	770	
	1408	4.3	130			1545	2.6	80			1616	3.3	100	
	2020	24.9	760			2155	24.9	760			2228	24.0	730	
15 Th	0239	3.3	100		15 Su	0405	3.6	110		15 Tu	0435	4.6	140	
	0851	25.3	770			1014	26.2	800			1043	25.6	780	
	1508	3.3	100			1634	2.3	70			1704	3.3	100	
	2118	25.6	780			2245	24.9	760			2314	24.0	730	
				31 Sa	0329	5.2	160		31 Th	0437	3.6	110		
					0937	24.0	730			1047	27.2	830		
					1552	4.3	130			1711	1.6	50		
					2201	23.6	720			2320	25.6	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, 2009

Times and Heights of High and Low Waters

January				February				March																				
Time	Height			Time	Height			Time	Height			Time	Height															
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm		h	m	ft	cm									
1 Th	0132	17.8	543		16 F	0224	19.8	604		1 Su	0225	18.9	576		16 Su	0115	19.7	600		16 M	0204	19.0	579					
	0747	1.7	52			0845	-0.2	-6			0849	0.8	24			0955	1.5	46			0830	0.6	18					
	1347	18.4	561			1448	19.2	585			1448	18.1	552			1559	16.7	509			1432	17.5	533					
	2011	0.8	24			2110	-0.1	-3			2110	1.0	30			2215	2.5	76			2048	1.9	58					
2 F	0213	17.8	543		17 Sa	0316	19.1	582		2 M	0313	18.8	573		17 Tu	0423	17.4	530		2 M	0159	19.6	597		17 Tu	0251	18.0	549
	0830	1.8	55			0939	0.6	18			0941	1.0	30			1050	2.3	70			0827	0.0	0					
	1430	18.1	552			1542	18.1	552			1541	17.6	536			1656	15.9	485			1427	18.3	558					
	2054	1.0	30			2202	1.0	30			2202	1.5	46			2311	3.2	98			2046	0.9	27					
3 Sa	0257	17.9	546		18 Su	0409	18.5	564		3 Tu	0408	18.6	567		18 W	0521	16.8	512		3 Tu	0249	19.2	585		18 W	0343	17.2	524
	0918	1.8	55			1034	1.3	40			1039	1.2	37			1149	2.7	82			0920	0.4	12					
	1518	17.7	539			1638	17.1	521			1641	17.1	521			1757	15.4	469			1521	17.6	536					
	2140	1.3	40			2256	1.9	58			2301	1.9	58								2141	1.5	46					
4 Su	0346	18.1	552		19 M	0505	17.9	546		4 W	0508	18.6	567		19 Th	0610	3.6	110		4 W	0345	18.8	573		19 Th	0440	16.6	506
	1010	1.7	52			1132	1.9	58			1142	1.1	34			0621	16.7	509			1019	0.9	27					
	1611	17.4	530			1737	16.4	500			1745	16.9	515			1250	2.8	85			1622	17.1	521					
	2232	1.6	49			2353	2.6	79								1857	15.5	472			2243	2.0	61					
5 M	0439	18.3	558		20 Tu	0602	17.5	533		5 Th	0006	2.0	61		20 F	0110	3.5	107		5 Th	0449	18.5	564		20 F	0540	16.3	497
	1107	1.6	49			1231	2.2	67			0614	18.8	573			0719	16.9	515			1125	1.1	34					
	1709	17.2	524			1837	16.0	488			1249	0.8	24			1347	2.4	73			1729	16.8	512					
	2329	1.8	55								1852	17.1	521			1954	15.8	482			2350	2.1	64					
6 Tu	0537	18.6	567		21 W	0050	3.0	91		6 F	0112	1.6	49		21 Sa	0205	3.0	91		6 F	0557	18.5	564		21 Sa	0029	3.7	113
	1208	1.2	37			0659	17.4	530			0719	19.3	588			0813	17.4	530			1233	0.9	27					
	1810	17.2	524			1329	2.1	64			1354	0.1	3			1438	1.9	58			1838	17.1	521					
						1935	16.0	488			1957	17.8	543			2044	16.5	503										
7 W	0029	1.7	52		22 Th	0146	2.9	88		7 Sa	0216	0.8	24		22 Su	0255	2.4	73		7 Sa	0058	1.7	52		22 Su	0126	3.2	98
	0637	19.1	582			0754	17.6	536			0822	20.1	613			0901	18.0	549			0705	18.9	576					
	1310	0.5	15			1423	1.8	55			1455	-0.9	-27			1524	1.2	37			1339	0.3	9					
	1913	17.6	536			2028	16.3	497			2058	18.7	570			2128	17.2	524			1943	17.9	546					
8 Th	0131	1.3	40		23 F	0238	2.6	79		8 Su	0316	-0.2	-6		23 M	0339	1.6	49		8 Su	0203	0.8	24		23 M	0218	2.4	73
	0738	19.8	604			0844	18.0	549			0920	20.9	637			0944	18.6	567			0809	19.6	597					
	1412	-0.3	-9			1511	1.3	40			1551	-1.8	-55			1605	0.5	15			1439	-0.6	-18					
	2014	18.2	555			2115	16.7	509			2153	19.7	600			2208	17.9	546			2043	18.9	576					
9 F	0232	0.6	18		24 Sa	0325	2.2	67		9 M	0411	-1.1	-34		24 Tu	0420	0.9	27		9 M	0302	-0.3	-9		24 Tu	0305	1.5	46
	0837	20.6	628			0929	18.4	561			1014	21.5	655			1024	19.1	582			0907	20.4	622					
	1511	-1.2	-37			1555	0.9	27			1643	-2.4	-73			1644	0.0	0			1534	-1.3	-40					
	2112	18.9	576			2158	17.2	524			2244	20.4	622			2245	18.5	564			2136	19.9	607					
10 Sa	0330	-0.2	-6		25 Su	0407	1.8	55		10 Tu	0503	-1.7	-52		25 W	0459	0.4	12		10 Tu	0356	-1.2	-37		25 W	0348	0.6	18
	0933	21.3	649			1011	18.8	573			1105	21.8	664			1101	19.4	591			0959	20.9	637					
	1606	-2.0	-61			1635	0.5	15			1732	-2.6	-79			1721	-0.3	-9			1623	-1.9	-58					
	2208	19.7	600			2237	17.6	536			2333	20.9	637			2321	19.0	579			2225	20.6	628					
11 Su	0425	-0.9	-27		26 M	0447	1.4	43		11 W	0553	-2.0	-61		26 Th	0538	-0.1	-3		11 W	0446	-1.8	-55		26 Th	0430	-0.2	-6
	1028	21.9	668			1050	19.1	582			1154	21.6	658			1138	19.5	594			1048	21.1	643					
	1700	-2.6	-79			1713	0.1	3			1819	-2.4	-73			1758	-0.4	-12			1710	-2.0	-61					
	2301	20.2	616			2314	18.0	549								2357	19.4	591			2310	21.0	640					
12 M	0519	-1.4	-43		27 Tu	0526	1.0	30		12 Th	0620	20.9	637		27 F	0617	-0.4	-12		12 Th	0532	-2.0	-61		27 F	0510	-0.8	-24
	1121	22.1	674			1127	19.2	585			1242	21.0	640			1216	19.5	594			1133	20.9	637					
	1751	-2.8	-85			1750	-0.1	-3			1904	-1.8	-55			1836	-0.4	-12			1754	-1.7	-52					
	2352	20.5	625			2350	18.3	558													2354	20.9	637					
13 Tu	0611	-1.5	-46		28 W	0604	0.8	24		13 F	0106	20.6	628		28 Sa	0035	19.7	600		13 F	0617	-1.8	-55		28 Sa	0552	-1.2	-37
	1213	21.8	664			1204	19.3	588			0728	-1.3	-40			0657	-0.5	-15			1218	20.3	619					
	1841	-2.6	-79			1826	-0.1	-3			1329	20.1	613			1256	19.3	588			1837	-1.0	-30					
											1950	-0.9	-27			1916	-0.1	-3										
14 W	0043	20.5	625		29 Th	0026	18.5	564		14 Sa	0152	20.0	610		14 Sa	0036	20.5	625		14 Sa	0008	20.5	625					
	0702	-1.4	-43			0642	0.7	21			0815	-0.4	-12			0700	-1.2	-37			0635	-1.3	-40					
	1304	21.2	646			1241	19.2	585			1417	19.0	579			1301	19.5	594			1235	19.5	594					
	1930	-2.0	-61			1904	0.0	0			2036	0.3	9			1919	-0.1	-3			1853	-0.1	-3					
15 Th	0133	20.3	619		30 F	0103	18.7	570		15 Su	0239	19.1	582		15 Su	0119	19.8	604		15 Su	0052	20.4	622					
	0753	-0.9	-27			0721	0.6	18			0904	0.5	15			0744	-0.4	-12			0721	-1.1	-34					
	1355	20.3	619			1320	18.9	576			1506	17.8	543			1346	18.5	564			1321	19.1	582					
	2020	-1.2	-37			1942	0.2	6			2124	1.4	43			2002	0.9	27			1939	0.3	9					
				31 Sa	0142	18.9	576																					

Eastport, Maine, 2009

Times and Heights of High and Low Waters

April				May				June																					
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height																
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm															
1 W	0232	19.6	597		16 Th	0307	17.3	527		1 F	0321	19.3	588		16 Sa	0324	17.1	521		1 M	0511	18.5	564		16 Tu	0427	17.1	521	
	0905	0.0	0			0933	2.2	67			0953	0.0	0			0948	2.1	64			1133	0.4	12			1046	1.9	58	
	1507	17.8	543			1540	16.0	488			1559	18.0	549			1556	16.5	503			1743	18.9	576			1655	17.7	539	
	2128	1.5	46			2154	3.5	107			2220	1.4	43			2210	3.2	98			2304	3.1	94			2317	2.1	64	
2 Th	0331	19.0	579		17 F	0401	16.7	509		2 Sa	0425	18.8	573		17 Su	0416	16.8	512		2 Tu	0007	0.8	24		17 W	0520	17.0	518	
	1006	0.5	15			1026	2.7	82			1055	0.4	12			1038	2.3	70			0612	18.2	555			1138	1.9	58	
	1610	17.3	527			1635	15.8	482			1703	18.0	549			1647	16.6	506			1232	0.8	24			1328	1.8	55	
	2231	1.9	58			2249	3.7	113			2325	1.4	43			2304	3.1	94			1840	19.0	579			1747	18.1	552	
3 F	0437	18.5	564		18 Sa	0457	16.4	500		3 Su	0531	18.5	564		18 M	0510	16.7	509		3 W	0107	0.6	18		18 Th	0012	1.6	49	
	1111	0.8	24			1121	2.9	88			1158	0.5	15			1130	2.3	70			0712	18.0	549			0615	17.1	521	
	1717	17.2	524			1731	15.8	482			1807	18.3	558			1740	17.0	518			1328	1.0	30			1232	1.8	55	
	2338	1.9	58			2346	3.6	110			1906	18.8	573			2358	2.7	82			1935	19.2	585			1840	18.7	570	
4 Sa	0545	18.4	561		19 Su	0555	16.5	503		4 M	0029	1.0	30		19 Tu	0604	16.9	515		4 Th	0203	0.4	12		19 F	0108	1.0	30	
	1217	0.8	24			1217	2.7	82			0635	18.5	564			1223	2.2	67			0807	17.9	546			0712	17.5	533	
	1824	17.6	536			1827	16.3	497			1259	0.5	15			1831	17.6	536			1421	1.2	37			1328	1.5	46	
											1906	18.8	573			2025	19.3	588			2025	19.3	588			1934	19.4	591	
5 Su	0046	1.4	43		20 M	0043	3.1	94		5 Tu	0130	0.5	15		20 W	0053	2.0	61		5 F	0255	0.2	6		20 Sa	0205	0.2	6	
	0652	18.7	570			0650	16.8	512			0735	18.7	570			0657	17.2	524			0858	17.9	546			0807	18.0	549	
	1321	0.4	12			1310	2.3	70			1355	0.3	9			1315	1.8	55			1511	1.3	40			1424	1.1	34	
	1927	18.3	558			1919	17.0	518			2001	19.4	591			1921	18.3	558			2113	19.4	591			2028	20.1	613	
6 M	0149	0.6	18		21 Tu	0136	2.3	70		6 W	0227	-0.1	-3		21 Th	0146	1.2	37		6 Sa	0342	0.0	0		21 Su	0301	-0.7	-21	
	0754	19.2	585			0742	17.4	530			0830	18.9	576			0749	17.7	539			0944	17.9	546			0903	18.5	564	
	1419	-0.2	-6			1401	1.7	52			1448	0.2	6			1406	1.3	40			1557	1.4	43			1519	0.5	15	
	2024	19.2	585			2006	17.9	546			2051	19.8	604			2010	19.2	585			2157	19.3	588			2122	20.8	634	
7 Tu	0246	-0.3	-9		22 W	0226	1.3	40		7 Th	0318	-0.6	-18		22 F	0237	0.2	6		7 Su	0426	0.0	0		22 M	0355	-1.4	-43	
	0850	19.7	600			0830	18.0	549			0920	19.0	579			0840	18.3	558			1028	17.8	543			0957	19.1	582	
	1512	-0.7	-21			1448	1.1	34			1536	0.2	6			1456	0.8	24			1640	1.6	49			1614	0.0	0	
	2115	20.0	610			2051	18.8	573			2137	20.1	613			2059	20.0	610			2239	19.2	585			2215	21.3	649	
8 W	0338	-1.0	-30		23 Th	0313	0.4	12		8 F	0404	-0.8	-24		23 Sa	0328	-0.7	-21		8 M	0508	0.1	3		23 Tu	0449	-2.0	-61	
	0941	20.0	610			0916	18.7	570			1006	19.0	579			0930	18.9	576			1109	17.7	539			1050	19.6	597	
	1601	-0.9	-27			1532	0.5	15			1621	0.4	12			1546	0.4	12			1721	1.7	52			1708	-0.5	-15	
	2202	20.5	625			2134	19.6	597			2220	20.1	613			2147	20.7	631			2320	19.1	582			2309	21.6	658	
9 Th	0426	-1.5	-46		24 F	0358	-0.5	-15		9 Sa	0448	-0.8	-24		24 Su	0418	-1.4	-43		9 Tu	0548	0.3	9		24 W	0542	-2.4	-73	
	1028	20.1	613			1000	19.2	585			1049	18.8	573			1019	19.3	588			1149	17.6	536			1144	19.9	607	
	1645	-0.9	-27			1617	0.1	3			1703	0.7	21			1635	0.0	0			1801	1.9	58			1802	-0.8	-24	
	2245	20.7	631			2217	20.4	622			2302	19.9	607			2236	21.2	646											
10 F	0510	-1.5	-46		25 Sa	0443	-1.2	-37		10 Su	0529	-0.5	-15		25 M	0508	-1.9	-58		10 W	0000	18.8	573		25 Th	0003	21.6	658	
	1111	19.9	607			1044	19.5	594			1131	18.5	564			1109	19.6	597			0627	0.5	15			0635	-2.4	-73	
	1728	-0.5	-15			1701	-0.2	-6			1744	1.1	34			1726	-0.2	-6			1229	17.5	533			1237	20.1	613	
	2327	20.5	625			2300	20.8	634			2342	19.5	594			2326	21.4	652			1841	2.1	64			1856	-0.8	-24	
11 Sa	0553	-1.3	-40		26 Su	0528	-1.6	-49		11 M	0610	-0.2	-6		26 Tu	0559	-2.1	-64		11 Th	0041	18.6	567		26 F	0057	21.3	649	
	1153	19.4	591			1129	19.7	600			1211	18.1	552			1200	19.7	600			0707	0.8	24			0727	-2.2	-67	
	1809	0.1	3			1746	-0.3	-9			1824	1.6	49			1817	-0.3	-9			1309	17.3	527			1331	20.1	613	
						2345	21.0	640													1922	2.2	67			1951	-0.7	-21	
12 Su	0008	20.1	613		27 M	0616	-1.8	-55		12 Tu	0023	19.1	582		27 W	0018	21.3	649		12 F	0122	18.2	555		27 Sa	0152	20.7	631	
	0634	-0.7	-21			1216	19.6	597			0650	0.3	9			0651	-2.0	-61			0747	1.0	30			0820	-1.7	-52	
	1235	18.8	573			1834	-0.1	-3			1252	17.6	536			1253	19.6	597			1351	17.2	524			1426	19.9	607	
	1850	0.8	24								1905	2.0	61			1911	-0.2	-6			2004	2.4	73			2046	-0.4	-12	
13 M	0049	19.5	594		28 Tu	0033	20.9	637		13 W	0105	18.6	567		28 Th	0112	21.0	640		13 Sa	0205	17.9	546		28 Su	0249	20.0	610	
	0716	0.0	0			0705	-1.6	-49			0732	0.9	27			0744	-1.7	-52			0829	1.3	40			0914	-1.0	-30	
	1318	18.1	552			1306	19.2	585			1335	17.2	524			1347	19.4	591			1433	17.2	524			1521	19.6	597	
	1932	1.6	49			1924	0.2	6			1948	2.5	76			2007	0.1	3			2048	2.5	76						

Eastport, Maine, 2009

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 W	0545	17.6	536	16 Th	0442	17.1	521	1 Sa	0106	1.7	52	16 Su	0014	0.9	27	1 Tu	0220	1.7	52	16 W	0204	-0.4	-12
	1202	1.4	43		1100	1.8	55		0712	16.2	494		0618	17.0	518		0826	16.6	506		0808	18.8	573
	1811	18.7	570		1708	18.5	564		1324	2.8	85		1237	1.8	55		1437	2.3	70		1428	-0.1	-3
2 Th	0039	1.0	30	17 F	0540	17.0	518	2 Su	0201	1.6	49	17 M	0119	0.3	9	2 W	0306	1.2	37	17 Th	0300	-1.2	-37
	0644	17.2	524		1157	1.9	58		0807	16.4	500		0722	17.6	536		0910	17.2	524		0903	19.9	607
	1258	1.8	55		1805	18.8	573		1418	2.6	79		1341	1.2	37		1522	1.7	52		1524	-1.1	-34	2127	20.8	634
3 F	0136	1.0	30	18 Sa	0037	0.9	27	3 M	0252	1.3	40	18 Tu	0221	-0.5	-15	3 Th	0348	0.7	21	18 F	0352	-1.8	-55
	0741	17.0	518		0640	17.2	524		0856	16.7	509		0823	18.4	561		0951	17.8	543		0954	20.7	631
	1353	2.1	64		1258	1.7	52		1507	2.3	70		1442	0.2	6		1604	1.2	37		1617	-1.8	-55	2218	21.1	643
4 Sa	0230	0.9	27	19 Su	0139	0.2	6	4 Tu	0338	1.0	30	19 W	0318	-1.4	-43	4 F	0426	0.3	9	19 Sa	0441	-2.0	-61
	0833	17.0	518		0741	17.7	539		0941	17.0	518		0921	19.4	591		1028	18.4	561		1042	21.2	646
	1445	2.1	64		1359	1.2	37		1552	1.9	58		1442	-0.7	-21		1643	0.7	21		1706	-2.2	-67	2307	21.0	640
5 Su	0319	0.8	24	20 M	0239	-0.6	-18	5 W	0419	0.6	18	20 Th	0412	-2.1	-64	5 Sa	0504	0.1	3	20 Su	0528	-1.8	-55
	0922	17.1	521		0841	18.3	558		1022	17.4	530		1014	20.3	619		1105	18.8	573		1128	21.3	649
	1533	2.1	64		1458	0.5	15		1633	1.6	49		1634	-1.5	-46		1721	0.3	9		1753	-2.1	-64	2354	20.5	625
6 M	0404	0.6	18	21 Tu	0336	-1.4	-43	6 Th	0458	0.4	12	21 F	0503	-2.5	-76	6 Su	0540	0.1	3	21 M	0614	-1.2	-37
	1006	17.2	524		0938	19.1	582		1100	17.8	543		1105	20.9	637		1140	19.1	582		1214	20.9	637
	1617	2.0	61		1556	-0.3	-9		1712	1.3	40		1726	-2.0	-61		1800	0.1	3		1840	-1.6	-49	2218	18.8	573
7 Tu	0445	0.5	15	22 W	0431	-2.1	-64	7 F	0535	0.2	6	22 Sa	0552	-2.5	-76	7 M	0617	0.2	6	22 Tu	0041	19.7	600
	1047	17.4	530		1033	19.8	604		1137	18.1	552		1154	21.1	643		1217	19.3	588		0659	-0.4	-12
	1658	1.9	58		1651	-1.0	-30		1750	1.1	34		1816	-2.1	-64		1839	0.0	0		1300	20.3	619
8 W	0525	0.5	15	23 Th	0524	-2.6	-79	8 Sa	0612	0.2	6	23 Su	0018	21.1	643	8 Tu	0037	18.7	570	23 W	0128	18.8	573
	1127	17.5	533		1126	20.4	622		1212	18.3	558		0640	-2.0	-61		0656	0.4	12		0745	0.6	18
	1738	1.8	55		1745	-1.4	-43		1828	0.9	27		1242	21.0	640		1255	19.3	588		1347	19.4	591
9 Th	0603	0.4	12	24 F	0615	-2.7	-82	9 Su	0027	18.7	570	24 M	0107	20.4	622	9 W	0118	18.4	561	24 Th	0217	17.7	539
	1205	17.6	536		1217	20.7	631		0648	0.3	9		0728	-1.2	-37		0737	0.8	24		0833	1.7	52
	1816	1.7	52		1838	-1.6	-49		1249	18.5	564		1330	20.5	625		1337	19.2	585		1436	18.4	561
10 F	0017	18.7	570	25 Sa	0039	21.4	652	10 M	0105	18.5	564	25 Tu	0157	19.3	588	10 Th	0204	18.0	549	25 F	0309	16.8	512
	0641	0.5	15		0706	-2.4	-73		0726	0.5	15		0816	-0.2	-6		0822	1.2	37		0924	2.6	79
	1242	17.7	539		1309	20.7	631		1326	18.6	567		1420	19.7	600		1424	19.0	579		1529	17.6	536
11 Sa	0055	18.5	564	26 Su	0132	20.7	631	11 Tu	0145	18.2	555	26 W	0249	18.2	555	11 F	0255	17.5	533	26 Sa	0404	16.1	491
	0718	0.6	18		0756	-1.7	-52		0805	0.8	24		0906	0.9	27		0914	1.7	52		1018	3.3	101
	1321	17.8	543		1400	20.4	622		1407	18.7	570		1511	18.9	576		1517	18.7	570		1626	17.0	518
12 Su	0135	18.2	555	27 M	0225	19.8	604	12 W	0229	17.8	543	27 Th	0343	17.2	524	12 Sa	0352	17.0	518	27 Su	0503	15.7	479
	0757	0.8	24		0847	-0.8	-24		0848	1.2	37		0959	2.0	61		1012	2.1	64		1116	3.6	110
	1400	17.9	546		1452	19.9	607		1451	18.7	570		1605	18.0	549		1617	18.5	564		1725	16.7	509
13 M	0216	18.0	549	28 Tu	0319	18.8	573	13 Th	0318	17.4	530	28 F	0440	16.4	500	13 Su	0456	16.9	515	28 M	0602	15.7	479
	0837	1.0	30		0939	0.2	6		0937	1.6	49		1055	2.8	85		1116	2.1	64		1214	3.5	107
	1441	18.0	549		1546	19.3	588		1542	18.6	567		1703	17.4	530		1723	18.5	564		1824	16.8	512
14 Tu	0300	17.6	536	29 W	0416	17.8	543	14 F	0413	17.1	521	29 Sa	0540	15.9	485	14 M	0602	17.1	521	29 Tu	0048	2.5	76
	0921	1.3	40		1033	1.2	37		1031	1.9	58		1153	3.2	98		1222	1.8	55		0658	16.1	491
	1526	18.1	552		1641	18.6	567		1638	18.5	564		1802	17.1	521		1829	18.9	576		1310	3.0	91
15 W	0349	17.3	527	30 Th	0514	16.9	515	15 Sa	0514	16.9	515	30 Su	0031	2.3	70	15 Tu	0102	0.3	9	30 W	0140	2.0	61
	1008	1.6	49		1129	2.1	64		1132	2.0	61		1252	3.2	98		0707	17.8	543		0748	16.8	512
	1615	18.3	558		1738	18.1	552		1740	18.7	570		1900	17.2	524		1327	1.0	30		1401	2.3	70
16 Th	02240	1.5	46	31 F	0007	1.6	49	31 M	0128	2.1	64	31 Tu	0128	2.1	64	31 W	0208	17.7	539				
					0613	16.4	500		0735	16.1	491		0735	16.1	491		0735	16.1	491	2008	17.7	539	
					1227	2.6	79		1347	2.9	88		1954	17.5	533		1954	17.5	533				

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, 2009

Times and Heights of High and Low Waters

October				November				December																									
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height																				
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm																			
1 Th	0227	1.5	46		16 F	0240	-0.8	-24		1 Su	0313	0.8	24		16 M	0357	0.0	0		1 Tu	0325	0.8	24		16 W	0423	1.1	34					
	0833	17.6	536			0844	20.2	616			0916	19.4	591			0958	20.5	625			0927	20.2	616			1023	19.7	600					
	1448	1.6	49			1508	-1.1	-34			1539	0.0	0			1627	-1.1	-34			1556	-0.8	-24			1652	-0.3	-9		1652	-0.3	-9	
	2053	18.2	555			2110	20.1	613			2141	18.7	570			2228	19.0	579			2157	18.8	573			2253	18.1	552		2253	18.1	552	
2 F	0310	0.9	27		17 Sa	0331	-1.1	-34		2 M	0356	0.5	15		17 Tu	0442	0.3	9		2 W	0412	0.3	9		17 Th	0505	1.2	37					
	0915	18.3	558			0933	20.8	634			0957	20.0	610			1042	20.4	622			1014	20.8	634			1105	19.6	597					
	1531	0.8	24			1558	-1.6	-49			1623	-0.7	-21			1711	-1.0	-30			1645	-1.4	-43			1733	-0.1	-3		1733	-0.1	-3	
	2134	18.6	567			2200	20.2	616			2224	19.0	579			2311	18.7	570			2245	19.2	585			2333	17.9	546		2333	17.9	546	
3 Sa	0351	0.5	15		18 Su	0418	-1.1	-34		3 Tu	0439	0.3	9		18 W	0525	0.7	21		3 Th	0501	0.0	0		18 F	0546	1.4	43					
	0953	18.9	576			1019	21.1	643			1039	20.4	622			1124	20.0	610			1101	21.2	646			1145	19.3	588					
	1612	0.2	6			1646	-1.8	-55			1707	-1.1	-34			1753	-0.5	-15			1733	-1.8	-55			1812	0.1	3		1812	0.1	3	
	2214	18.9	576			2247	20.1	613			2307	19.1	582			2354	18.3	558			2333	19.4	591			2333	19.4	591		2333	19.4	591	
4 Su	0430	0.2	6		19 M	0504	-0.8	-24		4 W	0522	0.2	6		19 Th	0607	1.2	37		4 F	0550	-0.1	-3		19 Sa	0625	1.6	49					
	1031	19.5	594			1104	21.0	640			1122	20.6	628			1206	19.5	594			1151	21.3	649			0625	1.6	49					
	1652	-0.3	-9			1731	-1.6	-49			1752	-1.2	-37			1835	0.0	0			1823	-1.8	-55			1226	19.0	579					
	2252	19.0	579			2332	19.6	597			2351	19.1	582								1915	-1.7	-52			1852	0.4	12					
5 M	0509	0.1	3		20 Tu	0548	-0.2	-6		5 Th	0608	0.3	9		20 F	0636	17.9	546		5 Sa	0642	-0.1	-3		20 Su	0705	1.9	58					
	1108	19.8	604			1147	20.6	628			1207	20.6	628			0649	1.7	52			0642	-0.1	-3			0705	1.9	58					
	1732	-0.6	-18			1815	-1.1	-34			1839	-1.2	-37			1249	19.0	579			1242	21.1	643			1306	18.6	567					
	2332	19.0	579													1917	0.6	18			1915	-1.7	-52			1931	0.8	24					
6 Tu	0548	0.2	6		21 W	0616	19.0	579		6 F	0639	18.9	576		21 Sa	0732	2.2	67		6 Su	0735	0.0	0		21 M	0746	2.1	64					
	1147	20.0	610			0632	0.5	15			0656	0.6	18			0732	2.2	67			0735	0.0	0			0746	2.1	64					
	1813	-0.7	-21			1231	19.9	607			1256	20.4	622			1333	18.3	558			1336	20.6	628			1348	18.2	555					
						1859	-0.4	-12			1930	-0.9	-27			2000	1.2	37			2008	-1.3	-40			2011	1.1	34					
7 W	0630	0.4	12		22 Th	0716	1.4	43		7 Sa	0749	0.9	27		22 Su	0817	2.7	82		7 M	0831	0.3	9		22 Tu	0829	2.3	70					
	1228	20.0	610			1316	19.1	582			1349	19.9	607			1419	17.8	543			1433	20.0	610			1431	17.7	539					
	1857	-0.6	-18			1944	0.5	15			2024	-0.5	-15			2046	1.7	52			2104	-0.8	-24			2053	1.5	46					
8 Th	0714	0.8	24		23 F	0801	2.2	67		8 Su	0845	1.2	37		23 M	0904	3.0	91		8 Tu	0930	0.6	18		23 W	0915	2.5	76					
	1314	19.8	604			1403	18.2	555			1447	19.4	591			1508	17.2	524			1533	19.3	588			1517	17.2	524					
	1945	-0.3	-9			2031	1.3	40			2121	0.0	0			2133	2.1	64			2201	-0.2	-6			2138	1.9	58					
9 F	0803	1.2	37		24 Sa	0850	2.9	88		9 M	0946	1.4	43		24 Tu	0955	3.2	98		9 W	1032	0.8	24		24 Th	1003	2.6	79					
	1404	19.4	591			1453	17.5	533			1550	18.9	576			1600	16.8	512			1636	18.6	567			1606	16.8	512					
	2038	0.2	6			2121	2.0	61			2222	0.3	9			2222	2.4	73			2300	0.3	9			2226	2.2	67					
10 Sa	0858	1.7	52		25 Su	0941	3.4	104		10 Tu	1050	1.4	43		25 W	1047	3.2	98		10 Th	1134	0.8	24		25 F	1055	2.6	79					
	1500	18.9	576			1547	16.9	515			1655	18.6	567			1653	16.6	506			1739	18.2	555			1659	16.5	503					
	2135	0.6	18			2213	2.5	76			2324	0.4	12			2313	2.5	76								2317	2.4	73					
11 Su	0959	2.0	61		26 M	1036	3.6	110		11 W	1155	1.1	34		26 Th	1142	2.9	88		11 F	1237	0.6	18		26 Sa	1151	2.3	70					
	1603	18.6	567			1644	16.6	506			1800	18.5	564			1747	16.6	506			1841	17.9	546			1754	16.5	503					
	2238	0.8	24			2308	2.7	82																									
12 M	1104	1.9	58		27 Tu	1132	3.5	107		12 Th	1257	0.5	15		27 F	1236	2.4	73		12 Sa	1336	0.4	12		27 Su	1247	1.8	55					
	1709	18.5	564			1740	16.6	506			1902	18.7	570			1841	16.8	512			1940	17.9	546			1851	16.7	509					
	2342	0.7	21																														
13 Tu	0549	17.6	536		28 W	0613	16.4	500		13 F	0730	19.5	594		28 Sa	0754	18.7	570		13 Su	0852	19.6	597		28 M	0917	1.7	55					
	1210	1.5	46			1228	3.1	94			1356	-0.1	-3			1328	1.7	52			1432	0.0	0			1522	-0.2	-6					
	1816	18.7	570			1835	16.8	512			2000	18.9	576			1932	17.2	524			2035	18.0	549			2125	18.1	552					
14 W	0652	18.4	561		29 Th	0704	17.0	518		14 Sa	0823	20.1	613		29 Su	0841	19.5	594		14 M	0917	1.7	55		29 Tu	0908	1.9	591					
	1314	0.7	21			1320	2.4	73			1450	-0.7	-21			1419	0.8	24			1522	-0.2	-6			1440	0.1	3	</				

Bar Harbor, Maine, 2009

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 Th	0124	10.1	308	16 F	0223	11.6	354	1 Su	0211	11.0	335	16 M	0328	10.7	326	1 Su	0100	11.6	354	16 M	0159	11.1	338
	0726	1.4	43		0838	0.0	0		0827	0.6	18		0954	1.0	30		0718	-0.1	-3		0824	0.4	12
	1333	10.7	326		1446	11.2	341		1435	10.4	317		1604	9.5	290		1326	10.9	332		1434	9.9	302
	1952	0.6	18		2101	0.0	0		2043	0.8	24		2209	1.8	55		1932	0.4	12		2036	1.5	46
2 F	0203	10.2	311	17 Sa	0316	11.2	341	2 M	0258	11.1	338	17 Tu	0423	10.2	311	2 M	0144	11.6	354	17 Tu	0246	10.6	323
	0809	1.3	40		0935	0.5	15		0920	0.7	21		1054	1.4	43		0806	0.0	0		0915	1.0	30
	1416	10.5	320		1543	10.5	320		1529	10.0	305		1704	9.0	274		1415	10.5	320		1525	9.3	283
	2032	0.7	21		2155	0.7	21		2135	1.0	30		2308	2.2	67		2019	0.8	24		2128	2.0	61
3 Sa	0245	10.4	317	18 Su	0411	10.9	332	3 Tu	0352	11.1	338	18 W	0522	9.9	302	3 Tu	0234	11.4	347	18 W	0339	10.1	308
	0856	1.3	40		1035	0.8	24		1020	0.7	21		1155	1.6	49		0900	0.2	6		1010	1.5	46
	1503	10.2	311		1643	9.8	299		1630	9.7	296		1807	8.8	268		1511	10.1	308		1622	8.9	271
	2117	0.9	27		2251	1.3	40		2234	1.3	40		2009	2.4	73		2114	1.1	34		2225	2.4	73
4 Su	0332	10.5	320	19 M	0508	10.6	323	4 W	0454	11.1	338	19 Th	0623	9.9	302	4 W	0331	11.2	341	19 Th	0437	9.7	296
	0949	1.2	37		1136	1.1	34		1128	0.6	18		1256	1.6	49		1003	0.5	15		1110	1.7	52
	1557	10.0	305		1745	9.4	287		1739	9.6	293		1907	8.8	268		1615	9.7	296		1723	8.7	265
	2207	1.0	30		2349	1.7	52		2342	1.3	40		2001	9.1	277		2219	1.4	43		2326	2.5	76
5 M	0424	10.8	329	20 Tu	0606	10.4	317	5 Th	0602	11.3	344	20 F	0721	10.0	305	5 Th	0438	11.1	338	20 F	0539	9.6	293
	1048	1.0	30		1236	1.2	37		1238	0.3	9		1350	1.3	40		1113	0.5	15		1210	1.8	55
	1656	9.8	299		1846	9.2	280		1849	9.8	299		2001	9.1	277		1726	9.6	293		1823	8.8	268
	2303	1.1	34										2001	9.1	277		2331	1.4	43				
6 Tu	0522	11.0	335	21 W	0047	1.9	58	6 F	0052	1.1	34	21 Sa	0202	2.0	61	6 F	0549	11.1	338	21 Sa	0027	2.4	73
	1151	0.6	18		0702	10.4	317		0710	11.7	357		0813	10.3	314		1224	0.4	12		0639	9.7	296
	1800	9.8	299		1333	1.1	34		1344	-0.2	-6		1439	1.0	30		1838	9.9	302		1306	1.6	49
					1943	9.2	280		1956	10.3	314		2047	9.5	290						1918	9.1	277
7 W	0004	1.1	34	22 Th	0142	1.9	58	7 Sa	0158	0.6	18	22 Su	0249	1.6	49	7 Sa	0044	1.1	34	22 Su	0123	2.1	64
	0623	11.4	347		0755	10.5	320		0814	12.2	372		0858	10.7	326		0700	11.4	347		0733	10.0	305
	1256	0.2	6		1425	0.9	27		1445	-0.7	-21		1521	0.7	21		1331	0.0	0		1356	1.3	40
	1906	10.0	305		2035	9.3	283		2056	10.9	332		2128	9.9	302		1944	10.4	317		2006	9.6	293
8 Th	0107	0.9	27	23 F	0233	1.8	55	8 Su	0259	0.0	0	23 M	0331	1.2	37	8 Su	0151	0.6	18	23 M	0212	1.6	49
	0725	11.9	363		0844	10.7	326		0914	12.7	387		0939	11.0	335		0805	11.9	363		0821	10.4	317
	1358	-0.4	-12		1511	0.7	21		1540	-1.2	-37		1558	0.4	12		1430	-0.5	-15		1439	0.9	27
	2009	10.4	317		2120	9.6	293		2151	11.5	351		2205	10.3	314		2042	11.1	338		2048	10.1	308
9 F	0209	0.5	15	24 Sa	0318	1.5	46	9 M	0355	-0.5	-15	24 Tu	0409	0.8	24	9 M	0250	-0.1	-3	24 Tu	0256	1.1	34
	0825	12.5	381		0927	10.9	332		1008	13.0	396		1016	11.2	341		0903	12.3	375		0904	10.7	326
	1458	-1.0	-30		1552	0.4	12		1631	-1.6	-49		1633	0.2	6		1524	-0.9	-27		1519	0.6	18
	2108	10.9	332		2200	9.8	299		2241	12.0	366		2239	10.7	326		2134	11.7	357		2126	10.6	323
10 Sa	0309	0.1	3	25 Su	0358	1.3	40	10 Tu	0448	-0.9	-27	25 W	0445	0.5	15	10 Tu	0344	-0.7	-21	25 W	0336	0.5	15
	0923	13.0	396		1007	11.1	338		1100	13.1	399		1052	11.4	347		0955	12.5	381		0944	11.0	335
	1553	-1.5	-46		1630	0.2	6		1719	-1.6	-49		1706	0.0	0		1612	-1.1	-34		1555	0.3	9
	2204	11.4	347		2237	10.1	308		2329	12.3	375		2312	11.0	335		2222	12.2	372		2202	11.1	338
11 Su	0405	-0.4	-12	26 M	0436	1.1	34	11 W	0538	-1.1	-34	26 Th	0520	0.2	6	11 W	0434	-1.1	-34	26 Th	0414	0.1	3
	1019	13.3	405		1043	11.3	344		1149	12.9	393		1127	11.4	347		1044	12.6	384		1022	11.2	341
	1646	-1.8	-55		1705	0.1	3		1806	-1.4	-43		1739	0.0	0		1657	-1.1	-34		1630	0.1	3
	2257	11.7	357		2311	10.3	314						2345	11.3	344		2307	12.4	378		2237	11.6	354
12 M	0500	-0.7	-21	27 Tu	0512	0.9	27	12 Th	0016	12.3	375	27 F	0556	0.0	0	12 Th	0521	-1.2	-37	27 F	0452	-0.3	-9
	1113	13.3	405		1118	11.3	344		0628	-1.0	-30		1204	11.3	344		1130	12.3	375		1100	11.4	347
	1738	-1.8	-55		1738	0.1	3		1237	12.4	378		1813	0.0	0		1741	-0.8	-24		1706	0.0	0
	2349	12.0	366		2344	10.5	320		1852	-0.9	-27						2350	12.3	375		2314	11.9	363
13 Tu	0554	-0.8	-24	28 W	0546	0.8	24	13 F	0102	12.1	369	28 Sa	0021	11.5	351	13 F	0606	-1.0	-30	28 Sa	0532	-0.6	-18
	1205	13.1	399		1153	11.3	344		0717	-0.6	-18		0635	-0.1	-3		1215	11.9	363		1140	11.3	344
	1828	-1.6	-49		1810	0.1	3		1326	11.7	357		1243	11.2	341		1823	-0.4	-12		1744	0.0	0
									1938	-0.3	-9		1850	0.2	6						2353	12.1	369
14 W	0040	12.0	366	29 Th	0017	10.7	326	14 Sa	0149	11.7	357	14 Sa	0032	12.1	369	14 Sa	0614	-0.7	-21	29 Su	0614	-0.7	-21
	0647	-0.6	-18		0622	0.7	21		0807	-0.1	-3		0651	-0.7	-21		1224	11.2	341		1826	0.2	6
	1258	12.6	384		1228	11.2	341		1416	10.9	332		1300	11.3	344								
	1919	-1.2	-37		1844	0.2	6		2025	0.4	12		1906	0.2	6								
15 Th	0131	11.9	363	30 F	0052	10.8	329	15 Su	0237	11.2	341	15 Su	0115	11.6	354	15 Su	0036	12.1	369	30 M	0036	12.1	369
	0742	-0.4	-12		0659	0.6	18		0859	0.4	12		0736	-0.1	-3		0700	-0.7	-21		0700	-0.7	-21
	1352	12.0	366		1306	11.0	335		1508	10.2	311		1346	10.6	323		1311	10.9	332		1311	10.9	332
	2009	-0.6	-18		1919	0.3	9		2115	1.2	37		1950	0.9	27		1912	0.5	15		1912	0.5	15
			31 Sa	0129	10.9	332										31 Tu	0124	12.0	366				
				0741	0.6	18											0751	-0.4	-12				
				1348	10.7	326																	
				1958	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.

Bar Harbor, Maine, 2009

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 W	0218	11.7	357		16 Th	0300	10.1	308		1 F	0312	11.5	351		16 Sa	0314	10.0	305		1 M	0510	10.9	332		16 Tu	0412	9.8	299	
	0849	-0.1	-3			0930	1.3	40			0943	-0.2	-6			0939	1.3	40			1127	0.2	6			1026	1.2	37	
	1502	10.2	311			1542	9.1	277			1559	10.4	317			1553	9.4	287			1745	11.2	341			1642	10.3	314	
	2104	1.1	34			2144	2.4	73			2207	1.0	30			2159	2.2	67								2301	1.4	43	
2 Th	0320	11.4	347		17 F	0354	9.8	299		2 Sa	0420	11.2	341		17 Su	0405	9.8	299		2 Tu	0005	0.4	12		17 W	0506	9.7	296	
	0953	0.2	6			1024	1.6	49			1048	0.1	3			1028	1.4	43			0614	10.6	323			1115	1.2	37	
	1608	9.9	302			1637	8.9	271			1705	10.5	320			1642	9.5	290			1225	0.5	15			1732	10.6	323	
	2213	1.3	40			2242	2.5	76			2317	0.9	27			2253	2.1	64			1842	11.3	344			2356	1.1	34	
3 F	0429	11.1	338		18 Sa	0451	9.6	293		3 Su	0528	11.0	335		18 M	0458	9.6	293		3 W	0105	0.3	9		18 Th	0602	9.7	296	
	1102	0.4	12			1119	1.7	52			1152	0.2	6			1117	1.4	43			0714	10.4	317			1208	1.2	37	
	1718	10.0	305			1733	9.0	274			1809	10.8	329			1732	9.8	299			1321	0.7	21			1825	11.0	335	
	2326	1.3	40			2341	2.3	70								2348	1.8	55			1937	11.4	347						
4 Sa	0541	11.0	335		19 Su	0549	9.6	293		4 M	0024	0.6	18		19 Tu	0553	9.7	296		4 Th	0201	0.1	3		19 F	0053	0.6	18	
	1211	0.3	9			1213	1.6	49			0634	10.9	332			1207	1.4	43			0811	10.3	314			0701	9.9	302	
	1826	10.3	314			1826	9.3	283			1252	0.2	6			1822	10.2	311			1413	0.8	24			1302	1.1	34	
											1908	11.2	341								2027	11.5	351			1919	11.5	351	
5 Su	0036	0.9	27		20 M	0037	2.0	61		5 Tu	0126	0.2	6		20 W	0041	1.3	40		5 F	0253	-0.1	-3		20 Sa	0150	0.0	0	
	0650	11.2	341			0645	9.8	299			0736	11.0	335			0647	9.8	299			0903	10.3	314			0759	10.1	308	
	1314	0.1	3			1303	1.4	43			1348	0.2	6			1256	1.2	37			1502	1.0	30			1358	0.8	24	
	1929	10.8	329			1915	9.8	299			2002	11.5	351			1910	10.7	326			2113	11.5	351			2014	12.1	369	
6 M	0141	0.4	12		21 Tu	0129	1.5	46		6 W	0222	-0.2	-6		21 Th	0133	0.8	24		6 Sa	0340	-0.2	-6		21 Su	0245	-0.6	-18	
	0753	11.5	351			0736	10.0	305			0831	11.0	335			0740	10.1	308			0950	10.2	311			0855	10.5	320	
	1412	-0.2	-6			1349	1.1	34			1439	0.2	6			1344	1.0	30			1547	1.1	34			1454	0.5	15	
	2024	11.4	347			2000	10.3	314			2051	11.8	360			1957	11.3	344			2156	11.5	351			2108	12.5	381	
7 Tu	0238	-0.2	-6		22 W	0216	0.9	27		7 Th	0313	-0.5	-15		22 F	0223	0.1	3		7 Su	0423	-0.2	-6		22 M	0340	-1.1	-34	
	0849	11.7	357			0823	10.4	317			0922	11.0	335			0831	10.4	317			1033	10.2	311			0950	10.9	332	
	1503	-0.4	-12			1432	0.8	24			1526	0.3	9			1432	0.7	21			1629	1.2	37			1549	0.2	6	
	2114	11.9	363			2042	10.9	332			2137	11.9	363			2044	11.9	363			2237	11.4	347			2203	12.9	393	
8 W	0330	-0.7	-21		23 Th	0300	0.3	9		8 F	0359	-0.6	-18		23 Sa	0312	-0.5	-15		8 M	0504	-0.1	-3		23 Tu	0434	-1.5	-46	
	0940	11.8	360			0907	10.7	326			1009	10.9	332			0921	10.7	326			1113	10.1	308			1045	11.2	341	
	1550	-0.5	-15			1513	0.5	15			1610	0.4	12			1520	0.4	12			1709	1.3	40			1644	-0.1	-3	
	2200	12.2	372			2122	11.5	351			2219	11.9	363			2132	12.4	378			2316	11.3	344			2257	13.1	399	
9 Th	0417	-0.9	-27		24 F	0342	-0.3	-9		9 Sa	0442	-0.6	-18		24 Su	0400	-1.0	-30		9 Tu	0543	0.0	0		24 W	0527	-1.7	-52	
	1027	11.8	360			0951	11.0	335			1052	10.8	329			1011	11.0	335			1152	10.0	305			1139	11.5	351	
	1634	-0.4	-12			1554	0.3	9			1651	0.7	21			1609	0.2	6			1748	1.4	43			1740	-0.3	-9	
	2243	12.3	375			2203	12.0	366			2259	11.8	360			2221	12.7	387			2354	11.1	338			2352	13.1	399	
10 F	0501	-1.0	-30		25 Sa	0425	-0.8	-24		10 Su	0523	-0.5	-15		25 M	0450	-1.3	-40		10 W	0621	0.2	6		25 Th	0620	-1.6	-49	
	1111	11.6	354			1034	11.2	341			1133	10.5	320			1101	11.2	341			1230	9.9	302			1233	11.6	354	
	1715	-0.1	-3			1636	0.1	3			1731	0.9	27			1700	0.1	3			1827	1.5	46			1837	-0.3	-9	
	2323	12.1	369			2245	12.4	378			2338	11.5	351			2312	12.9	393											
11 Sa	0544	-0.8	-24		26 Su	0509	-1.1	-34		11 M	0603	-0.2	-6		26 Tu	0541	-1.5	-46		11 Th	0033	10.9	332		26 F	0048	12.8	390	
	1154	11.2	341			1120	11.2	341			1214	10.3	314			1153	11.2	341			0659	0.4	12			0714	-1.4	-43	
	1756	0.3	9			1720	0.1	3			1811	1.2	37			1753	0.1	3			1309	9.8	299			1328	11.7	357	
						2330	12.6	384													1907	1.7	52			1935	-0.2	-6	
12 Su	0003	11.8	360		27 M	0556	-1.2	-37		12 Tu	0017	11.2	341		27 W	0005	12.9	393		12 F	0112	10.7	326		27 Sa	0146	12.4	378	
	0626	-0.5	-15			1207	11.2	341			0644	0.1	3			0635	-1.4	-43			0737	0.6	18			0809	-1.1	-34	
	1236	10.7	326			1807	0.2	6			1254	10.0	305			1248	11.2	341			1348	9.8	299			1424	11.7	357	
	1836	0.8	24								1851	1.5	46			1849	0.1	3			1948	1.7	52			2035	-0.1	-3	
13 M	0043	11.4	347		28 Tu	0018	12.5	381		13 W	0057	10.9	332		28 Th	0101	12.6	384		13 Sa	0154	10.5	320		28 Su	0244	11.8	360	
	0708	0.0	0			0647	-1.1	-34			0725	0.5	15			0730	-1.2	-37			0817	0.8	24			0904	-0.6	-18	
	1318	10.2	311			1259	11.0	335			1335	9.7	296			1344	11.2	341			1428	9.8	299			1521	11.6	354	
	1918	1.3	40			1859	0.4	12			1934	1.8	55			1948	0.3	9			2032	1.8	55			2136	0.1	3	
14 Tu	0125	11.0	3																										

Bar Harbor, Maine, 2009

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 W	0548	10.1	308	16 Th	0428	9.7	296	1 Sa	0110	0.9	27	16 Su	0000	0.5	15	1 Tu	0221	1.0	30	16 W	0154	-0.4	-12		
	1156	0.9	27		1033	1.2	37		0721	9.3	283		0611	9.7	296		0830	9.6	293		0805	11.0	335		
	1813	11.2	341		1652	10.9	332		1320	1.8	55		1213	1.2	37		1432	1.5	46		1414	0.0	0		
			2320		0.8	24	1934	10.6	323	1832	11.5	351	2042	10.7	326	2027	12.2	372							
2 Th	0040	0.5	15	17 F	0527	9.6	293	2 Su	0204	0.8	24	17 M	0107	0.1	3	2 W	0304	0.7	21	17 Th	0249	-0.8	-24		
	0650	9.8	299		1130	1.3	40		0815	9.4	287		0718	10.0	305		0912	9.9	302		0900	11.7	357		
	1253	1.2	37		1750	11.2	341		1413	1.7	52		1320	0.8	24		1515	1.2	37		1511	-0.6	-18		
	1909	11.1	338				2025	10.7	326		1937	12.0	366		2124	10.9	332		2123	12.5	381				
3 F	0138	0.5	15	18 Sa	0022	0.5	15	3 M	0253	0.7	21	18 Tu	0209	-0.5	-15	3 Th	0343	0.5	15	18 F	0340	-1.1	-34		
	0748	9.7	296		0631	9.7	296		0903	9.6	293		0820	10.6	323		0950	10.3	314		0950	12.2	372		
	1347	1.4	43		1231	1.2	37		1501	1.6	49		1423	0.3	9		1555	0.9	27		1603	-1.1	-34		
	2001	11.1	338		1850	11.6	354		2111	10.9	332		2039	12.5	381		2202	11.0	335		●	2214	12.6	384	
4 Sa	0230	0.4	12	19 Su	0125	0.0	0	4 Tu	0337	0.5	15	19 W	0306	-1.0	-30	4 F	0418	0.3	9	19 Sa	0428	-1.2	-37		
	0841	9.7	296		0734	10.0	305		0945	9.8	299		0917	11.3	344		1025	10.6	323		1038	12.5	381		
	1438	1.5	46		1334	0.9	27		1544	1.4	43		1522	-0.3	-9		1631	0.6	18		1631	-1.3	-40		
	2050	11.1	338		1952	12.1	369		2153	11.0	335		2136	12.9	393	○	2238	11.1	338		○	2304	12.4	378	
5 Su	0319	0.3	9	20 M	0225	-0.5	-15	5 W	0416	0.3	9	20 Th	0400	-1.4	-43	5 Sa	0451	0.3	9	20 Su	0514	-1.0	-30		
	0929	9.8	299		0835	10.4	317		1024	10.0	305		1010	11.9	363		1057	10.8	329		1124	12.6	384		
	1525	1.5	46		1435	0.4	12		1617	-0.8	-24		1617	-0.8	-24		1706	0.4	12		1742	-1.2	-37		
	2135	11.1	338		2051	12.6	384	○	2231	11.1	338	●	2230	13.0	396		2312	11.1	338			2352	12.0	366	
6 M	0402	0.2	6	21 Tu	0323	-1.1	-34	6 Th	0452	0.2	6	21 F	0450	-1.6	-49	6 Su	0523	0.3	9	21 M	0559	-0.6	-18		
	1012	9.8	299		0933	11.0	335		1059	10.2	311		1100	12.3	375		1130	11.1	338		1209	12.4	378		
	1608	1.4	43		1534	0.0	0		1700	1.0	30		1710	-1.1	-34		1741	0.3	9		1830	-0.9	-27		
	2216	11.2	341	●	2149	13.0	396		2307	11.1	338		2322	12.9	393		2348	11.0	335						
7 Tu	0443	0.2	6	22 W	0417	-1.5	-46	7 F	0526	0.2	6	22 Sa	0539	-1.5	-46	7 M	0556	0.4	12	22 Tu	0040	11.4	347		
	1051	9.9	302		1028	11.5	351		1133	10.4	317		1149	12.5	381		1204	11.2	341		0645	0.0	0		
	1648	1.4	43		1631	-0.5	-15		1736	0.9	27		1802	-1.2	-37		1818	0.2	6		1255	12.0	366		
	2255	11.2	341		2244	13.2	402		2342	11.1	338														
8 W	0520	0.2	6	23 Th	0510	-1.7	-52	8 Sa	0559	0.3	9	23 Su	0013	12.6	384	8 Tu	0025	10.8	329	23 W	0129	10.8	329		
	1129	10.0	305		1121	11.9	363		1206	10.5	320		0627	-1.1	-34		0631	0.5	15		0732	0.7	21		
	1726	1.3	40		1726	-0.7	-21		1811	0.9	27		1238	12.4	378		1240	11.3	344		1343	11.4	347		
	2332	11.1	338		2338	13.2	402				1854	-0.9	-27		1858	0.2	6		2009	0.1	3				
9 Th	0556	0.2	6	24 F	0601	-1.7	-52	9 Su	0017	10.9	332	24 M	0104	12.0	366	9 W	0106	10.6	323	24 Th	0220	10.1	308		
	1204	10.0	305		1213	12.1	369		0631	0.3	9		0715	-0.6	-18		0710	0.7	21		0822	1.3	40		
	1803	1.3	40		1821	-0.8	-24		1239	10.7	326		1327	12.1	369		1321	11.3	344		1433	10.8	329		
							1847	0.8	24		1946	-0.5	-15		1943	0.3	9		2102	0.7	21				
10 F	0009	11.0	335	25 Sa	0032	12.9	393	10 M	0053	10.8	329	25 Tu	0156	11.3	344	10 Th	0152	10.3	314	25 F	0314	9.5	290		
	0631	0.3	9		0652	-1.4	-43		0705	0.5	15		0805	0.1	3		0754	1.0	30		0916	1.8	55		
	1239	10.1	308		1305	12.1	369		1314	10.8	329		1417	11.7	357		1408	11.3	344		1528	10.3	314		
	1840	1.3	40		1916	-0.7	-21		1926	0.8	24		2040	0.0	0		2034	0.4	12		○	2159	1.2	37	
11 Sa	0045	10.8	329	26 Su	0126	12.3	375	11 Tu	0132	10.5	320	26 W	0250	10.5	320	11 F	0244	10.0	305	26 Sa	0411	9.1	277		
	0705	0.4	12		0744	-1.0	-30		0741	0.7	21		0856	0.8	24		0846	1.2	37		1014	2.2	67		
	1315	10.2	311		1357	12.0	366		1353	10.9	332		1510	11.1	338		1502	11.2	341		1626	10.0	305		
	1918	1.3	40		2012	-0.4	-12		2009	0.8	24		2137	0.5	15	○	2132	0.5	15		○	2258	1.4	43	
12 Su	0123	10.6	323	27 M	0222	11.6	354	12 W	0215	10.3	314	27 Th	0347	9.8	299	12 Sa	0343	9.7	296	27 Su	0511	9.0	274		
	0741	0.6	18		0836	-0.4	-12		0822	0.9	27		0952	1.4	43		0946	1.4	43		1115	2.3	70		
	1351	10.3	314		1451	11.8	360		1436	11.0	335		1606	10.7	326		1604	11.1	338		1727	9.8	299		
	1958	1.3	40		2110	0.0	0		2057	0.7	21	○	2236	1.0	30		2237	0.6	18		○	2357	1.5	46	
13 M	0203	10.4	317	28 Tu	0319	10.9	332	13 Th	0304	10.0	305	28 F	0447	9.3	283	13 Su	0450	9.6	293	28 M	0609	9.0	274		
	0818	0.7	21		0930	0.3	9		0909	1.1	34		1051	1.9	58		1053	1.4	43		1214	2.2	67		
	1430	10.4	317		1546	11.4	347		1526	11.0	335		1705	10.3	314		1712	11.1	338		1825	9.9	302		
	2041	1.3	40	○	2209	0.3	9	○	2152	0.7	21		2337	1.2	37		2346	0.4	12						
14 Tu	0246	10.2	311	29 W	0418	10.2	311	14 F	0400	9.7	296	29 Sa	0549	9.1	277	14 M	0559	9.8	299	29 Tu	0051	1.4	43		
	0858	0.9	27		1026	0.9	27		1004	1.3	40		1151	2.1	64		1204	1.2	37		0703	9.3	283		
	1513	10.6	323		1642	11.0	335		1623	11.1	338		1805	10.2	311		1821	11.4	347		1309	1.9	58		
	2129	1.2	37		2310	0.7	21		2254	0.7	21														
15 W	0334	9.9	302	30 Th	0520	9.7	296	15 Sa	0503	9.6	293	30 Su	0037	1.3	40	15 Tu	0053	0.1	3	30 W	0140	1.2	37		
	0943	1.1	34		1124	1.4	43		1106	1.4	43		0649	9.1</											

Bar Harbor, Maine, 2009

Times and Heights of High and Low Waters

October				November				December																					
Time		Height		Time		Height		Time		Height		Time		Height															
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm															
1 Th	0223	0.9	27		16 F	0229	-0.5	-15		1 Su	0256	0.7	21		16 M	0345	0.2	6		1 Tu	0301	0.7	21		16 W	0412	0.9	27	
	0832	10.1	308			0842	12.0	366			0905	11.3	344			0955	12.2	372			0912	12.0	366			1021	11.7	357	
	1441	1.1	34			1458	-0.7	-21			1526	0.0	0			1620	-0.9	-27			1540	-0.6	-18			1647	-0.4	-12	
	2049	10.6	323			2109	11.9	363			2133	10.7	326			2230	11.0	335			2149	10.7	326			2257	10.3	314	
2 F	0302	0.7	21		17 Sa	0319	-0.6	-18		2 M	0335	0.6	18		17 Tu	0430	0.4	12		2 W	0347	0.5	15		17 Th	0454	1.0	30	
	0910	10.6	323			0930	12.4	378			0944	11.7	357			1038	12.1	369			0958	12.4	378			1102	11.6	354	
	1521	0.6	18			1548	-1.1	-34			1606	-0.4	-12			1704	-0.7	-21			1627	-1.0	-30			1727	-0.2	-6	
	2128	10.8	329			2159	11.9	363			2214	10.8	329			2314	10.7	326			2236	10.9	332			2336	10.2	311	
3 Sa	0339	0.5	15		18 Su	0406	-0.5	-15		3 Tu	0414	0.4	12		18 W	0512	0.7	21		3 Th	0434	0.3	9		18 F	0534	1.1	34	
	0946	11.0	335			1016	12.5	381			1023	12.1	369			1120	11.8	360			1046	12.7	387			1141	11.4	347	
	1559	0.3	9			1636	-1.2	-37			1648	-0.7	-21			1746	-0.5	-15			1715	-1.2	-37			1806	0.0	0	
	2206	10.9	332			2246	11.7	357			2257	10.9	332			2356	10.4	317			2325	11.1	338						
4 Su	0413	0.4	12		19 M	0450	-0.3	-9		4 W	0456	0.4	12		19 Th	0554	1.0	30		4 F	0524	0.1	3		19 Sa	0615	10.1	308	
	1020	11.3	344			1059	12.4	378			1106	12.3	375			1201	11.5	351			1136	12.8	390			0613	1.2	37	
	1636	0.0	0			1722	-1.1	-34			1732	-0.8	-24			1828	-0.1	-3			1805	-1.3	-40			1219	11.2	341	
	2243	11.0	335			2332	11.3	344			2342	10.9	332											1844		0.2	6		
5 M	0447	0.4	12		20 Tu	0534	0.1	3		5 Th	0540	0.4	12		20 F	0638	10.1	308		5 Sa	0616	11.1	338		20 Su	0652	1.4	43	
	1055	11.6	354			1142	12.1	369			1151	12.3	375			0636	1.3	40			0617	0.1	3			0652	1.4	43	
	1713	-0.2	-6			1806	-0.7	-21			1819	-0.8	-24			0643	11.1	338			1229	12.6	384			1258	10.9	332	
	2321	10.9	332													1910	0.3	9			1858	-1.1	-34			1922	0.5	15	
6 Tu	0523	0.4	12		21 W	0617	10.9	332		6 F	0630	10.7	326		21 Sa	0719	1.6	49		6 Su	0713	0.2	6		21 M	0733	1.6	49	
	1132	11.8	360			0618	0.6	18			0629	0.6	18			0719	1.6	49			0713	0.2	6			0733	1.6	49	
	1753	-0.3	-9			1226	11.7	357			1241	12.2	372			1327	10.7	326			1325	12.3	375			1339	10.6	323	
						1852	-0.3	-9			1911	-0.6	-18			1954	0.7	21			1953	-0.9	-27			2001	0.7	21	
7 W	0602	0.5	15		22 Th	0702	1.1	34		7 Sa	0723	0.8	24		22 Su	0805	1.9	58		7 M	0813	0.4	12		22 Tu	0815	1.7	52	
	1212	11.8	360			1311	11.2	341			1336	11.9	363			1413	10.3	314			1425	11.9	363			1421	10.2	311	
	1836	-0.3	-9			1938	0.3	9			2007	-0.4	-12			2040	1.0	30			2051	-0.5	-15			2041	1.0	30	
8 Th	0646	0.7	21		23 F	0749	1.6	49		8 Su	0824	0.9	27		23 M	0855	2.1	64		8 Tu	0917	0.5	15		23 W	0901	1.8	55	
	1258	11.7	357			1358	10.7	326			1437	11.6	354			1501	10.0	305			1528	11.4	347			1506	9.9	302	
	1924	-0.2	-6			2027	0.8	24			2108	-0.1	-3			2127	1.3	40			2151	-0.2	-6			2123	1.2	37	
9 F	0735	1.0	30		24 Sa	0840	2.0	61		9 M	0930	1.0	30		24 Tu	0947	2.2	67		9 W	1024	0.5	15		24 Th	0950	1.8	55	
	1349	11.5	351			1449	10.2	311			1543	11.2	341			1553	9.7	296			1634	10.9	332			1555	9.6	293	
	2019	0.0	0			2120	1.2	37			2211	0.1	3			2215	1.5	46			2252	0.2	6			2208	1.5	46	
10 Sa	0832	1.2	37		25 Su	0935	2.3	70		10 Tu	1039	0.9	27		25 W	1041	2.1	64		10 Th	1130	0.4	12		25 F	1043	1.7	52	
	1447	11.3	344			1544	9.9	302			1651	11.0	335			1646	9.6	293			1740	10.6	323			1647	9.4	287	
	2120	0.2	6			2214	1.5	46			2315	0.1	3			2305	1.5	46			2353	0.4	12			2257	1.6	49	
11 Su	0937	1.4	43		26 M	1033	2.3	70		11 W	1147	0.7	21		26 Th	1135	1.9	58		11 F	1234	0.2	6		26 Sa	1138	1.5	46	
	1553	11.1	338			1642	9.7	296			1758	11.0	335			1740	9.5	290			1844	10.4	317			1744	9.3	283	
	2226	0.4	12			2309	1.6	49																		2349	1.6	49	
12 M	1047	1.3	40		27 Tu	1131	2.2	67		12 Th	1252	0.2	6		27 F	1228	1.5	46		12 Sa	1334	0.0	0		27 Su	1235	1.1	34	
	1702	11.1	338			1739	9.7	296			1902	11.0	335			1833	9.6	293			1944	10.4	317			1842	9.5	290	
	2333	0.3	9																										
13 Tu	0548	10.3	314		28 W	0614	9.4	287		13 F	0730	11.6	354		28 Sa	0656	10.4	317		13 Su	0802	11.6	354		28 M	0700	11.0	335	
	1158	1.0	30			1225	1.9	58			1350	-0.2	-6			1319	1.0	30			1429	-0.2	-6			1331	0.5	15	
	1811	11.2	341			1833	9.8	299			2000	11.1	338			1925	9.8	299			2039	10.4	317			1939	9.7	296	
14 W	0652	10.8	329		29 Th	0702	9.8	299		14 Sa	0822	12.0	366		29 Su	0742	11.0	335		14 M	0852	11.7	357		29 Tu	0753	11.5	351	
	1304	0.4	12			1316	1.5	46			1444	-0.6	-18			1407	0.5	15			1519	-0.4	-12			1425	-0.1	-3	
	1916	11.5	351			1922	10.0	305			2054	11.1	338			2014	10.1	308			2129	10.4	317						

Portland, Maine, 2009

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 Th	0145	8.6	262	16 F	0245	9.9	302	1 Su	0231	9.4	287	16 M	0347	9.1	277	1 Su	0119	9.9	302	16 M	0217	9.5	290
	0741	1.1	34		0854	-0.1	-3		0845	0.4	12		1014	0.7	21		0736	-0.3	-9		0842	0.3	9
	1350	9.2	280		1506	9.5	290		1454	8.7	265		1626	7.9	241		1346	9.1	277		1455	8.4	256
	2008	0.4	12		2118	-0.1	-3		2101	0.4	12		2223	1.5	46		1949	0.2	6		2050	1.3	40
2 F	0224	8.7	265	17 Sa	0337	9.6	293	2 M	0318	9.5	290	17 Tu	0442	8.7	265	2 M	0203	9.9	302	17 Tu	0304	9.1	277
	0825	1.1	34		0953	0.3	9		0939	0.4	12		1115	1.1	34		0824	-0.2	-6		0933	0.8	24
	1434	8.9	271		1604	8.8	268		1549	8.4	256		1728	7.5	229		1436	8.8	268		1548	7.9	241
	2049	0.5	15		2211	0.6	18		2152	0.7	21		2322	1.9	58		2037	0.5	15		2141	1.8	55
3 Sa	0306	8.8	268	18 Su	0432	9.3	283	3 Tu	0411	9.5	290	18 W	0542	8.5	259	3 Tu	0252	9.9	302	18 W	0356	8.7	265
	0913	1.0	30		1054	0.6	18		1039	0.4	12		1219	1.3	40		0919	0.0	0		1030	1.2	37
	1522	8.7	265		1705	8.2	250		1650	8.1	247		1832	7.3	223		1532	8.4	256		1646	7.5	229
	2134	0.6	18		2307	1.1	34		2251	0.9	27		2026	7.6	232		2131	0.8	24		2238	2.1	64
4 Su	0352	9.0	274	19 M	0529	9.0	274	4 W	0512	9.6	293	19 Th	0024	2.0	61	4 W	0349	9.7	296	19 Th	0454	8.4	256
	1007	0.9	27		1157	0.9	27		1146	0.3	9		0643	8.4	256		1021	0.2	6		1131	1.5	46
	1616	8.4	256		1809	7.8	238		1759	8.0	244		1320	1.2	37		1636	8.2	250		1747	7.4	226
	2224	0.8	24		2006	1.5	46		2357	0.9	27		1933	7.4	226		2234	1.0	30		2340	2.2	67
5 M	0444	9.3	283	20 Tu	0626	8.9	271	5 Th	0619	9.8	299	20 F	0741	8.6	262	5 Th	0454	9.6	293	20 F	0557	8.3	253
	1106	0.7	21		1259	0.9	27		1256	0.0	0		0741	8.6	262		1131	0.3	9		1233	1.5	46
	1716	8.3	253		1911	7.7	235		1911	8.2	250		1414	1.0	30		1748	8.1	247		1848	7.4	226
	2320	0.8	24		0104	1.7	52		2018	8.6	262		2026	7.6	232		2344	1.1	34		1942	7.7	235
6 Tu	0541	9.5	290	21 W	0723	8.8	268	6 F	0105	0.8	24	21 Sa	0833	8.8	268	6 F	0606	9.6	293	21 Sa	0042	2.1	64
	1210	0.4	12		1357	0.8	24		1403	-0.4	-12		0833	8.8	268		1242	0.1	3		0658	8.3	253
	1821	8.3	253		2009	7.7	235		2018	8.6	262		2112	8.0	244		1900	8.3	253		1329	1.4	43
	0020	0.8	24		0159	1.7	52		0212	0.4	12		0304	1.4	43		2104	9.4	287		1942	7.7	235
7 W	0641	9.9	302	22 Th	0816	9.0	274	7 Sa	0832	10.5	320	22 Su	0918	9.1	277	7 Sa	0718	9.9	302	22 Su	0138	1.8	55
	1315	0.0	0		1448	0.7	21		1503	-0.9	-27		1542	0.5	15		1349	-0.2	-6		0753	8.6	262
	1927	8.4	256		2100	7.8	238		2118	9.2	280		2152	8.3	253		2006	8.8	268		1417	1.1	34
	0122	0.6	18		0248	1.5	46		0313	-0.2	-6		0345	1.0	30		0204	0.4	12		2029	8.1	247
8 Th	0742	10.4	317	23 F	0904	9.1	277	8 Su	0932	10.9	332	23 M	0958	9.4	287	8 Su	0823	10.2	311	23 M	0841	8.9	271
	1417	-0.6	-18		1533	0.5	15		1558	-1.3	-40		1617	0.3	9		1448	-0.6	-18		1458	0.8	24
	2031	8.8	268		2144	8.0	244		2212	9.7	296		2227	8.7	265		2104	9.4	287		2110	8.6	262
	0224	0.3	9		0332	1.3	40		0409	-0.6	-18		0423	0.6	18		0305	-0.2	-6		0311	0.9	27
9 F	0843	10.8	329	24 Sa	0947	9.3	283	9 M	1027	11.2	341	24 Tu	1035	9.6	293	9 M	0922	10.5	320	24 Tu	0923	9.2	280
	1516	-1.1	-34		1614	0.3	9		1649	-1.6	-49		1650	0.1	3		1541	-0.9	-27		1535	0.5	15
	2130	9.2	280		2224	8.2	250		2303	10.1	308		2300	9.0	274		2156	10.0	305		2147	9.1	277
	0323	-0.1	-3		0412	1.1	34		0503	-1.0	-30		0459	0.3	9		0359	-0.7	-21		0351	0.5	15
10 Sa	0941	11.2	341	25 Su	1025	9.5	290	10 Tu	1118	11.2	341	25 W	1110	9.7	296	10 Tu	1015	10.7	326	25 W	1003	9.4	287
	1612	-1.5	-46		1650	0.1	3		1737	-1.6	-49		1722	-0.1	-3		1629	-1.1	-34		1610	0.2	6
	2226	9.6	293		2300	8.4	256		2351	10.4	317		2332	9.3	283		2243	10.4	317		2222	9.5	290
	0419	-0.5	-15		0449	0.9	27		0554	-1.1	-34		0534	0.1	3		0449	-1.0	-30		0430	0.0	0
11 Su	1037	11.5	351	26 M	1101	9.6	293	11 W	1208	11.0	335	26 Th	1146	9.7	296	11 W	1104	10.7	326	26 Th	1041	9.6	293
	1705	-1.8	-55		1723	0.0	0		1823	-1.4	-43		1754	-0.1	-3		1714	-1.0	-30		1645	0.1	3
	2319	9.9	302		2333	8.6	262		0037	10.4	317		0005	9.6	293		2327	10.6	323		2256	9.9	302
	0514	-0.7	-21		0524	0.7	21		0644	-1.0	-30		0612	-0.1	-3		0537	-1.1	-34		0508	-0.4	-12
12 M	1131	11.5	351	27 Tu	1136	9.7	296	12 Th	1257	10.5	320	27 F	1223	9.6	293	12 Th	1151	10.5	320	27 F	1120	9.7	296
	1756	-1.8	-55		1754	0.0	0		1908	-1.0	-30		1829	-0.1	-3		1757	-0.8	-24		1722	0.0	0
	0011	10.1	308		0005	8.8	268		0123	10.3	314		0040	9.8	299		0010	10.6	323		2333	10.3	314
	0608	-0.8	-24		0559	0.6	18		0734	-0.7	-21		0652	-0.2	-6		0623	-1.0	-30		0549	-0.6	-18
13 Tu	1224	11.3	344	28 W	1210	9.6	293	13 F	1346	9.9	302	28 Sa	1303	9.4	287	13 F	1236	10.1	308	28 Sa	1201	9.6	293
	1846	-1.6	-49		1826	-0.1	-3		1954	-0.4	-12		1907	0.0	0		1839	-0.4	-12		1800	0.0	0
	0102	10.2	311		0038	8.9	271		0209	10.0	305		0040	9.8	299		0051	10.3	314		0012	10.5	320
	0703	-0.7	-21		0636	0.5	15		0824	-0.3	-9		0612	-0.1	-3		0708	-0.7	-21		0632	-0.7	-21
14 W	1317	10.8	329	29 Th	1246	9.5	290	14 Sa	1436	9.2	280	29 M	1321	9.5	290	14 Sa	1321	9.5	290	29 Su	1244	9.5	290
	1936	-1.2	-37		1859	0.0	0		2041	0.3	9		1407	8.9	271		1921	0.2	6		1842	0.1	3
	0153	10.1	308		0112	9.1	277		0257	9.6	293		0754	-0.2	-6		0133	10.0	305		0055	10.5	320
	0757	-0.4	-12		0715	0.4	12		0917	0.2	6		1829	-0.1	-3		0754	-0.2	-6		0718	-0.7	-21
15 Th	1411	10.2	311	30 F	1325	9.3	283	15 Su	1529	8.5	259	30 M	1407	8.9	271	15 Su	1407	8.9	271	30 M	1332	9.2	280
	2026	-0.7	-21		1936	0.1	3		2130	0.9	27		2004	0.7	21		2004	0.7	21		1929	0.3	9
	0149	9.3	283		0149	9.3	283		0257	9.6	293		2004	0.7	21		2004	0.7	21		0142	10.4	317
	0758	0.4	12		0758	0.4	12		0917	0.2	6		2004	0.7	21		2004	0.7	21		0810	-0.5	-15
	1407	9.0	274	1407	9.0	274	1529	8.5	259	2130	0.9	27	2130	0.9	27	1424	8.9	271					
	2016	0.2	6	2016	0.2	6	2130	0.9	27	2130	0.9	27	2130	0.9	27	2021	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.

Portland, Maine, 2009

Times and Heights of High and Low Waters

April				May				June																
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height											
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm										
1 W	0236	10.2	311	16 Th	0316	8.8	268	1 F	0329	10.2	311	16 Sa	0330	8.8	268									
	0907	-0.2	-6		0948	1.2	37		1000	-0.2	-6		0956	1.2	37	1 M	0529	9.5	290					
	1524	8.6	262		1605	7.7	235		1622	9.0	274		1616	8.1	247		1144	0.3	9					
	2119	0.9	27		2156	2.2	67		2220	1.0	30		2212	2.1	64		1807	9.8	299	16 Tu	0430	8.6	262	
2 Th	0337	9.9	302	17 F	0410	8.5	259	2 Sa	0437	9.8	299	17 Su	0422	8.6	262		2 Tu	0023	0.6		18	17 W	0524	8.4	256
	1011	0.1	3		1042	1.5	46		1105	0.1	3		1044	1.3	40	0634		9.2	280		1131		1.1	34
	1630	8.5	259		1701	7.7	235		1728	9.1	277		1705	8.3	253	1242		0.5	15		1223		1.1	34
	2226	1.1	34		2254	2.3	70		2331	0.9	27		2307	2.0	61	1904		9.9	302	1752	9.3		283	
3 F	0445	9.7	296	18 Sa	0508	8.3	253	3 Su	0547	9.6	293	18 M	0516	8.4	256	3 W	0125	0.4	12	18 Th	0014	1.1	34	
	1119	0.2	6		1138	1.5	46		1209	0.2	6		1133	1.4	43		0736	9.0	274		0621	8.4	256	
	1740	8.5	259		1757	7.8	238		1832	9.4	287		1754	8.5	259		1337	0.8	24		1223	1.1	34	
	2338	1.1	34		2354	2.2	67		1930	9.7	296		1842	8.9	271		1958	10.0	305		1844	9.8	299	
4 Sa	0558	9.6	293	19 Su	0607	8.3	253	4 M	0040	0.7	21	19 Tu	0002	1.7	52	4 Th	0221	0.2	6	19 F	0111	0.6	18	
	1228	0.2	6		1232	1.5	46		0654	9.5	290		0611	8.4	256		0834	8.9	271		0720	8.5	259	
	1849	8.8	268		1850	8.0	244		1310	0.2	6		1222	1.3	40		1429	0.9	27		1318	1.0	30	
	5 Su	0050	0.8		24	20 M	0052		1.9	58	5 Tu		0143	0.3	9		20 W	0057	1.3		40	5 F	0313	0.1	3	20 Sa	0208	0.1	3
0708		9.7	296	0703	8.5		259	0757	9.5	290		0706	8.5	259	0926	8.8		268	0819	8.7	265			
1332		0.0	0	1321	1.3		40	1405	0.3	9		1311	1.1	34	1517	1.1		34	1413	0.7	21			
1951		9.3	283	1937	8.5		259	2024	10.1	308		1930	9.4	287	2133	10.1		308	2031	10.7	326			
6 M	0156	0.4	12	21 Tu	0144	1.4	43	6 W	0240	0.0	0	21 Th	0150	0.8	24	6 Sa	0400	0.0	0	21 Su	0304	-0.4	-12	
	0812	9.9	302		0755	8.7	265		0853	9.5	290		0759	8.7	265		1013	8.8	268		0916	9.0	274	
	1429	-0.2	-6		1405	1.0	30		1455	0.3	9		1359	0.9	27		1601	1.2	37		1508	0.5	15	
	2046	9.8	299		2021	9.0	274		2112	10.3	314		2016	9.9	302		2215	10.1	308		2126	11.1	338	
7 Tu	0254	-0.1	-3	22 W	0231	0.9	27	7 Th	0331	-0.3	-9	22 F	0240	0.2	6	7 Su	0443	0.0	0	22 M	0358	-0.9	-27	
	0909	10.1	308		0842	9.0	274		0944	9.5	290		0851	9.0	274		1056	8.7	265		1012	9.4	287	
	1520	-0.4	-12		1447	0.8	24		1542	0.4	12		1447	0.7	21		1643	1.3	40		1603	0.2	6	
	2136	10.2	311		2101	9.5	290		2156	10.4	317		2103	10.5	320		2255	10.0	305		2220	11.5	351	
8 W	0346	-0.6	-18	23 Th	0316	0.3	9	8 F	0418	-0.4	-12	23 Sa	0329	-0.4	-12	8 M	0524	0.1	3	23 Tu	0452	-1.3	-40	
	1001	10.1	308		0927	9.2	280		1031	9.4	287		0941	9.2	280		1137	8.6	262		1107	9.6	293	
	1606	-0.4	-12		1528	0.5	15		1625	0.6	18		1535	0.4	12		1722	1.4	43		1658	0.0	0	
	2220	10.5	320		2141	10.1	308		2238	10.4	317		2150	10.9	332		2333	9.9	302		2315	11.6	354	
9 Th	0434	-0.8	-24	24 F	0359	-0.2	-6	9 Sa	0501	-0.4	-12	24 Su	0419	-0.8	-24	9 Tu	0602	0.2	6	24 W	0545	-1.4	-43	
	1048	10.1	308		1011	9.5	290		1114	9.2	280		1032	9.5	290		1215	8.5	259		1201	9.9	302	
	1649	-0.2	-6		1609	0.3	9		1705	0.8	24		1624	0.2	6		1800	1.5	46		1754	-0.2	-6	
	2302	10.6	323		2221	10.5	320		2317	10.3	314		2239	11.3	344		1800	1.5	46		1800	1.5	46	
10 F	0519	-0.8	-24	25 Sa	0442	-0.7	-21	10 Su	0542	-0.3	-9	25 M	0509	-1.2	-37	10 W	0011	9.8	299	25 Th	0011	11.6	354	
	1132	9.8	299		1055	9.6	293		1156	9.0	274		1123	9.6	293		0640	0.3	9		0639	-1.4	-43	
	1731	0.0	0		1651	0.1	3		1745	1.0	30		1715	0.1	3		1253	8.5	259		1256	10.0	305	
	2342	10.5	320		2303	10.9	332		2355	10.1	308		2329	11.4	347		1839	1.6	49		1851	-0.2	-6	
11 Sa	0602	-0.7	-21	26 Su	0527	-1.0	-30	11 M	0622	-0.1	-3	26 Tu	0600	-1.3	-40	11 Th	0050	9.6	293	26 F	0107	11.3	344	
	1215	9.5	290		1141	9.6	293		1236	8.8	268		1216	9.7	296		0717	0.5	15		0732	-1.3	-40	
	1811	0.4	12		1735	0.1	3		1824	1.3	40		1807	0.1	3		1331	8.4	256		1351	10.1	308	
	12 Su	0021	10.3		314	27 M	0615		-1.1	-34	12 Tu		0033	9.8	299		27 W	0023	11.4		347	12 F	0129	9.4	287	27 Sa	0204	10.9	332
0644		-0.4	-12	1229	9.6		293	0702	0.2	6		0653	-1.2	-37	0755	0.6		18	0827	-0.9	-27			
1257		9.1	277	1823	0.2		6	1316	8.5	259		1310	9.7	296	1411	8.4		256	1447	10.1	308			
1851		0.8	24	1904	1.5		46	1904	1.5	46		1903	0.2	6	2001	1.7		52	2050	0.1	3			
13 M	0101	9.9	302	28 Tu	0036	11.0	335	13 W	0114	9.6	293	28 Th	0119	11.2	341	13 Sa	0211	9.2	280	28 Su	0303	10.4	317	
	0726	0.0	0		0705	-1.0	-30		0743	0.5	15		0748	-1.1	-34		0833	0.8	24		0922	-0.5	-15	
	1340	8.7	265		1321	9.4	287		1358	8.3	253		1407	9.6	293		1451	8.5	259		1543	10.1	308	
	1932	1.2	37		1914	0.4	12		1946	1.7	52		2002	0.4	12		2045	1.7	52		2152	0.3	9	
14 Tu	0142	9.5	290	29 W	0129	10.8	329	14 Th	0156	9.3	283	29 F	0217	10.8	329	14 Su	0254	9.0	274	29 M	0404	9.8	299	
	0810	0.4	12		0759	-0.8	-24		0825	0.8	24		0846	-0.8	-24		0913	0.9	27		1017	0.0	0	
	1425	8.3	253		1417	9.2	280		1442	8.2	250		1507	9.6	293		1533	8.6	262		1640	10.0	305	
	2016	1.6	49		2011	0.6	18		2031	1.9	58		2104	0.5	15		2132	1.7	52		2255	0.5	15	
15 W	0227	9.1	277	30 Th	0226	10.5	320	15 F	0242	9.0	274	30 Sa	0319	10.4	317	15 M	0340	8.7	265	30 Tu	0507	9.2	280	
	0857	0.8	24		0858	-0.5	-15		0909	1.0	30		0944	-0.4	-12		0956	1.0	30		1114	0.5	15	
	1513	8.0	244		1518	9.1	277		1528	8.1	247		1607	9.6	293		1617	8.8	268		1737	9.9	302	
	2103	1.9	58		2113	0.8	24		2119	2.1	64		2210	0.6	18		2223	1.6	49		2359	0.6	18	
31 Su	0424	9.9	302	31 Su	1044	-0.1	-3	31 Su	1044	-0.1	-3	31 Su	1708	9.7	296	31 Su	2317	0.7	21	31 Su				
	1044	-0.1	-3		1708	9.7	296		2317	0.7	21													
	1708	9.7	296																					

Portland, Maine, 2009

Times and Heights of High and Low Waters

October				November				December																									
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height																				
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm																			
1 Th	0243	1.0	30		16 F	0246	-0.3	-9		1 Su	0311	0.8	24		16 M	0401	0.3	9		1 Tu	0315	0.6	18		16 W	0427	0.9	27					
	0854	8.7	265			0902	10.4	317			0924	9.8	299			1014	10.6	323			0930	10.5	320			1040	10.1	308					
	1457	1.1	34			1515	-0.6	-18			1542	0.1	3			1639	-0.7	-21			1558	-0.6	-18			1707	-0.3	-9		2320	8.7	265	
	2109	9.2	280			2129	10.3	314			2154	9.2	280			2252	9.4	287			2211	9.1	277			2211	9.1	277		2320	8.7	265	
2 F	0320	0.8	24		17 Sa	0335	-0.4	-12		2 M	0350	0.6	18		17 Tu	0444	0.5	15		2 W	0402	0.4	12		17 Th	0508	0.9	27					
	0931	9.1	277			0950	10.7	326			1002	10.2	311			1057	10.5	320			1016	10.9	332			1119	10.0	305					
	1537	0.7	21			1606	-0.9	-27			1623	-0.3	-9			1723	-0.6	-18			1645	-1.0	-30			1747	-0.2	-6		2359	8.7	265	
	2148	9.4	287			2220	10.2	311			2235	9.3	283			2336	9.2	280			2258	9.3	283			2359	8.7	265					
3 Sa	0355	0.6	18		18 Su	0422	-0.3	-9		3 Tu	0430	0.5	15		18 W	0526	0.7	21		3 Th	0450	0.2	6		18 F	0547	1.0	30					
	1005	9.5	290			1035	10.9	332			1042	10.5	320			1137	10.3	314			1104	11.1	338			1158	9.8	299					
	1614	0.3	9			1654	-1.0	-30			1705	-0.6	-18			1805	-0.4	-12			1733	-1.2	-37			1825	0.0	0					
	2226	9.5	290			2307	10.1	308			2318	9.4	287			2366	9.2	280			2347	9.4	287			2359	8.7	265					
4 Su	0428	0.5	15		19 M	0506	-0.1	-3		4 W	0512	0.4	12		19 Th	0608	1.0	30		4 F	0539	0.1	3		19 Sa	0626	1.1	34					
	1039	9.8	299			1118	10.8	329			1124	10.7	326			1218	10.0	305			1154	11.2	341			1236	9.6	293					
	1651	0.0	0			1740	-0.9	-27			1750	-0.8	-24			1846	-0.1	-3			1823	-1.2	-37			1902	0.2	6					
	2303	9.5	290			2354	9.8	299			0004	9.3	283			0019	8.9	271			0039	9.5	290			0115	8.5	259					
5 M	0503	0.4	12		20 Tu	0549	0.3	9		5 Th	0557	0.4	12		20 F	0649	1.3	40		5 Sa	0632	0.1	3		20 Su	0705	1.3	40					
	1113	10.1	308			1201	10.6	323			1209	10.8	329			1300	9.7	296			1247	11.0	335			1315	9.4	287					
	1730	-0.2	-6			1825	-0.6	-18			1837	-0.8	-24			1928	0.3	9			1916	-1.1	-34			1939	0.4	12					
	2342	9.4	287			0039	9.4	287			0052	9.2	280			0143	8.4	256			0133	9.5	290			0153	8.4	256					
6 Tu	0539	0.4	12		21 W	0633	0.7	21		6 F	0645	0.5	15		21 Sa	0732	1.5	46		6 Su	0728	0.2	6		21 M	0745	1.4	43					
	1150	10.2	311			1244	10.2	311			1259	10.7	326			1343	9.3	283			1343	10.7	326			1355	9.1	277					
	1810	-0.3	-9			1910	-0.2	-6			1929	-0.6	-18			2012	0.6	18			2010	-0.9	-27			2016	0.6	18					
	0022	9.3	283			0125	8.9	271			0145	9.1	277			0227	8.2	250			0229	9.5	290			0232	8.4	256					
7 W	0619	0.5	15		22 Th	0717	1.1	34		7 Sa	0739	0.7	21		22 Su	0818	1.7	52		7 M	0828	0.3	9		22 Tu	0829	1.5	46					
	1231	10.3	314			1328	9.8	299			1354	10.5	320			1429	9.0	274			1443	10.3	314			1438	8.8	268					
	1854	-0.3	-9			1957	0.3	9			2024	-0.4	-12			2056	0.9	27			2108	-0.6	-18			2056	0.8	24					
	0107	9.1	277			0212	8.5	259			0243	9.0	274			0314	8.1	247			0329	9.5	290			0313	8.4	256					
8 Th	0703	0.6	18		23 F	0803	1.5	46		8 Su	0838	0.8	24		23 M	0907	1.9	58		8 Tu	0932	0.4	12		23 W	0915	1.6	49					
	1316	10.3	314			1415	9.3	283			1454	10.1	308			1518	8.7	265			1546	9.8	299			1524	8.5	259					
	1943	-0.2	-6			2046	0.7	21			2124	-0.1	-3			2143	1.2	37			2207	-0.2	-6			2138	1.0	30					
	0157	8.9	271			0302	8.2	250			0345	9.0	274			0402	8.1	247			0430	9.5	290			0357	8.5	259					
9 F	0753	0.8	24		24 Sa	0853	1.9	58		9 M	0943	0.9	27		24 Tu	0959	2.0	61		9 W	1039	0.5	15		24 Th	1005	1.6	49					
	1407	10.2	311			1506	8.9	271			1600	9.8	299			1610	8.4	256			1653	9.4	287			1613	8.2	250					
	2037	0.0	0			2138	1.1	34			2228	0.1	3			2231	1.3	40			2308	0.1	3			2223	1.2	37					
	0252	8.7	265			0355	7.9	241			0450	9.1	277			0451	8.1	247			0531	9.6	293			0444	8.6	262					
10 Sa	0848	1.1	34		25 Su	0948	2.1	64		10 Tu	1052	0.9	27		25 W	1055	1.9	58		10 Th	1147	0.4	12		25 F	1059	1.5	46					
	1505	10.0	305			1601	8.6	262			1709	9.6	293			1704	8.2	250			1801	9.1	277			1707	8.0	244					
	2137	0.2	6			2232	1.4	43			2332	0.2	6			2320	1.4	43			2320	1.4	43			2311	1.3	40					
	0355	8.5	259			0450	7.8	238			0554	9.3	283			0541	8.3	253			0609	0.4	12			0533	8.8	268					
11 Su	0951	1.2	37		26 M	1046	2.2	67		11 W	1202	0.7	21		26 Th	1150	1.7	52		11 F	1253	0.2	6		26 Sa	1155	1.2	37					
	1609	9.8	299			1659	8.4	256			1817	9.5	290			1759	8.2	250			1906	8.9	271			1804	7.9	241					
	2242	0.3	9			2328	1.5	46			0033	0.2	6			0009	1.4	43			0108	0.6	18			0004	1.3	40					
	0502	8.6	262			0545	7.9	241			0655	9.7	296			0629	8.7	265			0729	9.9	302			0625	9.1	277					
12 M	1100	1.2	37		27 Tu	1145	2.1	64		12 Th	1308	0.3	9		27 F	1245	1.4	43		12 Sa	1354	0.0	0		27 Su	1253	0.9	27					
	1719	9.7	296			1757	8.4	256			1922	9.5	290			1853	8.2	250			2008	8.8	268			1253	0.9	27					
	2349	0.3	9			0020	1.5	46			0131	0.2	6			0057	1.3	40			0204	0.7	21			1903	8.0	244					
	0609	8.9	271			0637	8.2	250			0751	10.1	308			0715	9.1	277			0823	10.1	308			0058	1.2	37					
13 Tu	1211	0.9	27		28 W	1241	1.8	55		13 F	1408	-0.1	-3		28 Sa	1336	0.9	27		13 Su	1449	-0.2	-6		28 M	1349	0.4	12					
	1829	9.8	299			1852	8.5	259			2022	9.5	290			1946	8.4	256			2103	8.8	268			2000	8.2	250					
	0054	0.1	3			0109	1.4	43			0225	0.2	6			0144	1.1	34			0255	0.8	24			0153	0.9	27					
	0713	9.3	283			0724	8.5	259			0842	10.4	317			0800	9.5	290															

Boston, Massachusetts, 2009

Times and Heights of High and Low Waters

January				February				March																									
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height																				
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm																			
1 Th	0202	9.0	274		16 F	0252	10.3	314		1 Su	0250	9.8	299		16 M	0354	9.6	293		1 Su	0138	10.4	317		16 M	0227	10.0	305					
	0802	1.1	34			0859	-0.1	-3			0909	0.4	12			1016	0.8	24			0757	-0.3	-9			0849	0.3	9					
	1410	9.6	293			1513	9.9	302			1515	9.1	277			1629	8.3	253			1406	9.6	293			1502	8.8	268		2101	1.3	40	
	2029	0.3	9			2123	-0.1	-3			2126	0.5	15			2228	1.5	46			2013	0.2	6			2101	1.3	40					
2 F	0242	9.1	277		17 Sa	0343	10.0	305		2 M	0338	9.9	302		17 Tu	0447	9.2	280		2 M	0222	10.4	317		17 Tu	0314	9.5	290					
	0847	1.1	34			0955	0.3	9			1002	0.4	12			1114	1.2	37			0846	-0.2	-6			0939	0.9	27					
	1454	9.3	283			1609	9.2	280			1609	8.8	268			1728	7.9	241			1455	9.2	280			1553	8.3	253					
	2111	0.5	15			2215	0.6	18			2217	0.8	24			2324	1.9	58			2101	0.5	15			2150	1.8	55					
3 Sa	0325	9.2	280		18 Su	0436	9.7	296		3 Tu	0431	9.9	302		18 W	0545	8.9	271		3 Tu	0311	10.3	314		18 W	0406	9.1	277					
	0937	1.0	30			1054	0.7	21			1101	0.4	12			1215	1.5	46			0940	0.0	0			1033	1.4	43					
	1543	9.1	277			1708	8.6	262			1709	8.5	259			1830	7.7	235			1550	8.9	271			1649	7.9	241					
	2158	0.7	21			2309	1.2	37			2315	0.9	27			2315	0.9	27			2155	0.8	24			2245	2.2	67					
4 Su	0412	9.4	287		19 M	0531	9.4	287		4 W	0530	10.0	305		19 Th	0623	2.1	64		4 W	0408	10.2	311		19 Th	0502	8.8	268					
	1030	0.9	27			1155	1.0	30			1204	0.3	9			1317	1.5	46			1041	0.2	6			1131	1.7	52					
	1637	8.8	268			1809	8.1	247			1813	8.5	259			1931	7.7	235			1652	8.6	262			1748	7.7	235					
	2248	0.8	24																		2255	1.0	30			2343	2.3	70					
5 M	0503	9.7	296		20 Tu	0005	1.6	49		5 Th	0017	0.9	27		20 F	0121	2.1	64		5 Th	0510	10.1	308		20 F	0602	8.7	265					
	1128	0.7	21			0628	9.2	280			0633	10.2	311			0743	8.9	271			1145	0.3	9			1231	1.7	52					
	1735	8.7	265			1257	1.1	34			1309	0.0	0			1413	1.3	40			1758	8.5	259			1848	7.8	238					
	2344	0.9	27			1910	7.9	241			1920	8.6	262			2027	7.9	241															
6 Tu	0558	10.0	305		21 W	0102	1.8	55		6 F	0121	0.7	21		21 Sa	0215	1.8	55		6 F	0001	1.1	34		21 Sa	0042	2.2	67					
	1228	0.4	12			0724	9.2	280			0738	10.6	323			0836	9.2	280			0618	10.1	308			0702	8.8	268					
	1836	8.7	265			1356	1.1	34			1412	-0.4	-12			1501	1.0	30			1251	0.2	6			1327	1.6	49					
						2009	7.9	241			2025	9.0	274			2115	8.2	250			1907	8.7	265			1943	8.0	244					
7 W	0042	0.8	24		22 Th	0156	1.8	55		7 Sa	0223	0.3	9		22 Su	0304	1.5	46		7 Sa	0107	0.8	24		22 Su	0138	1.9	58					
	0656	10.4	317			0818	9.3	283			0841	11.0	335			0923	9.5	290			0725	10.3	314			0757	9.0	274					
	1329	-0.1	-3			1449	0.9	27			1511	-0.9	-27			1543	0.7	21			1355	-0.1	-3			1417	1.3	40					
	1939	8.8	268			2101	8.0	244			2125	9.5	290			2157	8.6	262			2011	9.2	280			2033	8.5	259					
8 Th	0141	0.6	18		23 F	0246	1.7	52		8 Su	0323	-0.2	-6		23 M	0348	1.1	34		8 Su	0211	0.4	12		23 M	0229	1.5	46					
	0755	10.8	329			0907	9.5	290			0940	11.4	347			1005	9.8	299			0830	10.7	326			0846	9.3	283					
	1429	-0.6	-18			1535	0.7	21			1605	-1.3	-40			1621	0.3	9			1453	-0.5	-15			1501	0.9	27					
	2040	9.1	277			2147	8.2	250			2220	10.0	305			2235	9.0	274			2110	9.7	296			2116	9.0	274					
9 F	0240	0.2	6		24 Sa	0332	1.4	43		9 M	0418	-0.7	-21		24 Tu	0430	0.7	21		9 M	0310	-0.2	-6		24 Tu	0316	0.9	27					
	0854	11.3	344			0951	9.7	296			1035	11.6	354			1045	10.0	305			0928	11.0	335			0931	9.7	296					
	1527	-1.1	-34			1615	0.4	12			1656	-1.6	-49			1658	0.1	3			1547	-0.9	-27			1542	0.5	15					
	2139	9.5	290			2229	8.5	259			2311	10.5	320			2311	9.4	287			2202	10.3	314			2156	9.5	290					
10 Sa	0337	-0.2	-6		25 Su	0415	1.2	37		10 Tu	0511	-1.0	-30		25 W	0510	0.3	9		10 Tu	0405	-0.7	-21		25 W	0359	0.4	12					
	0952	11.7	357			1032	9.9	302			1127	11.6	354			1123	10.2	311			1022	11.1	338			1014	9.9	302					
	1622	-1.6	-49			1653	0.2	6			1745	-1.6	-49			1734	-0.1	-3			1635	-1.0	-30			1622	0.2	6					
	2235	9.9	302			2307	8.7	265								2346	9.7	296			2250	10.7	326			2233	9.9	302					
11 Su	0432	-0.6	-18		26 M	0456	0.9	27		11 W	0000	10.8	329		26 Th	0550	0.0	0		11 W	0456	-1.0	-30		26 Th	0442	-0.1	-3					
	1047	11.9	363			1111	10.0	305			0602	-1.1	-34			1201	10.2	311			1112	11.1	338			1054	10.1	308					
	1714	-1.9	-58			1729	0.0	0			1217	11.4	347			1811	-0.2	-6			1721	-1.0	-30			1701	0.0	0					
	2329	10.3	314			2343	9.0	274			1831	-1.4	-43								2335	11.0	335			2311	10.4	317					
12 M	0526	-1.8	-24		27 Tu	0535	0.7	21		12 Th	0046	10.9	332		27 F	0021	10.0	305		12 Th	0544	-1.1	-34		27 F	0524	-0.5	-15					
	1141	12.0	366			1148	10.1	308			0652	-1.0	-30			0630	-0.2	-6			1159	10.9	332			1135	10.2	311					
	1805	-1.9	-58			1805	-0.1	-3			1306	11.0	335			1240	10.1	308			1805	-0.8	-24			1740	-0.1	-3					
											1917	-1.0	-30			1849	-0.2	-6								2349	10.7	326					
13 Tu	0021	10.5	320		28 W	0018	9.2	280		13 F	0132	10.7	326		28 Sa	0058	10.2	311		13 F	0018	11.0	335		28 Sa	0606	-0.7	-21					
	0619	-0.9	-27			0615	0.5	15			0741	-0.7	-21			0712	-0.3	-9			0630	-1.0	-30			1217	10.2	311					
	1234	11.8	360			1226	10.1	308			1354	10.4	317			1321	9.9	302			1244	10.5	320			1821	-0.1	-3					
	1855	-1.7	-52			1841	-0.1	-3			2002	-0.4	-12			1929	0.0	0			1848	-0.4	-12										
14 W	0111	10.6	323		29 Th	0053	9.4	287		<																							

Boston, Massachusetts, 2009

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 W	0254	10.7	326		16 Th	0329	9.2	280		1 F	0342	10.6	323		16 Sa	0347	9.2	280		1 M	0536	9.8	299		16 Tu	0451	8.9	271						
	0925	-0.2	-6			0956	1.3	40			1010	-0.1	-3			1009	1.3	40			1147	0.4	12			1104	1.2	37						
	1538	9.1	277			1613	8.1	247			1630	9.4	287			1627	8.5	259			1811	10.1	308			1721	9.4	287						
	2140	0.9	27			2209	2.2	67			2231	0.9	27			2227	2.1	64			1908	10.2	311			2337	1.3	40						
2 Th	0353	10.4	317		17 F	0423	8.9	271		2 Sa	0447	10.3	314		17 Su	0439	9.0	274		2 Tu	0639	9.5	290		17 W	0544	8.9	271		17 Th	1154	1.2	37	
	1025	0.1	3			1049	1.6	49			1112	0.1	3			1058	1.4	43			1245	0.7	21			1809	9.8	299						
	1641	8.9	271			1707	8.1	247			1734	9.5	290			1717	8.7	265			1908	10.2	311			0032	1.0	30						
	2242	1.1	34			2304	2.3	70			2336	0.9	27			2322	2.0	61			2001	10.3	314			0640	8.9	271						
3 F	0458	10.1	308		18 Sa	0520	8.8	268		3 Su	0554	10.0	305		18 M	0532	8.9	271		3 W	0740	9.3	283		18 Th	1246	1.1	34		18 Th	1900	10.2	311	
	1129	0.3	9			1144	1.7	52			1213	0.3	9			1149	1.4	43			1339	0.9	27			1246	1.1	34						
	1747	8.9	271			1802	8.2	250			1836	9.7	296			1807	8.9	271			2001	10.3	314			1900	10.2	311						
	2349	1.1	34																															
4 Sa	0606	10.1	308		19 Su	0602	2.2	67		4 M	0642	0.7	21		19 Tu	0616	1.7	52		4 Th	0837	9.2	280		19 F	0736	9.0	274		19 F	1340	1.0	30	
	1234	0.3	9			0617	8.8	268			0659	9.9	302			0626	8.9	271			1431	1.1	34			0736	9.0	274						
	1854	9.2	280			1237	1.6	49			1312	0.4	12			1239	1.3	40			2050	10.4	317			1340	1.0	30						
						1855	8.4	256			1934	10.1	308			1855	9.4	287								1952	10.6	323						
5 Su	0055	0.8	24		20 M	0058	1.9	58		5 Tu	0144	0.4	12		20 W	0110	1.2	37		5 F	0314	0.2	6		20 Sa	0223	0.0	0		20 Sa	0832	9.2	280	
	0714	10.1	308			0712	8.9	271			0801	9.8	299			0720	9.0	274			0929	9.1	277			0832	9.2	280						
	1336	0.1	3			1328	1.4	43			1408	0.4	12			1328	1.2	37			1519	1.2	37			1433	0.7	21						
	1955	9.6	293			1944	8.9	271			2028	10.4	317			1943	9.8	299			2136	10.4	317			2045	11.1	338						
6 M	0159	0.4	12		21 Tu	0150	1.4	43		6 W	0241	0.1	3		21 Th	0203	0.7	21		6 Sa	0401	0.1	3		21 Su	0318	-0.6	-18		21 Su	0928	9.5	290	
	0817	10.3	314			0804	9.2	280			0858	9.8	299			0813	9.2	280			1016	9.1	277			0928	9.5	290						
	1433	-0.1	-3			1415	1.1	34			1458	0.4	12			1417	0.9	27			1604	1.3	40			1527	0.4	12						
	2051	10.1	308			2029	9.4	287			2116	10.6	323			2029	10.4	317			2219	10.4	317			2139	11.6	354						
7 Tu	0257	-0.1	-3		22 W	0240	0.8	24		7 Th	0333	-0.2	-6		22 F	0253	0.1	3		7 Su	0445	0.1	3		22 M	1024	9.8	299		22 M	1621	0.1	3	
	0915	10.4	317			0852	9.5	290			0949	9.8	299			0904	9.5	290			1100	9.0	274			1024	9.8	299						
	1524	-0.3	-9			1459	0.8	24			1545	0.5	15			1506	0.7	21			1647	1.3	40			1621	0.1	3						
	2141	10.6	323			2112	9.9	302			2201	10.7	326			2117	10.9	332			2300	10.3	314			2233	11.9	363						
8 W	0350	-0.5	-15		23 Th	0327	0.2	6		8 F	0420	-0.4	-12		23 Sa	0343	-0.5	-15		8 M	0526	0.2	6		23 Tu	1118	10.1	308		23 Tu	1715	-0.2	-6	
	1007	10.5	320			0939	9.7	296			1036	9.7	296			0955	9.7	296			1141	9.0	274			1118	10.1	308						
	1611	-0.3	-9			1543	0.5	15			1629	0.6	18			1555	0.4	12			1728	1.4	43			1715	-0.2	-6						
	2226	10.9	332			2154	10.5	320			2243	10.7	326			2204	11.4	347			2341	10.3	314			2328	12.0	366						
9 Th	0439	-0.8	-24		24 F	0412	-0.3	-9		9 Sa	0504	-0.4	-12		24 Su	0433	-1.0	-30		9 Tu	0606	0.3	9		24 W	0557	-1.6	-49		24 W	1212	10.3	314	
	1054	10.4	317			1024	10.0	305			1119	9.6	293			1045	9.9	302			1221	8.9	271			1212	10.3	314						
	1655	-0.2	-6			1626	0.2	6			1711	0.8	24			1644	0.2	6			1810	1.4	43			1809	-0.3	-9						
	2309	11.0	335			2236	10.9	332			2323	10.6	323			2254	11.7	357																
10 F	0524	-0.8	-24		25 Sa	0458	-0.8	-24		10 Su	0546	-0.2	-6		25 M	0523	-1.3	-40		10 W	0645	0.4	12		25 Th	0649	-1.6	-49		25 Th	1306	10.5	320	
	1139	10.2	311			1110	10.1	308			1201	9.4	287			1136	10.1	308			1301	8.9	271			1306	10.5	320						
	1738	0.0	0			1710	0.1	3			1753	1.0	30			1734	0.0	0			1851	1.5	46			1904	-0.3	-9						
	2350	10.9	332			2319	11.3	344								2344	11.9	363																
11 Sa	0608	-0.7	-21		26 Su	0544	-1.1	-34		11 M	0603	10.5	320		26 Tu	0614	-1.4	-43		11 Th	0725	0.5	15		26 F	0742	-1.3	-40		26 F	1400	10.5	320	
	1222	10.0	305			1156	10.1	308			1242	9.2	280			1229	10.1	308			1341	8.8	268			1400	10.5	320						
	1819	0.4	12			1756	0.0	0			1834	1.2	37			1826	0.0	0			1933	1.6	49			2000	-0.2	-6						
12 Su	0030	10.7	326		27 M	0004	11.5	351		12 Tu	0044	10.2	311		27 W	0037	11.8	360		12 F	0144	9.8	299		27 Sa	0215	11.3	344						
	0651	-0.4	-12			0632	-1.2	-37			0709	0.2	6			0706	-1.4	-43			0806	0.7	21			0834	-1.0	-30						
	1304	9.6	293			1244	10.1	308			1324	9.0	274			1322	10.1	308			1422	8.8	268			1455	10.5	320						
	1901	0.7	21			1844	0.1	3			1916	1.5	46			1919	0.1	3			2017	1.7	52			2058	0.0	0						
13 M	0111	10.4	317		28 Tu	0053	11.5	351		13 W	0126	10.0	305		28 Th	0132	11.6	354		13 Sa	0227	9.6	293		28 Su	0313	10.7	326						
	0734	0.0	0			0722	-1.1	-34			0751	0.6	18			0800	-1.1	-34			0848	0.8	24			0928	-0.5	-15						
	1348	9.2	280			1335	9.9	302			1406	8.8	268																					

Boston, Massachusetts, 2009

Times and Heights of High and Low Waters

July			August						September												
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height								
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm							
1 W	0000	0.6	18			1 Sa	0132	1.1	34	16 Su	0035	0.4	12	1 Tu	0244	1.1	34	16 W	0218	-0.3	-9
	0614	9.1	277				0746	8.2	250		0645	8.7	265		0857	8.5	259		0833	9.9	302
	1214	1.1	34				1334	1.9	58		1248	1.0	30		1447	1.6	49		1437	0.0	0
	1837	10.1	308				1956	9.6	293		1903	10.6	323		2106	9.6	293		2053	11.1	338
2 Th	0101	0.7	21			2 Su	0228	1.0	30	17 M	0137	0.0	0	2 W	0326	0.9	27	17 Th	0313	-0.7	-21
	0715	8.8	268				0841	8.3	253		0749	9.1	277		0939	8.8	268		0928	10.5	320
	1309	1.4	43				1427	1.9	58		1350	0.7	21		1532	1.3	40		1533	-0.5	-15
	1932	10.0	305				2047	9.7	296		2005	11.0	335		2149	9.8	299		2149	11.3	344
3 F	0200	0.7	21			3 M	0317	0.9	27	18 Tu	0237	-0.5	-15	3 Th	0404	0.7	21	18 F	0404	-0.9	-27
	0814	8.6	262				0929	8.4	256		0849	9.6	293		1018	9.2	280		1018	11.0	335
	1403	1.6	49				1515	1.7	52		1450	0.2	6		1614	1.0	30		1627	-1.0	-30
	2024	10.0	305				2134	9.8	299		2106	11.4	347		2229	10.0	305		● 2242	11.3	344
4 Sa	0253	0.6	18			4 Tu	0359	0.7	21	19 W	0333	-0.9	-27	4 F	0441	0.5	15	19 Sa	0452	-0.9	-27
	0907	8.6	262				1013	8.6	262		0946	10.1	308		1054	9.5	290		1106	11.3	344
	1453	1.6	49				1559	1.5	46		1547	-0.4	-12		1654	0.7	21		1717	-1.2	-37
	2112	10.0	305				2217	10.0	305		2203	11.7	357		○ 2307	10.0	305		2332	11.1	338
5 Su	0341	0.6	18			5 W	0438	0.6	18	20 Th	0426	-1.3	-40	5 Sa	0517	0.4	12	20 Su	0539	-0.8	-24
	0955	8.6	262				1052	8.9	271		1040	10.6	323		1129	9.8	299		1152	11.4	347
	1540	1.6	49				1641	1.3	40		1642	-0.8	-24		1734	0.4	12		1807	-1.1	-34
	2157	10.0	305				○ 2257	10.1	308		● 2258	11.8	360		2345	10.0	305				
6 M	0425	0.5	15			6 Th	0515	0.4	12	21 F	0516	-1.4	-43	6 Su	0553	0.3	9	21 M	0021	10.8	329
	1039	8.7	265				1129	9.1	277		1130	11.0	335		1204	10.0	305		0624	-0.4	-12
	1623	1.5	46				1721	1.0	30		1736	-1.0	-30		1813	0.2	6		1237	11.2	341
	2240	10.1	308				● 2217	11.9	363		2351	11.7	357						1855	-0.9	-27
7 Tu	0505	0.4	12			7 F	0551	0.3	9	22 Sa	0604	-1.3	-40	7 M	0024	9.9	302	22 Tu	0109	10.3	314
	1119	8.8	268				1204	9.3	283		1219	11.2	341		0630	0.4	12		0710	0.1	3
	1705	1.4	43				1801	0.9	27		1827	-1.1	-34		1240	10.2	311		1323	10.9	332
	○ 2320	10.1	308												1854	0.1	3		1943	-0.4	-12
8 W	0543	0.4	12			8 Sa	0013	10.0	305	23 Su	0042	11.3	344	8 Tu	0103	9.7	296	23 W	0158	9.7	296
	1157	8.9	271				0626	0.3	9		0652	-1.0	-30		0709	0.5	15		0756	0.7	21
	1746	1.4	43				1239	9.5	290		1308	11.2	341		1318	10.3	314		1410	10.4	317
	2359	10.1	308				1841	0.8	24		1919	-0.9	-27		1937	0.1	3		2033	0.2	6
9 Th	0620	0.4	12			9 Su	0051	9.9	302	24 M	0133	10.8	329	9 W	0146	9.5	290	24 Th	0248	9.1	277
	1235	9.0	274				0703	0.4	12		0740	-0.5	-15		0751	0.7	21		0845	1.3	40
	1827	1.3	40				1315	9.6	293		1356	11.0	335		1400	10.3	314		1459	9.9	302
							1921	0.7	21		2010	-0.5	-15		2024	0.2	6		2125	0.7	21
10 F	0038	10.0	305			10 M	0130	9.7	296	25 Tu	0225	10.1	308	10 Th	0233	9.2	280	25 F	0341	8.6	262
	0657	0.4	12				0741	0.5	15		0828	0.2	6		0837	0.9	27		0936	1.8	55
	1312	9.1	277				1352	9.8	299		1445	10.6	323		1447	10.3	314		1552	9.5	290
	1907	1.3	40				2004	0.7	21		2103	0.0	0		2115	0.3	9		○ 2220	1.2	37
11 Sa	0118	9.9	302			11 Tu	0211	9.5	290	26 W	0318	9.5	290	11 F	0325	8.9	271	26 Sa	0438	8.2	250
	0735	0.5	15				0821	0.6	18		0918	0.8	24		0928	1.1	34		1031	2.1	64
	1350	9.2	280				1432	9.9	302		1536	10.1	308		1540	10.2	311		1650	9.1	277
	1949	1.2	37				2049	0.7	21		2158	0.6	18		○ 2212	0.4	12		2318	1.5	46
12 Su	0158	9.7	296			12 W	0256	9.2	280	27 Th	0414	8.8	268	12 Sa	0423	8.7	265	27 Su	0537	8.1	247
	0814	0.6	18				0904	0.8	24		1011	1.4	43		1026	1.3	40		1129	2.3	70
	1428	9.3	283				1516	10.0	305		1630	9.7	296		1639	10.2	311		1749	9.0	274
	2033	1.2	37				2139	0.7	21		○ 2256	1.0	30		2313	0.5	15				
13 M	0241	9.4	287			13 Th	0346	8.9	271	28 F	0513	8.4	256	13 Su	0526	8.7	265	28 M	0017	1.6	49
	0855	0.7	21				0953	1.0	30		1107	1.9	58		1128	1.3	40		0635	8.1	247
	1509	9.4	287				1605	10.0	305		1728	9.4	287		1743	10.3	314		1228	2.2	67
	2119	1.2	37				○ 2234	0.7	21		2357	1.3	40						1847	9.0	274
14 Tu	0326	9.2	280			14 F	0442	8.7	265	29 Sa	0614	8.1	247	14 M	0017	0.3	9	29 Tu	0112	1.5	46
	0938	0.9	27				1047	1.2	37		1205	2.1	64		0631	8.9	271		0728	8.4	256
	1552	9.6	293				1701	10.2	311		1827	9.2	280		1233	1.0	30		1324	2.0	61
	2209	1.1	34				2333	0.6	18						1849	10.5	320		1941	9.2	280
15 W	0415	9.0	274			15 Sa	0542	8.6	262	30 Su	0058	1.4	43	15 Tu	0119	0.1	3	30 W	0201	1.3	40
	1025	1.0	30				1146	1.2	37		0714	8.1	247		0734	9.3	283		0816	8.7	265
	1639	9.8	299				1800	10.3	314		1303	2.1	64		1337	0.6	18		1414	1.6	49
	○ 2302	1.0	30								1925	9.3	283		1953	10.8	329		2030	9.4	287
					31 F	0032	1.0	30	31 M	0155	1.3	40									
						0647	8.4	256		0808	8.2	250									
						1238	1.8	55		1358	1.9	58									
						1901	9.6	293		2018	9.4	287									

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, 2009

Times and Heights of High and Low Waters

October			November			December																	
Time	Height		Time	Height		Time	Height		Time	Height													
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm									
1 Th	0244	1.1	34			1 Su	0324	0.7	21		1 Tu	0334	0.6	18									
	0859	9.1	277	16 F	0251		-0.3	-9	0908	10.8		329	16 W	0430	0.9	27							
	1500	1.1	34		1520		-0.6	-18	1554	0.0		0		1612	-0.7	-21	1710	-0.2	-6				
	2115	9.6	293		2135		10.6	323	2206	9.6		293		2224	9.5	290	2325	9.0	274				
2 F	0325	0.8	24	17 Sa	0341	-0.4	-12	2 M	0406	0.5	15	17 Tu	0450	0.5	15	2 W	0421	0.3	9	17 Th	0512	1.0	30
	0938	9.5	290		0956	11.1	338		1016	10.7	326		1103	10.9	332		1031	11.3	344		1126	10.4	317
	1543	0.7	21		1611	-0.9	-27		1638	-0.4	-12		1727	-0.6	-18		1701	-1.1	-34		1751	-0.1	-3
	2157	9.8	299		2226	10.6	323		2249	9.7	296		2342	9.5	290		2312	9.7	296				
3 Sa	0403	0.6	18	18 Su	0428	-0.3	-9	3 Tu	0449	0.4	12	18 W	0533	0.7	21	3 Th	0509	0.1	3	18 F	0005	8.9	271
	1015	9.9	302		1042	11.3	344		1057	11.0	335		1145	10.7	326		1120	11.6	354		0554	1.0	30
	1625	0.3	9		1700	-1.0	-30		1722	-0.7	-21		1810	-0.4	-12		1749	-1.3	-40		1207	10.2	311
	2237	9.9	302		2314	10.4	317		2334	9.8	299						1830	0.0	0		1830	0.0	0
4 Su	0441	0.5	15	19 M	0513	-0.1	-3	4 W	0532	0.3	9	19 Th	0025	9.3	283	4 F	0002	9.8	299	19 Sa	0044	8.9	271
	1052	10.3	314		1126	11.3	344		1141	11.2	341		0616	1.0	30		0559	0.0	0		0635	1.1	34
	1705	-0.1	-3		1746	-0.9	-27		1808	-0.9	-27		1227	10.4	317		1210	11.6	354		1247	10.1	308
	2317	9.9	302										1853	-0.1	-3		1839	-1.4	-43		1909	0.2	6
5 M	0520	0.4	12	20 Tu	0000	10.1	308	5 Th	0020	9.7	296	20 F	0108	9.0	274	5 Sa	0053	9.9	302	20 Su	0124	8.8	268
	1129	10.5	320		0557	0.2	6		0618	0.3	9		0659	1.2	37		0651	0.0	0		0717	1.2	37
	1747	-0.3	-9		1209	11.0	335		1227	11.3	344		1310	10.1	308		1302	11.5	351		1328	9.8	299
	2358	9.9	302		1831	-0.6	-18		1856	-0.9	-27		1936	0.3	9		1931	-1.3	-40		1949	0.4	12
6 Tu	0600	0.4	12	21 W	0046	9.7	296	6 F	0108	9.6	293	21 Sa	0151	8.8	268	6 Su	0146	9.9	302	21 M	0204	8.8	268
	1208	10.7	326		0641	0.6	18		0707	0.4	12		0744	1.5	46		0745	0.0	0		0800	1.3	40
	1830	-0.4	-12		1253	10.7	326		1316	11.2	341		1355	9.8	299		1357	11.2	341		1410	9.5	290
					1917	-0.2	-6		1947	-0.7	-21		2020	0.6	18		2024	-1.0	-30		2030	0.6	18
7 W	0040	9.7	296	22 Th	0132	9.3	283	7 Sa	0201	9.5	290	22 Su	0236	8.6	262	7 M	0241	9.9	302	22 Tu	0245	8.8	268
	0642	0.5	15		0726	1.1	34		0759	0.6	18		0830	1.7	52		0842	0.2	6		0845	1.5	46
	1249	10.8	329		1338	10.2	311		1410	10.9	332		1441	9.4	287		1455	10.8	329		1454	9.2	280
	1915	-0.4	-12		2003	0.3	9		2041	-0.5	-15		2106	0.9	27		2118	-0.7	-21		2112	0.8	24
8 Th	0125	9.5	290	23 F	0219	8.9	271	8 Su	0257	9.4	287	23 M	0323	8.5	259	8 Tu	0338	9.9	302	23 W	0328	8.8	268
	0726	0.7	21		0813	1.5	46		0856	0.8	24		0919	1.9	58		0942	0.3	9		0933	1.5	46
	1335	10.7	326		1425	9.8	299		1509	10.6	323		1531	9.1	277		1556	10.3	314		1541	8.9	271
	2004	-0.2	-6		2052	0.8	24		2138	-0.2	-6		2153	1.2	37		2215	-0.3	-9		2156	1.0	30
9 F	0215	9.3	283	24 Sa	0308	8.5	259	9 M	0357	9.3	283	24 Tu	0412	8.4	256	9 W	0437	9.9	302	24 Th	0413	8.9	271
	0816	0.9	27		0902	1.9	58		0957	0.9	27		1011	2.0	61		1045	0.4	12		1023	1.6	49
	1426	10.6	323		1516	9.4	287		1612	10.3	314		1623	8.8	268		1700	9.8	299		1631	8.6	262
	2057	0.0	0		2142	1.2	37		2238	0.0	0		2242	1.4	43		2313	0.1	3		2243	1.2	37
10 Sa	0310	9.0	274	25 Su	0401	8.3	253	10 Tu	0459	9.5	290	25 W	0502	8.5	259	10 Th	0537	10.0	305	25 F	0501	9.0	274
	0910	1.1	34		0955	2.2	67		1102	0.9	27		1105	2.0	61		1150	0.4	12		1117	1.4	43
	1522	10.4	317		1610	9.1	277		1717	10.0	305		1717	8.7	265		1805	9.4	287		1725	8.4	256
	2155	0.2	6		2236	1.5	46		2338	0.2	6		2332	1.4	43						2333	1.3	40
11 Su	0410	8.9	271	26 M	0455	8.2	250	11 W	0600	9.7	296	26 Th	0551	8.8	268	11 F	0012	0.4	12	26 Sa	0550	9.2	280
	1011	1.2	37		1051	2.3	70		1207	0.7	21		1200	1.8	55		0636	10.2	311		1212	1.2	37
	1625	10.2	311		1706	8.9	271		1823	9.9	302		1811	8.6	262		1254	0.3	9		1820	8.3	253
	2256	0.3	9		2330	1.6	49								1909		9.2	280					
12 M	0513	9.0	274	27 Tu	0550	8.3	253	12 Th	0038	0.2	6	27 F	0021	1.4	43	12 Sa	0110	0.7	21	27 Su	0025	1.3	40
	1115	1.2	37		1148	2.2	67		0700	10.1	308		0640	9.1	277		0733	10.3	314		0641	9.6	293
	1731	10.2	311		1803	8.8	268		1311	0.3	9		1254	1.4	43		1355	0.1	3		1308	0.8	24
	2359	0.3	9						1927	9.8	299		1904	8.7	265		2011	9.1	277		1917	8.4	256
13 Tu	0618	9.3	283	28 W	0022	1.6	49	13 F	0135	0.2	6	28 Sa	0111	1.3	40	13 Su	0205	0.8	24	28 M	0119	1.2	37
	1221	0.9	27		0642	8.5	259		0755	10.5	320		0727	9.5	290		0826	10.4	317		0733	10.0	305
	1837	10.2	311		1244	1.9	58		1411	-0.1	-3		1346	0.9	27		1451	-0.1	-3		1403	0.3	9
					1858	8.9	271		2026	9.8	299		1956	8.8	268		2107	9.0	274		2013	8.6	262
14 W	0100	0.1	3	29 Th	0112	1.4	43	14 Sa	0228	0.2	6	29 Su	0159	1.1	34	14 M	0257	0.9	27	29 Tu	0212	0.9	27
	0719	9.7	296		0730	8.9	271		0847	10.8	329		0813	10.0	305		0916	10.5	320		0826	10.5	320
	1325	0.4	12		1336	1.5	46		1506	-0.4	-12		1436	0.3	9		1542	-0.2	-6		1457	-0.3	-9
	1941	10.4	317		1949	9.0	274		2121	9.8	299		2046	9.0	274		2157	9.0	274		2108	9.0	274
15 Th	0158	-0.1	-3	30 F	0158	1.2	37	15 Su	0318	0.3	9	30 M	0246	0.8	24	15 Tu	0345	0.9	27	30 W	0305	0.5	15
	0816	10.3	314		0814	9.4	287		0935	10.9	332		0859	10.5	320		1002	10.5	320		0918	11.0	335
	1424	-0.1	-3		1424	1.0	30		1556	-0.6	-18		1524	-0.2	-6		1628	-0.3	-9		1549	-0.9	-27
	2040	10.5	320		2037	9.2	280		2211	9.8	299		2135	9.3	283		2243	9.0	274		2201	9.4	287
			31 Sa	0242	1.0	30										31 Th	0358	0.1	3				
				0856	9.8	299					</												

Nantucket, Massachusetts, 2009

Times and Heights of High and Low Waters

January					February					March																			
Time		Height			Time		Height			Time		Height			Time		Height												
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm		h	m	ft	cm										
1 Th	0311	2.8	85		16 F	0406	3.4	104		1 Su	0359	3.2	98		16 M	0508	3.3	101		1 Su	0243	3.4	104		16 M	0338	3.4	104	
	0842	0.6	18			0952	0.0	0			0958	0.1	3			1122	0.2	6			0845	-0.1	-3			0952	0.0	0	
	1514	3.1	94			1628	3.2	98			1627	2.7	82			1751	2.5	76			1518	2.8	85			1623	2.6	79	
	2116	0.2	6			2211	0.0	0			2205	0.2	6			2318	0.5	15			2050	0.2	6			2150	0.5	15	
2 F	0352	2.9	88		17 Sa	0458	3.5	107		2 M	0447	3.4	104		17 Tu	0600	3.3	101		2 M	0330	3.5	107		17 Tu	0426	3.3	101	
	0931	0.5	15			1054	0.1	3			1055	0.1	3			1222	0.3	9			0938	-0.1	-3			1045	0.2	6	
	1601	3.0	91			1727	2.9	88			1721	2.6	79			1847	2.4	73			1610	2.7	82			1713	2.5	76	
	2156	0.2	6			2303	0.2	6			2255	0.3	9			2138	0.2	6			2138	0.2	6			2241	0.6	18	
3 Sa	0435	3.0	91		18 Su	0551	3.4	104		3 Tu	0539	3.5	107		18 W	0013	0.6	18		3 Tu	0421	3.6	110		18 W	0517	3.2	98	
	1024	0.4	12			1157	0.2	6			1155	0.0	0			0654	3.2	98			1035	-0.1	-3			1141	0.3	9	
	1651	2.9	88			1827	2.6	79			1820	2.5	76			1321	0.3	9			1706	2.6	79			1805	2.4	73	
	2240	0.3	9			2356	0.4	12			2350	0.3	9			1944	2.3	70			2232	0.2	6			2335	0.7	21	
4 Su	0521	3.2	98		19 M	0644	3.4	104		4 W	0636	3.6	110		19 Th	0107	0.7	21		4 W	0518	3.6	110		19 Th	0610	3.1	94	
	1120	0.3	9			1300	0.3	9			1257	0.0	0			0748	3.2	98			1136	-0.1	-3			1237	0.4	12	
	1745	2.7	82			1928	2.5	76			1922	2.5	76			1417	0.4	12			1806	2.5	76			1857	2.3	70	
	2327	0.3	9													2038	2.3	70			2331	0.3	9						
5 M	0609	3.4	104		20 Tu	0049	0.6	18		5 Th	0050	0.2	6		20 F	0201	0.7	21		5 Th	0619	3.6	110		20 F	0031	0.7	21	
	1220	0.2	6			0737	3.4	104			0737	3.8	116			0840	3.2	98			1238	-0.1	-3			0705	3.0	91	
	1842	2.6	79			1400	0.3	9			1359	-0.1	-3			1507	0.4	12			1908	2.5	76			1331	0.4	12	
						2028	2.4	73			2025	2.5	76			2127	2.3	70								1949	2.4	73	
6 Tu	0018	0.3	9		21 W	0142	0.6	18		6 F	0151	0.2	6		21 Sa	0251	0.6	18		6 F	0035	0.2	6		21 Sa	0126	0.7	21	
	0701	3.6	110			0828	3.3	101			0838	3.9	119			0929	3.2	98			0723	3.7	113			0758	3.0	91	
	1320	0.0	0			1455	0.3	9			1459	-0.2	-6			1551	0.3	9			1341	-0.1	-3			1420	0.4	12	
	1942	2.6	79			2123	2.3	70			2127	2.6	79			2210	2.4	73			2012	2.6	79			2038	2.4	73	
7 W	0113	0.3	9		22 Th	0233	0.7	21		7 Sa	0252	0.0	0		22 Su	0338	0.6	18		7 Sa	0139	0.1	3		22 Su	0218	0.6	18	
	0756	3.8	116			0917	3.3	101			0940	4.0	122			1015	3.2	98			0828	3.7	113			0850	3.0	91	
	1419	-0.1	-3			1543	0.3	9			1555	-0.3	-9			1630	0.3	9			1440	-0.2	-6			1504	0.4	12	
	2043	2.5	76			2211	2.3	70			2226	2.8	85			2250	2.5	76			2113	2.8	85			2124	2.6	79	
8 Th	0209	0.2	6		23 F	0320	0.7	21		8 Su	0351	-0.1	-3		23 M	0422	0.5	15		8 Su	0242	0.0	0		23 M	0307	0.5	15	
	0853	4.0	122			1002	3.3	101			1039	4.0	122			1058	3.2	98			0930	3.7	113			0939	3.0	91	
	1517	-0.3	-9			1626	0.2	6			1648	-0.4	-12			1705	0.2	6			1535	-0.2	-6			1544	0.4	12	
	2143	2.6	79			2252	2.4	73			2322	3.0	91			2328	2.6	79			2210	3.0	91			2206	2.7	82	
9 F	0307	0.1	3		24 Sa	0405	0.6	18		9 M	0450	-0.2	-6		24 Tu	0504	0.4	12		9 M	0343	-0.1	-3		24 Tu	0353	0.4	12	
	0952	4.1	125			1045	3.3	101			1137	4.0	122			1139	3.2	98			1030	3.7	113			1025	3.0	91	
	1613	-0.4	-12			1705	0.2	6			1739	-0.5	-15			1740	0.2	6			1626	-0.2	-6			1621	0.3	9	
	2242	2.7	82			2330	2.4	73													2303	3.2	98			2246	2.9	88	
10 Sa	0404	0.0	0		25 Su	0447	0.6	18		10 Tu	0014	3.2	98		25 W	0005	2.8	85		10 Tu	0440	-0.2	-6		25 W	0437	0.2	6	
	1050	4.2	128			1125	3.4	104			0546	-0.3	-9			0545	0.2	6			1126	3.6	110			1110	3.0	91	
	1707	-0.5	-15			1742	0.2	6			1232	3.9	119			1220	3.2	98			1714	-0.2	-6			1658	0.3	9	
	2339	2.8	85								1827	-0.4	-12			1814	0.2	6			2352	3.4	104			2326	3.1	94	
11 Su	0501	-0.1	-3		26 M	0006	2.5	76		11 W	0105	3.3	101		26 Th	0043	2.9	88		11 W	0535	-0.3	-9		26 Th	0521	0.0	0	
	1148	4.2	128			0528	0.5	15			0642	-0.3	-9			0627	0.1	3			1219	3.5	107			1154	3.0	91	
	1800	-0.6	-18			1205	3.4	104			1325	3.7	113			1302	3.1	94			1800	-0.2	-6			1734	0.2	6	
						1817	0.2	6			1914	-0.3	-9			1849	0.1	3											
12 M	0034	3.0	91		27 Tu	0042	2.6	79		12 Th	0154	3.4	104		27 F	0121	3.1	94		12 Th	0039	3.5	107		27 F	0005	3.3	101	
	0558	-0.2	-6			0609	0.5	15			0737	-0.3	-9			0711	0.0	0			0628	-0.4	-12			0604	-0.1	-3	
	1244	4.2	128			1244	3.3	101			1417	3.5	107			1345	3.0	91			1310	3.3	101			1239	3.0	91	
	1851	-0.6	-18			1851	0.1	3			2001	-0.2	-6			1926	0.1	3			1845	-0.1	-3			1813	0.2	6	
13 Tu	0128	3.2	98		28 W	0119	2.7	82		13 F	0242	3.5	107		28 Sa	0200	3.3	101		13 F	0124	3.6	110		28 Sa	0046	3.4	104	
	0655	-0.2	-6			0650	0.4	12			0832	-0.2	-6			0756	-0.1	-3			0719	-0.3	-9			0650	-0.3	-9	
	1340	4.0	122			1325	3.3	101			1509	3.2	98			1430	2.9	88			1359	3.1	94			1325	2.9	88	
	1941	-0.5	-15			1926	0.1	3			2048	0.0	0			2006	0.2	6			1930	0.0	0			1854	0.2	6	
14 W	0221	3.3	101		29 Th	0157	2.8	85		14 Sa	0330	3.5	107		29 Su	0208	3.5	107		14 Sa	0129	3.6	110						
	0753	-0.2	-6			0733	0.3	9			0927	-0.1	-3			0809	-0.3	-9			0809	-0.3	-9		0737	-0.3	-9		
	1436	3.8	116			1406	3.2	98			1602	2.9																	

Nantucket, Massachusetts, 2009

Times and Heights of High and Low Waters

April				May				June																				
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height															
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm														
1 W	0404	3.7	113			1 F	0452	3.7	113	16 Sa	0450	3.1	94	1 M	0008	0.2	6	16 Tu	0554	2.9	88							
	1019	-0.2	-6				1101	-0.2	-6				1106		0.4	12				0645	3.2	98			1147	0.5	15	
	1655	2.6	79				1743	2.9	88				1735		2.7	82				1231	0.1	3			1824	3.2	98	
	2217	0.2	6				2311	0.3	9				2315		0.8	24				1920	3.5	107						
2 Th	0504	3.7	113			2 Sa	0555	3.6	110	17 Su	0540	3.0	91	2 Tu	0115	0.2	6	17 W	0028	0.5	15	17 Th	0647	2.8	85			
	1119	-0.2	-6				1200	-0.1	-3				1151		0.4	12				0750	3.0		91			1232	0.5	15
	1755	2.6	79				1843	3.1	94				1821		2.8	85				1325	0.2		6			1910	3.4	104
	2319	0.3	9				0018	0.2	6				0010		0.7	21				2015	3.6		110			0123	0.4	12
3 F	0607	3.6	110			3 Su	0700	3.4	104	18 M	0632	2.9	88	3 W	0854	2.8	85	18 Th	0742	2.7	82							
	1220	-0.1	-3				1258	0.0	0				1235		0.5	15				1416	0.4	12			1319	0.5	15	
	1857	2.7	82				1942	3.2	98				1906		2.9	88				2107	3.7	113			1958	3.6	110	
							0125	0.2	6				0104		0.6	18				0316	0.1	3			0218	0.2	6	
4 Sa	0712	3.5	107			4 M	0805	3.2	98	19 Tu	0725	2.8	85	4 Th	0955	2.7	82	19 F	0838	2.6	79							
	1321	-0.1	-3				1352	0.1	3				1319		0.5	15				1506	0.5	15			1409	0.4	12	
	1959	2.9	88				2038	3.4	104				1952		3.1	94				2155	3.7	113			2049	3.8	116	
							0229	0.1	3				0158		0.4	12				0408	0.0	0			0312	0.0	0	
5 Su	0817	3.5	107			5 Tu	0909	3.1	94	20 W	0819	2.7	82	5 F	1050	2.7	82	20 Sa	0935	2.6	79							
	1418	-0.1	-3				1444	0.2	6				1403		0.5	15				1553	0.6	18			1501	0.4	12	
	2058	3.0	91				2131	3.5	107				2037		3.3	101				2240	3.6	110			2141	4.0	122	
							0328	0.0	0				0249		0.2	6				0455	0.0	0			0406	-0.2	-6	
6 M	0921	3.4	104			6 W	1009	3.0	91	21 Th	0912	2.7	82	6 Sa	1138	2.6	79	21 Su	1032	2.7	82							
	1511	0.0	0				1533	0.2	6				1448		0.4	12				1638	0.6	18			1554	0.3	9	
	2152	3.2	98				2219	3.6	110				2123		3.5	107				2322	3.6	110			2236	4.2	128	
							0421	-0.1	-3				0340		0.0	0				0538	0.0	0			0459	-0.4	-12	
7 Tu	1020	3.3	101			7 Th	1104	2.9	88	22 F	1005	2.7	82	7 Su	1220	2.6	79	22 M	1128	2.8	85							
	1600	0.0	0				1619	0.3	9				1534		0.4	12				1721	0.7	21			1648	0.1	3	
	2242	3.4	104				2304	3.6	110				2210		3.8	116				0001	3.6	110			2332	4.3	131	
							0510	-0.2	-6				0430		-0.2	-6				0620	0.1	3			0551	-0.5	-15	
8 W	1116	3.2	98			8 F	1154	2.8	85	23 Sa	1058	2.7	82	8 M	1258	2.6	79	23 Tu	1224	2.9	88							
	1647	0.0	0				1704	0.4	12				1621		0.3	9				1804	0.7	21			1743	0.1	3	
	2329	3.5	107				2346	3.6	110				2259		4.0	122				0041	3.5	107			1840	0.0	0	
							0556	-0.2	-6				0520		-0.4	-12				0700	0.1	3			0029	4.3	131	
9 Th	1207	3.1	94			9 Sa	1239	2.7	82	24 Su	1151	2.8	85	9 Tu	1335	2.6	79	24 W	0644	-0.5	-15							
	1732	0.1	3				1747	0.5	15				1711		0.2	6				1846	0.7	21			1319	3.0	91	
							0026	3.6	110				0611		-0.5	-15				0041	3.5	107			1840	0.0	0	
							0640	-0.1	-3				1245		2.8	85				0700	0.1	3			0644	-0.5	-15	
10 F	1255	3.0	91			10 Su	1321	2.6	79	25 M	1802	0.1	3	10 W	1412	2.6	79	25 Th	1415	3.2	98							
	1816	0.2	6				1830	0.6	18				1802		0.1	3				1929	0.7	21			1415	3.2	98	
							0106	3.5	107				0045		4.2	128				0202	3.4	104			1939	0.0	0	
							0723	-0.1	-3				0702		-0.5	-15				0820	0.2	6			0224	4.1	125	
11 Sa	0700	-0.3	-9			11 M	1401	2.6	79	26 Tu	1339	2.9	88	11 Th	1451	2.6	79	26 F	1510	3.3	101							
	1341	2.8	85				1913	0.6	18				1856		0.1	3				2013	0.7	21			1510	3.3	101	
	1859	0.3	9				0147	3.5	107				0238		4.1	125				0245	3.4	104			2039	0.0	0	
							0807	0.0	0				0849		-0.5	-15				0901	0.2	6			0828	-0.4	-12	
12 Su	0746	-0.2	-6			12 Tu	1440	2.6	79	27 W	1434	2.9	88	12 F	1531	2.7	82	27 Sa	1606	3.5	107							
	1424	2.7	82				1957	0.7	21				1952		0.1	3				2100	0.7	21			1606	3.5	107	
	1943	0.4	12				0230	3.4	104				0237		3.9	119				0329	3.2	98			2142	0.1	3	
							0850	0.1	3				0755		-0.5	-15				0941	0.3	9			0323	3.9	119	
13 M	0833	-0.1	-3			13 W	1521	2.6	79	28 Th	1530	3.0	91	13 Sa	1613	2.8	85	28 Su	1701	3.6	110							
	1508	2.6	79				2043	0.7	21				2052		0.1	3				2148	0.7	21			1014	-0.1	-3	
	2028	0.5	15				0315	3.3	101				0337		3.9	119				0416	3.1	94			1701	3.6	110	
							0935	0.2	6				0944		-0.3	-9				1022	0.4	12			2247	0.2	6	
14 Tu	0920	0.0	0			14 Th	1604	2.6	79	29 F	1627	3.1	94	14 Su	1656	2.9	88	29 M	1757	3.7	113							
	1552	2.5	76				2131	0.7	21				2155		0.2	6				2239	0.7	21			2353	0.2	6	
	2115	0.6	18				0401	3.2	98				0438		3.7	113				0504	3.0	91			0523	3.3	101	
							1020	0.3	9				1040		-0.2	-6				1103	0.4	12			1108	0.1	3	
15 W	1638	2.5	76			15 F	1649	2.6	79	30 Sa	1725	3.3	101	15 M	1739	3.1	94	30 Tu	1852	3.7	113							
	2205	0.7	21				2222	0.8	24				2301		0.2	6				2333	0.6	18			1202	0.3	9	
							0401	3.2	98				0541		3.5	107				0626	3.1	94			1852	3.7	113	
							1020	0.3	9				1136		-0.1	-3				1202	0.3	9						
					1649	2.6	79			1823	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.

Nantucket, Massachusetts, 2009

Times and Heights of High and Low Waters

July				August				September																					
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height																
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm															
1 W	0058	0.2	6		16 Th	0616	2.7	82		1 Sa	0232	0.4	12		16 Su	0127	0.2	6		1 Tu	0334	0.6	18		16 W	0301	0.0	0	
	0730	2.8	85			1152	0.5	15			0904	2.6	79			0750	2.7	82			0957	2.7	82			0933	3.2	98	
	1255	0.4	12			1834	3.6	110			1413	0.8	24			1319	0.4	12			1525	0.8	24			1511	0.1	3	
	1947	3.7	113								2101	3.6	110			2005	4.0	122			2202	3.4	104			2155	3.9	119	
2 Th	0201	0.2	6		17 F	0052	0.3	9		2 Su	0324	0.4	12		17 M	0226	0.1	3		2 W	0413	0.5	15		17 Th	0353	0.0	0	
	0834	2.7	82			0712	2.7	82			0956	2.6	79			0850	2.8	85			1035	2.8	85			1027	3.5	107	
	1348	0.6	18			1244	0.5	15			1503	0.8	24			1420	0.3	9			1610	0.7	21			1610	-0.1	-3	
	2040	3.7	113			1927	3.8	116			2149	3.5	107			2106	4.1	125			2244	3.4	104			2253	3.8	116	
3 F	0258	0.2	6		18 Sa	0150	0.2	6		3 M	0409	0.4	12		18 Tu	0323	0.0	0		3 Th	0450	0.5	15		18 F	0442	0.0	0	
	0934	2.6	79			0810	2.6	79			1039	2.6	79			0949	3.0	91			1112	2.9	88			1119	3.7	113	
	1439	0.7	21			1339	0.4	12			1550	0.8	24			1520	0.1	3			1652	0.6	18			1707	-0.2	-6	
	2129	3.6	110			2023	4.0	122			2233	3.5	107			2206	4.2	128			2325	3.3	101			2349	3.7	113	
4 Sa	0349	0.2	6		19 Su	0248	0.0	0		4 Tu	0450	0.4	12		19 W	0416	-0.1	-3		4 F	0524	0.5	15		19 Sa	0530	0.0	0	
	1028	2.6	79			0910	2.7	82			1118	2.6	79			1046	3.2	98			1148	3.0	91			1208	3.8	116	
	1528	0.7	21			1436	0.3	9			1634	0.8	24			1619	0.0	0			1733	0.5	15			1801	-0.2	-6	
	2216	3.6	110			2121	4.1	125			2314	3.5	107			2305	4.2	128											
5 Su	0436	0.2	6		20 M	0344	-0.1	-3		5 W	0527	0.4	12		20 Th	0507	-0.2	-6		5 Sa	0005	3.3	101		20 Su	0043	3.6	110	
	1114	2.5	76			1009	2.8	85			1153	2.7	82			1141	3.4	104			0558	0.5	15			0617	0.1	3	
	1613	0.8	24			1533	0.2	6			1716	0.7	21			1717	-0.1	-3			1224	3.2	98			1256	3.9	119	
	2258	3.6	110			2219	4.3	131			2353	3.5	107			●					1814	0.4	12			1854	-0.2	-6	
6 M	0518	0.3	9		21 Tu	0438	-0.3	-9		6 Th	0603	0.4	12		21 F	0002	4.1	125		6 Su	0046	3.2	98		21 M	0136	3.4	104	
	1153	2.5	76			1106	2.9	88			1228	2.8	85			0557	-0.2	-6			0632	0.5	15			0704	0.2	6	
	1657	0.8	24			1631	0.1	3			1757	0.7	21			1233	3.6	110			1302	3.3	101			1344	3.9	119	
	2338	3.6	110			●	2317	4.3	131							1814	-0.2	-6			1855	0.3	9			1947	-0.2	-6	
7 Tu	0557	0.3	9		22 W	0531	-0.3	-9		7 F	0032	3.4	104		22 Sa	0057	3.9	119		7 M	0128	3.2	98		22 Tu	0227	3.2	98	
	1229	2.6	79			1202	3.1	94			0637	0.4	12			0646	-0.1	-3			0707	0.5	15			0752	0.4	12	
	1739	0.7	21			1729	0.0	0			1304	2.9	88			1324	3.8	116			1340	3.4	104			1432	3.9	119	
											1838	0.6	18			1910	-0.2	-6			1938	0.3	9			2039	0.0	0	
8 W	0018	3.5	107		23 Th	0015	4.3	131		8 Sa	0111	3.4	104		23 Su	0152	3.7	113		8 Tu	0212	3.1	94		23 W	0319	3.0	91	
	0635	0.3	9			0622	-0.4	-12			0711	0.4	12			0734	0.0	0			0745	0.5	15			0840	0.5	15	
	1304	2.6	79			1257	3.3	101			1340	3.0	91			1415	3.8	116			1421	3.5	107			1521	3.7	113	
	1821	0.7	21			1827	-0.1	-3			1920	0.6	18			2007	-0.1	-3			2024	0.2	6			2133	0.1	3	
9 Th	0057	3.5	107		24 F	0112	4.2	128		9 Su	0152	3.3	101		24 M	0247	3.5	107		9 W	0258	3.0	91		24 Th	0411	2.9	88	
	0711	0.3	9			0713	-0.3	-9			0746	0.4	12			0823	0.1	3			0827	0.6	18			0931	0.7	21	
	1340	2.7	82			1351	3.5	107			1418	3.2	98			1506	3.9	119			1505	3.6	110			1611	3.6	110	
	1903	0.7	21			1925	-0.1	-3			2003	0.5	15			2104	0.0	0			2114	0.2	6			2228	0.3	9	
10 F	0137	3.4	104		25 Sa	0209	4.0	122		10 M	0235	3.2	98		25 Tu	0342	3.2	98		10 Th	0347	2.9	88		25 F	0503	2.8	85	
	0748	0.3	9			0803	-0.2	-6			0822	0.5	15			0913	0.3	9			0913	0.6	18			1025	0.8	24	
	1417	2.8	85			1444	3.6	110			1457	3.3	101			1557	3.8	116			1555	3.7	113			1704	3.5	107	
	1946	0.7	21			2024	0.0	0			2049	0.4	12			2201	0.1	3			2208	0.2	6			●	2324	0.4	12
11 Sa	0218	3.4	104		26 Su	0306	3.7	113		11 Tu	0320	3.1	94		26 W	0438	3.0	91		11 F	0440	2.8	85		26 Sa	0556	2.7	82	
	0824	0.3	9			0853	-0.1	-3			0901	0.5	15			1005	0.5	15			1004	0.6	18			1121	0.9	27	
	1456	2.9	88			1538	3.7	113			1539	3.4	104			1649	3.7	113			1649	3.8	116			1758	3.4	104	
	2030	0.7	21			2125	0.0	0			2138	0.4	12			2301	0.3	9			●	2306	0.2	6					
12 Su	0301	3.2	98		27 M	0403	3.5	107		12 W	0407	2.9	88		27 Th	0535	2.8	85		12 Sa	0536	2.7	82		27 Su	0021	0.5	15	
	0901	0.4	12			0944	0.1	3			0943	0.5	15			1059	0.7	21			1101	0.6	18			0649	2.6	79	
	1536	3.0	91			1631	3.8	116			1624	3.5	107			1743	3.6	110			1747	3.8	116			1218	0.9	27	
	2117	0.6	18			2227	0.1	3			2231	0.4	12			●								1853		3.3	101		
13 M	0345	3.1	94		28 Tu	0502	3.2	98		13 Th	0458	2.8	85		28 F	0001	0.4	12		13 Su	0006	0.2	6		28 M	0116	0.6	18	
	0940	0.4	12			1037	0.3	9			1030	0.6	18			0633	2.7	82			0635	2.7	82			0740	2.7	82	
	1617	3.2	98			1725	3.8	116			1713	3.6	110			1154	0.8	24			1202	0.5	15			1315	0.9	27	
	2207	0.6	18			●	2330	0.2	6			●	2327	0.3		9		1839	3.5		107		1849	3.9		119		1946	3.3	101
14 Tu	0433	3.0	91		29 W	0603	2.9	88		14 F	0553	2.7	82		29 Sa	0101	0.5	15		14 M	0107	0.2	6</						

Woods Hole, Massachusetts, 2009

Times and Heights of High and Low Waters

January				February				March															
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height										
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm									
1 Th	0527	0.3	9			1 Su	0722	0.2	6	16 M	0057	1.7	52	1 Su	0602	-0.1	-3	16 M	0753	0.2	6		
	1115	1.8	55	16 F	1203		1.6	49	1217		1.5	46	0936		0.3	9	1106		1.6	49	1151	1.2	37
	1816	0.2	6		1950		0.0	0	1907		0.2	6	1311		1.0	30	1742		0.1	3	1743	0.5	15
	2341	1.5	46										1555		0.5	15	2332		2.1	64			
2 F	0631	0.4	12			2 M	0049	1.9	58	17 Tu	0156	1.6	49	2 M	0710	0.0	0	17 Tu	0025	1.7	52		
	1158	1.6	49	17 Sa	0854		0.1	3	0832		0.1	3	1041		0.3	9	1157		1.5	46	0901	0.3	9
	1900	0.2	6		1253		1.3	40	1311		1.4	43	1405		0.9	27	1838		0.2	6	1241	1.1	34
					2049		0.2	6	2002		0.2	6	1636		0.5	15	1823*		0.7	21	1529	0.5	15
3 Sa	0028	1.6	49			3 Tu	0150	1.9	58	18 W	0300	1.5	46	3 Tu	0028	2.1	64	18 W	0122	1.5	46		
	0739	0.4	12	18 Su	1003		0.2	6	0939		0.0	0	1140		0.3	9	0820		0.0	0	1004	0.4	12
	1245	1.5	46		1345		1.1	34	1410		1.3	40	1504		0.9	27	1251		1.4	43	1334	1.0	30
	1946	0.2	6		1623		0.6	18	2059		0.1	3	1726		0.6	18	1942		0.1	3	1608	0.6	18
4 Su	0120	1.7	52			4 W	0256	2.0	61	19 Th	0406	1.5	46	4 W	0129	2.0	61	19 Th	0224	1.4	43		
	0847	0.3	9	19 M	1108		0.2	6	1042		-0.1	-3	1230		0.3	9	0927		-0.1	-3	1058	0.4	12
	1338	1.4	43		1439		1.0	30	1514		1.3	40	1603		1.0	30	1351		1.3	40	1432	1.0	30
	2033	0.2	6		1707		0.6	18	2157		0.0	0	2214		0.4	12	2049		0.1	3	1654	0.7	21
5 M	0218	1.8	55			5 Th	0402	2.2	67	20 F	0503	1.6	49	5 Th	0236	2.0	61	20 F	0329	1.4	43		
	0951	0.1	3	20 Tu	1208		0.2	6	1143		-0.2	-6	1309		0.3	9	1028		-0.2	-6	1142	0.4	12
	1437	1.4	43		1536		0.9	27	1617		1.4	43	1657		1.1	34	1454		1.4	43	1533	1.0	30
	2121	0.1	3		2342		0.4	12	2257		-0.2	-6	2303		0.3	9	2156		0.0	0	2157	0.5	15
6 Tu	0320	2.0	61			6 F	0503	2.4	73	21 Sa	0548	1.7	52	6 F	0342	2.1	64	21 Sa	0427	1.5	46		
	1053	0.0	0	21 W	1300		0.2	6	1240		-0.4	-12	1335		0.2	6	1126		-0.3	-9	1211	0.4	12
	1539	1.4	43		1632		1.0	30	1715		1.6	49	1745		1.3	40	1558		1.5	46	1629	1.2	37
	2211	0.0	0		2232		0.4	12					2356		0.2	6	2304		-0.2	-6	2249	0.4	12
7 W	0423	2.3	70			7 Sa	0002	-0.3	-9	22 Su	0626	1.8	55	7 Sa	0444	2.2	67	22 Su	0513	1.6	49		
	1155	-0.2	-6	22 Th	1342		0.2	6	0558		2.6	79	1347		0.2	6	1219		-0.3	-9	1214	0.3	9
	1639	1.5	46		1723		1.1	34	1333		-0.5	-15	1829		1.5	46	1657		1.8	55	1718	1.4	43
	2305	-0.2	-6		2314		0.3	9	1809		1.9	58									2342	0.2	6
8 Th	0521	2.6	79			8 Su	0108	-0.5	-15	23 M	0049	0.1	3	8 Su	0012	-0.3	-9	23 M	0552	1.7	52		
	1255	-0.4	-12	23 F	0610		1.9	58	0648		2.6	79	0703		1.9	58	0538		2.3	70	1227	0.2	6
	1735	1.6	49		1415		0.2	6	1422		-0.6	-18	1358		0.1	3	1310		-0.4	-12	1801	1.7	52
					1809		1.2	37	1901		2.1	64	1910		1.7	52	1751		2.0	61			
9 F	0003	-0.3	-9			9 M	0210	-0.5	-15	24 Tu	0140	-0.1	-3	9 M	0115	-0.4	-12	24 Tu	0035	0.1	3		
	0614	2.8	85	24 Sa	0651		2.0	61	0736		2.6	79	0739		1.9	58	0627		2.3	70	0630	1.8	55
	1350	-0.5	-15		1438		0.1	3	1507		-0.6	-18	1424		0.0	0	1356		-0.4	-12	1259	0.1	3
	1828	1.8	55		1853		1.4	43	1951		2.2	67	1949		1.8	55	1841		2.2	67	1841	1.9	58
10 Sa	0106	-0.4	-12			10 Tu	0307	-0.5	-15	25 W	0229	-0.2	-6	10 Tu	0212	-0.5	-15	25 W	0127	-0.1	-3		
	0706	2.9	88	25 Su	0730		2.0	61	0823		2.5	76	0816		2.0	61	0713		2.3	70	0707	1.8	55
	1442	-0.6	-18		1453		0.1	3	1551		-0.5	-15	1458		-0.1	-3	1439		-0.4	-12	1337	0.0	0
	1919	1.9	58		1935		1.5	46	2040		2.3	70	2029		1.9	58	1929		2.4	73	1920	2.1	64
11 Su	0208	-0.5	-15			11 W	0402	-0.5	-15	26 Th	0318	-0.2	-6	11 W	0305	-0.5	-15	26 Th	0217	-0.2	-6		
	0756	2.9	88	26 M	0808		2.1	64	0910		2.3	70	0855		1.9	58	0758		2.2	67	0746	1.9	58
	1531	-0.7	-21		1510		0.0	0	1634		-0.4	-12	1534		-0.1	-3	1518		-0.3	-9	1417	-0.1	-3
	2010	2.0	61		2017		1.6	49	2130		2.3	70	2110		2.0	61	2017		2.5	76	2001	2.3	70
12 M	0309	-0.5	-15			12 Th	0459	-0.3	-9	27 F	0408	-0.2	-6	12 Th	0355	-0.4	-12	27 F	0307	-0.3	-9		
	0845	2.8	85	27 Tu	0846		2.0	61	0957		2.0	61	0935		1.8	55	0843		2.0	61	0826	1.9	58
	1620	-0.6	-18		1539		0.0	0	1716		-0.2	-6	1613		0.0	0	1554		-0.2	-6	1458	-0.1	-3
	2102	2.1	64		2058		1.6	49	2220		2.2	67	2154		2.1	64	2104		2.4	73	2044	2.4	73
13 Tu	0408	-0.4	-12			13 F	0601	-0.1	-3	28 Sa	0502	-0.2	-6	13 F	0445	-0.3	-9	28 Sa	0358	-0.4	-12		
	0935	2.6	79	28 W	0924		2.0	61	1044		1.7	52	1019		1.7	52	0929		1.8	55	0910	1.8	55
	1708	-0.5	-15		1614		0.0	0	1800		0.0	0	1655		0.0	0	1623		0.0	0	1540	-0.1	-3
	2155	2.1	64		2140		1.7	52	2311		2.1	64	2241		2.1	64	2152		2.3	70	2130	2.4	73
14 W	0511	-0.3	-9			14 Sa	0713	0.0	0	29 Su	0713	0.0	0	14 Sa	0539	-0.1	-3	29 Su	0453	-0.3	-9		
	1024	2.3	70	29 Th	1003		1.9	58	1132		1.5	46	1015		1.6	49	1015		1.6	49	0957	1.7	52
	1759	-0.4	-12		1651		0.0	0	1847		0.2	6	1645		0.2	6	1645		0.2	6	1626	0.0	0
	2248	2.1	64		2223		1.7	52					2241		2.1	64	2241		2.1	64	2220	2.4	

Woods Hole, Massachusetts, 2009

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 W	0012	2.2	67		16 Th	0048	1.6	49		1 F	0054	2.2	67		16 Sa	0100	1.6	49		1 M	0222	1.7	52		16 Tu	0149	1.5	46	
	0807	-0.2	-6			0911	0.4	12			0847	-0.2	-6			0817	0.5	15			1005	0.0	0			0839	0.4	12	
	1236	1.5	46			1305	1.1	34			1319	1.7	52			1327	1.3	40			1458	2.2	67			1429	1.8	55	
	1935	0.2	6			1543	0.7	21			2055	0.1	3			1605	0.9	27			2307	0.1	3			2141	0.5	15	
2 Th	0112	2.1	64		17 F	0143	1.5	46		2 Sa	0153	2.0	61		17 Su	0148	1.5	46		2 Tu	0319	1.5	46		17 W	0243	1.5	46	
	0910	-0.2	-6			0953	0.5	15			0942	-0.2	-6			0849	0.5	15			1054	0.2	6			0920	0.4	12	
	1335	1.5	46			1401	1.1	34			1420	1.8	55			1419	1.4	43			1555	2.2	67			1524	2.0	61	
	2051	0.1	3			1627	0.8	24			2207	0.1	3			2106	0.6	18			2239	0.4	12			2239	0.4	12	
3 F	0215	2.0	61		18 Sa	0240	1.4	43		3 Su	0252	1.9	58		18 M	0239	1.4	43		3 W	0010	0.1	3		18 Th	0341	1.5	46	
	1008	-0.2	-6			1013	0.5	15			1034	-0.2	-6			0924	0.4	12			0414	1.4	43			1004	0.3	9	
	1437	1.6	49			1459	1.2	37			1520	2.0	61			1512	1.6	49			1141	0.3	9			1620	2.3	70	
	2205	0.0	0			2133	0.6	18			2315	0.0	0			2203	0.5	15			1649	2.3	70			2339	0.2	6	
4 Sa	0319	2.0	61		19 Su	0336	1.4	43		4 M	0351	1.7	52		19 Tu	0332	1.4	43		4 Th	0107	0.1	3		19 F	0438	1.6	49	
	1102	-0.2	-6			1023	0.4	12			1123	-0.1	-3			1001	0.3	9			0505	1.4	43			1051	0.2	6	
	1540	1.7	52			1554	1.4	43			1618	2.1	64			1604	1.8	55			1223	0.4	12			1714	2.6	79	
	2314	-0.1	-3			2228	0.4	12								2259	0.3	9			1739	2.4	73						
5 Su	0420	2.0	61		20 M	0426	1.4	43		5 Tu	0018	-0.1	-3		20 W	0424	1.5	46		5 F	0158	0.1	3		20 Sa	0039	0.0	0	
	1153	-0.3	-9			1051	0.3	9			0445	1.7	52			1041	0.3	9			0553	1.4	43			0531	1.7	52	
	1639	2.0	61			1644	1.6	49			1211	0.0	0			1653	2.1	64			1218	0.4	12			1144	0.1	3	
						2321	0.3	9			1711	2.3	70			2356	0.1	3			1825	2.5	76			1806	2.8	85	
6 M	0019	-0.2	-6		21 Tu	0510	1.5	46		6 W	0115	-0.1	-3		21 Th	0513	1.6	49		6 Sa	0243	0.1	3		21 Su	0137	-0.2	-6	
	0513	2.0	61			1127	0.2	6			0534	1.6	49			0638	1.5	46			0623	1.8	55						
	1241	-0.2	-6			1728	1.9	58			1254	0.1	3			1233	0.5	15			1242	0.0	0						
	1732	2.2	67								1759	2.5	76			1910	2.5	76			1856	3.0	91						
7 Tu	0118	-0.3	-9		22 W	0016	0.1	3		7 Th	0207	-0.1	-3		22 F	0054	0.0	0		7 Su	0323	0.1	3		22 M	0232	-0.3	-9	
	0602	2.0	61			0552	1.6	49			0620	1.6	49			0601	1.7	52			0723	1.5	46			0714	2.0	61	
	1326	-0.2	-6			1208	0.1	3			1330	0.2	6			1213	0.1	3			1312	0.4	12			1344	-0.1	-3	
	1821	2.4	73			1810	2.2	67			1845	2.6	79			1827	2.7	82			1954	2.5	76			1947	3.1	94	
8 W	0212	-0.3	-9		23 Th	0111	-0.1	-3		8 F	0253	-0.1	-3		23 Sa	0151	-0.2	-6		8 M	0359	0.2	6		23 Tu	0323	-0.4	-12	
	0647	1.9	58			0633	1.7	52			0704	1.6	49			0648	1.8	55			0808	1.6	49			0805	2.1	64	
	1407	-0.1	-3			1252	0.1	3			1345	0.3	9			1305	0.0	0			1357	0.4	12			1446	-0.2	-6	
	1907	2.5	76			1852	2.4	73			1930	2.6	79			1915	2.9	88			2039	2.4	73			2039	3.1	94	
9 Th	0300	-0.4	-12		24 F	0204	-0.3	-9		9 Sa	0336	-0.1	-3		24 Su	0245	-0.4	-12		9 Tu	0430	0.2	6		24 W	0414	-0.4	-12	
	0731	1.8	55			0716	1.8	55			0749	1.6	49			0736	1.9	58			0854	1.6	49			0858	2.2	67	
	1440	0.0	0			1338	0.0	0			1359	0.3	9			1400	-0.1	-3			1446	0.5	15			1548	-0.1	-3	
	1953	2.6	79			1936	2.6	79			2015	2.5	76			2004	3.0	91			2124	2.3	70			2131	3.0	91	
10 F	0346	-0.3	-9		25 Sa	0256	-0.4	-12		10 Su	0417	0.0	0		25 M	0339	-0.4	-12		10 W	0458	0.3	9		25 Th	0506	-0.4	-12	
	0816	1.7	52			0800	1.8	55			0833	1.5	46			0826	1.9	58			0941	1.5	46			0952	2.2	67	
	1503	0.1	3			1425	-0.1	-3			1429	0.4	12			1457	-0.1	-3			1535	0.5	15			1652	-0.1	-3	
	2039	2.5	76			2022	2.7	82			2101	2.4	73			2055	3.0	91			2209	2.2	67			2223	2.8	85	
11 Sa	0431	-0.2	-6		26 Su	0349	-0.4	-12		11 M	0457	0.1	3		26 Tu	0433	-0.5	-15		11 Th	0525	0.3	9		26 F	0559	-0.3	-9	
	0901	1.6	49			0847	1.8	55			0920	1.5	46			0917	1.9	58			1029	1.5	46			1047	2.3	70	
	1520	0.2	6			1514	-0.1	-3			1507	0.4	12			1555	-0.1	-3			1628	0.6	18			1804	0.1	3	
	2125	2.4	73			2112	2.7	82			2148	2.2	67			2149	2.9	88			2253	2.0	61			2315	2.5	76	
12 Su	0518	0.0	0		27 M	0445	-0.4	-12		12 Tu	0537	0.2	6		27 W	0528	-0.4	-12		12 F	0558	0.4	12		27 Sa	0653	-0.2	-6	
	0947	1.5	46			0937	1.8	55			1007	1.4	43			1012	1.9	58			1117	1.5	46			1143	2.3	70	
	1545	0.3	9			1607	0.0	0			1550	0.5	15			1658	0.0	0			1726	0.7	21			1922	0.2	6	
	2214	2.2	67			2204	2.7	82			2237	2.1	64			2243	2.7	82			2336	1.9	58						
13 M	0611	0.1	3		28 Tu	0543	-0.4	-12		13 W	0620	0.3	9		28 Th	0625	-0.4	-12		13 Sa	0637	0.4	12		28 Su	0007	2.2	67	
	1034	1.4	43			1029	1.7	52			1056	1.4	43			1107	2.0	61			1203	1.5	46			0749	0.0	0	
	1617	0.4	12			1706	0.0	0			1641	0.6	18			1811	0.1	3			1830	0.7	21			1238	2.3	70	
	2304	2.0	61			2259	2.6	79			2325	1.9	58			2338	2.5	76								2038	0.2	6	
14 Tu	0712	0.3	9		29 W	0646	-0.3	-9		14 Th	0706	0.4	12		29 F	0724	-0.3	-9		14 Su	0018	1.7	52		29 M	0059	1.9	58	
	1123	1.3	40			1124	1.7	52			1146	1.3	40			1204	2.0	61			0718	0.5	15			0844	0.1	3	
	1700	0.6	18			1815	0.1	3			1742	0.7	21			1932	0.2	6			1250	1.6	49			1334	2.2	67	
	2355	1.8	55			2356	2.4	73													1937	0.7	21			2148	0.3	9	
15 W	0815	0.4	12		30 Th	0748	-0.3	-9		15 F	0013	1.7	52		30 Sa	0032	2.2	67		15 M	0101	1.6	49		30 Tu	0152	1.6	49	
	1213	1.2	37			1221	1.7	52			0745	0.4	12			0820	-0.2	-6			0758	0.							

Woods Hole, Massachusetts, 2009

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 W	0246	1.4	43	16 Th	0207	1.5	46	1 Sa	0034	0.4	12	16 Su	0346	1.7	52	1 Tu	0122	0.5	15	16 W	0032	-0.1	-3
	1030	0.4	12		0848	0.5	15		0408	1.3	40		1021	0.2	6		0527	1.6	49		0524	2.3	70
	1530	2.2	67		1450	2.2	67		1210	0.7	21		1632	2.6	79		1138	0.6	18		1234	-0.1	-3
	2356	0.3	9		2224	0.4	12		1701	2.1	64						1806	2.1	64		1758	2.6	79
2 Th	0342	1.3	40	17 F	0307	1.5	46	2 Su	0122	0.5	15	17 M	0005	0.0	0	2 W	0140	0.5	15	17 Th	0119	-0.2	-6
	1121	0.5	15		0937	0.3	9		0501	1.4	43		0446	1.9	58		0612	1.8	55		0616	2.6	79
	1627	2.2	67		1552	2.4	73		1100	0.7	21		1123	0.1	3		1228	0.5	15		1337	-0.2	-6
			2324		0.2	6	1749		2.2	67	1728		2.8	85	1843		2.2	67	1845		2.6	79	
3 F	0054	0.3	9	18 Sa	0409	1.6	49	3 M	0201	0.5	15	18 Tu	0058	-0.1	-3	3 Th	0139	0.4	12	18 F	0204	-0.2	-6
	0436	1.3	40		1030	0.2	6		0550	1.5	46		0542	2.1	64		0654	2.0	61		0705	2.8	85
	1209	0.6	18		1652	2.7	82		1144	0.6	18		1228	-0.1	-3		1319	0.4	12		1435	-0.2	-6
	1719	2.3	70				1831		2.3	70	1820		2.9	88	1920		2.2	67	● 1932		2.5	76	
4 Sa	0144	0.3	9	19 Su	0024	0.1	3	4 Tu	0231	0.4	12	19 W	0148	-0.2	-6	4 F	0158	0.4	12	19 Sa	0246	-0.1	-3
	0526	1.4	43		0507	1.8	55		0635	1.7	52		0635	2.4	73		0734	2.1	64		0753	2.9	88
	1120	0.6	18		1128	0.1	3		1237	0.5	15		1334	-0.2	-6		1408	0.3	9		1530	-0.2	-6
	1807	2.3	70		1747	2.9	88		1911	2.3	70		1909	3.0	91		○ 1957	2.2	67		2018	2.3	70
5 Su	0226	0.3	9	20 M	0120	-0.1	-3	5 W	0250	0.4	12	20 Th	0235	-0.3	-9	5 Sa	0231	0.3	9	20 Su	0326	0.0	0
	0613	1.5	46		0601	2.0	61		0719	1.8	55		0725	2.6	79		0813	2.2	67		0841	2.9	88
	1158	0.6	18		1230	0.0	0		1330	0.4	12		1437	-0.2	-6		1457	0.2	6		1624	-0.1	-3
	1851	2.4	73		1839	3.1	94		○ 1950	2.3	70		● 1956	2.9	88		2035	2.1	64		2104	2.1	64
6 M	0302	0.3	9	21 Tu	0213	-0.3	-9	6 Th	0259	0.4	12	21 F	0320	-0.3	-9	6 Su	0307	0.3	9	21 M	0403	0.2	6
	0658	1.6	49		0654	2.2	67		0802	1.9	58		0816	2.7	82		0853	2.3	70		0931	2.8	85
	1248	0.5	15		1336	-0.1	-3		1421	0.4	12		1536	-0.2	-6		1547	0.2	6		1722	0.0	0
	1934	2.4	73		● 1929	3.1	94		2029	2.3	70		2044	2.7	82		2114	2.0	61		2152	1.9	58
7 Tu	0332	0.3	9	22 W	0302	-0.4	-12	7 F	0319	0.3	9	22 Sa	0404	-0.2	-6	7 M	0345	0.3	9	22 Tu	0437	0.4	12
	0743	1.6	49		0745	2.3	70		0844	2.0	61		0906	2.8	85		0935	2.3	70		1021	2.6	79
	1341	0.5	15		1440	-0.2	-6		1511	0.4	12		1635	-0.1	-3		1640	0.3	9		1826	0.2	6
	2016	2.4	73		2019	3.1	94		2107	2.2	67		2132	2.4	73		2157	1.9	58		2241	1.7	52
8 W	0353	0.3	9	23 Th	0350	-0.4	-12	8 Sa	0350	0.3	9	23 Su	0449	0.0	0	8 Tu	0426	0.4	12	23 W	0509	0.6	18
	0828	1.7	52		0838	2.5	76		0926	2.0	61		0958	2.7	82		1019	2.3	70		1113	2.4	73
	1433	0.5	15		1542	-0.2	-6		1601	0.4	12		1738	0.0	0		1738	0.3	9		1935	0.4	12
	2058	2.3	70		2109	2.9	88		2146	2.1	64		2221	2.1	64		2242	1.8	55		2331	1.5	46
9 Th	0410	0.3	9	24 F	0438	-0.3	-9	9 Su	0426	0.4	12	24 M	0535	0.2	6	9 W	0511	0.5	15	24 Th	0547	0.7	21
	0913	1.7	52		0930	2.5	76		1008	2.0	61		1050	2.6	79		1108	2.3	70		1208	2.1	64
	1523	0.5	15		1645	-0.1	-3		1654	0.5	15		1848	0.2	6		1844	0.4	12		2042	0.4	12
	2139	2.2	67		2159	2.7	82		2226	2.0	61		2310	1.9	58		2331	1.7	52				
10 F	0436	0.3	9	25 Sa	0526	-0.2	-6	10 M	0505	0.4	12	25 Tu	0627	0.4	12	10 Th	0605	0.5	15	25 F	0023	1.4	43
	0959	1.7	52		1024	2.5	76		1051	2.1	64		1143	2.4	73		1201	2.3	70		0308	0.8	24
	1615	0.5	15		1753	0.0	0		1752	0.5	15		2000	0.3	9		1953	0.3	9		0456	0.9	27
	2220	2.1	64		2249	2.4	73		2309	1.8	55								○ 0657		0.8	24	
11 Sa	0510	0.4	12	26 Su	0618	0.0	0	11 Tu	0548	0.5	15	26 W	0000	1.6	49	11 F	0025	1.6	49	26 Sa	0117	1.3	40
	1043	1.8	55		1118	2.5	76		1136	2.1	64		0737	0.6	18		0351	0.6	18		0347	0.9	27
	1709	0.6	18		1907	0.2	6		1857	0.5	15		1237	2.2	67		0507	0.7	21		0540	1.0	30
	2300	2.0	61		2339	2.0	61		2354	1.7	52		2109	0.4	12		○ 0708	0.5	15		0945	0.8	24
12 Su	0548	0.4	12	27 M	0713	0.2	6	12 W	0635	0.6	18	27 Th	0052	1.4	43	12 Sa	1300*	2.3	70	27 Su	1404*	1.8	55
	1127	1.8	55		1212	2.4	73		1225	2.1	64		0856	0.7	21		0122	1.6	49		0215	1.2	37
	1809	0.7	21		2021	0.3	9		2005	0.5	15		1335	2.1	64		0814	0.5	15		0432	1.0	30
	2341	1.8	55								○ 2213		0.5	15	○ 2213		0.5	15	1404		2.3	70	0613
13 M	0630	0.5	15	28 Tu	0030	1.7	52	13 Th	0045	1.6	49	28 F	0146	1.3	40	13 Su	0224	1.6	49	28 M	1042	0.8	24
	1211	1.8	55		0813	0.4	12		0729	0.5	15		0415	0.9	27		0919	0.3	9		1507*	1.7	52
	1915	0.7	21		1307	2.3	70		1321	2.2	67		0602	1.0	30		1509	2.4	73		0315	1.3	40
					○ 2130	0.3	9		○ 2110	0.4	12		1005	0.8	24		2251	0.1	3		1126	0.8	24
14 Tu	0024	1.7	52	29 W	0121	1.5	46	14 F	0141	1.6	49	29 Sa	1437*	1.9	58	14 M	0328	1.8	55	29 Tu	0000	0.6	18
	0714	0.5	15		0914	0.5	15		0825	0.5	15		0243	1.2	37		1023	0.2	6		0412	1.5	46
	1258	1.9	58		1404	2.2	67		1424	2.3	70		0503	0.9	27		1611	2.5	76		1056	0.7	21
	2021	0.6	18		2236	0.4	12		2211	0.3	9		1106	0.8	24		2343	0.0	0		1652	1.8	55
15 W	0112	1.6	49	30 Th	0215	1.3	40	15 Sa	0243	1.6	49	30 Su	1541	1.9	58	15 Tu	0428	2.0	61	30 W	0013	0.6	18
	0800	0.5	15		0447	0.9	27		0923	0.4	12		0005	0.5	15		1128	0.1	3		0502	1.7	52
	1350	2.0	61		0614	1.0	30		1530	2.5	76		0342	1.3	40		1707	2.6	79		1128	0.6	18
	○ 2123	0.5	15		1015	0.6	18		2310	0.2	6		1156	0.7	21						1733	1.9	58
			1504*	2.1	64	31 F	0312	1.3	40	31 M	0049	0.5	15										
			0537	0.9	27		0825	0.5	15		0438	1.4	43										

Newport, Rhode Island, 2009

Times and Heights of High and Low Waters

January				February				March																		
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height													
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm												
1 Th	0342	0.2	6	16 F	0455	-0.1	-3	1 Su	0448	0.1	3	16 M	0030	3.2	98	1 Su	0346	-0.2	-6	16 M	0428	0.2	6			
	1037	3.1	94		1145	3.3	101		1145	2.9	88		0557	0.5	15		1035	3.2	98		1126	2.8	85			
	1614	0.0	0		1709	-0.1	-3		1658	-0.2	-6		1250	2.5	76		1549	-0.3	-9		1622	0.2	6	1622	0.2	6
	2302	3.0	91										1748	0.4	12		2253	3.7	113		2351	3.2	98			
2 F	0424	0.3	9	17 Sa	0016	3.6	110	2 M	0007	3.4	104	17 Tu	0124	2.9	88	2 M	0430	0.0	0	17 Tu	0513	0.5	15			
	1122	3.0	91		0552	0.2	6		0543	0.2	6		0712	0.7	21		1126	3.1	94		1213	2.6	79			
	1651	0.1	3		1237	2.9	88		1238	2.8	85		1344	2.3	70		1632	-0.2	-6		1632	-0.2	-6	1708	0.5	15
	2347	3.1	94		1753	0.1	3		1750	-0.1	-3		1849	0.5	15		2347	3.6	110							
3 Sa	0513	0.3	9	18 Su	0109	3.4	104	3 Tu	0104	3.4	104	18 W	0225	2.7	82	3 Tu	0525	0.2	6	18 W	0042	2.9	88			
	1210	2.9	88		0708	0.4	12		0701	0.4	12		0852	0.8	24		1221	2.9	88		0612	0.8	24			
	1735	0.1	3		1329	2.6	79		1338	2.7	82		1446	2.3	70		1725	-0.1	-3		1305	2.4	73			
					1845	0.3	9		1855	-0.1	-3		2007	0.6	18						1806	0.7	21			
4 Su	0037	3.2	98	19 M	0205	3.1	94	4 W	0208	3.5	107	19 Th	0334	2.7	82	4 W	0046	3.5	107	19 Th	0139	2.7	82			
	0616	0.4	12		0841	0.6	18		0846	0.3	9		0953	0.7	21		0644	0.4	12		0744	0.9	27			
	1303	2.8	85		1426	2.4	73		1444	2.8	85		1552	2.3	70		1322	2.9	88		1403	2.4	73			
	1830	0.0	0		1947	0.4	12		2010	-0.1	-3		2122	0.5	15		1832	0.0	0		1927	0.8	24			
5 M	0131	3.3	101	20 Tu	0306	3.0	91	5 Th	0318	3.6	110	20 F	0436	2.8	85	5 Th	0152	3.5	107	20 F	0244	2.6	79			
	0737	0.4	12		0941	0.6	18		1004	0.1	3		1038	0.5	15		0852	0.4	12		0907	0.8	24			
	1402	2.8	85		1527	2.4	73		1553	3.0	91		1650	2.5	76		1429	2.9	88		1508	2.5	76			
	1933	0.0	0		2049	0.4	12		2122	-0.3	-9		2220	0.4	12		1956	0.1	3		2058	0.7	21			
6 Tu	0232	3.5	107	21 W	0409	3.0	91	6 F	0428	3.8	116	21 Sa	0525	2.9	88	6 F	0304	3.5	107	21 Sa	0349	2.7	82			
	0901	0.2	6		1026	0.5	15		1103	-0.1	-3		1118	0.3	9		1002	0.2	6		0957	0.6	18			
	1505	2.9	88		1627	2.4	73		1657	3.3	101		1737	2.8	85		1538	3.1	94		1610	2.7	82			
	2038	-0.2	-6		2144	0.3	9		2228	-0.5	-15		2310	0.2	6		2120	-0.1	-3		2202	0.6	18			
7 W	0337	3.7	113	22 Th	0505	3.1	94	7 Sa	0530	4.1	125	22 Su	0605	3.1	94	7 Sa	0414	3.7	113	22 Su	0443	2.8	85			
	1008	0.0	0		1106	0.4	12		1155	-0.4	-12		1155	0.1	3		1053	0.0	0		1037	0.4	12			
	1611	3.0	91		1719	2.5	76		1755	3.7	113		1817	3.1	94		1643	3.5	107		1659	3.0	91			
	2139	-0.4	-12		2234	0.2	6		2329	-0.7	-21		2355	0.0	0		2229	-0.3	-9		2251	0.3	9			
8 Th	0443	4.0	122	23 F	0552	3.2	98	8 Su	0625	4.3	131	23 M	0640	3.3	101	8 Su	0515	3.9	119	23 M	0526	3.1	94			
	1107	-0.2	-6		1145	0.3	9		1242	-0.6	-18		1231	-0.1	-3		1136	-0.3	-9		1114	0.2	6			
	1713	3.3	101		1804	2.7	82		1848	4.0	122		1853	3.3	101		1740	3.9	119		1741	3.3	101			
	2237	-0.7	-21		2321	0.1	3								2329		-0.5	-15	2335		0.1	3				
9 F	0543	4.3	131	24 Sa	0632	3.3	101	9 M	0027	-0.8	-24	24 Tu	0038	-0.1	-3	9 M	0609	4.1	125	24 Tu	0605	3.3	101			
	1204	-0.4	-12		1223	0.1	3		0715	4.4	134		0714	3.5	107		1215	-0.4	-12		1149	0.0	0			
	1810	3.6	110		1844	2.9	88		1324	-0.7	-21		1304	-0.2	-6		1830	4.2	128		1819	3.6	110			
	2334	-0.8	-24						1938	4.2	128		1928	3.5	107											
10 Sa	0638	4.5	137	25 Su	0007	0.0	0	10 Tu	0121	-0.9	-27	25 W	0117	-0.3	-9	10 Tu	0022	-0.6	-18	25 W	0016	-0.1	-3			
	1257	-0.6	-18		0708	3.4	104		0803	4.3	131		0749	3.5	107		0657	4.1	125		0642	3.5	107			
	1903	3.8	116		1301	0.0	0		1403	-0.8	-24		1336	-0.3	-9		1251	-0.5	-15		1223	-0.2	-6			
					1921	3.1	94		2026	4.3	131		2003	3.7	113		1918	4.4	134		1855	3.9	119			
11 Su	0032	-0.9	-27	26 M	0051	-0.1	-3	11 W	0211	-0.9	-27	26 Th	0155	-0.3	-9	11 W	0110	-0.7	-21	26 Th	0056	-0.3	-9			
	0730	4.6	140		0742	3.4	104		0851	4.1	125		0826	3.6	110		0743	4.1	125		0720	3.6	110			
	1347	-0.7	-21		1337	-0.2	-6		1439	-0.7	-21		1407	-0.4	-12		1326	-0.6	-18		1257	-0.3	-9			
	1955	4.0	122		1957	3.2	98		2114	4.3	131		2041	3.7	113		2003	4.5	137		1933	4.1	125			
12 M	0128	-0.9	-27	27 Tu	0133	-0.2	-6	12 Th	0256	-0.7	-21	27 F	0231	-0.4	-12	12 Th	0153	-0.7	-21	27 F	0135	-0.4	-12			
	0821	4.5	137		0816	3.5	107		0938	3.9	119		0905	3.5	107		0827	3.9	119		0800	3.7	113			
	1433	-0.7	-21		1409	-0.2	-6		1512	-0.6	-18		1438	-0.4	-12		1359	-0.5	-15		1332	-0.4	-12			
	2047	4.1	125		2033	3.3	101		2202	4.1	125		2121	3.8	116		2048	4.4	134		2014	4.2	128			
13 Tu	0222	-0.8	-24	28 W	0211	-0.2	-6	13 F	0339	-0.5	-15	28 Sa	0307	-0.3	-9	13 F	0233	-0.6	-18	28 Sa	0214	-0.4	-12			
	0912	4.3	131		0852	3.4	104		1025	3.5	107		0948	3.4	104		0911	3.7	113		0843	3.6	110			
	1514	-0.7	-21		1440	-0.3	-9		1546	-0.4	-12		1511	-0.4	-12		1432	-0.4	-12		1408	-0.4	-12			
	2139	4.1	125		2110	3.3	101		2251	3.8	116		2205	3.8	116		2132	4.2	128		2057	4.2	128			
14 W	0314	-0.7	-21	29 Th	0248	-0.2	-6	14 Sa	0421	-0.2	-6	14 Sa	0311	-0.4	-12	14 Sa	0311	-0.4	-12	29 Su	0254	-0.3	-9			
	1003	4.0	122		0930	3.3	101		1113	3.2	98		0955	3.4	104		0955	3.4	104		0929	3.5	107			
	1553	-0.5	-15		1510	-0.3	-9		1621	-0.1	-3		1507	-0.2	-6		1507	-0.2	-6		1447	-0.4	-12			
	2231	4.0	122		2149	3.3	101		2340	3.5	107		2217	3.8	116		2217	3.8	116		2145	4.2	128			
15 Th	0404	-0.4	-12	30 F	0324	-0.1	-3	15 Su	0505	0.2	6	15 Su	0349	-0.1	-3	15 Su	0349	-0.1	-3	30 M	0336	-0.2	-6			
	1054	3.7	113		1011	3.2	98		1200	2.8	85		1040	3.1	94		1040	3.1	94		1019	3.4	104			
	1630	-0.3	-9		1541	-0.2	-6		1701	0.1	3		1543	0.0	0		1543	0.0	0		1528	-0.3	-9			
	2323	3.8	116		2231	3.4	104								2303		3.5	107	2237		4.0	122				
			31 Sa	0403	0.0	0																				
				1056	3.1	94																				
				1616	-0.2	-6																				

Newport, Rhode Island, 2009

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 W	0520	0.3	9		16 Th	0002	3.0	91		1 F	0023	3.9	119		16 Sa	0010	3.0	91		1 M	0204	3.4	104		16 Tu	0108	3.0	91						
	1210	3.2	98			0535	0.7	21			0659	0.3	9			0557	0.7	21			0829	0.3	9			0652	0.5	15						
	1711	0.1	3			1230	2.7	82			1300	3.6	110			1245	2.9	88			1440	4.0	122			1339	3.4	104						
2 Th	0034	3.7	113		17 F	0052	2.8	85		2 Sa	0125	3.7	113		17 Su	0058	2.9	88		2 Tu	0304	3.3	101		17 W	0202	3.0	91		17 Th	0747	0.4	12	
	0656	0.4	12			0645	0.8	24			0820	0.3	9			0658	0.7	21			0911	0.3	9			0911	0.3	9			0747	0.4	12	
	1312	3.1	94			1323	2.7	82			1402	3.7	113			1333	3.0	91			1539	4.0	122			1539	4.0	122			1432	3.6	110	
3 F	1823	0.3	9		18 Sa	1849	1.0	30		3 Su	2019	0.4	12		3 M	1932	1.0	30		3 W	2218	0.4	12		18 Th	2101	0.6	18		18 Th	0842	0.2	6	
	0140	3.6	110			0147	2.7	82			0229	3.5	107			0150	2.8	85			0404	3.2	98			0842	0.2	6						
	0847	0.4	12			0805	0.8	24			0914	0.2	6			0757	0.6	18			0946	0.3	9			1531	3.9	119						
4 Sa	1417	3.2	98		1420	2.7	82		1504	3.8	116		1424	3.2	98		1635	4.1	125		2301	0.4	12		19 F	2159	0.4	12						
	2000	0.3	9		2023	0.9	27		2137	0.3	9		2047	0.8	24		2301	0.4	12		2301	0.4	12			2159	0.4	12						
	0248	3.5	107		0246	2.7	82		0332	3.4	104		0246	2.9	88		0459	3.2	98		0459	3.2	98			0404	3.1	94						
5 Su	0945	0.2	6		0903	0.6	18		0955	0.2	6		0847	0.4	12		1019	0.3	9		1019	0.3	9		20 Sa	0934	0.0	0						
	1523	3.5	107		1517	2.9	88		1604	4.0	122		1517	3.4	104		1726	4.1	125		1726	4.1	125			1631	4.2	128						
	2131	0.2	6		2131	0.7	21		2232	0.2	6		2143	0.6	18		2338	0.3	9		2338	0.3	9			2254	0.2	6						
6 M	0356	3.6	110		0344	2.8	85		0432	3.4	104		0345	3.0	91		0549	3.2	98		0549	3.2	98		20 Sa	1026	-0.2	-6						
	1029	0.0	0		0946	0.4	12		1028	0.1	3		0932	0.2	6		1056	0.3	9		1056	0.3	9			1026	-0.2	-6						
	1626	3.8	116		1610	3.2	98		1659	4.2	128		1611	3.8	116		1813	4.1	125		1813	4.1	125			1729	4.5	137						
7 Th	2235	0.0	0		2221	0.5	15		2317	0.1	3		2231	0.3	9		2348	0.0	0		2348	0.0	0		21 Su	2348	0.0	0						
	0456	3.7	113		0437	3.0	91		0525	3.5	107		0441	3.2	98		0603	0.3	9		0603	0.3	9			0600	3.6	110						
	1106	-0.1	-3		1024	0.2	6		1059	0.1	3		1015	0.0	0		1135	0.3	9		1135	0.3	9			1119	-0.3	-9						
8 W	1721	4.1	125		1657	3.6	110		1748	4.4	134		1703	4.1	125		1856	4.1	125		1856	4.1	125		21 Su	1824	4.7	143						
	2326	-0.2	-6		2305	0.2	6		2356	0.0	0		2318	0.1	3		0013	0.3	9		0013	0.3	9			1824	4.7	143						
	0549	3.8	116		0523	3.3	101		0613	3.5	107		0534	3.4	104		0049	0.3	9		0049	0.3	9			0044	-0.2	-6						
9 Tu	1140	-0.2	-6		1102	0.0	0		1131	0.0	0		1059	-0.2	-6		0716	3.2	98		0716	3.2	98		22 M	1214	-0.5	-15						
	1810	4.4	134		1740	3.9	119		1834	4.4	134		1753	4.4	134		1217	0.2	6		1217	0.2	6			1214	-0.5	-15						
	0012	-0.3	-9		2348	0.0	0		0033	0.0	0		0534	3.4	104		1937	4.0	122		1937	4.0	122			1917	4.9	149						
10 W	0636	3.8	116		0608	3.5	107		0657	3.5	107		0624	3.6	110		0126	0.3	9		0126	0.3	9		22 M	0747	4.0	122						
	1212	-0.3	-9		1139	-0.2	-6		1207	0.0	0		1145	-0.3	-9		0757	3.2	98		0757	3.2	98			0747	4.0	122						
	1856	4.5	137		1823	4.2	128		1916	4.4	134		1842	4.7	143		1301	0.3	9		1301	0.3	9			1310	-0.5	-15						
11 Th	0053	-0.4	-12		0031	-0.2	-6		0108	0.0	0		0057	-0.2	-6		2016	3.9	119		2016	3.9	119		23 Tu	2010	4.9	149						
	0720	3.8	116		0651	3.6	110		0739	3.5	107		0713	3.8	116		0204	0.3	9		0204	0.3	9			0230	-0.4	-12						
	1245	-0.3	-9		1219	-0.3	-9		1245	0.0	0		1233	-0.4	-12		0837	3.2	98		0837	3.2	98			0840	4.2	128						
12 F	1939	4.5	137		1906	4.4	134		1958	4.2	128		1932	4.8	146		1345	0.3	9		1345	0.3	9		24 W	1406	-0.4	-12						
	0131	-0.4	-12		0115	-0.3	-9		0145	0.0	0		0149	-0.3	-9		2055	3.7	113		2055	3.7	113			2103	4.8	146						
	0803	3.7	113		0736	3.7	113		0820	3.4	104		0804	3.8	116		0242	0.3	9		0242	0.3	9			0840	4.2	128						
13 Sa	1320	-0.2	-6		1300	-0.4	-12		1324	0.1	3		1323	-0.5	-15		1429	0.4	12		1429	0.4	12		24 W	2103	4.8	146						
	2022	4.4	134		1951	4.6	140		2038	4.0	122		2024	4.8	146		2133	3.6	110		2133	3.6	110			2157	4.6	140						
	0208	-0.3	-9		0200	-0.4	-12		0222	0.1	3		0240	-0.3	-9		0320	0.3	9		0320	0.3	9			0318	-0.4	-12						
14 Su	0845	3.5	107		0822	3.7	113		0901	3.2	98		0856	3.9	119		1000	3.2	98		1000	3.2	98		25 Th	1030	4.3	131						
	1356	-0.2	-6		1343	-0.4	-12		1405	0.2	6		1415	-0.4	-12		1512	0.5	15		1512	0.5	15			0935	4.2	128						
	2104	4.1	125		2038	4.6	140		2119	3.8	116		2117	4.7	143		2212	3.4	104		2212	3.4	104			1503	-0.3	-9						
15 M	0244	-0.1	-3		0245	-0.3	-9		0300	0.2	6		0331	-0.2	-6		0357	0.4	12		0357	0.4	12		25 Th	2157	4.6	140						
	0927	3.3	101		0912	3.7	113		0943	3.1	94		0951	3.9	119		1042	3.1	94		1042	3.1	94			0935	4.2	128						
	1433	0.0	0		1428	-0.4	-12		1447	0.3	9		1508	-0.2	-6		1555	0.7	21		1555	0.7	21			1503	-0.3	-9						
16 Tu	2146	3.8	116		2130	4.5	137		2200	3.5	107		2213	4.5	137		2252	3.3	101		2252	3.3	101		26 F	2346	3.9	119						
	0321	0.1	3		0332	-0.2	-6		0339	0.4	12		0423	-0.1	-3		0434	0.4	12		0434	0.4	12			0404	-0.3	-9						
	1010	3.1	94		1005	3.6	110		1027	3.0	91		1048	3.9	119		1124	3.2	98		1124	3.2	98			1030	4.3	131						
17 W	1512	0.2	6		1515	-0.3	-9		1530	0.5	15		1604	0.0	0		1640																	

Newport, Rhode Island, 2009

Times and Heights of High and Low Waters

July				August				September																		
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height													
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm												
1 W	0233	3.1	94	16 Th	0129	3.0	91	1 Sa	0404	2.8	85	16 Su	0316	3.2	98	1 Tu	0522	3.2	98	16 W	0508	4.2	128			
	0817	0.5	15		0657	0.3	9		0920	0.7	21		0844	0.2	6		1050	0.6	18		1054	-0.1	-3			
	1511	3.9	119		1358	3.8	116		1643	3.5	107		1550	4.1	125		1749	3.5	107		1736	4.4	134	1736	4.4	134
	2158	0.6	18		2024	0.7	21		2300	0.8	24		2231	0.4	12		2336	0.5	15		2342	-0.1	-3			
2 Th	0333	2.9	88	17 F	0230	3.0	91	2 Su	0501	2.9	88	17 M	0424	3.5	107	2 W	0603	3.4	104	17 Th	0601	4.6	140			
	0903	0.5	15		0800	0.2	6		1012	0.7	21		0953	0.0	0		1135	0.5	15		1149	-0.3	-9			
	1610	3.8	116		1501	3.9	119		1734	3.6	110		1655	4.4	134		1825	3.7	113		1827	4.5	137			
	2243	0.6	18		2137	0.5	15		2334	0.7	21		2322	0.1	3											
3 F	0432	2.9	88	18 Sa	0335	3.1	94	3 M	0549	3.1	94	18 Tu	0525	3.9	119	3 Th	0009	0.3	9	18 F	0020	-0.3	-9			
	0946	0.5	15		0903	0.1	3		1100	0.6	18		1055	-0.2	-6		0639	3.7	113		0651	4.8	146			
	1705	3.8	116		1607	4.2	128		1817	3.7	113		1753	4.6	140		1217	0.4	12		1240	-0.4	-12			
	2321	0.6	18		2239	0.3	9										1858	3.8	116		1914	4.5	137			
4 Sa	0525	3.0	91	19 Su	0441	3.3	101	4 Tu	0008	0.5	15	19 W	0009	-0.1	-3	4 F	0043	0.2	6	19 Sa	0058	-0.4	-12			
	1028	0.5	15		1004	-0.1	-3		0631	3.3	101		0620	4.3	131		0713	3.8	116		0738	5.0	152			
	1754	3.8	116		1710	4.5	137		1147	0.5	15		1155	-0.4	-12		1258	0.3	9		1328	-0.4	-12			
	2355	0.5	15		2335	0.1	3		1854	3.7	113		1845	4.8	146		1932	3.8	116		2000	4.4	134			
5 Su	0612	3.1	94	20 M	0541	3.7	113	5 W	0043	0.4	12	20 Th	0054	-0.3	-9	5 Sa	0115	0.1	3	20 Su	0135	-0.3	-9			
	1113	0.4	12		1103	-0.3	-9		0709	3.4	104		0711	4.6	140		0747	3.9	119		0825	4.9	149			
	1837	3.9	119		1808	4.7	143		1233	0.4	12		1252	-0.5	-15		1336	0.2	6		1413	-0.2	-6			
									1929	3.8	116		1935	4.8	146		2006	3.8	116		2047	4.2	128			
6 M	0031	0.5	15	21 Tu	0029	-0.1	-3	6 Th	0118	0.2	6	21 F	0135	-0.4	-12	6 Su	0147	0.0	0	21 M	0212	-0.2	-6			
	0655	3.2	98		0637	4.0	122		0746	3.6	110		0801	4.8	146		0822	4.0	122		0912	4.7	143			
	1158	0.4	12		1202	-0.4	-12		1316	0.3	9		1346	-0.5	-15		1413	0.2	6		1455	0.0	0			
	1917	3.9	119		1902	4.9	149		2002	3.8	116		2024	4.7	143		2044	3.7	113		2133	3.9	119			
7 Tu	0108	0.4	12	22 W	0120	-0.3	-9	7 F	0152	0.2	6	22 Sa	0214	-0.4	-12	7 M	0218	0.0	0	22 Tu	0249	0.0	0			
	0735	3.3	101		0730	4.3	131		0821	3.6	110		0850	4.9	149		0900	4.0	122		1000	4.4	134			
	1245	0.4	12		1301	-0.5	-15		1357	0.3	9		1436	-0.3	-9		1448	0.2	6		1536	0.2	6			
	1954	3.8	116		1954	4.9	149		2036	3.7	113		2112	4.4	134		2124	3.6	110		2221	3.5	107			
8 W	0145	0.3	9	23 Th	0208	-0.4	-12	8 Sa	0224	0.1	3	23 Su	0252	-0.3	-9	8 Tu	0251	0.1	3	23 W	0327	0.2	6			
	0813	3.3	101		0822	4.5	137		0856	3.7	113		0940	4.7	143		0942	4.0	122		1049	4.0	122			
	1330	0.4	12		1358	-0.5	-15		1435	0.3	9		1523	-0.1	-3		1525	0.3	9		1618	0.5	15			
	2030	3.7	113		2045	4.8	146		2112	3.7	113		2201	4.1	125		2209	3.5	107		2311	3.2	98			
9 Th	0221	0.2	6	24 F	0251	-0.5	-15	9 Su	0254	0.1	3	24 M	0328	-0.2	-6	9 W	0326	0.1	3	24 Th	0407	0.5	15			
	0852	3.4	104		0914	4.6	140		0933	3.7	113		1030	4.5	137		1028	4.0	122		1141	3.7	113			
	1414	0.4	12		1453	-0.4	-12		1511	0.4	12		1608	0.2	6		1607	0.5	15		1706	0.8	24			
	2106	3.6	110		2136	4.5	137		2151	3.5	107		2251	3.7	113		2259	3.3	101							
10 F	0256	0.2	6	25 Sa	0331	-0.4	-12	10 M	0325	0.1	3	25 Tu	0405	0.1	3	10 Th	0406	0.2	6	25 F	0002	3.0	91			
	0930	3.4	104		1007	4.6	140		1012	3.7	113		1121	4.2	128		1120	3.9	119		0453	0.7	21			
	1454	0.5	15		1546	-0.1	-3		1548	0.5	15		1655	0.5	15		1657	0.7	21		1235	3.4	104			
	2142	3.5	107		2228	4.2	128		2233	3.4	104		2342	3.4	104		2353	3.2	98		1810	1.1	34			
11 Sa	0328	0.2	6	26 Su	0410	-0.2	-6	11 Tu	0357	0.2	6	26 W	0445	0.4	12	11 F	0455	0.3	9	26 Sa	0056	2.8	85			
	1008	3.4	104		1059	4.5	137		1055	3.7	113		1214	3.9	119		1217	3.9	119		0550	1.0	30			
	1534	0.5	15		1639	0.1	3		1628	0.6	18		1751	0.8	24		1806	0.8	24		1333	3.2	98			
	2221	3.4	104		2320	3.9	119		2320	3.3	101								2003		1.1	34				
12 Su	0400	0.3	9	27 M	0449	0.0	0	12 W	0435	0.2	6	27 Th	0034	3.1	94	12 Sa	0052	3.1	94	27 Su	0155	2.8	85			
	1048	3.4	104		1152	4.3	131		1142	3.8	116		0531	0.6	18		0556	0.4	12		0711	1.1	34			
	1614	0.6	18		1737	0.4	12		1718	0.7	21		1309	3.6	110		1319	3.9	119		1435	3.1	94			
	2302	3.3	101								1927		1.0	30	2012		0.8	24	2108		1.0	30				
13 M	0434	0.3	9	28 Tu	0012	3.5	107	13 Th	0010	3.1	94	28 F	0129	2.8	85	13 Su	0156	3.2	98	28 M	0257	2.8	85			
	1129	3.5	107		0531	0.3	9		0521	0.3	9		0630	0.9	27		0714	0.4	12		0846	1.0	30			
	1658	0.7	21		1246	4.0	122		1235	3.8	116		1409	3.4	104		1427	3.9	119		1535	3.1	94			
	2346	3.2	98		1854	0.7	21		1824	0.8	24		2102	1.1	34		2130	0.6	18		2148	0.9	27			
14 Tu	0513	0.3	9	29 W	0105	3.2	98	14 F	0106	3.1	94	29 Sa	0229	2.7	82	14 M	0303	3.4	104	29 Tu	0356	3.0	91			
	1213	3.5	107		0620	0.5	15		0620	0.3	9		0746	1.0	30		0840	0.3	9		0948	0.9	27			
	1751	0.8	24		1341	3.8	116		1334	3.8	116		1514	3.3	101		1536	4.0	122		1627	3.2	98			
					2029	0.8	24		2003	0.8	24		2152	1.0	30		2220	0.3	9		2222	0.7	21			
15 W	0035	3.1	94	30 Th	0201	2.9	88	15 Sa	0209	3.1	94	30 Su	0333	2.8	85	15 Tu	0409	3.7	113	30 W	0445	3.3	101			
	0600	0.3	9		0719	0.7	21		0730	0.3	9		0903	0.9	27		0953	0.1	3		1034	0.7	21			
	1302	3.6	110		1441	3.6	110		1441	3.9	119		1616	3.3	101		1640	4.2	128		1710	3.3	101			
	1901	0.8	24		2134	0.9	27		2131	0.6	18		2230	0.9	27		2302	0.1	3		2255	0.4	12			
			31 F	0302	2.8	85				31 M	0433	2.9	88													
				0823	0.8	24																				

Newport, Rhode Island, 2009

Times and Heights of High and Low Waters

October				November				December																														
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height																									
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm																								
1 Th	0527	3.5	107		16 F	0542	4.6	140		1 Su	0604	4.1	125		16 M	0656	4.5	137		1 Tu	0620	4.3	131		16 W	0004	-0.1	-3		17 Th	0047	-0.1	-3					
	1115	0.5	15			1141	-0.2	-6			1209	0.0	0			1249	-0.1	-3			1232	-0.2	-6			0722	3.9	119			0803	3.8	116					
	1748	3.5	107			1806	4.1	125			1829	3.6	110			1916	3.6	110			1848	3.5	107			1312	0.0	0			1348	0.0	0		2020	3.1	94	
	2329	0.3	9			2346	-0.2	-6			2358	-0.2	-6			●					●					1939	3.2	98										
2 F	0603	3.8	116		17 Sa	0630	4.8	146		2 M	0645	4.3	131		17 Tu	0027	-0.1	-3		2 W	0010	-0.5	-15		17 Th	0047	-0.1	-3										
	1155	0.3	9			1226	-0.2	-6			1250	-0.1	-3			0739	4.3	131			0708	4.5	137			0832	3.8	116										
	1824	3.7	113			1853	4.1	125			1911	3.7	113			1327	0.0	0			1321	-0.3	-9			1348	0.0	0										
3 Sa	0002	0.1	3		18 Su	0021	-0.3	-9		3 Tu	0037	-0.3	-9		18 W	0107	-0.1	-3		3 Th	0058	-0.6	-18		18 F	0130	-0.1	-3										
	0639	4.0	122			0716	4.8	146			0727	4.4	134			0822	4.1	125			0757	4.5	137			0843	3.6	110										
	1234	0.2	6			1308	-0.2	-6			1333	-0.1	-3			1405	0.1	3			1410	-0.3	-9			1424	0.0	0										
	1900	3.8	116			●	1937	4.0	122			1955	3.7	113			2042	3.3	101			2027	3.7	113			2101	3.1	94									
4 Su	0036	0.0	0		19 M	0058	-0.2	-6		4 W	0118	-0.3	-9		19 Th	0148	0.0	0		4 F	0148	-0.6	-18		19 Sa	0213	0.0	0										
	0714	4.2	128			0800	4.7	143			0813	4.5	137			0906	3.9	119			0849	4.5	137			0922	3.4	104										
	1313	0.1	3			1348	-0.1	-3			1418	-0.1	-3			1444	0.2	6			1459	-0.3	-9			1501	0.1	3										
	1937	3.8	116			2022	3.8	116			2043	3.6	110			2126	3.2	98			2120	3.7	113			2142	3.0	91										
5 M	0110	-0.1	-3		20 Tu	0136	-0.1	-3		5 Th	0201	-0.3	-9		20 F	0230	0.1	3		5 Sa	0239	-0.5	-15		20 Su	0256	0.1	3										
	0752	4.3	131			0845	4.5	137			0902	4.4	134			0949	3.6	110			0943	4.4	134			1001	3.2	98										
	1351	0.1	3			1428	0.1	3			1503	0.0	0			1523	0.3	9			1548	-0.2	-6			1538	0.1	3										
	2018	3.8	116			2106	3.6	110			2134	3.6	110			2211	3.0	91			2216	3.7	113			2223	3.0	91										
6 Tu	0145	-0.1	-3		21 W	0215	0.0	0		6 F	0247	-0.2	-6		21 Sa	0314	0.3	9		6 Su	0333	-0.3	-9		21 M	0339	0.3	9										
	0833	4.3	131			0931	4.2	128			0955	4.3	131			1034	3.3	101			1039	4.1	125			1041	3.0	91										
	1430	0.1	3			1507	0.3	9			1552	0.2	6			1604	0.5	15			1639	-0.1	-3			1615	0.2	6										
	2102	3.6	110			2152	3.3	101			2230	3.5	107			2257	2.9	88			2313	3.7	113			2305	2.9	88										
7 W	0222	-0.1	-3		22 Th	0255	0.2	6		7 Sa	0337	-0.1	-3		22 Su	0359	0.5	15		7 M	0431	-0.1	-3		22 Tu	0423	0.4	12										
	0918	4.3	131			1018	3.8	116			1053	4.1	125			1119	3.1	94			1136	3.9	119			1121	2.9	88										
	1510	0.2	6			1547	0.5	15			1649	0.3	9			1649	0.6	18			1736	0.0	0			1654	0.3	9										
	2150	3.5	107			2240	3.1	94			2328	3.5	107			2345	2.8	85								2346	2.9	88										
8 Th	0302	0.0	0		23 F	0337	0.4	12		8 Su	0434	0.2	6		23 M	0450	0.7	21		8 Tu	0010	3.7	113		23 W	0511	0.6	18										
	1009	4.2	128			1107	3.5	107			1152	3.9	119			1204	2.9	88			0541	0.1	3			1203	2.7	82										
	1555	0.4	12			1632	0.7	21			1805	0.4	12			1740	0.6	18			1845	0.1	3			1737	0.3	9										
	2243	3.4	104			2330	2.9	88																														
9 F	0347	0.1	3		24 Sa	0423	0.7	21		9 M	0028	3.5	107		24 Tu	0032	2.8	85		9 W	0109	3.8	116		24 Th	0030	2.9	88										
	1104	4.1	125			1158	3.2	98			0543	0.4	12			0551	0.9	27			0719	0.3	9			0609	0.7	21										
	1649	0.6	18			1725	0.9	27			1253	3.8	116			1250	2.8	85			1332	3.4	104			1249	2.7	82										
	2340	3.3	101			●	1941	0.4	12			●	1941	0.4		12		●	1840		0.7	21		1955		0.1	3		1828	0.3	9							
10 Sa	0440	0.3	9		25 Su	0022	2.8	85		10 Tu	0129	3.6	110		25 W	0120	2.9	88		10 Th	0208	3.8	116		25 F	0116	3.0	91										
	1204	3.9	119			0518	0.9	27			0722	0.4	12			0712	0.9	27			0851	0.3	9			0723	0.7	21										
	1806	0.7	21			1250	3.0	91			1355	3.6	110			1339	2.7	82			1432	3.2	98			1340	2.6	79										
						●	1837	1.0	30			2043	0.3	9			1941	0.6	18			2048	0.1	3			1925	0.3	9									
11 Su	0041	3.3	101		26 M	0116	2.8	85		11 W	0231	3.8	116		26 Th	0209	3.0	91		11 F	0308	3.8	116		26 Sa	0208	3.1	94										
	0545	0.5	15			0633	1.1	34			0859	0.3	9			0832	0.8	24			0952	0.2	6			0839	0.5	15										
	1307	3.9	119			1344	2.9	88			1458	3.6	110			1431	2.8	85			1533	3.1	94			1437	2.6	79										
	●	2012	0.7	21		1959	0.9	27			2128	0.1	3			2034	0.4	12			2131	0.1	3			2023	0.2	6										
12 M	0144	3.4	104		27 Tu	0211	2.9	88		12 Th	0332	4.0	122		27 F	0300	3.2	98		12 Sa	0408	3.9	119		27 Su	0306	3.3	101										
	0713	0.5	15			0811	1.0	30			1000	0.2	6			0928	0.6	18			1041	0.1	3			0941	0.3	9										
	1413	3.8	116			1439	2.9	88			1558	3.6	110			1526	2.8	85			1632	3.1	94			1539	2.7	82										
	2114	0.5	15			2053	0.8	24			2205	0.0	0			2118	0.3	9			2208	0.0	0			2116	0.0	0										
13 Tu	0249	3.6	110		28 W	0306	3.0	91		13 F	0429	4.2	128		28 Sa	0352	3.4	104		13 Su	0503	4.0	122		28 M	0407	3.5	107										
	0849	0.4	12			0919	0.9	27			1049	0.0	0			1015	0.4	12			1124	0.1	3			1035	0.1	3										
	1519	3.9	119			1532	3.0	91			1655	3.6	110			1620	3.0	91			1725	3.1	94			1640	2.9	88										
	2159	0.2	6			2133	0.6	18			2239	-0.1	-3			2200	0.0	0			2245	0.0	0			2208	-0.3	-9										
14 W	0352	4.0	122		29 Th	0357	3.3	101		14 Sa	0522	4.4	134		29 Su	0443	3.7	113		14 M	0553	4.0	122	</														

Montauk, Fort Pond Bay, New York, 2009

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 W	0039	2.6	79	16 Th	0134	2.1	64	1 F	0130	2.5	76	16 Sa	0152	2.0	61	1 M	0314	2.0	61	16 Tu	0243	1.8	55
	0759	0.0	0		0830	0.5	15		0837	0.0	0		0834	0.5	15		0956	0.1	3		0912	0.4	12
	1312	1.8	55		1408	1.7	52		1408	2.1	64		1436	1.9	58		1558	2.6	79		1531	2.3	70
	1951	0.4	12		2037	0.8	24		2053	0.4	12		2100	0.8	24		2250	0.3	9		2211	0.5	15
2 Th	0143	2.4	73	17 F	0236	2.0	61	2 Sa	0236	2.3	70	17 Su	0246	1.9	58	2 Tu	0417	1.9	58	17 W	0337	1.8	55
	0900	0.1	3		0920	0.6	18		0933	0.1	3		0917	0.5	15		1047	0.2	6		0955	0.4	12
	1418	1.8	55		1513	1.7	52		1515	2.2	67		1532	2.0	61		1654	2.7	82		1618	2.5	76
	2101	0.3	9		2136	0.8	24		2200	0.3	9		2154	0.7	21		2349	0.3	9		2303	0.4	12
3 F	0255	2.3	70	18 Sa	0338	1.9	58	3 Su	0343	2.2	67	18 M	0340	1.9	58	3 W	0514	1.8	55	18 Th	0431	1.8	55
	0959	0.0	0		1007	0.5	15		1027	0.1	3		0959	0.5	15		1138	0.3	9		1041	0.4	12
	1528	1.9	58		1614	1.8	55		1620	2.4	73		1621	2.2	67		1744	2.7	82		1704	2.7	82
	2208	0.3	9		2231	0.7	21		2304	0.3	9		2245	0.6	18		1829	2.8	85		2356	0.2	6
4 Sa	0407	2.3	70	19 Su	0434	1.9	58	4 M	0446	2.1	64	19 Tu	0431	1.9	58	4 Th	0043	0.2	6	19 F	0522	1.8	55
	1054	0.0	0		1050	0.5	15		1118	0.1	3		1041	0.4	12		0605	1.8	55		1130	0.3	9
	1635	2.1	64		1705	2.0	61		1716	2.6	79		1704	2.4	73		1226	0.4	12		1750	2.9	88
	2313	0.1	3		2321	0.6	18		0004	0.2	6		2335	0.4	12		1829	2.8	85		1829	2.8	85
5 Su	0509	2.3	70	20 M	0522	1.9	58	5 Tu	0540	2.0	61	20 W	0517	1.9	58	5 F	0131	0.2	6	20 Sa	0048	0.0	0
	1147	0.0	0		1131	0.4	12		1206	0.1	3		1123	0.4	12		0651	1.8	55		0611	1.9	58
	1733	2.3	70		1747	2.2	67		1804	2.8	85		1744	2.6	79		1313	0.4	12		1223	0.2	6
	0013	0.0	0		0009	0.4	12		0058	0.1	3		0024	0.2	6		1912	2.8	85		1838	3.1	94
6 M	0603	2.3	70	21 Tu	0603	2.0	61	6 W	0628	2.0	61	21 Th	0601	1.9	58	6 Sa	0735	1.8	55	21 Su	0701	2.0	61
	1236	-0.1	-3		1211	0.3	9		1253	0.2	6		1207	0.3	9		1356	0.5	15		1318	0.0	0
	1823	2.6	79		1825	2.4	73		1849	2.9	88		1823	2.8	85		1956	2.8	85		1928	3.2	98
	0109	-0.1	-3		0054	0.2	6		0147	0.0	0		0112	0.0	0		0255	0.1	3		0229	-0.3	-9
7 Tu	0650	2.3	70	22 W	0641	2.1	64	7 Th	0713	2.0	61	22 F	0644	2.0	61	7 Su	0820	1.9	58	22 M	0752	2.2	67
	1322	-0.1	-3		1251	0.2	6		1337	0.2	6		1254	0.2	6		1438	0.5	15		1413	-0.1	-3
	1910	2.8	85		1901	2.7	82		1932	2.9	88		1904	3.0	91		2040	2.7	82		2020	3.3	101
	0200	-0.2	-6		0139	0.0	0		0231	0.0	0		0201	-0.2	-6		0334	0.1	3		0319	-0.4	-12
8 W	0736	2.2	67	23 Th	0720	2.1	64	8 F	0757	2.0	61	23 Sa	0728	2.1	64	8 M	0907	1.9	58	23 Tu	0846	2.3	70
	1405	-0.1	-3		1331	0.1	3		1420	0.3	9		1341	0.1	3		1519	0.5	15		1508	-0.1	-3
	1954	2.9	88		1937	2.8	85		2015	2.9	88		1948	3.2	98		2125	2.7	82		2113	3.3	101
	0247	-0.3	-9		0224	-0.2	-6		0314	0.0	0		0249	-0.3	-9		0413	0.2	6		0409	-0.4	-12
9 Th	0820	2.2	67	24 F	0800	2.2	67	9 Sa	0842	2.0	61	24 Su	0815	2.1	64	9 Tu	0955	1.9	58	24 W	0941	2.4	73
	1447	0.0	0		1413	0.1	3		1500	0.4	12		1430	0.0	0		1600	0.6	18		1605	-0.1	-3
	2039	2.9	88		2016	3.0	91		2100	2.9	88		2037	3.3	101		2212	2.6	79		2207	3.1	94
	0332	-0.3	-9		0309	-0.3	-9		0355	0.0	0		0338	-0.4	-12		0454	0.2	6		0459	-0.4	-12
10 F	0905	2.1	64	25 Sa	0843	2.2	67	10 Su	0928	2.0	61	25 M	0906	2.2	67	10 W	1043	1.9	58	25 Th	1038	2.5	76
	1527	0.1	3		1455	0.0	0		1541	0.5	15		1521	0.0	0		1645	0.6	18		1705	0.0	0
	2124	2.9	88		2059	3.1	94		2146	2.8	85		2128	3.2	98		2257	2.5	76		2301	2.9	88
	0416	-0.2	-6		0357	-0.3	-9		0437	0.1	3		0429	-0.4	-12		0536	0.3	9		0551	-0.3	-9
11 Sa	0951	2.0	61	26 Su	0928	2.2	67	11 M	1015	1.9	58	26 Tu	0959	2.2	67	11 Th	1132	2.0	61	26 F	1134	2.6	79
	1608	0.2	6		1540	0.1	3		1622	0.6	18		1616	0.0	0		1735	0.7	21		1809	0.1	3
	2209	2.8	85		2145	3.1	94		2233	2.6	79		2223	3.2	98		2342	2.4	73		2354	2.7	82
	0501	0.0	0		0447	-0.3	-9		0521	0.2	6		0522	-0.3	-9		0620	0.3	9		0644	-0.2	-6
12 Su	1038	2.0	61	27 M	1017	2.1	64	12 Tu	1104	1.9	58	27 W	1055	2.3	70	12 F	1220	2.0	61	27 Sa	1231	2.6	79
	1650	0.4	12		1630	0.1	3		1708	0.7	21		1716	0.1	3		1830	0.8	24		1916	0.2	6
	2257	2.6	79		2236	3.0	91		2321	2.5	76		2318	3.0	91		0025	2.2	67		0048	2.4	73
	0549	0.1	3		0541	-0.2	-6		0609	0.3	9		0617	-0.2	-6		0704	0.4	12		0738	0.0	0
13 M	1125	1.9	58	28 Tu	1109	2.1	64	13 W	1154	1.9	58	28 Th	1152	2.3	70	13 Sa	1307	2.0	61	28 Su	1329	2.6	79
	1737	0.6	18		1726	0.2	6		1801	0.8	24		1822	0.2	6		1927	0.8	24		2022	0.3	9
	2346	2.4	73		2330	2.9	88		0010	2.3	70		0014	2.8	85		0108	2.1	64		0143	2.1	64
	0641	0.3	9		0639	-0.1	-3		0658	0.4	12		0714	-0.1	-3		0747	0.4	12		0832	0.1	3
14 Tu	1215	1.8	55	29 W	1204	2.1	64	14 Th	1245	1.8	55	29 F	1251	2.4	73	14 Su	1355	2.1	64	29 M	1428	2.6	79
	1831	0.7	21		1832	0.3	9		1901	0.8	24		1932	0.3	9		2024	0.7	21		2127	0.3	9
	0038	2.2	67		0028	2.7	82		0100	2.2	67		0111	2.5	76		0153	1.9	58		0243	1.8	55
	0735	0.5	15		0739	0.0	0		0747	0.5	15		0810	0.0	0		0830	0.4	12		0926	0.3	9
15 W	1308	1.7	52	30 Th	1303	2.1	64	15 F	1340	1.9	58	30 Sa	1352	2.4	73	15 M	1443	2.2	67	30 Tu	1530	2.6	79
	1934	0.8	24		1943	0.4	12		2002	0.9	27		2041	0.3	9		2118	0.7	21		2230	0.4	12
	0038	2.2	67		0028	2.7	82		0100	2.2	67		0111	2.5	76		0153	1.9	58		0243	1.8	55
	0735	0.5	15		0739	0.0	0		0747	0.5	15		0810	0.0	0		0830	0.4	12		0926	0.3	9
16 Th	1308	1.7	52	31 Th	1303	2.1	64	16 F	1340	1.9	58	31 Su	1455	2.5	76	16 M</							

Montauk, Fort Pond Bay, New York, 2009

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 W	0346	1.7	52		16 Th	0249	1.7	52		1 Sa	0001	0.5	15		16 Su	0429	1.9	58		1 Tu	0052	0.6	18		16 W	0031	0.0	0	
	1019	0.4	12			0917	0.5	15			0521	1.6	49			1052	0.4	12			0634	2.0	61			0609	2.6	79	
	1629	2.6	79			1533	2.5	76			1143	0.7	21			1709	2.9	88			1254	0.7	21			1245	0.0	0	
	2330	0.4	12			2336	0.3	9			1754	2.4	73								1857	2.5	76			1839	2.9	88	
2 Th	0448	1.6	49		17 F	0350	1.7	52		2 Su	0049	0.5	15		17 M	0004	0.1	3		2 W	0126	0.5	15		17 Th	0118	-0.1	-3	
	1112	0.5	15			1009	0.4	12			0611	1.7	52			0529	2.1	64			0715	2.2	67			0659	2.9	88	
	1723	2.6	79			1630	2.7	82			1233	0.7	21			1153	0.2	6			1335	0.5	15			1341	-0.1	-3	
						2331	0.2	6			1839	2.5	76			1805	3.0	91			1934	2.5	76			1926	2.9	88	
3 F	0025	0.4	12		18 Sa	0450	1.8	55		3 M	0129	0.5	15		18 Tu	0056	0.0	0		3 Th	0159	0.4	12		18 F	0204	-0.1	-3	
	0542	1.6	49			1105	0.3	9			0656	1.8	55			0623	2.3	70			0755	2.4	73			0748	3.1	94	
	1203	0.6	18			1726	2.9	88			1317	0.6	18			1253	0.0	0			1415	0.4	12			1433	-0.2	-6	
	1811	2.6	79								1921	2.5	76			1856	3.1	94			2011	2.5	76			2013	2.8	85	
4 Sa	0113	0.3	9		19 Su	0025	0.0	0		4 Tu	0204	0.4	12		19 W	0145	-0.2	-6		4 F	0233	0.3	9		19 Sa	0248	-0.1	-3	
	0630	1.7	52			0546	1.9	58			0739	2.0	61			0716	2.6	79			0834	2.5	76			0836	3.3	101	
	1252	0.6	18			1204	0.2	6			1358	0.5	15			1350	-0.1	-3			1455	0.4	12			1524	-0.2	-6	
	1856	2.6	79			1820	3.1	94			2001	2.6	79			1946	3.1	94			2048	2.5	76			2100	2.7	82	
5 Su	0155	0.3	9		20 M	0118	-0.1	-3		5 W	0238	0.3	9		20 Th	0231	-0.3	-9		5 Sa	0307	0.2	6		20 Su	0331	0.0	0	
	0715	1.7	52			0640	2.1	64			0822	2.1	64			0808	2.8	85			0912	2.6	79			0925	3.3	101	
	1337	0.6	18			1303	0.0	0			1432	0.5	15			1445	-0.2	-6			1535	0.3	9			1614	-0.1	-3	
	1939	2.6	79			1912	3.2	98			2041	2.6	79			2035	3.0	91			2125	2.4	73			2149	2.5	76	
6 M	0233	0.3	9		21 Tu	0208	-0.3	-9		6 Th	0312	0.2	6		21 F	0317	-0.3	-9		6 Su	0342	0.3	9		21 M	0416	0.1	3	
	0800	1.8	55			0733	2.3	70			0906	2.2	67			0900	3.0	91			0950	2.7	82			1014	3.2	98	
	1418	0.5	15			1400	-0.1	-3			1518	0.4	12			1539	-0.2	-6			1618	0.3	9			1706	0.1	3	
	2022	2.6	79			2004	3.3	101			2120	2.5	76			2125	2.9	88			2203	2.4	73			2238	2.3	70	
7 Tu	0309	0.2	6		22 W	0257	-0.4	-12		7 F	0346	0.2	6		22 Sa	0402	-0.2	-6		7 M	0418	0.3	9		22 Tu	0502	0.3	9	
	0846	1.9	58			0827	2.5	76			0948	2.3	70			0952	3.1	94			1026	2.7	82			1105	3.0	91	
	1459	0.5	15			1457	-0.2	-6			1600	0.4	12			1633	-0.1	-3			1705	0.3	9			1800	0.3	9	
	2105	2.6	79			2056	3.2	98			2159	2.5	76			2214	2.7	82			2242	2.3	70			2327	2.1	64	
8 W	0345	0.2	6		23 Th	0344	-0.4	-12		8 Sa	0421	0.2	6		23 Su	0448	-0.1	-3		8 Tu	0456	0.4	12		23 W	0554	0.6	18	
	0932	2.0	61			0922	2.7	82			1029	2.4	73			1043	3.1	94			1104	2.7	82			1156	2.8	85	
	1540	0.5	15			1553	-0.2	-6			1644	0.4	12			1729	0.0	0			1756	0.4	12			1858	0.5	15	
	2148	2.6	79			2148	3.0	91			2237	2.4	73			2304	2.4	73			2323	2.1	64						
9 Th	0422	0.2	6		24 F	0432	-0.4	-12		9 Su	0458	0.3	9		24 M	0536	0.1	3		9 W	0538	0.5	15		24 Th	0019	2.0	61	
	1019	2.1	64			1017	2.8	85			1108	2.4	73			1135	3.0	91			1144	2.7	82			0652	0.8	24	
	1623	0.5	15			1651	-0.1	-3			1731	0.5	15			1828	0.2	6			1853	0.4	12			1251	2.6	79	
	2230	2.5	76			2239	2.8	85			2315	2.2	67			2354	2.2	67								1959	0.6	18	
10 F	0500	0.2	6		25 Sa	0521	-0.3	-9		10 M	0536	0.4	12		25 Tu	0629	0.3	9		10 Th	0007	2.0	61		25 F	0115	1.8	55	
	1104	2.1	64			1111	2.9	88			1146	2.4	73			1228	2.8	85			0629	0.6	18			0756	0.9	27	
	1709	0.6	18			1751	0.0	0			1823	0.5	15			1930	0.4	12			1232	2.7	82			1352	2.4	73	
	2311	2.4	73			2330	2.6	79			2352	2.1	64								1954	0.5	15			2100	0.7	21	
11 Sa	0539	0.2	6		26 Su	0611	-0.1	-3		11 Tu	0617	0.5	15		26 W	0046	2.0	61		11 F	0058	1.9	58		26 Sa	0219	1.8	55	
	1147	2.2	67			1205	2.9	88			1223	2.5	76			0726	0.6	18			0731	0.7	21			0900	0.9	27	
	1800	0.6	18			1854	0.2	6			1919	0.5	15			1324	2.6	79			1330	2.7	82			1459	2.3	70	
	2350	2.2	67												2033	0.5	15			2054	0.4	12			2156	0.8	24		
12 Su	0620	0.3	9		27 M	0021	2.3	70		12 W	0032	2.0	61		27 Th	0143	1.8	55		12 Sa	0159	1.9	58		27 Su	0328	1.8	55	
	1229	2.2	67			0704	0.1	3			0702	0.5	15			0827	0.7	21			0837	0.7	21			1000	0.9	27	
	1854	0.6	18			1300	2.8	85			1305	2.5	76			1425	2.5	76			1439	2.7	82			1605	2.2	67	
						1959	0.3	9			2017	0.5	15			2135	0.6	18			2153	0.4	12			2246	0.7	21	
13 M	0028	2.1	64		28 Tu	0114	2.0	61		13 Th	0119	1.9	58		28 F	0246	1.7	52		13 Su	0308	1.9	58		28 M	0433	1.9	58	
	0701	0.4	12			0800	0.																						

New London, Connecticut, 2009

Times and Heights of High and Low Waters

July				August				September																					
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height																
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm															
1 W	0426	2.2	67		16 Th	0321	2.2	67		1 Sa	0012	0.5	15		16 Su	0501	2.3	70		1 Tu	0109	0.5	15		16 W	0052	0.0	0	
	1042	0.5	15			0939	0.6	18			0556	2.2	67			1117	0.4	12			0701	2.5	76			0638	3.0	91	
	1657	3.1	94			1558	3.1	94			1208	0.8	24			1735	3.4	104			1319	0.6	18			1309	0.0	0	
	2343	0.4	12			2251	0.4	12			1817	3.0	91								1920	2.9	88			1906	3.3	101	
2 Th	0526	2.2	67		17 F	0423	2.2	67		2 Su	0101	0.5	15		17 M	0022	0.1	3		2 W	0147	0.4	12		17 Th	0141	-0.1	-3	
	1136	0.6	18			1033	0.5	15			0643	2.3	70			0559	2.5	76			0741	2.7	82			0727	3.3	101	
	1749	3.1	94			1655	3.3	101			1259	0.7	21			1219	0.3	9			1401	0.5	15			1404	-0.1	-3	
				2348		0.2	6		1903		3.0	91		1830		3.5	107		1958		2.9	88		1953		3.3	101		
3 F	0038	0.4	12		18 Sa	0522	2.3	70		3 M	0144	0.4	12		18 Tu	0116	0.0	0		3 Th	0222	0.4	12		18 F	0228	-0.2	-6	
	0619	2.2	67			1131	0.4	12			0726	2.4	73			0653	2.8	85			0820	2.8	85			0815	3.5	107	
	1230	0.7	21			1750	3.4	104			1345	0.7	21			1319	0.1	3			1440	0.5	15			1456	-0.2	-6	
	1836	3.1	94								1945	3.0	91			1922	3.6	110			2035	2.9	88			2040	3.2	98	
4 Sa	0128	0.3	9		19 Su	0044	0.1	3		4 Tu	0223	0.4	12		19 W	0206	-0.2	-6		4 F	0257	0.3	9		19 Sa	0313	-0.1	-3	
	0705	2.2	67			0617	2.4	73			0808	2.5	76			0744	3.0	91			0858	2.9	88			0903	3.6	110	
	1320	0.7	21			1232	0.3	9			1426	0.6	18			1416	-0.1	-3			1518	0.4	12			1546	-0.2	-6	
	1920	3.1	94			1844	3.6	110			2025	3.0	91			2012	3.5	107			2112	2.9	88			2128	3.0	91	
5 Su	0212	0.3	9		20 M	0138	-0.1	-3		5 W	0258	0.3	9		20 Th	0254	-0.3	-9		5 Sa	0331	0.3	9		20 Su	0357	0.0	0	
	0748	2.3	70			0709	2.6	79			0849	2.6	79			0836	3.2	98			0935	3.0	91			0951	3.6	110	
	1406	0.7	21			1331	0.1	3			1505	0.5	15			1510	-0.2	-6			1557	0.3	9			1636	-0.1	-3	
	2003	3.1	94			1936	3.7	113			2104	3.0	91			2102	3.5	107			2149	2.8	85			2216	2.9	88	
6 M	0251	0.3	9		21 Tu	0229	-0.2	-6		6 Th	0333	0.3	9		21 F	0340	-0.3	-9		6 Su	0405	0.3	9		21 M	0442	0.1	3	
	0831	2.4	73			0802	2.8	85			0931	2.7	82			0927	3.4	104			1011	3.1	94			1039	3.5	107	
	1448	0.6	18			1428	0.0	0			1544	0.5	15			1603	-0.2	-6			1639	0.3	9			1726	0.0	0	
	2046	3.1	94			2029	3.7	113			2143	3.0	91			2151	3.3	101			2227	2.8	85			2305	2.7	82	
7 Tu	0328	0.2	6		22 W	0318	-0.3	-9		7 F	0407	0.2	6		22 Sa	0426	-0.2	-6		7 M	0441	0.3	9		22 Tu	0529	0.3	9	
	0914	2.5	76			0855	2.9	88			1011	2.8	85			1019	3.5	107			1047	3.1	94			1129	3.4	104	
	1528	0.6	18			1523	-0.1	-3			1623	0.5	15			1656	-0.1	-3			1724	0.3	9			1819	0.2	6	
	2128	3.1	94			2121	3.6	110			2221	2.9	88			2242	3.1	94			2305	2.7	82			2356	2.5	76	
8 W	0404	0.2	6		23 Th	0406	-0.4	-12		8 Sa	0442	0.2	6		23 Su	0512	-0.1	-3		8 Tu	0520	0.4	12		23 W	0620	0.6	18	
	0958	2.5	76			0950	3.1	94			1051	2.9	88			1110	3.5	107			1124	3.1	94			1221	3.2	98	
	1608	0.6	18			1618	-0.1	-3			1705	0.5	15			1750	0.0	0			1814	0.3	9			1914	0.4	12	
	2210	3.0	91			2214	3.5	107			2259	2.8	85			2332	2.9	88			2347	2.5	76						
9 Th	0441	0.2	6		24 F	0454	-0.3	-9		9 Su	0518	0.3	9		24 M	0601	0.1	3		9 W	0604	0.5	15		24 Th	0050	2.4	73	
	1042	2.6	79			1045	3.2	98			1129	2.9	88			1202	3.4	104			1206	3.2	98			0717	0.7	21	
	1649	0.6	18			1714	-0.1	-3			1750	0.5	15			1847	0.2	6			1909	0.4	12			1317	3.0	91	
	2251	2.9	88			2307	3.3	101			2336	2.7	82								2008	0.4	12			2012	0.6	18	
10 F	0518	0.2	6		25 Sa	0543	-0.2	-6		10 M	0556	0.4	12		25 Tu	0024	2.6	79		10 Th	0033	2.4	73		25 F	0148	2.3	70	
	1126	2.7	82			1139	3.3	101			1206	2.9	88			0654	0.4	12			0655	0.6	18			0818	0.9	27	
	1732	0.6	18			1812	0.1	3			1840	0.5	15			1255	3.3	101			1256	3.1	94			1418	2.8	85	
	2331	2.8	85			2359	3.0	91								1946	0.4	12			2008	0.4	12			2110	0.7	21	
11 Sa	0556	0.3	9		26 Su	0634	-0.1	-3		11 Tu	0015	2.6	79		26 W	0119	2.4	73		11 F	0126	2.3	70		26 Sa	0252	2.2	67	
	1208	2.7	82			1233	3.3	101			0638	0.5	15			0750	0.6	18			0755	0.7	21			0919	0.9	27	
	1819	0.7	21			1913	0.2	6			1244	3.0	91			1351	3.1	94			1357	3.1	94			1524	2.7	82	
											1934	0.5	15			2047	0.5	15			2108	0.4	12			2205	0.7	21	
12 Su	0010	2.7	82		27 M	0052	2.7	82		12 W	0058	2.4	73		27 Th	0219	2.2	67		12 Sa	0231	2.3	70		27 Su	0358	2.3	70	
	0636	0.3	9			0727	0.1	3			0724	0.6	18			0849	0.7	21			0900	0.6	18			1018	0.9	27	
	1249	2.8	85			1329	3.2	98			1327	3.0	91			1453	2.9	88			1508	3.1	94			1628	2.7	82	
	1910	0.7	21			2015	0.3	9			2031	0.5	15			2146	0.6	18			2207	0.3	9			2256	0.7	21	
13 M	0050	2.6	79		28 Tu	0149	2.5	76		13 Th	0148	2.3	70		28 F	0325	2.2	67		13 Su	0342	2.3	70		28 M	0458	2.4	73	
	0718	0.4	12			0822	0.3	9			0816	0.6	18			0949	0.8	24			1005	0.5	15			1113	0.8	24	
	1329	2.8	85			1426	3.2	98			1422	3.1	94			1559	2.8	85			1619	3.2	98			1722	2.7	82	
	2003	0.7	21			2117	0.4	12			2129	0.4	12			2244	0.6	18			2305	0.3	9			2343	0.6	18	
14 Tu	0132	2.4	73		29 W	0250	2.3	70		14 F	0249	2.2	67		29 Sa	0431	2.2	67		14 M	0448	2.5	76		29 Tu	0548	2.5	76	

New London, Connecticut, 2009

Times and Heights of High and Low Waters

October				November				December															
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height										
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm									
1 Th	0105	0.5	15	16 F	0116	0.0	0	1 Su	0138	0.3	9	16 M	0225	0.2	6	1 Tu	0148	0.2	6	16 W	0252	0.2	6
	0710	2.9	88		0710	3.4	104		0746	3.2	98		0819	3.4	104		0754	3.3	101		0847	3.0	91
	1331	0.5	15		1352	-0.1	-3		1425	0.0	0		1512	-0.2	-6		1447	-0.3	-9		1535	-0.1	-3
	1926	2.8	85		1935	2.9	88		2008	2.6	79		2046	2.4	73		2021	2.4	73		2113	2.2	67
2 F	0141	0.4	12	17 Sa	0202	0.0	0	2 M	0218	0.3	9	17 Tu	0309	0.2	6	2 W	0235	0.1	3	17 Th	0333	0.3	9
	0747	3.0	91		0755	3.5	107		0821	3.3	101		0903	3.3	101		0838	3.4	104		0931	3.0	91
	1412	0.3	9		1442	-0.2	-6		1509	-0.1	-3		1555	-0.1	-3		1534	-0.4	-12		1615	-0.1	-3
	2003	2.8	85		2020	2.8	85		2048	2.6	79		2131	2.4	73		2107	2.4	73		2157	2.3	70
3 Sa	0217	0.3	9	18 Su	0247	0.0	0	3 Tu	0259	0.2	6	18 W	0352	0.3	9	3 Th	0324	0.0	0	18 F	0415	0.3	9
	0822	3.1	94		0839	3.6	110		0900	3.4	104		0948	3.2	98		0926	3.5	107		1015	2.9	88
	1452	0.2	6		1529	-0.2	-6		1554	-0.2	-6		1638	0.0	0		1622	-0.4	-12		1654	0.0	0
	2040	2.8	85		2105	2.7	82		2130	2.5	76		2218	2.4	73		2157	2.5	76		2243	2.3	70
4 Su	0253	0.3	9	19 M	0331	0.1	3	4 W	0343	0.2	6	19 Th	0436	0.4	12	4 F	0416	0.0	0	19 Sa	0457	0.3	9
	0857	3.2	98		0924	3.5	107		0943	3.4	104		1036	3.1	94		1019	3.4	104		1100	2.8	85
	1532	0.1	3		1615	-0.1	-3		1641	-0.2	-6		1722	0.1	3		1713	-0.4	-12		1734	0.1	3
	2117	2.7	82		2152	2.6	79		2217	2.5	76		2306	2.4	73		2251	2.5	76		2330	2.3	70
5 M	0330	0.3	9	20 Tu	0415	0.3	9	5 Th	0430	0.3	9	20 F	0522	0.5	15	5 Sa	0511	0.0	0	20 Su	0542	0.4	12
	0932	3.3	101		1011	3.4	104		1032	3.4	104		1124	2.9	88		1114	3.3	101		1144	2.6	79
	1615	0.1	3		1702	0.0	0		1733	-0.1	-3		1807	0.2	6		1806	-0.3	-9		1815	0.1	3
	2157	2.7	82		2240	2.5	76		2307	2.5	76		2356	2.3	70		2347	2.6	79		1815	0.1	3
6 Tu	0409	0.3	9	21 W	0500	0.5	15	6 F	0523	0.3	9	21 Sa	0612	0.6	18	6 Su	0612	0.0	0	21 M	0017	2.3	70
	1010	3.3	101		1100	3.3	101		1126	3.3	101		1214	2.7	82		1210	3.1	94		0631	0.5	15
	1701	0.1	3		1750	0.2	6		1828	0.0	0		1855	0.4	12		1901	-0.2	-6		1229	2.5	76
	2239	2.6	79		2330	2.4	73												1858		0.2	6	
7 W	0451	0.4	12	22 Th	0549	0.6	18	7 Sa	0002	2.5	76	22 Su	0048	2.3	70	7 M	0046	2.6	79	22 Tu	0105	2.3	70
	1052	3.3	101		1151	3.1	94		0624	0.4	12		0707	0.7	21		0717	0.1	3		0724	0.5	15
	1752	0.1	3		1841	0.4	12		1225	3.2	98		1305	2.6	79		1309	2.9	88		1314	2.3	70
	2325	2.5	76						1926	0.0	0		1944	0.4	12		1957	-0.2	-6		1942	0.3	9
8 Th	0539	0.5	15	23 F	0022	2.4	73	8 Su	0102	2.5	76	23 M	0142	2.3	70	8 Tu	0148	2.7	82	23 W	0154	2.4	73
	1141	3.3	101		0644	0.8	24		0731	0.4	12		0805	0.8	24		0824	0.1	3		0819	0.6	18
	1848	0.2	6		1245	2.9	88		1328	3.0	91		1359	2.4	73		1411	2.6	79		1402	2.1	64
					1934	0.5	15		2024	0.1	3		2032	0.5	15		2053	-0.1	-3		2027	0.3	9
9 F	0016	2.4	73	24 Sa	0118	2.3	70	9 M	0207	2.5	76	24 Tu	0240	2.4	73	9 W	0253	2.8	85	24 Th	0245	2.4	73
	0637	0.6	18		0744	0.9	27		0839	0.4	12		0901	0.8	24		0930	0.1	3		0913	0.5	15
	1237	3.2	98		1342	2.7	82		1435	2.9	88		1455	2.3	70		1517	2.4	73		1456	2.0	61
	1947	0.3	9		2028	0.6	18		2121	0.1	3		2118	0.5	15		2148	0.0	0		2112	0.4	12
10 Sa	0113	2.4	73	25 Su	0218	2.3	70	10 Tu	0315	2.7	82	25 W	0337	2.4	73	10 Th	0357	2.9	88	25 F	0337	2.5	76
	0743	0.6	18		0844	0.9	27		0946	0.3	9		0955	0.7	21		1034	0.1	3		1007	0.4	12
	1342	3.1	94		1443	2.6	79		1543	2.7	82		1551	2.2	67		1623	2.2	67		1553	2.0	61
	2047	0.3	9		2120	0.6	18		2216	0.1	3		2203	0.5	15		2243	0.1	3		2159	0.4	12
11 Su	0220	2.4	73	26 M	0321	2.3	70	11 W	0420	2.8	85	26 Th	0429	2.6	79	11 F	0456	3.0	91	26 Sa	0428	2.6	79
	0850	0.6	18		0942	0.9	27		1049	0.2	6		1047	0.6	18		1135	0.0	0		1100	0.3	9
	1454	3.0	91		1545	2.5	76		1647	2.6	79		1644	2.2	67		1723	2.2	67		1648	1.9	58
	2146	0.2	6		2209	0.6	18		2310	0.1	3		2247	0.4	12		2337	0.1	3		2248	0.3	9
12 M	0330	2.5	76	27 Tu	0421	2.4	73	12 Th	0517	3.1	94	27 F	0515	2.7	82	12 Sa	0549	3.1	94	27 Su	0515	2.7	82
	0957	0.5	15		1037	0.8	24		1150	0.1	3		1137	0.4	12		1232	0.0	0		1154	0.1	3
	1604	3.0	91		1641	2.5	76		1742	2.6	79		1732	2.2	67		1816	2.1	64		1739	2.0	61
	2242	0.2	6		2254	0.6	18												2339		0.3	9	
13 Tu	0436	2.7	82	28 W	0512	2.6	79	13 F	0001	0.1	3	28 Sa	0556	2.9	88	13 Su	0030	0.2	6	28 M	0601	2.9	88
	1100	0.3	9		1127	0.7	21		0607	3.2	98		1226	0.2	6		0636	3.1	94		1246	-0.1	-3
	1707	3.0	91		1729	2.5	76		1247	0.0	0		1816	2.3	70		1325	-0.1	-3		1826	2.1	64
	2336	0.1	3		2337	0.5	15		1832	2.5	76						1903	2.1	64				
14 W	0533	3.0	91	29 Th	0556	2.8	85	14 Sa	0051	0.1	3	29 Su	0016	0.3	9	14 M	0120	0.2	6	29 Tu	0032	0.1	3
	1201	0.2	6		1214	0.6	18		0652	3.4	104		0635	3.0	91		0720	3.1	94		0647	3.1	94
	1801	3.0	91		1812	2.5	76		1339	-0.1	-3		1314	0.0	0		1412	-0.1	-3		1337	-0.3	-9
									1918	2.5	76		1857	2.3	70		1946	2.2	67		1912	2.2	67
15 Th	0027	0.0	0	30 F	0018	0.5	15	15 Su	0139	0.1	3	30 M	0102	0.3	9	15 Tu	0207	0.2	6	30 W	0125	0.0	0
	0623	3.2	98		0635	2.9	88		0736	3.4	104		0713	3.2	98		0804	3.1	94		0733	3.3	101
	1259	0.0	0		1259	0.4	12		1427	-0.2	-6		1400	-0.2	-6		1455	-0.1	-3		1426	-0.4	-12
	1849	3.0	91		1852	2.6	79		2002	2.5	76		1938	2.4	73		2029	2.2	67		1959	2.3	70
			31 Sa	0058	0.4	12										31 Th	0218	-0.2	-6				
				0711	3.1	94											0822	3.4	104				
				1343	0.2	6											1						

Bridgeport, Connecticut, 2009

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 Th	0155	6.4	195		1 Su	0246	6.9	210	16 M	0357	6.6	201	1 Su	0134	7.3	223	16 M	0227	6.9	210			
	0804	0.6	18			0915	-0.1	-3		1029	0.5	15		0802	-0.2	-6		0856	0.3	9			
	1408	6.4	195			1517	6.1	186		1633	5.6	171		1406	6.5	198		1502	6.1	186	1502	6.1	186
	2026	0.2	6			2125	0.3	9		2239	1.0	30		2011	0.2	6		2105	0.9	27			
2 F	0236	6.5	198		2 M	0336	6.8	207	17 Tu	0453	6.3	192	2 M	0219	7.2	219	17 Tu	0316	6.5	198			
	0852	0.6	18			1012	0.2	6		1128	0.8	24		0854	0.0	0		0947	0.7	21			
	1454	6.2	189			1615	5.9	180		1732	5.5	168		1457	6.2	189		1554	5.8	177			
	2110	0.3	9			2221	0.5	15		2338	1.2	37		2102	0.4	12		2158	1.2	37			
3 Sa	0321	6.5	198		3 Tu	0434	6.8	207	18 W	0554	6.1	186	3 Tu	0312	7.1	216	18 W	0411	6.2	189			
	0944	0.6	18			1117	0.3	9		1227	0.9	27		0952	0.2	6		1042	1.0	30			
	1545	6.0	183			1719	5.7	174		1833	5.4	165		1556	6.0	183		1651	5.6	171			
	2158	0.4	12			2324	0.6	18				2202		0.6	18	2258		1.4	43				
4 Su	0411	6.6	201		4 W	0539	6.8	207	19 Th	0039	1.2	37	4 W	0414	6.9	210	19 Th	0511	6.0	183			
	1041	0.5	15			1224	0.2	6		0654	6.0	183		1058	0.3	9		1141	1.1	34			
	1643	5.9	180			1826	5.8	177		1324	0.8	24		1702	5.9	180		1751	5.6	171			
	2252	0.5	15							1930	5.6	171		2309	0.7	21							
5 M	0506	6.8	207		5 Th	0032	0.5	15	20 F	0137	1.1	34	5 Th	0523	6.8	207	20 F	0000	1.4	43			
	1143	0.3	9			0647	7.0	213		0751	6.1	186		1207	0.3	9		0613	5.9	180			
	1745	5.8	177			1330	0.0	0		1416	0.7	21		1811	5.9	180		1239	1.1	34			
	2351	0.5	15			1932	6.0	183		2022	5.8	177				1849		5.7	174				
6 Tu	0605	6.9	210		6 F	0138	0.3	9	21 Sa	0229	0.8	24	6 F	0020	0.6	18	21 Sa	0100	1.3	40			
	1246	0.1	3			0753	7.2	219		0841	6.3	192		0635	6.9	210		0712	6.0	183			
	1848	5.9	180			1431	-0.3	-9		1502	0.4	12		1314	0.2	6		1333	0.9	27			
						2033	6.4	195		2109	6.1	186		1917	6.2	189		1943	6.0	183			
7 W	0052	0.4	12		7 Sa	0241	-0.1	-3	22 Su	0315	0.6	18	7 Sa	0129	0.3	9	22 Su	0154	1.0	30			
	0706	7.2	219			0855	7.5	229		0926	6.5	198		0742	7.1	216		0804	6.2	189			
	1348	-0.2	-6			1527	-0.6	-18		1543	0.2	6		1415	-0.1	-3		1421	0.7	21			
	1950	6.1	186			2129	6.8	207		2151	6.4	195		2018	6.6	201		2031	6.3	192			
8 Th	0153	0.2	6		8 Su	0339	-0.5	-15	23 M	0358	0.3	9	8 Su	0231	-0.1	-3	23 M	0243	0.7	21			
	0807	7.5	229			0951	7.7	235		1007	6.7	204		0842	7.3	223		0851	6.4	195			
	1447	-0.5	-15			1619	-0.9	-27		1621	0.0	0		1509	-0.4	-12		1504	0.4	12			
	2049	6.4	195			2222	7.2	219		2229	6.7	204		2113	7.1	216		2114	6.7	204			
9 F	0252	-0.1	-3		9 M	0433	-0.8	-24	24 Tu	0438	0.1	3	9 M	0328	-0.4	-12	24 Tu	0328	0.4	12			
	0906	7.8	238			1043	7.8	238		1045	6.9	210		0937	7.5	229		0935	6.7	204			
	1543	-0.8	-24			1707	-1.0	-30		1658	-0.2	-6		1558	-0.6	-18		1544	0.2	6			
	2144	6.7	204			2311	7.5	229		2306	6.9	210		2203	7.5	229		2154	7.0	213			
10 Sa	0349	-0.4	-12		10 Tu	0525	-0.9	-27	25 W	0517	-0.1	-3	10 Tu	0420	-0.7	-21	25 W	0410	0.0	0			
	1002	8.0	244			1133	7.8	238		1122	6.9	210		1027	7.6	232		1015	6.9	210			
	1636	-1.0	-30			1753	-1.1	-34		1734	-0.3	-9		1644	-0.7	-21		1623	0.0	0			
	2238	7.0	213			2359	7.7	235		2341	7.1	216		2250	7.8	238		2231	7.3	223			
11 Su	0445	-0.7	-21		11 W	0615	-0.9	-27	26 Th	0555	-0.2	-6	11 W	0509	-0.9	-27	26 Th	0450	-0.2	-6			
	1057	8.1	247			1221	7.6	232		1200	6.9	210		1114	7.5	229		1055	7.0	213			
	1727	-1.1	-34			1838	-0.9	-27		1809	-0.3	-9		1728	-0.7	-21		1701	-0.1	-3			
	2330	7.2	219									2334		7.9	241	2308		7.6	232				
12 M	0539	-0.8	-24		12 Th	0045	7.7	235	27 F	0016	7.2	219	12 Th	0555	-0.9	-27	27 F	0531	-0.4	-12			
	1149	8.0	244			0704	-0.8	-24		0635	-0.3	-9		1159	7.4	226		1136	7.0	213			
	1816	-1.1	-34			1308	7.3	223		1239	6.9	210		1809	-0.5	-15		1740	-0.1	-3			
						1922	-0.6	-18		1847	-0.2	-6				2347		7.7	235				
13 Tu	0020	7.4	226		13 F	0131	7.6	232	28 Sa	0053	7.3	223	13 F	0016	7.9	241	28 Sa	0613	-0.5	-15			
	0632	-0.8	-24			0752	-0.5	-15		0716	-0.3	-9		0639	-0.7	-21		1218	7.0	213			
	1240	7.8	238			1356	6.8	207		1320	6.7	204		1243	7.1	216		1821	0.0	0			
	1905	-1.0	-30			2007	-0.2	-6		1927	0.0	0		1851	-0.2	-6							
14 W	0111	7.4	226		14 Sa	0217	7.3	223	15 Su	0305	7.0	213	14 Sa	0059	7.7	235	29 Su	0027	7.8	238			
	0726	-0.6	-18			0842	-0.2	-6		0934	0.2	6		0724	-0.4	-12		0657	-0.5	-15			
	1332	7.4	226			1445	6.4	195		1537	6.0	183		1328	6.8	207		1302	6.9	210			
	1953	-0.8	-24			2054	0.2	6		2144	0.6	18		1933	0.2	6		1905	0.1	3			
15 Th	0201	7.4	226		15 Su	0305	7.0	213	31 Sa	0202	6.9	210	15 Su	0142	7.3	223	30 M	0112	7.7	235			
	0820	-0.4	-12			0824	0.1	3		0934	0.2	6		0809	-0.1	-3		0746	-0.3	-9			
	1424	7.0	213			1427	6.3	192		1537	6.0	183		1413	6.4	195		1351	6.7	204			
	2042	-0.4	-12			2037	0.1	3		2144	0.6	18		2017	0.6	18		1954	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.

Bridgeport, Connecticut, 2009

Times and Heights of High and Low Waters

April				May				June																			
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height														
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm													
1 W	0259	7.3	223			1 F	0353	7.2	219	16 Sa	0348	6.3	192	1 M	0544	6.7	204	16 Tu	0453	6.2	189						
	0939	0.2	6				1029	0.2	6				1010		1.0	30				1202	0.3	9			1104	0.9	27
	1544	6.3	192				1637	6.8	207				1625		6.3	192				1815	7.4	226			1720	6.9	210
	2152	0.7	21				2252	0.7	21				2238		1.4	43				2234	1.4	43			2349	0.9	27
2 Th	0403	7.0	213			2 Sa	0500	6.9	210	17 Su	0442	6.1	186	2 Tu	0044	0.4	12	17 W	0549	6.1	186						
	1044	0.3	9				1131	0.3	9				1100		1.0	30				0645	6.5	198			1156	0.9	27
	1650	6.2	189				1740	6.9	210				1717		6.4	195				1257	0.5	15			1811	7.1	216
	2301	0.8	24				2334	1.3	40				2334		1.3	40				1911	7.5	229					
3 F	0513	6.8	207			3 Su	0000	0.6	18	18 M	0537	6.1	186	3 W	0142	0.3	9	18 Th	0046	0.7	21						
	1151	0.4	12				0606	6.8	207				1151		1.0	30				0743	6.5	198			0647	6.1	186
	1757	6.4	195				1231	0.3	9				1808		6.6	201				1350	0.6	18			1250	0.9	27
							1841	7.2	219										2002	7.6	232			1905	7.4	226	
4 Sa	0012	0.7	21			4 M	0104	0.4	12	19 Tu	0030	1.1	34	4 Th	0235	0.2	6	19 F	0143	0.4	12						
	0623	6.8	207				0709	6.8	207				0633		6.1	186				0836	6.5	198			0745	6.3	192
	1255	0.3	9				1327	0.2	6				1242		0.9	27				1440	0.7	21			1345	0.7	21
	1901	6.7	204				1937	7.4	226				1857		6.9	210				2051	7.6	232			1959	7.7	235
5 Su	0119	0.4	12			5 Tu	0203	0.1	3	20 W	0124	0.8	24	5 F	0324	0.1	3	20 Sa	0239	0.1	3						
	0728	6.9	210				0807	6.8	207				0727		6.2	189				0926	6.5	198			0841	6.5	198
	1353	0.1	3				1419	0.2	6				1332		0.8	24				1527	0.8	24			1441	0.6	18
	2000	7.1	216				2029	7.7	235				1946		7.2	219				2136	7.5	229			2054	7.9	241
6 M	0219	0.0	0			6 W	0257	-0.1	-3	21 Th	0216	0.4	12	6 Sa	0409	0.1	3	21 Su	0333	-0.2	-6						
	0827	7.1	216				0859	6.8	207				0820		6.4	195				1012	6.5	198			0936	6.7	204
	1446	-0.1	-3				1507	0.2	6				1422		0.6	18				1611	0.8	24			1536	0.3	9
	2053	7.5	229				2116	7.8	238				2034		7.6	232				2220	7.5	229			2149	8.2	250
7 Tu	0314	-0.3	-9			7 Th	0345	-0.2	-6	22 F	0307	0.0	0	7 Su	0450	0.1	3	22 M	0427	-0.5	-15						
	0920	7.2	219				0948	6.9	210				0911		6.6	201				1054	6.6	201			1030	7.0	213
	1534	-0.2	-6				1552	0.3	9				1511		0.5	15				1653	0.9	27			1631	0.1	3
	2141	7.8	238				2200	7.8	238				2121		7.9	241				2301	7.4	226			2243	8.3	253
8 W	0404	-0.5	-15			8 F	0430	-0.3	-9	23 Sa	0356	-0.3	-9	8 M	0530	0.2	6	23 Tu	0519	-0.6	-18						
	1008	7.3	223				1033	6.9	210				1000		6.8	207				1135	6.6	201			1123	7.2	219
	1618	-0.2	-6				1635	0.4	12				1600		0.3	9				1734	0.9	27			1727	0.0	0
	2225	8.0	244				2242	7.8	238				2210		8.1	247				2342	7.3	223			2337	8.4	256
9 Th	0450	-0.6	-18			9 Sa	0512	-0.3	-9	24 Su	0446	-0.5	-15	9 Tu	0608	0.2	6	24 W	0611	-0.7	-21						
	1054	7.2	219				1116	6.8	207				1050		7.0	213				1215	6.6	201			1215	7.4	226
	1701	-0.1	-3				1716	0.6	18				1650		0.2	6				1814	1.0	30			1822	-0.1	-3
	2308	8.0	244				2323	7.6	232				2300		8.3	253											
10 F	0533	-0.6	-18			10 Su	0552	-0.1	-3	25 M	0536	-0.6	-18	10 W	0022	7.1	216	25 Th	0032	8.2	250						
	1137	7.1	216				1157	6.7	204				1140		7.1	216				0646	0.3	9			0703	-0.7	-21
	1741	0.1	3				1756	0.7	21				1742		0.1	3				1255	6.6	201			1309	7.6	232
	2348	7.8	238										2351		8.3	253				1855	1.0	30			1919	-0.1	-3
11 Sa	0615	-0.5	-15			11 M	0603	7.4	226	26 Tu	0627	-0.6	-18	11 Th	0102	7.0	213	26 F	0126	8.0	244						
	1219	6.9	210				0631	0.1	3				1232		7.2	219				0725	0.4	12			0754	-0.6	-18
	1822	0.3	9				1238	6.6	201				1835		0.1	3				1335	6.6	201			1402	7.6	232
							1837	0.9	27										1937	1.1	34			2016	0.0	0	
12 Su	0029	7.6	232			12 Tu	0044	7.2	219	27 W	0045	8.2	250	12 F	0143	6.8	207	27 Sa	0222	7.7	235						
	0656	-0.2	-6				0711	0.3	9				0720		-0.5	-15				0804	0.5	15			0847	-0.4	-12
	1302	6.7	204				1319	6.5	198				1325		7.2	219				1416	6.6	201			1457	7.7	235
	1902	0.6	18				1918	1.0	30				1932		0.2	6				2021	1.1	34			2116	0.2	6
13 M	0110	7.3	223			13 W	0126	7.0	213	28 Th	0140	7.9	241	13 Sa	0225	6.6	201	28 Su	0318	7.2	219						
	0738	0.1	3				0752	0.5	15				0814		-0.4	-12				0845	0.6	18			0940	-0.1	-3
	1345	6.4	195				1402	6.4	195				1421		7.2	219				1459	6.6	201			1553	7.6	232
	1945	0.9	27				2003	1.2	37				2031		0.3	9				2108	1.2	37			2216	0.3	9
14 Tu	0154	6.9	210			14 Th	0211	6.7	204	29 F	0238	7.6	232	14 Su	0311	6.5	198	29 M	0417	6.8	207						
	0822	0.5	15				0835	0.7	21				0910		-0.2	-6				0928	0.7	21			1034	0.2	6
	1430	6.2	189				1447	6.3	192				1519		7.2	219				1543	6.7	204			1649	7.5	229
	2031	1.1	34				2051	1.3	40				2134		0.4	12				2159	1.2	37			2317	0.4	12
15 W	0241	6.6	201			15 F	0258	6.5	198	30 Sa	0339	7.3	223	15 M	0400	6.3	192	30 Tu	0517	6.5	198						
	0909	0.8	24				0921	0.9	27				1007		0.0	0				1014	0.8	24			1130	0.5	15
	1519	6.0	183				1535	6.3	192				1618		7.3	223				1630	6.8	207			1745	7.4	226
	2122	1.3	40				2143	1.4	43				2238		0.5	15				2253	1.1	34					
					31 Su	0441	6.9	210			1105	0.2	6														

Bridgeport, Connecticut, 2009

Times and Heights of High and Low Waters

July			August			September									
Time	Height		Time	Height		Time	Height		Time	Height					
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm	
1 W	0018	0.5	15			16 Su	0055	0.5	15		1 Tu	0245	0.8	24	
	0617	6.3	192				0656	6.3	192				0851	6.5	198
	1226	0.8	24				1302	0.8	24				1458	1.0	30
	1841	7.4	226				1917	7.5	229				2108	6.9	210
2 Th	0116	0.5	15			2 Su	0157	0.3	9			2 W	0326	0.6	18
	0716	6.2	189				0759	6.6	201				0933	6.8	207
	1321	0.9	27				1406	0.5	15				1541	0.8	24
	1935	7.3	223				2020	7.8	238				2150	7.0	213
3 F	0210	0.5	15			3 M	0255	-0.1	-3			3 Th	0404	0.4	12
	0811	6.2	189				0857	7.0	213				1012	7.0	213
	1413	1.0	30				1506	0.1	3				1622	0.6	18
	2026	7.2	219				2118	8.1	247				2228	7.1	216
4 Sa	0300	0.4	12			4 Tu	0348	-0.4	-12			4 F	0440	0.3	9
	0902	6.3	192				0951	7.5	229				1049	7.2	219
	1503	1.0	30				1603	-0.2	-6				1700	0.5	15
	2114	7.2	219				2213	8.2	250				2306	7.2	219
5 Su	0346	0.4	12			5 W	0438	-0.6	-18			5 Sa	0516	0.3	9
	0949	6.4	195				1043	7.9	241				1124	7.4	226
	1549	1.0	30				1657	-0.5	-15				1738	0.3	9
	2159	7.2	219				2305	8.2	250				2343	7.1	216
6 M	0427	0.4	12			6 Th	0514	0.3	9			6 Su	0551	0.3	9
	1031	6.5	198				1122	6.9	210				1159	7.5	229
	1632	1.0	30				1727	0.7	21				1817	0.3	9
	2241	7.2	219				2334	7.1	216						
7 Tu	0506	0.3	9			7 F	0549	0.3	9			7 M	0620	7.1	216
	1112	6.6	201				1158	7.0	213				0627	0.4	12
	1712	0.9	27				1806	0.6	18				1234	7.5	229
	2321	7.2	219										1857	0.3	9
8 W	0544	0.3	9			8 Sa	0613	-0.6	-18			8 Tu	0100	6.9	210
	1151	6.7	204				1221	8.3	253				0705	0.5	15
	1752	0.9	27				1840	-0.5	-15				1313	7.5	229
	2359	7.1	216										1940	0.3	9
9 Th	0620	0.3	9			9 Su	0044	7.8	238			9 W	0144	6.7	204
	1228	6.7	204				0659	-0.4	-12				0748	0.7	21
	1831	0.9	27				1308	8.2	250				1356	7.5	229
							1931	-0.3	-9				2029	0.5	15
10 F	0620	0.3	9			10 M	0134	7.4	226			10 Th	0232	6.5	198
	1228	6.7	204				0746	0.0	0				0836	0.9	27
	1831	0.9	27				1357	8.0	244				1446	7.4	226
							2023	0.0	0				2125	0.6	18
11 Sa	0037	7.0	213			11 Tu	0225	7.0	213			11 F	0328	6.3	192
	0656	0.3	9				0835	0.4	12				0932	1.0	30
	1306	6.8	207				1447	7.6	232				1544	7.2	219
	1911	0.9	27				2117	0.4	12				2227	0.7	21
12 Su	0115	6.9	210			12 W	0318	6.6	201			12 Sa	0430	6.2	189
	0732	0.4	12				0927	0.8	24				1036	1.1	34
	1343	6.9	210				1540	7.3	223				1650	7.2	219
	1952	0.9	27				2213	0.7	21				2333	0.7	21
13 M	0155	6.8	207			13 Th	0415	6.2	189			13 Su	0536	6.2	189
	0810	0.4	12				1022	1.2	37				1144	1.0	30
	1422	6.9	210				1637	6.9	210				1759	7.2	219
	2036	0.9	27				2311	1.0	30						
14 Tu	0237	6.6	201			14 F	0514	6.0	183			14 M	0642	6.5	198
	0850	0.6	18				1121	1.4	43				1252	0.7	21
	1503	7.0	213				1736	6.7	204				1905	7.4	226
	2124	0.9	27												
15 W	0324	6.4	195			15 Sa	0011	1.1	34			15 Tu	0039	0.6	18
	0934	0.7	21				0614	6.0	183				0642	6.5	198
	1548	7.1	216				1221	1.4	43				1252	0.7	21
	2216	0.9	27				1836	6.6	201				1905	7.4	226
16 Th	0416	6.2	189			16 Su	0107	1.1	34			16 W	0140	0.3	9
	1023	0.8	24				0711	6.1	186				0743	6.9	210
	1638	7.1	216				1319	1.4	43				1356	0.4	12
	2313	0.8	24				1932	6.7	204				2007	7.6	232
17 F	0046	0.8	24			17 M	0159	1.0	30			17 Th	0204	0.9	27
	0647	6.0	183				0804	6.3	192				0814	6.7	204
	1252	1.2	37				1411	1.2	37				1426	0.9	27
	1907	6.9	210				2023	6.8	207				2034	6.7	204

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, 2009

Times and Heights of High and Low Waters

October				November				December																
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height											
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm										
1 Th	0246	0.7	21			1 Su	0326	0.4	12			1 Tu	0338	0.2	6									
	0856	7.0	213	16 F	0303		-0.2	-6	16 M	0412	0.1		3	16 W	0437	0.4	12							
	1510	0.6	18		0911		8.0	244		1020	7.9		241		0948	7.7	235	1045	7.3	223				
	2117	6.9	210		1534		-0.4	-12		1602	-0.1		-3		1650	-0.4	-12	1622	-0.5	-15	1713	-0.2	-6	
			2138		7.5	229	2206	6.8		207	2253	6.8	207		2226	6.7	204	2316	6.4	195				
2 F	0325	0.5	15			2 M	0407	0.3	9			2 W	0426	0.1	3	17 Th	0518	0.4	12					
	0935	7.2	219	17 Sa	0958		8.2	250	17 Tu	1103	7.7		235	17 W	1035		7.9	241	1126	7.1	216			
	1551	0.4	12		1623		-0.6	-18		1733	-0.3		-9		1710		-0.6	-18	1752	-0.1	-3			
	2157	7.0	213		2226		7.4	226		2249	6.9		210		2336		6.7	204	2313	6.8	207	2357	6.4	195
3 Sa	0403	0.4	12			3 Tu	0449	0.3	9			3 Th	0515	0.0	0	18 F	0559	0.5	15					
	1013	7.5	229	18 Su	1042		8.3	253	18 W	1146	7.5		229	18 Th	1124		7.9	241	1207	7.0	213			
	1631	0.2	6		1709		-0.5	-15		1729	-0.4		-12		1814		-0.1	-3	1759	-0.7	-21	1831	0.0	0
	2236	7.1	216		2312		7.3	223		2333	6.9		210		2336		6.7	204	2313	6.8	207	2357	6.4	195
4 Su	0440	0.3	9			4 W	0533	0.3	9			4 F	0603	6.9	210	19 Sa	0639	0.5	15					
	1049	7.6	232	19 M	1126		8.1	247	19 Tu	1228	7.2		219	19 W	1215		7.9	241	1247	6.8	207			
	1710	0.0	0		1754		-0.4	-12		1815	-0.3		-9		1856		0.2	6	1850	-0.6	-18	1909	0.1	3
	2315	7.1	216		2357		7.1	216		2357	7.1		216		2357		7.1	216	2357	7.1	216	2357	7.1	216
5 M	0518	0.3	9			5 Th	0620	0.3	9			5 Sa	0700	0.0	0	20 Su	0720	0.6	18					
	1125	7.7	235	20 Tu	1209		7.9	241	20 W	1312	6.9		210	20 Th	1309		7.7	235	1328	6.6	201			
	1751	0.0	0		1838		-0.1	-3		1904	-0.2		-6		1938		0.4	12	1943	-0.5	-15	1947	0.3	9
	2355	7.0	213		2355		7.0	213		2355	7.0		213		2355		7.0	213	2355	7.0	213	2355	7.0	213
6 Tu	0558	0.4	12			6 F	0712	0.4	12			6 Su	0758	0.0	0	21 M	0804	0.7	21					
	1204	7.8	238	21 W	1254		7.5	229	21 Th	1406	7.4		226	21 W	1406		7.4	226	1410	6.4	195			
	1834	0.0	0		1923		0.2	6		1958	-0.1		-3		2022		0.6	18	2038	-0.4	-12	2027	0.4	12
7 W	0038	6.9	210			7 Sa	0203	6.6	201			7 M	0245	6.9	210	22 Tu	0240	6.3	192					
	0640	0.5	15	22 Th	0730		0.9	27	22 W	0837	1.1		34	22 Th	0859		0.1	3	0850	0.8	24			
	1247	7.7	235		1340		7.1	216		1418	7.4		226		1446		6.4	195	1505	7.1	216	1455	6.1	186
	1920	0.1	3		2009		0.5	15		2056	0.1		3		2108		0.8	24	2134	-0.2	-6	2110	0.5	15
8 Th	0124	6.7	204			8 Su	0301	6.6	201			8 M	0320	6.1	186	23 W	0324	6.3	192					
	0726	0.7	21	23 F	0819		1.2	37	23 Th	0929	1.2		37	23 Th	1003		0.2	6	0940	0.9	27			
	1334	7.6	232		1429		6.8	207		1520	7.2		219		1536		6.1	186	1608	6.8	207	1543	5.9	180
	2012	0.3	9		2058		0.9	27		2157	0.2		6		2157		0.9	27	2233	0.0	0	2155	0.6	18
9 F	0216	6.5	198			9 M	0404	6.6	201			9 W	0444	7.1	216	24 Th	0411	6.3	192					
	0819	0.8	24	24 Sa	0912		1.4	43	24 Su	1024	1.3		40	24 Su	1109		0.2	6	1033	0.9	27			
	1429	7.4	226		1523		6.5	198		1626	7.0		213		1630		6.0	183	1712	6.5	198	1635	5.7	174
	2110	0.4	12		2151		1.1	34		2258	0.3		9		2246		0.9	27	2331	0.1	3	2244	0.7	21
10 Sa	0314	6.4	195			10 Tu	0507	6.8	207			10 W	0502	6.2	189	25 Th	0500	6.4	195					
	0920	1.0	30	25 F	1008		1.5	46	25 F	1120	1.2		37	25 F	1213		0.1	3	1129	0.8	24			
	1531	7.2	219		1619		6.2	189		1732	6.8		207		1725		5.9	180	1815	6.4	195	1731	5.7	174
	2213	0.6	18		2245		1.2	37		2359	0.2		6		2337		0.9	27	2337	0.8	24	2337	0.8	24
11 Su	0418	6.4	195			11 W	0609	7.1	216			11 Th	0629	0.2	6	26 Sa	0552	6.5	198					
	1027	1.0	30	26 M	1107		1.5	46	26 M	1215	1.0		30	26 M	0642		7.3	223	1225	0.6	18			
	1639	7.1	216		1717		6.1	186		1836	6.8		207		1819		5.9	180	1314	0.0	0	1828	5.7	174
	2318	0.6	18		2338		1.2	37		2338	1.2		37		2338		1.2	37	1915	6.3	192	2155	0.6	18
12 M	0523	6.5	198			12 Th	0706	7.4	226			12 F	0737	7.4	226	27 Su	0645	6.7	204					
	1137	0.8	24	27 Tu	1205		1.3	40	27 Tu	1308	0.7		21	27 Tu	1410		-0.2	-6	1322	0.3	9			
	1747	7.1	216		1813		6.1	186		1935	6.8		207		1912		6.0	183	2011	6.3	192	1925	5.8	177
13 Tu	0021	0.4	12			13 F	0149	0.1	3			13 Sa	0217	0.3	9	28 M	0126	0.6	18					
	0627	6.8	207	28 W	0643		6.4	195	28 W	0730	6.9		210	28 W	0829		7.4	226	0739	7.0	213			
	1243	0.6	18		1259		1.1	34		1427	-0.2		-6		1358		0.4	12	1501	-0.3	-9	1417	0.0	0
	1853	7.2	219		1906		6.2	189		2030	6.9		210		2002		6.2	189	2103	6.4	195	2020	6.0	183
14 W	0120	0.2	6			14 Sa	0239	0.0	0			14 Su	0307	0.3	9	29 Tu	0220	0.4	12					
	0726	7.2	219	29 Th	0731		6.7	204	29 Th	0816	7.2		219	29 Th	0917		7.4	226	0833	7.3	223			
	1345	0.2	6		1349		0.8	24		1518	-0.4		-12		1447		0.0	0	1548	-0.3	-9	1510	-0.3	-9
	1953	7.3	223		1955		6.4	195		2121	6.9		210		2051		6.4	195	2151	6.4	195	2113	6.3	192
15 Th	0213	0.0	0			15 Su	0327	0.1	3			15 M	0353	0.3	9	30 W	0314	0.1	3					
	0821	7.7	235	30 F	0815		7.0																	

Kings Point, Long Island, New York, 2009

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 W	0103	0.1	3		16 Th	0448	6.8	207		1 Sa	0227	0.5	15		16 Su	0110	0.7	21		1 Tu	0331	0.6	18		16 W	0316	-0.2	-6	
	0656	6.9	210			1102	0.8	24			0823	6.8	207			0642	6.8	207			0928	7.3	223			0902	8.1	247	
	1316	0.7	21			1709	7.9	241			1439	1.1	34			1252	0.9	27			1546	0.9	27			1535	-0.1	-3	
	1917	8.0	244			2357	0.7	21			2040	7.6	232			1902	8.0	244			2143	7.6	232			2124	8.4	256	
2 Th	0200	0.1	3		17 F	0550	6.7	204		2 Su	0317	0.4	12		17 M	0233	0.3	9		2 W	0411	0.4	12		17 Th	0406	-0.5	-15	
	0755	6.9	210			1200	0.9	27			0913	7.0	213			0804	7.2	219			1008	7.5	229			0953	8.6	262	
	1411	0.8	24			1809	8.0	244			1529	1.0	30			1420	0.6	18			1626	0.6	18			1629	-0.6	-18	
	2012	8.0	244								2128	7.7	235			2020	8.3	253			2220	7.7	235			2215	8.6	262	
3 F	0253	0.0	0		18 Sa	0112	0.6	18		3 M	0403	0.3	9		18 Tu	0333	-0.1	-3		3 Th	0446	0.4	12		18 F	0453	-0.7	-21	
	0848	7.0	213			0659	6.8	207			0958	7.2	219			0910	7.7	235			1041	7.7	235			1039	9.0	274	
	1504	0.8	24			1304	0.8	24			1615	0.8	24			1537	0.1	3			1700	0.5	15			1720	-0.8	-24	
	2102	8.0	244			1915	8.2	250			2211	7.7	235			2127	8.6	262			2250	7.7	235			● 2304	8.6	262	
4 Sa	0343	0.0	0		19 Su	0238	0.2	6		4 Tu	0445	0.2	6		19 W	0426	-0.6	-18		4 F	0511	0.3	9		19 Sa	0537	-0.7	-21	
	0937	7.1	216			0810	7.1	216			1039	7.3	223			1006	8.2	250			1105	7.8	238			1123	9.2	280	
	1554	0.8	24			1414	0.6	18			1655	0.7	21			1637	-0.3	-9			1726	0.4	12			1808	-0.9	-27	
	2149	7.9	241			2022	8.4	256			2248	7.8	238			2223	8.8	268			○ 2310	7.7	235			2351	8.4	256	
5 Su	0430	0.0	0		20 M	0345	-0.2	-6		5 W	0522	0.2	6		20 Th	0515	-0.8	-24		5 Sa	0523	0.3	9		20 Su	0619	-0.4	-12	
	1022	7.2	219			0916	7.4	226			1115	7.4	226			1057	8.6	262			1118	8.0	244			1206	9.1	277	
	1639	0.8	24			1528	0.3	9			1730	0.7	21			1731	-0.6	-18			1745	0.3	9			1855	-0.7	-21	
	2231	7.9	241			2126	8.7	265			○ 2320	7.7	235			● 2316	8.9	271			2332	7.7	235						
6 M	0512	0.0	0		21 Tu	0442	-0.5	-15		6 Th	0551	0.2	6		21 F	0601	-0.9	-27		6 Su	0544	0.2	6		21 M	0038	8.1	247	
	1104	7.2	219			1015	7.9	241			1145	7.5	229			1145	8.9	271			1140	8.1	247			0700	-0.1	-3	
	1719	0.8	24			1636	-0.1	-3			1755	0.6	18			1823	-0.8	-24			1812	0.1	3			1249	8.8	268	
	2310	7.8	238			● 2226	8.9	271			2342	7.7	235										1942	-0.4		-12			
7 Tu	0551	0.1	3		22 W	0533	-0.8	-24		7 F	0607	0.3	9		22 Sa	0007	8.7	265		7 M	0002	7.7	235		22 Tu	0126	7.7	235	
	1142	7.3	223			1110	8.2	250			1203	7.6	232			0646	-0.8	-24			0616	0.2	6			0739	0.4	12	
	1754	0.8	24			1737	-0.4	-12			1811	0.6	18			1234	9.0	274			1213	8.3	253			1333	8.4	256	
	○ 2342	7.7	235			2324	9.0	274								1914	-0.7	-21			1847	0.1	3			2032	0.0	0	
8 W	0623	0.2	6		23 Th	0622	-1.0	-30		8 Sa	0001	7.7	235		23 Su	0058	8.4	256		8 Tu	0040	7.7	235		23 W	0216	7.3	223	
	1216	7.2	219			1204	8.5	259			0619	0.2	6			0730	-0.5	-15			0653	0.3	9			0820	0.9	27	
	1817	0.9	27			1834	-0.5	-15			1219	7.7	235			1322	8.9	271			1253	8.4	256			1420	8.0	244	
											1837	0.5	15			2007	-0.5	-15			1927	0.2	6			2126	0.5	15	
9 Th	0006	7.6	232		24 F	0020	8.8	268		9 Su	0030	7.6	232		24 M	0151	8.0	244		9 W	0124	7.5	229		24 Th	0311	7.0	213	
	0644	0.3	9			0711	-0.9	-27			0647	0.2	6			0816	0.0	0			0735	0.4	12			0910	1.3	40	
	1241	7.2	219			1258	8.6	262			1248	7.9	241			1411	8.6	262			1337	8.4	256			1513	7.5	229	
	1832	0.9	27			1931	-0.5	-15			1911	0.4	12			2102	-0.1	-3			2013	0.3	9			2225	0.9	27	
10 F	0027	7.6	232		25 Sa	0116	8.5	259		10 M	0106	7.6	232		25 Tu	0246	7.5	229		10 Th	0211	7.3	223		25 F	0412	6.7	204	
	0653	0.3	9			0800	-0.7	-21			0722	0.2	6			0906	0.5	15			0823	0.6	18			1026	1.6	49	
	1258	7.3	223			1351	8.7	265			1324	8.0	244			1502	8.2	250			1426	8.2	250			1619	7.1	216	
	1900	0.8	24			2029	-0.3	-9			1952	0.4	12			2201	0.3	9			2106	0.6	18			○ 2325	1.2	37	
11 Sa	0057	7.5	229		26 Su	0214	8.1	247		11 Tu	0148	7.5	229		26 W	0345	7.1	216		11 F	0304	7.1	216		26 Sa	0517	6.5	198	
	0719	0.3	9			0851	-0.3	-9			0803	0.4	12			1005	1.0	30			0916	0.9	27			1139	1.8	55	
	1324	7.4	226			1446	8.6	262			1406	8.1	247			1600	7.8	238			1521	8.0	244			1734	6.9	210	
	1937	0.8	24			2130	-0.1	-3			2037	0.5	15			2302	0.6	18			○ 2209	0.8	24						
12 Su	0134	7.4	226		27 M	0313	7.7	235		12 W	0234	7.3	223		27 Th	0449	6.8	207		12 Sa	0403	6.9	210		27 Su	0023	1.2	37	
	0754	0.3	9			0945	0.1	3			0848	0.5	15			1111	1.3	40			1018	1.1	34			0620	6.5	198	
	1359	7.6	232			1542	8.3	253			1452	8.1	247			1706	7.4	226			1623	7.8	238			1241	1.7	52	
	2019	0.7	21			2233	0.1	3			2127	0.6	18			○					2336	0.9	27			1840	6.8	207	
13 M	0216	7.3	223		28 Tu	0416	7.2	219		13 Th	0325	7.1	216		28 F	0003	0.8	24		13 Su	0515	6.8	207		28 M	0117	1.2	37	
	0834	0.4	12			1044	0.5	15			0938	0.7	21																

Kings Point, Long Island, New York, 2009

Times and Heights of High and Low Waters

October				November				December																					
Time		Height		Time		Height		Time		Height		Time		Height															
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm															
1 Th	0328	0.7	21		16 F	0345	-0.4	-12		1 Su	0324	0.5	15		16 M	0456	0.0	0		1 Tu	0330	0.2	6		16 W	0523	0.2	6	
	0929	7.6	232			0936	8.9	271			0927	8.2	250			1044	8.7	265			0931	8.4	256			1112	8.0	244	
	1551	0.6	18			1617	-0.7	-21			1620	-0.1	-3			1734	-0.8	-24			1635	-0.5	-15			1758	-0.5	-15	
	2144	7.5	229			2204	8.2	250			2201	7.4	226			2320	7.5	229			2213	7.3	223			2346	7.1	216	
2 F	0359	0.5	15		17 Sa	0431	-0.4	-12		2 M	0401	0.3	9		17 Tu	0538	0.2	6		2 W	0419	0.0	0		17 Th	0601	0.3	9	
	0958	7.8	238			1020	9.1	277			0959	8.5	259			1124	8.4	256			1017	8.6	262			1148	7.7	235	
	1626	0.3	9			1705	-0.9	-27			1653	-0.3	-9			1817	-0.6	-18			1721	-0.7	-21			1836	-0.3	-9	
	2213	7.6	232			2250	8.2	250			2236	7.6	232			2320	7.5	229			2259	7.5	229						
3 Sa	0419	0.4	12		18 Su	0515	-0.3	-9		3 Tu	0441	0.2	6		18 W	0002	7.4	226		3 Th	0508	-0.2	-6		18 F	0024	7.0	213	
	1015	8.1	247			1102	9.1	277			1038	8.7	265			0616	0.5	15			1106	8.7	265			0632	0.5	15	
	1653	0.1	3			1251	-0.9	-27			1731	-0.4	-12			1201	8.1	247			1809	-0.7	-21			1220	7.5	229	
	2235	7.6	232			2335	8.0	244			2315	7.6	232			1857	-0.2	-6			2348	7.5	229			1909	0.0	0	
4 Su	0440	0.3	9		19 M	0556	0.0	0		4 W	0524	0.1	3		19 Th	0042	7.2	219		4 F	0600	-0.2	-6		19 Sa	0058	6.9	210	
	1035	8.3	253			1142	8.9	271			1121	8.7	265			0646	0.7	21			1158	8.6	262			0649	0.6	18	
	1718	-0.1	-3			1835	-0.6	-18			1813	-0.4	-12			1236	7.8	238			1900	-0.7	-21			1248	7.3	223	
	2302	7.7	235								1934	0.1	3			1934	0.1	3								1927	0.2	6	
5 M	0510	0.2	6		20 Tu	0018	7.7	235		5 Th	0000	7.6	232		20 F	0122	6.9	210		5 Sa	0041	7.5	229		20 Su	0127	6.8	207	
	1106	8.5	259			0634	0.3	9			0610	0.1	3			0706	0.9	27			0655	-0.1	-3			0711	0.7	21	
	1749	-0.2	-6			1221	8.5	259			1209	8.7	265			1311	7.5	229			1253	8.4	256			1317	7.1	216	
	2337	7.7	235			1918	-0.3	-9			1900	-0.3	-9			2005	0.5	15			1956	-0.5	-15			1940	0.3	9	
6 Tu	0547	0.2	6		21 W	0102	7.4	226		6 F	0049	7.5	229		21 Sa	0201	6.7	204		6 Su	0140	7.5	229		21 M	0153	6.7	204	
	1144	8.6	262			0707	0.7	21			0700	0.3	9			0736	1.1	34			0756	0.0	0			0747	0.8	24	
	1826	-0.2	-6			1300	8.1	247			1300	8.4	256			1348	7.2	219			1352	8.1	247			1352	7.0	213	
						2001	0.2	6			1954	-0.1	-3			2024	0.7	21			2059	-0.4	-12			2011	0.3	9	
7 W	0018	7.7	235		22 Th	0148	7.1	216		7 Sa	0144	7.3	223		22 Su	0241	6.6	201		7 M	0244	7.5	229		22 Tu	0225	6.7	204	
	0629	0.3	9			0736	1.1	34			0756	0.5	15			0818	1.3	40			0913	0.2	6			0830	0.8	24	
	1227	8.6	262			1341	7.7	235			1357	8.1	247			1429	6.9	210			1458	7.7	235			1433	6.8	207	
	1909	0.0	0			2046	0.6	18			2100	0.2	6			2056	0.9	27			2207	-0.2	-6			2051	0.4	12	
8 Th	0103	7.5	229		23 F	0236	6.8	207		8 Su	0246	7.2	219		23 M	0322	6.5	198		8 Tu	0354	7.5	229		23 W	0303	6.8	207	
	0714	0.5	15			0811	1.4	43			0902	0.7	21			0907	1.4	43			1040	0.3	9			0918	0.9	27	
	1315	8.5	259			1426	7.3	223			1500	7.7	235			1516	6.6	201			1615	7.3	223			1518	6.6	201	
	1958	0.2	6			2137	1.0	30			2223	0.3	9			2139	1.0	30			2313	-0.1	-3			2135	0.5	15	
9 F	0154	7.3	223		24 Sa	0330	6.6	201		9 M	0400	7.2	219		24 Tu	0408	6.5	198		9 W	0506	7.6	232		24 Th	0345	6.8	207	
	0805	0.7	21			0858	1.6	49			1038	0.8	24			1004	1.4	43			1153	0.1	3			1011	0.9	27	
	1408	8.2	250			1519	6.9	210			1616	7.4	226			1608	6.5	198			1737	7.0	213			1608	6.4	195	
	2056	0.5	15			2235	1.2	37			2338	0.3	9			2228	1.0	30								2224	0.6	18	
10 Sa	0251	7.1	216		25 Su	0430	6.5	198		10 Tu	0524	7.3	223		25 W	0458	6.6	201		10 Th	0015	0.0	0		25 F	0433	6.9	210	
	0903	0.9	27			1016	1.8	55			1208	0.6	18			1110	1.4	43			0614	7.8	238			1108	0.8	24	
	1506	7.9	241			1627	6.6	201			1750	7.3	223			1706	6.3	192			1258	-0.1	-3			1702	6.2	189	
	2212	0.7	21			2332	1.3	40								2319	1.0	30			1848	6.9	210			2316	0.7	21	
11 Su	0356	7.0	213		26 M	0533	6.5	198		11 W	0041	0.1	3		26 Th	0548	6.7	204		11 F	0114	0.0	0		26 Sa	0524	7.1	216	
	1014	1.1	34			1151	1.7	52			0637	7.7	235			1225	1.2	37			0715	8.0	244			1209	0.7	21	
	1614	7.6	232			1744	6.5	198			1316	0.2	6			1812	6.3	192			1357	-0.4	-12			1803	6.2	189	
	2352	0.7	21								1906	7.3	223								1950	7.0	213						
12 M	0522	7.0	213		27 Tu	0025	1.3	40		12 Th	0139	0.0	0		27 F	0011	0.9	27		12 Sa	0011	0.7	21						
	1201	1.0	30			0631	6.6	201			0737	8.1	247			0636	7.0	213			0811	8.2	250		0620	7.3	223		
	1743	7.5	229			1251	1.5	46			1415	-0.2	-6			1328	0.9	27			1452	-0.6	-18		1317	0.4	12		
						1847	6.6	201			2008	7.5	229			1913	6.4	195			2046	7.1	216		1907	6.3	192		
13 Tu	0103	0.4	12		28 W	0112	1.2	37		13 F	0233	-0.2	-6		28 Sa	0102	0.8	24		13 Su	0304	0.0	0						
	0650	7.4	226			0722	6.9	210			0830	8.5	259			0721	7.4	226			0901	8.2	250		0718	7.5	229		
	1325	0.6	18			1343	1.2	37			1510	-0.6	-18			1419	0.5	15			1544	-0.7	-21		1428	0.1	3		
	1916	7.6	232			1940	6																						

New York (The Battery), New York, 2009

Times and Heights of High and Low Waters

April				May				June																										
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height																					
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm																				
1 W	0647	0.4	12		16 Th	0035	4.3	131		1 F	0048	5.1	155		16 Sa	0043	4.3	131		1 M	0233	4.7	143		16 Tu	0126	4.2	128						
	1242	4.2	128			0712	1.0	30			0740	0.2	6			0722	1.0	30			0911	0.1	3			0805	0.8	24						
	1842	0.6	18			1322	3.7	113			1341	4.6	140			1334	4.0	122			1519	5.1	155			1519	5.1	155		1407	4.6	140		
2 Th	0051	4.9	149		17 F	0125	4.2	128		2 Sa	0152	4.9	149		17 Su	0128	4.2	128		2 Tu	0333	4.5	137		17 W	0217	4.1	125		17 Th	0859	0.7	21	
	0759	0.4	12			0814	1.1	34			0844	0.2	6			0817	1.0	30			1003	0.2	6			0859	0.7	21						
	1347	4.2	128			1413	3.7	113			1443	4.7	143			1418	4.1	125			1615	5.2	158			1455	4.8	146						
3 F	2005	0.7	21		18 Sa	2026	1.5	46		3 Su	2103	0.6	18		18 M	2045	1.5	46		3 W	2241	0.5	15		18 Th	2202	1.0	30						
	0200	4.8	146			0219	4.1	125			0256	4.8	146			0216	4.2	128			0433	4.3	131			0317	4.1	125						
	0907	0.3	9			0910	1.0	30			0941	0.1	3			0907	0.9	27			1052	0.2	6			0953	0.6	18						
4 Sa	1455	4.3	131		19 Su	1507	3.8	116		4 M	1544	4.9	149		19 Tu	1504	4.3	131		4 Th	1708	5.3	162		19 F	1549	5.1	155						
	2118	0.6	18			2128	1.4	43			2205	0.5	15			2143	1.2	37			2332	0.3	9			1648	5.4	165						
	0313	4.7	143			0316	4.1	125			0401	4.7	143			0310	4.1	125			0530	4.3	131			2351	0.3	9						
5 Su	1006	0.1	3		20 M	0959	0.9	27		5 Tu	1033	0.0	0		20 W	0953	0.7	21		5 F	1138	0.3	9		20 Sa	1046	0.4	12						
	1603	4.5	137			1602	4.0	122			1121	-0.1	-3			1630	4.6	140			1224	0.4	12			1140	0.2	6						
	2220	0.3	9			2221	1.1	34			1736	5.4	165			2235	0.9	27			1840	5.5	168			1745	5.7	174						
6 M	0424	4.8	146		21 Tu	0413	4.2	128		6 W	0501	4.7	143		21 Th	0408	4.2	128		6 Sa	0022	0.2	6		21 Su	0529	4.3	131						
	1100	-0.1	-3			1043	0.7	21			1121	-0.1	-3			1038	0.5	15			0621	4.3	131			0627	4.5	137						
	1706	4.8	146			1652	4.3	131			1736	5.4	165			1640	4.9	149			1224	0.4	12			1236	0.0	0						
7 Tu	2318	0.1	3		22 W	2309	0.8	24		7 Th	2353	0.1	3		22 F	2325	0.6	18		7 Su	1840	5.5	168		22 M	1840	5.9	180						
	0526	4.9	149			0506	4.3	131			0043	0.0	0			0016	0.3	9			0154	0.1	3			0138	-0.3	-9						
	1150	-0.3	-9			1125	0.5	15			0643	4.7	143			0559	4.5	137			0751	4.3	131			0722	4.7	143						
8 W	1759	5.2	158		23 Th	1734	4.7	143		8 F	1822	5.6	171		23 Sa	1727	5.3	162		8 M	1309	0.5	15		23 Tu	1333	-0.1	-3						
	0011	-0.2	-6			1812	5.1	155			1253	0.0	0			1858	5.9	180			1435	0.6	18			1933	6.1	186						
	0618	5.0	152			0044	0.2	6			1904	5.7	174			0106	-0.1	-3			2039	5.2	158			0230	-0.6	-18						
9 Th	1237	-0.4	-12		24 F	1248	0.1	3		9 Sa	0131	-0.1	-3		24 Su	0106	-0.1	-3		9 Tu	0237	0.1	3		24 W	0817	4.9	149						
	1846	5.5	168			1848	5.4	165			0216	-0.1	-3			0157	-0.3	-9			0834	4.3	131			0817	4.9	149						
	0102	-0.3	-9			0044	0.2	6			0811	4.6	140			0649	4.6	140			1435	0.6	18			1428	-0.3	-9						
10 F	0705	5.1	155		25 Sa	1322	-0.4	-12		10 Su	1336	0.1	3		25 M	1300	0.0	0		10 W	2039	5.2	158		25 Th	2027	6.1	186						
	1322	-0.4	-12			1848	5.4	165			1944	5.6	171			1858	5.9	180			2159	4.9	149			1522	-0.3	-9						
	1929	5.6	171			0130	-0.1	-3			0216	-0.1	-3			0157	-0.3	-9			2118	5.1	155			2123	6.0	183						
11 Sa	0749	5.0	152		26 Su	1331	0.0	0		11 M	1419	0.3	9		26 Tu	0157	-0.3	-9		11 Th	0318	0.1	3		26 F	0914	5.0	152						
	1406	-0.3	-9			1925	5.7	174			0811	4.6	140			0738	4.7	143			0918	4.2	128			0914	5.0	152						
	2010	5.7	174			0217	-0.3	-9			1419	0.3	9			1351	-0.1	-3			1515	0.7	21			1522	-0.3	-9						
12 Su	0832	4.9	149		27 M	1925	5.7	174		12 Tu	2023	5.5	168		27 W	1945	6.0	183		12 Th	2118	5.1	155		27 Sa	2123	6.0	183						
	1447	-0.2	-6			0217	-0.3	-9			0259	-0.1	-3			0247	-0.5	-15			2159	4.9	149			2223	5.8	177						
	2050	5.6	171			0758	4.8	146			0854	4.4	134			0830	4.8	146			2159	4.9	149			2223	5.8	177						
13 M	0402	-0.1	-3		28 Tu	1414	-0.1	-3		13 W	2102	5.3	162		28 Th	2036	6.0	183		13 Sa	0357	0.2	6		28 Su	0410	-0.7	-21						
	1051	4.2	128			2004	5.8	177			0340	0.1	3			0247	-0.5	-15			0435	0.3	9			0500	-0.6	-18						
	1642	0.7	21			0304	-0.4	-12			0939	4.3	131			0926	4.8	146			1049	4.1	125			1113	5.1	155						
14 Tu	2258	4.8	146		29 W	2048	5.8	177		14 Th	2142	5.1	155		29 F	2132	5.9	180		14 Su	1630	1.0	30		29 M	1710	0.0	0						
	0527	0.5	15			0351	-0.4	-12			1538	0.7	21			1534	-0.1	-3			2240	4.8	146			1710	0.0	0						
	1141	4.0	122			0935	4.7	143			2142	5.1	155			0427	-0.5	-15			2240	4.8	146			2322	5.5	168						
15 W	1720	1.0	30		30 Th	2139	5.7	174		15 F	0420	0.2	6		30 Sa	0427	-0.5	-15		15 M	0511	0.5	15		30 Tu	0551	-0.4	-12						
	2346	4.6	140			0543	-0.1	-3			0500	0.5	15			0427	-0.5	-15			0511	0.5	15			0551	-0.4	-12						
	0615	0.8	24			1138	4.5	137			1117	4.0	122			0520	-0.3	-9			1133	4.1	125			1209	5.2	158						
16 Th	1232	3.8	116		31 F	1545	0.0	0		16 Sa	1615	0.9	27		31 Su	1627	0.0	0		16 M	1706	1.2	37		31 Tu	1809	0.3	9						
	1806	1.3	40			2139	5.7	174			1652	1.1	34			1627	0.0	0			1706	1.2	37			1809	0.3	9						
	0615	0.8	24			2238	5.5	168			2312	4.7	143			2234	5.7	174			2321	4.6	140			2322	5.5	168						
17 F	1232	3.8	116		1 Sa	0635	0.1	3		1 M	0629	0.9	27		1 Tu	0037	5.2	158		17 W	0042	4.3	131		1 Th	0206	4.5	137						
	1806	1.3	40			1241	4.5	137			0629	0.9	27			0037	5.2	158			0042	4.3												

New York (The Battery), New York, 2009

Times and Heights of High and Low Waters

July			August			September																	
Time	Height		Time	Height		Time	Height		Time	Height													
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm									
1 W	0304	4.2	128	16 Th	0141	4.1	125	1 Sa	0439	3.9	119	16 Su	0343	4.1	125	1 Tu	0558	4.3	131	16 W	0546	5.1	155
	0932	0.4	12		0807	0.7	21		1045	1.0	30		1008	0.6	18		1154	0.9	27		1156	0.0	0
	1544	5.1	155		1412	5.0	152		1704	4.9	149		1606	5.3	162		1811	5.0	152		1803	5.7	174
	2218	0.7	21		2134	1.0	30		2333	0.7	21		2312	0.3	9								
2 Th	0405	4.0	122	17 F	0244	4.0	122	2 Su	0536	4.0	122	17 M	0456	4.4	134	2 W	0030	0.5	15	17 Th	0034	-0.4	-12
	1022	0.6	18		0917	0.6	18		1133	0.9	27		1110	0.3	9		0640	4.5	137		0637	5.5	168
	1638	5.1	155		1513	5.2	158		1754	5.0	152		1717	5.6	171		1238	0.7	21		1250	-0.2	-6
	2309	0.6	18		2233	0.7	21										1850	5.1	155		1853	5.8	177
3 F	0505	4.0	122	18 Sa	0356	4.1	125	3 M	0019	0.6	18	18 Tu	0006	0.0	0	3 Th	0110	0.3	9	18 F	0122	-0.6	-18
	1111	0.6	18		1021	0.5	15		0625	4.2	128		0559	4.8	146		0717	4.7	143		0725	5.8	177
	1730	5.1	155		1621	5.4	165		1220	0.8	24		1208	0.0	0		1321	0.6	18		1342	-0.4	-12
	2358	0.5	15		2330	0.3	9		1838	5.1	155		1817	5.9	180		1925	5.2	158		1940	5.7	174
4 Sa	0559	4.0	122	19 Su	0508	4.3	131	4 Tu	0103	0.4	12	19 W	0058	-0.4	-12	4 F	0147	0.2	6	19 Sa	0208	-0.6	-18
	1158	0.7	21		1121	0.2	6		0708	4.3	131		0654	5.2	158		0750	4.9	149		0810	6.0	183
	1817	5.2	158		1728	5.7	174		1305	0.7	21		1304	-0.3	-9		1403	0.5	15		1432	-0.4	-12
									1918	5.2	158		1909	6.0	183		1958	5.1	155		2026	5.6	171
5 Su	0045	0.4	12	20 M	0025	0.0	0	5 W	0144	0.3	9	20 Th	0148	-0.6	-18	5 Sa	0223	0.1	3	20 Su	0252	-0.5	-15
	0647	4.1	125		0612	4.6	140		0747	4.4	134		0745	5.5	168		0820	5.0	152		0856	5.9	180
	1244	0.7	21		1221	0.0	0		1348	0.6	18		1359	-0.4	-12		1443	0.4	12		1520	-0.3	-9
	1900	5.2	158		1827	5.9	180		1954	5.2	158		1959	6.0	183		2028	5.1	155		2113	5.3	162
6 M	0130	0.3	9	21 Tu	0119	-0.4	-12	6 Th	0223	0.2	6	21 F	0235	-0.7	-21	6 Su	0257	0.1	3	21 M	0335	-0.3	-9
	0731	4.2	128		0708	4.9	149		0824	4.5	137		0835	5.7	174		0847	5.1	155		0942	5.8	177
	1329	0.7	21		1318	-0.2	-6		1429	0.6	18		1450	-0.4	-12		1521	0.4	12		1607	0.0	0
	1940	5.2	158		1922	6.1	186		2028	5.2	158		2048	5.9	180		2100	4.9	149		2204	4.9	149
7 Tu	0213	0.2	6	22 W	0211	-0.6	-18	7 F	0259	0.1	3	22 Sa	0321	-0.7	-21	7 M	0328	0.2	6	22 Tu	0417	0.1	3
	0812	4.3	131		0802	5.1	155		0859	4.6	140		0925	5.8	177		0916	5.1	155		1031	5.5	168
	1412	0.7	21		1414	-0.4	-12		1507	0.6	18		1541	-0.3	-9		1559	0.5	15		1654	0.3	9
	2018	5.2	158		2015	6.1	186		2100	5.1	155		2139	5.6	171		2135	4.7	143		2257	4.6	140
8 W	0253	0.2	6	23 Th	0300	-0.8	-24	8 Sa	0333	0.2	6	23 Su	0405	-0.5	-15	8 Tu	0358	0.3	9	23 W	0459	0.5	15
	0853	4.3	131		0856	5.3	162		0931	4.6	140		1016	5.7	174		0950	5.2	158		1122	5.2	158
	1452	0.7	21		1507	-0.4	-12		1544	0.6	18		1630	-0.1	-3		1638	0.6	18		1744	0.6	18
	2055	5.1	155		2108	6.0	183		2132	4.9	149		2231	5.2	158		2217	4.5	137		2352	4.3	131
9 Th	0330	0.2	6	24 F	0348	-0.8	-24	9 Su	0403	0.2	6	24 M	0449	-0.2	-6	9 W	0430	0.4	12	24 Th	0546	1.0	30
	0934	4.3	131		0952	5.4	165		1002	4.7	143		1108	5.6	171		1033	5.2	158		1213	4.9	149
	1531	0.7	21		1559	-0.3	-9		1620	0.7	21		1721	0.3	9		1724	0.8	24		1841	1.0	30
	2131	5.0	152		2203	5.7	174		2205	4.7	143		2325	4.8	146		2310	4.3	131				
10 F	0406	0.2	6	25 Sa	0434	-0.7	-21	10 M	0431	0.3	9	25 Tu	0535	0.2	6	10 Th	0509	0.6	18	25 F	0047	4.1	125
	1014	4.3	131		1047	5.5	168		1033	4.7	143		1159	5.3	162		1125	5.1	155		0642	1.3	40
	1607	0.8	24		1652	-0.1	-3		1656	0.9	27		1816	0.6	18		1824	1.0	30		1306	4.7	143
	2206	4.8	146		2258	5.4	165		2243	4.5	137								1944		1.2	37	
11 Sa	0438	0.3	9	26 Su	0521	-0.4	-12	11 Tu	0459	0.4	12	26 W	0019	4.5	137	11 F	0010	4.2	128	26 Sa	0142	3.9	119
	1051	4.3	131		1142	5.4	165		1111	4.8	146		0625	0.7	21		0600	0.8	24		0749	1.5	46
	1642	1.0	30		1746	0.3	9		1738	1.0	30		1250	5.1	155		1225	5.1	155		1400	4.5	137
	2242	4.7	143		2353	5.0	152		2329	4.3	131		1917	0.9	27		1942	1.0	30		2046	1.2	37
12 Su	0508	0.4	12	27 M	0611	-0.1	-3	12 W	0533	0.6	18	27 Th	0113	4.2	128	12 Sa	0115	4.1	125	27 Su	0240	3.9	119
	1126	4.4	134		1234	5.3	162		1155	4.9	149		0723	1.0	30		0723	1.0	30		0853	1.5	46
	1719	1.1	34		1846	0.6	18		1839	1.1	34		1341	4.9	149		1331	5.1	155		1457	4.5	137
	2319	4.5	137								2021		1.1	34	2055		0.9	27	2141		1.1	34	
13 M	0538	0.5	15	28 Tu	0046	4.7	143	13 Th	0022	4.2	128	28 F	0209	4.0	122	13 Su	0224	4.2	128	28 M	0338	3.9	119
	1200	4.5	137		0705	0.3	9		0620	0.7	21		0827	1.3	40		0850	0.9	27		0950	1.4	43
	1804	1.2	37		1324	5.2	158		1247	5.0	152		1436	4.7	143		1442	5.1	155		1555	4.5	137
					1950	0.8	24		2000	1.1	34		2122	1.1	34		2157	0.6	18		2229	0.9	27
14 Tu	0001	4.3	131	29 W	0140	4.3	131	14 F	0121	4.1	125	29 Sa	0309	3.8	116	14 M	0337	4.3	131	29 Tu	0435	4.1	125
	0612	0.6	18		0802	0.6	18		0732	0.8	24		0926	1.3	40		0959	0.6	18		1039	1.2	37
	1237	4.6	140		1416	5.0	152		1344	5.1	155		1534	4.6	140		1557	5.2	158		1649	4.6	140
	1911	1.3	40		2054	0.9	27		2112	1.0	30		2216	1.0	30		2253	0.2	6		2311	0.7	21
15 W	0048	4.2	128	30 Th	0236	4.0	122	15 Sa	0228	4.0	122	30 Su	0411	3.9	119	15 Tu	0446	4.7	143	30 W	0524	4.4	134
	0700	0.7	21		0900	0.8	24		0858	0.8	24		1019	1.2	37		1059	0.3	9		1125	1.0	30
	1321	4.8	146		1510	4.9	149		1451	5.2	158		1633	4.7	143		1705	5.5	168		1736	4.8	146
	2027	1.2	37		2152	0.9	27		2215	0.7	21		2304	0.9	27		2344	-0.1	-3		2352	0.5	15
			31 F	0337	3.9	119																	
				0954	0.9	27																	

Bayonne Bridge, Staten Island, New York, 2009

Times and Heights of High and Low Waters

January				February				March															
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height										
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm									
1 Th	0452	0.5	15	16 F	0005	5.2	158	1 Su	0558	0.4	12	16 M	0104	4.8	146	1 Su	0505	0.0	0	16 M	0554	0.4	12
	1034	4.8	146		0612	-0.1	-3		1148	4.5	137		0729	0.7	21		1039	4.8	146		1159	4.3	131
	1724	0.0	0		1216	4.9	149		1806	0.0	0		1323	4.0	122		1705	-0.2	-6		1747	0.7	21
	2312	4.4	134		1839	-0.3	-9		1859	0.2	6		1928	0.8	24		2258	5.4	165				
2 F	0529	0.6	18	17 Sa	0056	5.0	152	2 M	0016	5.0	152	17 Tu	0154	4.5	137	2 M	0550	0.2	6	17 Tu	0019	4.8	146
	1121	4.6	140		0710	0.3	9		0659	0.6	18		0838	0.9	27		1134	4.5	137		0642	0.8	24
	1757	0.1	3		1307	4.5	137		1246	4.3	131		1417	3.8	116		1746	0.1	3		1251	4.0	122
	2359	4.5	137		1931	0.1	3		1859	0.2	6		2038	1.0	30		2353	5.3	162		1825	1.1	34
3 Sa	0616	0.7	21	18 Su	0145	4.9	149	3 Tu	0114	5.0	152	18 W	0248	4.4	134	3 Tu	0651	0.5	15	18 W	0110	4.5	137
	1213	4.5	137		0815	0.6	18		0829	0.6	18		0944	0.9	27		1236	4.3	131		0747	1.1	34
	1840	0.2	6		1358	4.1	125		1350	4.1	125		1516	3.6	110		1841	0.3	9		1441	3.8	119
					2029	0.4	12		2017	0.3	9		2145	1.0	30						1931	1.4	43
4 Su	0050	4.7	143	19 M	0236	4.7	143	4 W	0217	5.1	155	19 Th	0348	4.3	131	4 W	0055	5.2	158	19 Th	0203	4.4	134
	0725	0.8	24		0921	0.7	21		0950	0.4	12		1040	0.8	24		0815	0.6	18		0859	1.2	37
	1310	4.3	131		1452	3.9	119		1501	4.1	125		1621	3.7	113		1343	4.2	128		1441	3.8	116
	1938	0.2	6		2128	0.6	18		2141	0.2	6		2241	0.9	27		2004	0.5	15		2100	1.4	43
5 M	0145	4.9	149	20 Tu	0330	4.6	140	5 Th	0330	5.2	158	20 F	0451	4.4	134	5 Th	0203	5.1	155	20 F	0302	4.3	131
	0855	0.7	21		1020	0.6	18		1055	0.1	3		1129	0.6	18		0934	0.5	15		1000	1.0	30
	1411	4.2	128		1551	3.7	113		1619	4.2	128		1722	3.9	119		1455	4.2	128		1542	3.9	119
	2051	0.2	6		2222	0.6	18		2250	-0.1	-3		2332	0.7	21		2131	0.4	12		2207	1.3	40
6 Tu	0244	5.1	155	21 W	0427	4.6	140	6 F	0447	5.4	165	21 Sa	0546	4.7	143	6 F	0318	5.2	158	21 Sa	0406	4.4	134
	1008	0.4	12		1112	0.5	15		1154	-0.3	-9		1214	0.3	9		1038	0.1	3		1050	0.8	24
	1520	4.2	128		1654	3.8	116		1732	4.5	137		1813	4.2	128		1610	4.4	134		1643	4.1	125
	2201	0.0	0		2312	0.6	18		2352	-0.4	-12						2240	0.1	3		2301	1.0	30
7 W	0351	5.3	162	22 Th	0524	4.7	143	7 Sa	0555	5.7	174	22 Su	0019	0.4	12	7 Sa	0434	5.3	162	22 Su	0505	4.6	140
	1111	0.0	0		1200	0.3	9		1248	-0.7	-21		0632	4.9	149		1135	-0.2	-6		1135	0.5	15
	1634	4.3	131		1751	3.9	119		1833	5.0	152		1257	0.0	0		1719	4.8	146		1736	4.5	137
	2304	-0.2	-6		2359	0.4	12						1856	4.5	137		2341	-0.2	-6		2349	0.6	18
8 Th	0502	5.6	171	23 F	0615	4.9	149	8 Su	0050	-0.7	-21	23 M	0105	0.2	6	8 Su	0541	5.6	171	23 M	0555	4.9	149
	1210	-0.4	-12		1246	0.1	3		0652	6.0	183		0711	5.1	155		1227	-0.6	-18		1217	0.2	6
	1744	4.5	137		1839	4.1	125		1340	-1.1	-34		1338	-0.2	-6		1817	5.3	162		1820	4.8	146
									1925	5.4	165		1932	4.8	146								
9 F	0004	-0.5	-15	24 Sa	0045	0.3	9	9 M	0146	-1.0	-30	24 Tu	0148	0.0	0	9 M	0037	-0.5	-15	24 Tu	0036	0.3	9
	0607	5.9	180		0658	5.0	152		0743	6.2	189		0745	5.3	162		0637	5.8	177		0637	5.1	155
	1306	-0.8	-24		1329	-0.1	-3		1429	-1.3	-40		1416	-0.4	-12		1316	-0.8	-24		1258	0.0	0
	1845	4.9	149		1921	4.3	131		2014	5.6	171		2003	5.0	152		1908	5.7	174		1857	5.2	158
10 Sa	0103	-0.8	-24	25 Su	0129	0.2	6	10 Tu	0238	-1.1	-34	25 W	0230	-0.2	-6	10 Tu	0130	-0.8	-24	25 W	0122	0.0	0
	0704	6.2	189		0736	5.2	158		0830	6.1	186		0815	5.3	162		0725	6.0	183		0714	5.3	162
	1400	-1.1	-34		1410	-0.3	-9		1515	-1.4	-43		1452	-0.5	-15		1403	-1.0	-30		1338	-0.2	-6
	1939	5.2	158		1959	4.4	134		2101	5.7	174		2032	5.2	158		1953	6.0	183		1929	5.5	168
11 Su	0159	-1.0	-30	26 M	0211	0.0	0	11 W	0327	-1.1	-34	26 Th	0310	-0.3	-9	11 W	0220	-0.9	-27	26 Th	0206	-0.2	-6
	0756	6.4	195		0809	5.2	158		0916	5.9	180		0845	5.3	162		0810	5.9	180		0748	5.3	162
	1451	-1.3	-40		1448	-0.4	-12		1557	-1.2	-37		1526	-0.5	-15		1447	-1.0	-30		1417	-0.3	-9
	2031	5.4	165		2032	4.5	137		2149	5.7	174		2100	5.3	162		2036	6.1	186		2000	5.8	177
12 M	0253	-1.1	-34	27 Tu	0251	0.0	0	12 Th	0413	-0.9	-27	27 F	0348	-0.3	-9	12 Th	0307	-0.9	-27	27 F	0250	-0.3	-9
	0846	6.3	192		0839	5.2	158		1003	5.6	171		0917	5.1	155		0853	5.7	174		0822	5.3	162
	1539	-1.4	-43		1523	-0.5	-15		1637	-0.9	-27		1558	-0.5	-15		1528	-0.8	-24		1456	-0.4	-12
	2123	5.4	165		2101	4.6	140		2237	5.5	168		2132	5.4	165		2119	6.0	183		2032	5.9	180
13 Tu	0344	-1.1	-34	28 W	0328	-0.1	-3	13 F	0457	-0.6	-18	28 Sa	0425	-0.2	-6	13 F	0351	-0.7	-21	28 Sa	0332	-0.4	-12
	0937	6.1	186		0906	5.1	155		1052	5.2	158		0954	5.0	152		0936	5.4	165		0859	5.3	162
	1624	-1.3	-40		1555	-0.5	-15		1716	-0.5	-15		1631	-0.3	-9		1606	-0.5	-15		1533	-0.3	-9
	2216	5.4	165		2128	4.7	143		2327	5.3	162		2211	5.4	165		2201	5.7	174		2109	6.0	183
14 W	0433	-0.9	-27	29 Th	0403	0.0	0	14 Sa	0542	-0.1	-3	14 Sa	0432	-0.4	-12	14 Sa	0432	-0.4	-12	29 Su	0414	-0.3	-9
	1030	5.7	174		0936	5.0	152		1142	4.7	143		1021	5.0	152		1021	5.0	152		0941	5.1	155
	1708	-1.1	-34		1626	-0.4	-12		1755	-0.1	-3		1641	-0.1	-3		1641	-0.1	-3		1612	-0.2	-6
	2311	5.3	162		2159	4.7	143						2245	5.4	165						2151	5.9	180
15 Th	0521	-0.5	-15	30 F	0438	0.1	3	15 Su	0015	5.0	152	15 Su	0513	0.0	0	15 Su	0513	0.0	0	30 M	0458	-0.1	-3
	1123	5.3	162		1012	4.9	149		0630	0.3	9		1108	4.6	140		1108	4.6	140		1031	4.9	149
	1752	-0.7	-21		1655	-0.3	-9		1232	4.3	131		1714	0.3	9		1714	0.3	9		1652	0.0	0
					2238	4.8	146		1836	0.4	12		2331	5.1	155		2331	5.1	155		2242	5.8	177
			31 Sa	0515	0.2	6										31 Tu	0547	0.1	3				
				1056																			

Bayonne Bridge, Staten Island, New York, 2009

Times and Heights of High and Low Waters

July				August				September																				
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height															
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm														
1 W	0259	4.7	143		16 Th	0141	4.6	140		1 Sa	0427	4.3	131		16 Su	0336	4.6	140		1 Tu	0552	4.6	140		16 W	0543	5.6	171
	0938	0.5	15			0805	0.7	21			1050	1.0	30			1010	0.6	18			1159	1.0	30			1204	0.0	0
	1539	5.6	171			1412	5.5	168			1659	5.3	162			1601	5.9	180			1810	5.4	165			1801	6.2	189
	2225	0.7	21			2135	1.1	34			2341	0.8	24			2321	0.3	9										
2 Th	0356	4.5	137		17 F	0242	4.5	137		2 Su	0526	4.3	131		17 M	0451	4.8	146		2 W	0037	0.5	15		17 Th	0045	-0.4	-12
	1029	0.6	18			0917	0.6	18			1138	1.0	30			1115	0.3	9			0637	4.9	149			0637	6.0	183
	1633	5.6	171			1512	5.7	174			1751	5.4	165			1714	6.1	186			1244	0.8	24			1259	-0.3	-9
	2318	0.6	18			2240	0.7	21													1851	5.5	168			1853	6.3	192
3 F	0455	4.4	134		18 Sa	0352	4.5	137		3 M	0027	0.6	18		18 Tu	0017	-0.1	-3		3 Th	0118	0.3	9		18 F	0134	-0.6	-18
	1117	0.7	21			1024	0.4	12			0619	4.5	137			0558	5.2	158			0715	5.1	155			0725	6.3	192
	1726	5.6	171			1619	6.0	183			1225	0.9	27			1216	0.0	0			1329	0.6	18			1353	-0.5	-15
						2339	0.3	9			1838	5.5	168			1816	6.4	195			1927	5.6	171			1941	6.3	192
4 Sa	0007	0.6	18		19 Su	0506	4.7	143		4 Tu	0111	0.5	15		19 W	0110	-0.4	-12		4 F	0156	0.2	6		19 Sa	0220	-0.7	-21
	0551	4.5	137			1127	0.2	6			0704	4.7	143			0655	5.7	174			0749	5.3	162			0811	6.5	198
	1203	0.7	21			1728	6.2	189			1310	0.8	24			1314	-0.3	-9			1412	0.5	15			1443	-0.5	-15
	1815	5.6	171								1918	5.6	171			1911	6.6	201			1959	5.6	171			2026	6.2	189
5 Su	0054	0.5	15		20 M	0037	0.0	0		5 W	0153	0.3	9		20 Th	0201	-0.7	-21		5 Sa	0233	0.1	3		20 Su	0304	-0.6	-18
	0641	4.6	140			0612	5.0	152			0744	4.9	149			0746	6.0	183			0818	5.5	168			0856	6.5	198
	1249	0.8	24			1229	0.0	0			1355	0.7	21			1410	-0.5	-15			1452	0.4	12			1531	-0.4	-12
	1859	5.7	174			1830	6.5	198			1954	5.6	171			2001	6.6	201			2028	5.5	168			2112	5.9	180
6 M	0140	0.4	12		21 Tu	0132	-0.4	-12		6 Th	0232	0.2	6		21 F	0249	-0.9	-27		6 Su	0307	0.1	3		21 M	0346	-0.3	-9
	0726	4.6	140			0710	5.4	165			0820	5.0	152			0835	6.2	189			0844	5.6	171			0941	6.3	192
	1335	0.8	24			1329	-0.3	-9			1436	0.6	18			1503	-0.6	-18			1531	0.4	12			1617	-0.1	-3
	1939	5.7	174			1925	6.7	204			2026	5.6	171			2049	6.5	198			2057	5.4	165			2200	5.5	168
7 Tu	0223	0.3	9		22 W	0225	-0.7	-21		7 F	0308	0.1	3		22 Sa	0334	-0.9	-27		7 M	0340	0.1	3		22 Tu	0426	0.0	0
	0808	4.7	143			0804	5.7	174			0853	5.0	152			0925	6.3	192			0913	5.6	171			1030	6.0	183
	1418	0.8	24			1426	-0.4	-12			1515	0.6	18			1552	-0.5	-15			1609	0.5	15			1702	0.2	6
	2016	5.7	174			2017	6.7	204			2055	5.5	168			2138	6.2	189			2131	5.2	158			2252	5.1	155
8 W	0302	0.2	6		23 Th	0314	-0.9	-27		8 Sa	0341	0.1	3		23 Su	0417	-0.7	-21		8 Tu	0412	0.2	6		23 W	0505	0.4	12
	0847	4.7	143			0857	5.9	180			0921	5.1	155			1016	6.2	189			0947	5.7	174			1121	5.6	171
	1459	0.8	24			1520	-0.5	-15			1552	0.6	18			1640	-0.2	-6			1647	0.6	18			1747	0.6	18
	2050	5.6	171			2109	6.6	201			2123	5.4	165			2230	5.8	177			2212	5.0	152			2347	4.7	143
9 Th	0339	0.2	6		24 F	0401	-1.0	-30		9 Su	0412	0.1	3		24 M	0459	-0.3	-9		9 W	0444	0.3	9		24 Th	0544	0.9	27
	0924	4.7	143			0952	6.0	183			0949	5.1	155			1108	6.0	183			1031	5.7	174			1213	5.3	162
	1536	0.8	24			1611	-0.4	-12			1627	0.7	21			1728	0.2	6			1729	0.8	24			1839	1.0	30
	2121	5.4	165			2203	6.3	192			2155	5.2	158			2324	5.3	162			2303	4.8	146					
10 F	0412	0.2	6		25 Sa	0446	-0.8	-24		10 M	0440	0.2	6		25 Tu	0541	0.1	3		10 Th	0522	0.5	15		25 F	0042	4.4	134
	0959	4.7	143			1047	6.0	183			1022	5.2	158			1200	5.8	177			1124	5.7	174			0629	1.3	40
	1612	0.9	27			1702	-0.2	-6			1702	0.8	24			1819	0.6	18			1822	1.0	30			1306	5.1	155
	2151	5.3	162			2258	6.0	183			2235	5.0	152													1941	1.3	40
11 Sa	0443	0.3	9		26 Su	0531	-0.5	-15		11 Tu	0510	0.3	9		26 W	0018	4.9	149		11 F	0004	4.6	140		26 Sa	0136	4.3	131
	1033	4.7	143			1143	5.9	180			1103	5.3	162			0625	0.6	18			0609	0.7	21			0732	1.6	49
	1646	1.0	30			1754	0.1	3			1742	1.0	30			1252	5.5	168			1224	5.6	171			1359	4.9	149
	2225	5.1	155			2354	5.6	171			2323	4.8	146			1917	1.0	30			1937	1.1	34			2047	1.4	43
12 Su	0512	0.4	12		27 M	0617	-0.2	-6		12 W	0544	0.5	15		27 Th	0111	4.6	140		12 Sa	0110	4.6	140		27 Su	0231	4.2	128
	1108	4.8	146			1236	5.8	177			1152	5.4	165			0718	1.0	30			0717	0.9	27			0847	1.6	49
	1721	1.1	34			1850	0.5	15			1833	1.1	34			1342	5.3	162			1329	5.6	171			1453	4.8	146
	2306	5.0	152												2023	1.2	37			2058	1.0	30			2145	1.2	37	
13 M	0542	0.4	12		28 Tu	0047	5.2	158		13 Th	0018	4.7	143		28 F	0204	4.4	134		13 Su	0219	4.6	140		28 M	0327	4.3	131
	1147	4.9	149			0707	0.3	9			0628	0.6	18			0822	1.3	40			0847	0.9	27					

Bayonne Bridge, Staten Island, New York, 2009

Times and Heights of High and Low Waters

October				November				December															
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height										
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm									
1 Th	0602	5.1	155	16 F	0019	-0.4	-12	1 Su	0036	0.1	3	16 M	0124	-0.2	-6	1 Tu	0048	-0.2	-6	16 W	0146	0.0	0
	1216	0.7	21		0617	6.2	189		0636	5.8	177		0725	6.2	189		0645	6.0	183		0747	5.6	171
	1818	5.3	162		1243	-0.3	-9		1320	0.1	3		1405	-0.3	-9		1347	-0.3	-9		1430	-0.3	-9	1430	-0.3	-9
				1833	5.9	180	1900	5.2	158	1945	5.1	155	1919	4.9	149	2011	4.6	140	2011	4.6	140		
2 F	0037	0.3	9	17 Sa	0105	-0.5	-15	2 M	0119	0.0	0	17 Tu	0208	-0.1	-3	2 W	0138	-0.3	-9	17 Th	0228	0.1	3
	0640	5.4	165		0703	6.4	195		0711	6.1	186		0805	6.1	186		0729	6.2	189		0825	5.5	168
	1301	0.5	15		1335	-0.4	-12		1407	-0.1	-3		1450	-0.3	-9		1437	-0.6	-18		1511	-0.3	-9	1511	-0.3	-9
	1855	5.4	165	1920	5.8	177	1938	5.2	158	2028	5.0	152	2005	5.0	152	2051	4.5	137	2051	4.5	137		
3 Sa	0117	0.2	6	18 Su	0151	-0.4	-12	3 Tu	0203	-0.1	-3	18 W	0250	0.1	3	3 Th	0229	-0.4	-12	18 F	0308	0.2	6
	0713	5.7	174		0747	6.5	198		0747	6.2	189		0845	5.8	177		0814	6.3	192		0902	5.4	165
	1346	0.3	9		1424	-0.4	-12		1454	-0.2	-6		1533	-0.1	-3		1526	-0.7	-21		1549	-0.2	-6	1549	-0.2	-6
	1929	5.5	168	2004	5.7	174	2018	5.2	158	2110	4.8	146	2054	5.0	152	2132	4.4	134	2132	4.4	134		
4 Su	0155	0.1	3	19 M	0235	-0.3	-9	4 W	0247	-0.1	-3	19 Th	0330	0.3	9	4 F	0320	-0.5	-15	19 Sa	0344	0.3	9
	0743	5.9	180		0828	6.4	195		0826	6.3	192		0924	5.6	171		0902	6.2	189		0938	5.1	155
	1429	0.2	6		1510	-0.3	-9		1540	-0.2	-6		1613	0.1	3		1613	-0.7	-21		1613	-0.7	-21
	2002	5.4	165	2048	5.4	165	2102	5.1	155	2155	4.5	137	2148	5.0	152	2213	4.3	131	2213	4.3	131		
5 M	0233	0.0	0	20 Tu	0317	0.0	0	5 Th	0332	-0.1	-3	20 F	0406	0.6	18	5 Sa	0409	-0.4	-12	20 Su	0418	0.5	15
	0812	6.0	183		0910	6.1	186		0910	6.2	189		1005	5.3	162		0956	6.0	183		1014	4.9	149
	1512	0.1	3		1554	-0.1	-3		1626	-0.2	-6		1651	0.3	9		1701	-0.7	-21		1657	0.1	3
	2035	5.3	162	2133	5.1	155	2153	4.9	149	2244	4.3	131	2249	5.0	152	2254	4.2	128	2254	4.2	128		
6 Tu	0311	0.1	3	21 W	0356	0.3	9	6 F	0418	0.0	0	21 Sa	0440	0.8	24	6 Su	0501	-0.3	-9	21 M	0450	0.6	18
	0845	6.1	186		0953	5.8	177		1001	6.0	183		1050	5.0	152		1057	5.8	177		1051	4.7	143
	1553	0.2	6		1636	0.2	6		1715	0.0	0		1728	0.5	15		1752	-0.5	-15		1727	0.2	6
	2113	5.2	158	2221	4.8	146	2255	4.8	146	2336	4.1	125	2353	5.0	152	2335	4.1	125	2335	4.1	125		
7 W	0348	0.1	3	22 Th	0433	0.6	18	7 Sa	0507	0.2	6	22 Su	0515	1.0	30	7 M	0556	0.0	0	22 Tu	0524	0.8	24
	0924	6.0	183		1040	5.5	168		1102	5.8	177		1138	4.8	146		1201	5.5	168		1131	4.5	137
	1636	0.3	9		1718	0.5	15		1809	0.1	3		1807	0.7	21		1846	-0.3	-9		1759	0.4	12
	2159	5.0	152	2315	4.5	137																	
8 Th	0428	0.3	9	23 F	0508	1.0	30	8 Su	0003	4.8	146	23 M	0026	4.1	125	8 Tu	0052	5.1	155	23 W	0015	4.2	128
	1010	5.9	180		1132	5.1	155		0603	0.5	15		0555	1.2	37		0701	0.2	6		0605	1.0	30
	1723	0.5	15		1802	0.9	27		1210	5.6	171		1227	4.6	140		1301	5.3	162		1215	4.3	131
	2255	4.8	146				1911	0.2	6	1852	0.9	27	1947	-0.2	-6	1836	0.5	15	1836	0.5	15		
9 F	0511	0.5	15	24 Sa	0011	4.3	131	9 M	0107	4.8	146	24 Tu	0113	4.1	125	9 W	0149	5.2	158	24 Th	0055	4.3	131
	1108	5.8	177		0546	1.3	40		0714	0.6	18		0650	1.4	43		0812	0.4	12		0702	1.1	34
	1818	0.7	21		1225	4.9	149		1316	5.4	165		1314	4.4	134		1359	5.0	152		1303	4.2	128
				1853	1.1	34	2017	0.2	6	1947	0.9	27	2048	-0.1	-3	1926	0.6	18	1926	0.6	18		
10 Sa	0003	4.6	140	25 Su	0105	4.2	128	10 Tu	0208	5.0	152	25 W	0158	4.2	128	10 Th	0245	5.2	158	25 F	0138	4.4	134
	0604	0.7	21		0636	1.5	46		0831	0.7	21		0810	1.4	43		0922	0.3	9		0826	1.1	34
	1214	5.6	171		1318	4.7	143		1418	5.3	162		1402	4.4	134		1457	4.8	146		1354	4.1	125
	1927	0.8	24	1954	1.2	37	2119	0.1	3	2045	0.8	24	2145	-0.1	-3	2029	0.5	15	2029	0.5	15		
11 Su	0111	4.6	140	26 M	0157	4.2	128	11 W	0307	5.2	158	26 Th	0242	4.4	134	11 F	0341	5.3	162	26 Sa	0227	4.6	140
	0717	0.9	27		0753	1.7	52		0940	0.5	15		0923	1.2	37		1023	0.2	6		0941	0.9	27
	1323	5.5	168		1409	4.6	140		1520	5.2	158		1453	4.3	131		1557	4.6	140		1453	4.0	122
	2041	0.7	21	2055	1.2	37	2214	-0.1	-3	2138	0.7	21	2138	-0.1	-3	2133	0.4	12	2133	0.4	12		
12 M	0217	4.8	146	27 Tu	0248	4.3	131	12 Th	0406	5.5	168	27 F	0330	4.7	143	12 Sa	0438	5.4	165	27 Su	0323	4.9	149
	0842	0.9	27		0908	1.6	49		1041	0.2	6		1022	0.9	27		1118	0.0	0		1043	0.6	18
	1430	5.5	168		1501	4.6	140		1621	5.2	158		1550	4.3	131		1658	4.5	137		1559	4.0	122
	2145	0.4	12	2147	1.0	30	2304	-0.2	-6	2226	0.5	15	2327	-0.1	-3	2232	0.2	6	2232	0.2	6		
13 Tu	0322	5.0	152	28 W	0340	4.5	137	13 F	0503	5.7	174	28 Sa	0421	5.0	152	13 Su	0533	5.5	168	28 M	0425	5.2	158
	0954	0.6	18		1007	1.3	40		1135	0.0	0		1114	0.6	18		1209	-0.1	-3		1139	0.2	6
	1538	5.6	171		1555	4.7	143		1720	5.2	158		1648	4.4	134		1754	4.6	140		1708	4.2	128
	2240	0.1	3	2232	0.8	24	2352	-0.3	-9	2312	0.2	6				2328	0.0	0	2328	0.0	0		
14 W	0426	5.4	165	29 Th	0431	4.7	143	14 Sa	0555	6.0	183	29 Su	0512	5.3	162	14 M	0014	-0.1	-3	29 Tu	0528	5.5	168
	1055	0.3	9		1058	1.0	30		1227	-0.2	-6		1205	0.3	9		0622	5.6	171		1234	-0.2	-6
	1643	5.7	174		1648	4.8	146		1813	5.2	158		1743	4.6	140		1259	-0.2	-6		1809	4.5	137
	2331	-0.2	-6	2314	0.5	15				2359	0.0	0	1844	4.6	140								
15 Th	0524	5.8	177	30 F	0517	5.1	155	15 Su	0038	-0.3	-9	30 M	0600	5.7	174	15 Tu	0101	0.0	0	30 W	0024	-0.3	-9
	1150	0.0	0		1146	0.7	21		0642	6.1	186		1256	-0.1	-3		0706	5.7	174		062		

Albany, New York, 2009

Times and Heights of High and Low Waters

January				February				March																					
Time	Height			Time	Height			Time	Height			Time	Height																
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm		h	m	ft	cm										
1 Th	0230	-0.2	-6		16 F	0304	-0.5	-15		1 Su	0320	0.0	0		16 M	0411	0.2	6		1 Su	0204	0.2	6		16 M	0249	0.5	15	
	0753	4.3	131			0857	4.9	149			0855	5.0	152			1006	5.2	158			0741	5.5	168			0840	5.6	171	
	1443	0.6	18			1531	0.1	3			1604	0.7	21			1653	0.4	12			1446	0.7	21			1529	0.5	15	
	2001	4.8	146			2106	4.5	137			2102	4.4	134			2220	4.0	122			1952	4.7	143			2054	4.4	134	
2 F	0312	-0.1	-3		17 Sa	0354	-0.3	-9		2 M	0410	0.1	3		17 Tu	0503	0.4	12		2 M	0249	0.3	9		17 Tu	0338	0.6	18	
	0837	4.4	134			0950	4.9	149			0951	5.1	155			1100	5.2	158			0830	5.5	168			0928	5.5	168	
	1534	0.6	18			1627	0.2	6			1703	0.7	21			1748	0.5	15			1541	0.7	21			1621	0.6	18	
	2044	4.6	140			2159	4.2	128			2201	4.2	128			2317	3.9	119			2043	4.5	137			2144	4.2	128	
3 Sa	0357	-0.1	-3		18 Su	0445	-0.1	-3		3 Tu	0506	0.2	6		18 W	0557	0.5	15		3 Tu	0342	0.4	12		18 W	0430	0.7	21	
	0927	4.6	140			1044	5.0	152			1052	5.2	158			1156	5.2	158			0925	5.5	168			1021	5.4	165	
	1631	0.7	21			1724	0.2	6			1804	0.6	18			1843	0.4	12			1639	0.7	21			1714	0.7	21	
	2133	4.4	134			2256	3.9	119			2310	4.0	122			2317	3.9	119			2144	4.3	131			2240	4.1	125	
4 Su	0446	0.0	0		19 M	0538	0.0	0		4 W	0606	0.2	6		19 Th	0016	3.8	116		4 W	0441	0.4	12		19 Th	0524	0.8	24	
	1023	4.8	146			1139	5.0	152			1157	5.3	162			0652	0.5	15			1028	5.5	168			1116	5.3	162	
	1730	0.6	18			1821	0.2	6			1904	0.4	12			1251	5.2	158			1740	0.7	21			1808	0.7	21	
	2231	4.1	125			2355	3.7	113			2003	0.2	6			1937	0.4	12			2255	4.2	128			2338	4.1	125	
5 M	0538	0.0	0		20 Tu	0631	0.1	3		5 Th	0023	3.9	119		20 F	0113	3.8	116		5 Th	0544	0.4	12		20 F	0619	0.8	24	
	1122	4.9	149			1234	5.1	155			0706	0.1	3			0745	0.5	15			1135	5.5	168			1212	5.3	162	
	1830	0.5	15			1916	0.1	3			1302	5.4	165			1345	5.3	162			1841	0.6	18			1902	0.6	18	
	2337	4.0	122			2010	0.0	0			2003	0.2	6			2029	0.2	6			1841	0.6	18			1902	0.6	18	
6 Tu	0634	0.0	0		21 W	0053	3.6	110		6 F	0131	4.0	122		21 Sa	0208	3.9	119		6 F	0007	4.2	128		21 Sa	0036	4.2	128	
	1224	5.1	155			0724	0.1	3			0806	0.0	0			0837	0.4	12			0647	0.4	12			0714	0.8	24	
	1929	0.3	9			1328	5.1	155			1404	5.5	168			1435	5.4	165			1242	5.5	168			1306	5.3	162	
						2010	0.0	0			2059	0.0	0			2117	0.1	3			1939	0.4	12			1953	0.5	15	
7 W	0045	3.9	119		22 Th	0149	3.6	110		7 Sa	0235	4.2	128		22 Su	0258	4.1	125		7 Sa	0116	4.4	134		22 Su	0132	4.3	131	
	0730	-0.1	-3			0816	0.1	3			0903	-0.1	-3			0926	0.4	12			0748	0.3	9			0807	0.7	21	
	1325	5.3	162			1419	5.2	158			1501	5.7	174			1521	5.4	165			1344	5.6	171			1358	5.3	162	
	2026	0.1	3			2100	-0.1	-3			2151	-0.3	-9			2203	0.0	0			2035	0.1	3			2042	0.4	12	
8 Th	0150	3.9	119		23 F	0241	3.7	113		8 Su	0333	4.4	134		23 M	0344	4.3	131		8 Su	0218	4.6	140		23 M	0223	4.5	137	
	0826	-0.2	-6			0905	0.1	3			0958	-0.2	-6			1013	0.4	12			0846	0.1	3			0858	0.7	21	
	1423	5.5	168			1507	5.3	162			1555	5.7	174			1603	5.4	165			1442	5.6	171			1446	5.3	162	
	2121	-0.2	-6			2149	-0.2	-6			2242	-0.5	-15			2246	0.0	0			2127	-0.1	-3			2128	0.3	9	
9 F	0251	4.0	122		24 Sa	0329	3.8	116		9 M	0427	4.6	140		24 Tu	0426	4.5	137		9 M	0316	4.9	149		24 Tu	0311	4.8	146	
	0921	-0.3	-9			0953	0.1	3			1050	-0.3	-9			1058	0.4	12			0941	0.0	0			0947	0.6	18	
	1519	5.7	174			1551	5.4	165			1645	5.7	174			1643	5.4	165			1536	5.6	171			1531	5.3	162	
	2213	-0.4	-12			2234	-0.2	-6			2330	-0.6	-18			2327	0.0	0			2217	-0.2	-6			2212	0.2	6	
10 Sa	0349	4.1	125		25 Su	0413	3.9	119		10 Tu	0518	4.9	149		25 W	0505	4.7	143		10 Tu	0408	5.2	158		25 W	0354	5.0	152	
	1014	-0.4	-12			1039	0.1	3			1142	-0.3	-9			1142	0.4	12			1034	-0.1	-3			1033	0.5	15	
	1611	5.8	177			1632	5.4	165			1733	5.6	171			1720	5.3	162			1626	5.6	171			1612	5.3	162	
	2304	-0.6	-18			2317	-0.3	-9													2304	-0.3	-9			2254	0.2	6	
11 Su	0443	4.3	131		26 M	0454	4.0	122		11 W	0016	-0.6	-18		26 Th	0007	0.0	0		11 W	0457	5.4	165		26 Th	0435	5.3	162	
	1107	-0.4	-12			1122	0.2	6			0606	5.1	155			0542	4.9	149			1124	-0.1	-3			1119	0.5	15	
	1702	5.8	177			1711	5.3	162			1232	-0.2	-6			1226	0.4	12			1713	5.4	165			1652	5.2	158	
	2353	-0.7	-21			2359	-0.3	-9			1819	5.4	165			1755	5.2	158			2349	-0.2	-6			2334	0.2	6	
12 M	0535	4.5	137		27 Tu	0533	4.2	128		12 Th	0102	-0.5	-15		27 F	0045	0.0	0		12 Th	0543	5.6	171		27 F	0514	5.5	168	
	1159	-0.4	-12			1205	0.3	9			0653	5.2	158			0619	5.1	155			1213	0.0	0			1204	0.5	15	
	1751	5.7	174			1747	5.3	162			1323	-0.1	-3			1310	0.5	15			1758	5.2	158			1731	5.1	155	
											1904	5.1	155			1830	5.0	152											
13 Tu	0041	-0.8	-24		28 W	0039	-0.2	-6		13 F	0147	-0.4	-12		28 Sa	0124	0.1	3		13 F	0034	-0.1	-3		28 Sa	0014	0.3	9	
	0625	4.6	140			0609	4.3	131			0739	5.3	162			0658	5.3	162			0627	5.6	171			0553	5.7	174	
	1251	-0.3	-9			1248	0.4	12			1414	0.0	0			1356	0.6	18			1302	0.1	3			1249	0.5	15	
	1839	5.5	168			1821	5.1	155			1949	4.8	146			1908	4.9	149			1841	5.0	152			1810	5.0	152	
14 W	0128	-0.7	-21		29 Th	0118	-0.2	-6		14 Sa	0233	-0.2	-6		14 Sa	0118	0.1												

Albany, New York, 2009

Times and Heights of High and Low Waters

July				August				September															
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height										
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm									
1 W	0625	0.0	0			1 Sa	0106	4.9	149	16 Su	0029	5.0	152	1 Tu	0216	4.9	149	16 W	0211	5.1	155		
	1203	3.9	119	16 Th	1106		3.8	116	0748		-0.3	-9	0734		0.0	0	0857		-0.3	-9	0858	-0.5	-15
	1839	-0.2	-6		1807		-0.1	-3	1328		3.4	104	1257		3.6	110	1441		3.8	116	1445	4.4	134
				2355	4.9	149	1955	-0.2	-6	1936	-0.3	-9	2108	-0.1	-3	2113	-0.4	-12					
2 Th	0043	5.1	155	17 F	0702	0.3	9	2 Su	0159	5.0	152	17 M	0132	5.1	155	2 W	0303	4.9	149	17 Th	0306	5.1	155
	0722	-0.1	-3		1211	3.7	113		0839	-0.3	-9		0830	-0.2	-6		0943	-0.4	-12		0949	-0.6	-18
	1302	3.7	113		1902	-0.2	-6		1422	3.5	107		1402	3.8	116		1527	3.9	119		1539	4.7	143
	1932	-0.2	-6				2046	-0.2	-6	2034	-0.4	-12	2155	-0.1	-3	2207	-0.6	-18					
3 F	0137	5.1	155	18 Sa	0055	5.1	155	3 M	0248	5.0	152	18 Tu	0230	5.2	158	3 Th	0346	4.9	149	18 F	0358	5.1	155
	0816	-0.2	-6		0759	0.1	3		0928	-0.4	-12		0923	-0.5	-15		1026	-0.5	-15		1037	-0.7	-21
	1359	3.7	113		1317	3.6	110		1511	3.5	107		1501	4.0	122		1610	4.1	125		1630	5.0	152
	2024	-0.1	-3	1958	-0.3	-9	2135	-0.2	-6	2130	-0.5	-15	2241	-0.1	-3	2259	-0.6	-18					
4 Sa	0228	5.2	158	19 Su	0153	5.2	158	4 Tu	0334	5.0	152	19 W	0325	5.3	162	4 F	0427	4.8	146	19 Sa	0447	4.9	149
	0908	-0.3	-9		0854	-0.2	-6		1015	-0.5	-15		1014	-0.7	-21		1108	-0.5	-15		1124	-0.7	-21
	1451	3.6	110		1419	3.7	113		1557	3.6	110		1557	4.3	131		1649	4.3	131		1718	5.2	158
	2113	-0.1	-3	2053	-0.4	-12	2221	-0.2	-6	2224	-0.6	-18	2326	-0.1	-3	2350	-0.6	-18					
5 Su	0316	5.2	158	20 M	0250	5.4	165	5 W	0416	5.0	152	20 Th	0417	5.3	162	5 Sa	0504	4.7	143	20 Su	0534	4.8	146
	0957	-0.4	-12		0947	-0.4	-12		1058	-0.6	-18		1103	-0.9	-27		1148	-0.4	-12		1210	-0.6	-18
	1540	3.6	110		1518	3.8	116		1639	3.8	116		1649	4.5	137		1726	4.5	137		1804	5.3	162
	2201	-0.1	-3	2147	-0.5	-15	2306	-0.1	-3	2306	-0.7	-21											
6 M	0401	5.3	162	21 Tu	0343	5.5	168	6 Th	0456	5.0	152	21 F	0506	5.2	158	6 Su	0009	0.0	0	21 M	0039	-0.5	-15
	1043	-0.4	-12		1038	-0.6	-18		1140	-0.6	-18		1150	-0.9	-27		1226	-0.4	-12		1262	4.5	137
	1624	3.7	113		1614	4.0	122		1718	3.9	119		1739	4.7	143		1802	4.7	143		1849	5.3	162
	2247	0.0	0	2240	-0.6	-18	2350	-0.1	-3														
7 Tu	0443	5.2	158	22 W	0435	5.5	168	7 F	0533	4.9	149	22 Sa	0008	-0.7	-21	7 M	0053	0.1	3	22 Tu	0129	-0.4	-12
	1127	-0.5	-15		1127	-0.8	-24		1221	-0.5	-15		0554	5.0	152		0614	4.5	137		0705	4.3	131
	1706	3.7	113		1707	4.2	128		1756	4.1	125		1237	-0.9	-27		1305	-0.3	-9		1341	-0.3	-9
	2331	0.0	0	2333	-0.6	-18				1828	4.9	149	1839	4.9	149	1934	5.2	158					
8 W	0523	5.2	158	23 Th	0524	5.5	168	8 Sa	0033	0.0	0	23 Su	0059	-0.6	-18	8 Tu	0138	0.2	6	23 W	0218	-0.3	-9
	1210	-0.4	-12		1215	-0.9	-27		0607	4.7	143		0641	4.8	146		0649	4.3	131		0751	4.1	125
	1745	3.8	116		1759	4.4	134		1300	-0.5	-15		1323	-0.8	-24		1343	-0.2	-6		1429	-0.1	-3
							1832	4.2	128	1915	5.0	152	1919	5.0	152	2021	5.1	155					
9 Th	0014	0.1	3	24 F	0025	-0.6	-18	9 Su	0116	0.1	3	24 M	0151	-0.5	-15	9 W	0225	0.2	6	24 Th	0309	-0.1	-3
	0600	5.1	155		0613	5.3	162		0641	4.6	140		0728	4.5	137		0728	4.2	128		0839	3.9	119
	1251	-0.4	-12		1303	-0.9	-27		1338	-0.4	-12		1410	-0.6	-18		1426	-0.1	-3		1519	0.1	3
	1823	3.9	119	1849	4.6	140	1909	4.4	134	2004	5.0	152	2004	5.0	152	2110	5.0	152					
10 F	0057	0.2	6	25 Sa	0118	-0.5	-15	10 M	0201	0.2	6	25 Tu	0243	-0.3	-9	10 Th	0317	0.3	9	25 F	0401	0.0	0
	0636	5.0	152		0702	5.1	155		0716	4.4	134		0817	4.2	128		0815	4.0	122		0930	3.8	116
	1332	-0.4	-12		1351	-0.9	-27		1418	-0.3	-9		1459	-0.4	-12		1515	0.0	0		1611	0.2	6
	1901	4.0	122	1940	4.7	143	1949	4.6	140	2054	4.9	149	2054	4.9	149	2056	5.1	155	2203	4.9	149		
11 Sa	0141	0.3	9	26 Su	0212	-0.4	-12	11 Tu	0249	0.3	9	26 W	0337	-0.2	-6	11 F	0413	0.3	9	26 Sa	0454	0.1	3
	0711	4.8	146		0751	4.7	143		0754	4.3	131		0908	3.9	119		0912	3.9	119		1025	3.7	113
	1413	-0.3	-9		1440	-0.8	-24		1459	-0.3	-9		1550	-0.2	-6		1612	0.0	0		1706	0.3	9
	1941	4.2	128	2032	4.8	146	2033	4.7	143	2146	4.9	149	2146	4.9	149	2155	5.0	152	2258	4.8	146		
12 Su	0227	0.4	12	27 M	0307	-0.3	-9	12 W	0342	0.4	12	27 Th	0431	-0.1	-3	12 Sa	0512	0.3	9	27 Su	0548	0.1	3
	0748	4.7	143		0843	4.4	134		0839	4.1	125		1002	3.7	113		1019	3.8	116		1123	3.7	113
	1454	-0.3	-9		1530	-0.6	-18		1545	-0.2	-6		1643	-0.1	-3		1714	0.1	3		1801	0.3	9
	2023	4.3	131	2125	4.8	146	2124	4.8	146	2240	4.8	146	2301	5.0	152	2353	4.8	146					
13 M	0317	0.5	15	28 Tu	0403	-0.2	-6	13 Th	0438	0.4	12	28 F	0527	0.0	0	13 Su	0611	0.2	6	28 M	0641	0.0	0
	0827	4.5	137		0937	4.1	125		0932	3.8	116		1100	3.5	107		1132	3.8	116		1220	3.8	116
	1537	-0.2	-6		1621	-0.5	-15		1638	-0.1	-3		1737	0.0	0		1817	0.0	0		1855	0.3	9
	2109	4.5	137	2219	4.8	146	2222	4.8	146	2336	4.8	146											
14 Tu	0410	0.5	15	29 W	0500	-0.1	-3	14 F	0537	0.3	9	29 Sa	0622	-0.1	-3	14 M	0007	5.0	152	29 Tu	0048	4.8	146
	0913	4.2	128		1034	3.8	116		1036	3.7	113		1158	3.5	107		0710	0.0	0		0732	-0.1	-3
	1623	-0.2	-6		1714	-0.3	-9		1737	-0.1	-3		1832	0.0	0		1241	3.9	119		1316	3.9	119
	2200	4.6	140	2315	4.8	146	2325	4.9	149				1918	-0.1	-3	1949	0.2	6					
15 W	0506	0.5	15	30 Th	0557	-0.1	-3	15 Sa	0636	0.2	6	30 Su	0032	4.8	146	15 Tu	0111	5.1	155	30 W	0140	4.8	146
	1005	4.0	122		1132	3.6	110		1147	3.6	110		0716	-0.1	-3		0805	-0.2	-6		0821	-0.2	-6
	1713	-0.1	-3		1808	-0.2	-6		1837	-0.2	-6		1256	3.5	107		1346	4.1	125		1407	4.1	125
	2256	4.8	146						1926	0.0	0	2017	-0.3	-9	2040	0.1	3						
16 Th	0011	4.9	149	31 F	0653	-0.2	-6	31 M	0125	4.8	146	31 Tu	0125	4.8									

Sandy Hook, New Jersey, 2009

Times and Heights of High and Low Waters

April				May				June																										
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height																					
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm																				
1 W	0611	0.4	12		16 Th	0004	4.5	137		1 F	0023	5.3	162		16 Sa	0015	4.5	137		1 M	0201	4.9	149		16 Tu	0105	4.4	134						
	1216	4.3	131			0627	1.0	30			0708	0.3	9			0639	0.9	27			0841	0.1	3			0728	0.7	21						
	1807	0.5	15			1244	3.8	116			1311	4.7	143			1258	4.0	122			1446	5.2	158			1434	4.7	143		2024	1.2	37		
2 Th	0032	5.1	155		17 F	0055	4.3	131		2 Sa	0124	5.1	155		17 Su	0102	4.4	134		2 Tu	0258	4.6	140		17 W	0157	4.3	131		17 Th	0256	4.2	128	
	0724	0.5	15			0730	1.1	34			0814	0.3	9			0735	0.9	27			0933	0.2	6			0825	0.6	18			0921	0.5	15	
	1319	4.3	131			1335	3.8	116			1411	4.8	146			1344	4.1	125			1541	5.3	162			1434	4.9	149			1529	5.2	158	
3 F	1927	0.7	21		18 Sa	1940	1.5	46		3 Su	2031	0.6	18		3 M	2003	1.4	43		3 W	2212	0.5	15		18 Th	2127	1.0	30		18 Th	2225	0.6	18	
	0137	5.0	152			0147	4.2	128			0225	5.0	152			0151	4.3	131			0356	4.5	137			0256	4.2	128			0921	0.5	15	
	0837	0.4	12			0832	1.1	34			0913	0.1	3			0830	0.8	24			1021	0.2	6			0921	0.5	15			1529	5.2	158	
4 Sa	1424	4.4	134		19 Su	1428	3.9	119		4 M	1511	5.0	152		19 Tu	1432	4.4	134		4 Th	1634	5.4	165		19 F	2320	0.3	9		19 F	2320	0.3	9	
	2044	0.6	18			2050	1.4	43			2135	0.5	15			2107	1.2	37			2303	0.4	12			1628	5.5	168			2320	0.3	9	
	0244	5.0	152			0242	4.3	131			0326	4.9	149			0244	4.3	131			0453	4.4	134			0400	4.3	131			0400	4.3	131	
5 Su	0939	0.2	6		20 M	0924	0.9	27		5 Tu	1005	0.0	0		20 W	0919	0.7	21		5 F	1106	0.3	9		20 Sa	1015	0.3	9		20 Sa	1110	0.1	3	
	1529	4.6	140			1522	4.1	125			1609	5.2	158			1522	4.7	143			1724	5.5	168			1176	5.9	180			1176	5.9	180	
	2151	0.3	9			2147	1.1	34			2232	0.3	9			2202	0.9	27			2352	0.3	9			1266	-0.1	-3			1266	-0.1	-3	
6 M	0350	5.0	152		21 Tu	0338	4.3	131		6 W	0425	4.8	146		21 Th	0341	4.4	134		6 Sa	0545	4.4	134		21 Su	0015	0.0	0		21 Su	0603	4.7	143	
	1033	-0.1	-3			1010	0.7	21			1052	-0.1	-3			1006	0.5	15			1151	0.4	12			0603	4.7	143			0603	4.7	143	
	1632	4.9	149			1614	4.4	134			1703	5.5	168			1614	5.0	152			1809	5.6	171			1206	-0.1	-3			1206	-0.1	-3	
7 Tu	2249	0.0	0		22 W	2238	0.8	24		7 Th	2324	0.1	3		22 F	2254	0.6	18		7 Su	1809	5.6	171		22 M	1821	6.2	189		22 M	1821	6.2	189	
	0451	5.1	155			0432	4.5	137			0520	4.8	146			0439	4.5	137			0038	0.2	6			0109	-0.3	-9			0109	-0.3	-9	
	1122	-0.3	-9			1053	0.4	12			1137	-0.1	-3			1052	0.2	6			0633	4.4	134			0658	4.9	149			0658	4.9	149	
8 W	1727	5.3	162		23 Th	1702	4.8	146		8 F	1751	5.7	174		23 Sa	1704	5.4	165		8 M	1851	5.6	171		23 Tu	1303	-0.2	-6		23 Tu	1303	-0.2	-6	
	2342	-0.2	-6			2326	0.5	15			1835	5.8	177			2345	0.2	6			1931	5.5	168			1914	6.3	192			1914	6.3	192	
	0545	5.2	158			0521	4.7	143			0013	0.0	0			0533	4.6	140			0123	0.1	3			2020	6.4	195			2020	6.4	195	
9 Th	1208	-0.4	-12		24 F	1135	0.2	6		9 Sa	0609	4.8	146		24 Su	1140	0.1	3		9 Tu	0717	4.4	134		24 W	0658	4.9	149		24 W	1303	-0.2	-6	
	1816	5.6	171			1745	5.2	158			1221	0.0	0			1753	5.8	177			1319	0.5	15			1303	-0.2	-6			1303	-0.2	-6	
	0033	-0.3	-9			0013	0.2	6			1835	5.8	177			0036	-0.1	-3			1931	5.5	168			1914	6.3	192			1914	6.3	192	
10 F	0633	5.3	162		25 Sa	0607	4.8	146		10 Su	0655	4.8	146		25 M	0625	4.8	146		10 W	0759	4.4	134		25 Th	1359	-0.3	-9		25 Th	1359	-0.3	-9	
	1252	-0.4	-12			1217	0.0	0			1303	0.1	3			1229	-0.1	-3			1401	0.6	18			2006	6.4	195			2006	6.4	195	
	1900	5.8	177			1826	5.6	171			1915	5.8	177			1840	6.1	186			2010	5.4	165			2006	6.4	195			2006	6.4	195	
11 Sa	0121	-0.4	-12		26 Su	0100	-0.1	-3		11 M	0145	-0.1	-3		26 Tu	0128	-0.3	-9		11 Th	0246	0.2	6		26 F	0254	-0.7	-21		26 F	0254	-0.7	-21	
	0718	5.2	158			0651	4.9	149			0738	4.7	143			0715	4.9	149			0841	4.3	131			0846	5.2	158			0846	5.2	158	
	1335	-0.4	-12			1300	-0.1	-3			1345	0.2	6			1321	-0.2	-6			1442	0.7	21			1454	-0.3	-9			1454	-0.3	-9	
12 Su	1942	5.9	180		27 M	1906	5.8	177		12 Tu	1955	5.7	174		27 W	1928	6.2	189		12 F	2050	5.3	162		27 Sa	2100	6.2	189		27 Sa	2100	6.2	189	
	0207	-0.4	-12			0148	-0.3	-9			0228	0.0	0			0219	-0.5	-15			0246	0.2	6			0254	-0.7	-21			0254	-0.7	-21	
	0801	5.1	155			0735	5.0	152			0820	4.6	140			0806	5.0	152			0841	4.3	131			0846	5.2	158			0846	5.2	158	
13 M	1415	-0.2	-6		28 Tu	1345	-0.2	-6		13 W	1425	0.4	12		28 Th	1413	-0.2	-6		13 Sa	1521	0.8	24		28 Su	1547	-0.3	-9		28 Su	1547	-0.3	-9	
	2022	5.8	177			1947	6.0	183			2034	5.5	168			2018	6.2	189			2130	5.1	155			2156	6.0	183			2156	6.0	183	
	0250	-0.3	-9			0235	-0.4	-12			0308	0.1	3			0309	-0.5	-15			0325	0.2	6			0343	-0.7	-21			0343	-0.7	-21	
14 Tu	0843	4.8	146		29 W	0821	4.9	149		14 Th	0904	4.4	134		29 F	0900	4.9	149		14 Su	1008	4.2	128		29 M	1041	5.3	162		29 M	1041	5.3	162	
	1454	0.0	0			1430	-0.2	-6			1504	0.6	18			1505	-0.2	-6			1558	0.9	27			1641	0.0	0			1641	0.0	0	
	2103	5.6	171			2032	6.0	183			2114	5.3	162			2112	6.1	186			2211	4.9	149			2253	5.7	174			2253	5.7	174	
15 W	0330	-0.1	-3		30 Th	0322	-0.4	-12		15 F	0347	0.2	6		30 Sa	0400	-0.5	-15		15 M	0438	0.5	15		30 Tu	0521	-0.4	-12		30 Tu	0521	-0.4	-12	
	0927	4.6	140			0912	4.8	146			0949</																							

Sandy Hook, New Jersey, 2009

Times and Heights of High and Low Waters

July				August				September															
Time	Height		Time	Height		Time	Height		Time	Height													
	h	m		h	m		h	m		h	m												
1 W	0228	4.4	134	16 Th	0123	4.2	128	1 Sa	0358	3.9	119	16 Su	0317	4.3	131	1 Tu	0520	4.3	131	16 W	0515	5.3	162
	0859	0.5	15		0735	0.7	21		1012	1.0	30		0935	0.5	15		1122	0.9	27		1126	-0.1	-3
	1509	5.2	158		1354	5.1	155		1627	5.0	152		1544	5.5	168		1737	5.1	155		1734	5.9	180
	2148	0.7	21		2057	1.0	30		2303	0.8	24		2242	0.4	12		2359	0.5	15				
2 Th	0326	4.2	128	17 F	0224	4.2	128	2 Su	0456	4.0	122	17 M	0427	4.6	140	2 W	0604	4.6	140	17 Th	0006	-0.4	-12
	0950	0.6	18		0844	0.6	18		1100	0.9	27		1039	0.2	6		1207	0.7	21		0608	5.7	174
	1603	5.2	158		1455	5.3	162		1719	5.1	155		1651	5.8	177		1818	5.2	158		1221	-0.3	-9
	2240	0.6	18		2201	0.7	21		2348	0.6	18		2337	0.0	0						1825	6.0	183
3 F	0425	4.1	125	18 Sa	0333	4.2	128	3 M	0548	4.2	128	18 Tu	0530	5.0	152	3 Th	0038	0.4	12	18 F	0053	-0.6	-18
	1038	0.6	18		0949	0.4	12		1147	0.8	24		1138	-0.1	-3		0643	4.8	146		0657	6.0	183
	1656	5.2	158		1601	5.5	168		1805	5.2	158		1751	6.1	186		1250	0.5	15		1313	-0.4	-12
	2328	0.5	15		2259	0.3	9								1856		5.3	162	1913		6.0	183	
4 Sa	0521	4.1	125	19 Su	0442	4.4	134	4 Tu	0032	0.5	15	19 W	0030	-0.3	-9	4 F	0116	0.2	6	19 Sa	0139	-0.6	-18
	1124	0.7	21		1051	0.2	6		0633	4.4	134		0626	5.4	165		0719	5.0	152		0743	6.2	189
	1744	5.3	162		1706	5.8	177		1232	0.7	21		1235	-0.3	-9		1332	0.4	12		1403	-0.4	-12
					2356	0.0	0		1847	5.3	162		1844	6.3	192		1931	5.3	162		1959	5.8	177
5 Su	0015	0.4	12	20 M	0545	4.7	143	5 W	0113	0.3	9	20 Th	0120	-0.6	-18	5 Sa	0152	0.1	3	20 Su	0222	-0.5	-15
	0611	4.2	128		1150	-0.1	-3		0713	4.5	137		0718	5.7	174		0752	5.1	155		0828	6.2	189
	1210	0.7	21		1805	6.1	186		1316	0.6	18		1330	-0.5	-15		1413	0.4	12		1451	-0.3	-9
	1829	5.4	165						1925	5.4	165		1934	6.3	192		2005	5.2	158		2045	5.5	168
6 M	0059	0.3	9	21 Tu	0051	-0.3	-9	6 Th	0152	0.2	6	21 F	0208	-0.7	-21	6 Su	0227	0.1	3	21 M	0304	-0.3	-9
	0656	4.3	131		0642	5.1	155		0751	4.7	143		0807	5.9	180		0824	5.2	158		0914	6.0	183
	1255	0.6	18		1249	-0.3	-9		1358	0.5	15		1422	-0.5	-15		1452	0.4	12		1537	-0.1	-3
	1910	5.4	165		1900	6.3	192		2000	5.3	162		2022	6.1	186		2039	5.1	155		2133	5.1	155
7 Tu	0142	0.3	9	22 W	0143	-0.6	-18	7 F	0229	0.2	6	22 Sa	0253	-0.7	-21	7 M	0259	0.2	6	22 Tu	0345	0.0	0
	0738	4.4	134		0736	5.3	162		0826	4.7	143		0856	6.0	183		0856	5.3	162		1001	5.7	174
	1339	0.6	18		1345	-0.4	-12		1437	0.5	15		1512	-0.4	-12		1530	0.5	15		1622	0.2	6
	1949	5.4	165		1952	6.4	195		2034	5.2	158		2111	5.8	177		2116	4.9	149		2223	4.7	143
8 W	0222	0.2	6	23 Th	0233	-0.8	-24	8 Sa	0302	0.2	6	23 Su	0336	-0.6	-18	8 Tu	0332	0.3	9	23 W	0425	0.5	15
	0818	4.4	134		0829	5.5	168		0900	4.8	146		0946	5.9	180		0932	5.3	162		1050	5.4	165
	1420	0.6	18		1439	-0.5	-15		1514	0.6	18		1600	-0.2	-6		1609	0.6	18		1709	0.6	18
	2026	5.3	162		2043	6.3	192		2108	5.1	155		2201	5.4	165		2158	4.7	143		2316	4.4	134
9 Th	0300	0.2	6	24 F	0320	-0.8	-24	9 Su	0334	0.2	6	24 M	0418	-0.2	-6	9 W	0406	0.4	12	24 Th	0507	0.9	27
	0857	4.4	134		0922	5.6	171		0934	4.8	146		1036	5.7	174		1016	5.3	162		1141	5.1	155
	1500	0.7	21		1531	-0.4	-12		1551	0.7	21		1649	0.2	6		1653	0.7	21		1801	0.9	27
	2103	5.2	158		2135	6.0	183		2143	4.9	149		2252	5.0	152		2250	4.5	137				
10 F	0334	0.2	6	25 Sa	0406	-0.7	-21	10 M	0403	0.3	9	25 Tu	0501	0.2	6	10 Th	0445	0.6	18	25 F	0010	4.1	125
	0936	4.4	134		1016	5.6	171		1009	4.9	149		1127	5.5	168		1108	5.3	162		0557	1.2	37
	1537	0.8	24		1622	-0.2	-6		1628	0.8	24		1740	0.6	18		1747	0.9	27		1232	4.8	146
	2139	5.0	152		2228	5.6	171		2223	4.7	143		2345	4.6	140		2349	4.3	131		1902	1.2	37
11 Sa	0407	0.3	9	26 Su	0451	-0.4	-12	11 Tu	0434	0.4	12	26 W	0546	0.6	18	11 F	0535	0.8	24	26 Sa	0104	4.0	122
	1015	4.4	134		1110	5.6	171		1049	5.0	152		1217	5.2	158		1208	5.2	158		0702	1.5	46
	1613	0.9	27		1715	0.2	6		1709	0.9	27		1838	0.9	27		1900	1.0	30		1325	4.6	140
	2216	4.8	146		2321	5.2	158		2309	4.5	137								2008		1.3	40	
12 Su	0438	0.4	12	27 M	0538	-0.1	-3	12 W	0509	0.5	15	27 Th	0038	4.3	131	12 Sa	0053	4.2	128	27 Su	0200	3.9	119
	1053	4.5	137		1202	5.5	168		1136	5.0	152		0640	1.0	30		0648	0.9	27		0813	1.5	46
	1650	1.0	30		1811	0.5	15		1802	1.1	34		1308	5.0	152		1313	5.2	158		1420	4.6	140
	2256	4.7	143										1943	1.1	34		2019	0.9	27		2107	1.2	37
13 M	0510	0.5	15	28 Tu	0014	4.8	146	13 Th	0003	4.3	131	28 F	0132	4.0	122	13 Su	0159	4.3	131	28 M	0256	4.0	122
	1132	4.6	140		0628	0.3	9		0555	0.7	21		0744	1.2	37		0814	0.9	27		0915	1.4	43
	1734	1.1	34		1252	5.3	162		1229	5.1	155		1401	4.8	146		1421	5.3	162		1516	4.6	140
	2340	4.5	137		1914	0.8	24		1916	1.1	34		2048	1.2	37		2127	0.7	21		2156	1.0	30
14 Tu	0546	0.5	15	29 W	0106	4.5	137	14 F	0102	4.2	128	29 Sa	0229	3.9	119	14 M	0307	4.5	137	29 Tu	0353	4.1	125
	1215	4.7	143		0723	0.6	18		0701	0.8	24		0849	1.3	40		0927	0.6	18		1007	1.2	37
	1831	1.2	37		1343	5.2	158		1328	5.2	158		1457	4.7	143		1530	5.4	165		1610	4.7	143
					2019	1.0	30		2035	1.0	30		2144	1.1	34		2224	0.3	9		2240	0.7	21
15 W	0028	4.3	131	30 Th	0200	4.2	128	15 Sa	0207	4.2	128	30 Su	0329	3.9	119	15 Tu	0414	4.8	146	30 W	0444	4.4	134
	0633	0.6	18		0823	0.9	27		0823	0.8	24		0946	1.2	37		1029	0.3	9		1054	0.9	27
	1301	4.9	149		1435	5.0	152		1433	5.3	162		1555	4.8	146		1636	5.6	171		1700	4.9	149
	1945	1.2	37		2120	1.0	30		2143	0.7	21		2233	0.9	27		2317	-0.1	-3		2320	0.5	15
			31 F	0257	4.0	122				31 M	0428	4.1	125										
				0919	1.0	30	</																

Atlantic City, New Jersey, 2009

Times and Heights of High and Low Waters

January				February				March																									
Time	Height			Time	Height			Time	Height			Time	Height																				
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm		h	m	ft	cm														
1 Th	0349	0.4	12		16 F	0514	-0.1	-3		1 Su	0507	0.3	9		16 M	0010	3.8	116		1 Su	0400	0.0	0		16 M	0505	0.3	9					
	1005	4.0	122			1118	3.9	119			1100	3.5	107			0637	0.5	15			0955	3.7	113			1055	3.3	101					
	1632	0.1	3			1743	-0.3	-9			1717	-0.1	-3			1225	3.0	91			1603	-0.2	-6			1700	0.5	15		2324	4.0	122	
	2234	3.3	101								2337	3.9	119			1837	0.5	15			2220	4.3	131										
2 F	0435	0.5	15		17 Sa	0002	3.9	119		2 M	0608	0.4	12		17 Tu	0108	3.7	113		2 M	0452	0.1	3		17 Tu	0559	0.6	18					
	1044	3.8	116			0613	0.2	6			1154	3.2	98			0740	0.7	21			1042	3.5	107			1146	3.0	91					
	1711	0.1	3			1212	3.5	107			1810	0.0	0			1328	2.7	82			1651	0.0	0			1749	0.8	24					
	2320	3.4	104			1833	0.0	0								1934	0.7	21			2313	4.3	131										
3 Sa	0529	0.5	15		18 Su	0059	3.8	116		3 Tu	0038	4.0	122		18 W	0210	3.6	110		3 Tu	0554	0.3	9		18 W	0018	3.8	116					
	1130	3.6	110			0715	0.4	12			0718	0.4	12			0845	0.8	24			1140	3.2	98			0658	0.8	24					
	1755	0.1	3			1309	3.1	94			1301	3.0	91			1436	2.6	79			1748	0.1	3			1247	2.8	85					
						1926	0.2	6			1912	0.0	0			2035	0.7	21								1846	0.9	27					
4 Su	0012	3.6	110		19 M	0157	3.7	113		4 W	0148	4.1	125		19 Th	0311	3.7	113		4 W	0017	4.2	128		19 Th	0121	3.6	110					
	0632	0.6	18			0819	0.6	18			0832	0.3	9			0945	0.7	21			0704	0.4	12			0802	0.9	27					
	1224	3.4	104			1411	2.9	88			1419	3.0	91			1539	2.7	82			1252	3.1	94			1356	2.7	82					
	1845	0.0	0			2020	0.4	12			2021	-0.1	-3			2133	0.6	18			1856	0.2	6			1951	1.0	30					
5 M	0112	3.8	116		20 Tu	0255	3.7	113		5 Th	0301	4.3	131		20 F	0407	3.8	116		5 Th	0132	4.2	128		20 F	0226	3.7	113					
	0740	0.5	15			0921	0.6	18			0941	0.1	3			1037	0.6	18			0818	0.3	9			0902	0.9	27					
	1328	3.2	98			1513	2.8	85			1535	3.1	94			1633	2.8	85			1413	3.1	94			1502	2.8	85					
	1942	0.0	0			2114	0.4	12			2130	-0.2	-6			2225	0.5	15			2010	0.2	6			2055	0.9	27					
6 Tu	0216	4.1	125		21 W	0349	3.8	116		6 F	0408	4.6	140		21 Sa	0455	4.0	122		6 F	0248	4.3	131		21 Sa	0325	3.8	116					
	0850	0.3	9			1018	0.5	15			1044	-0.2	-6			1121	0.4	12			0927	0.1	3			0954	0.7	21					
	1438	3.2	98			1610	2.8	85			1641	3.4	104			1719	3.1	94			1529	3.3	101			1557	3.0	91					
	2043	-0.2	-6			2205	0.4	12			2235	-0.5	-15			2311	0.3	9			2122	0.0	0			2151	0.7	21					
7 W	0320	4.4	134		22 Th	0439	4.0	122		7 Sa	0509	4.9	149		22 Su	0538	4.2	128		7 Sa	0356	4.5	137		22 Su	0416	3.9	119					
	0957	0.0	0			1108	0.4	12			1140	-0.5	-15			1200	0.2	6			1028	-0.1	-3			1038	0.5	15					
	1547	3.2	98			1700	2.8	85			1740	3.7	113			1800	3.3	101			1633	3.6	110			1644	3.3	101					
	2145	-0.4	-12			2253	0.3	9			2335	-0.7	-21			2354	0.1	3			2227	-0.3	-9			2241	0.5	15					
8 Th	0422	4.7	143		23 F	0524	4.1	125		8 Su	0604	5.1	155		23 M	0617	4.3	131		8 Su	0456	4.7	143		23 M	0501	4.1	125					
	1058	-0.3	-9			1152	0.2	6			1232	-0.8	-24			1235	0.0	0			1121	-0.4	-12			1117	0.3	9					
	1651	3.4	104			1745	3.0	91			1834	4.0	122			1837	3.5	107			1728	4.0	122			1725	3.6	110					
	2245	-0.6	-18			2336	0.2	6													2326	-0.5	-15			2326	0.2	6					
9 F	0520	5.1	155		24 Sa	0605	4.3	131		9 M	0030	-0.9	-27		24 Tu	0034	-0.1	-3		9 M	0549	4.9	149		24 Tu	0542	4.2	128					
	1155	-0.6	-18			1232	0.1	3			0655	5.2	158			0653	4.4	134			1210	-0.6	-18			1152	0.1	3					
	1750	3.6	110			1826	3.1	94			1320	-0.9	-27			1308	-0.2	-6			1818	4.3	131			1803	4.0	122					
	2344	-0.8	-24								1924	4.2	128			1913	3.8	116															
10 Sa	0615	5.3	162		25 Su	0017	0.0	0		10 Tu	0123	-1.0	-30		25 W	0113	-0.2	-6		10 Tu	0019	-0.7	-21		25 W	0008	0.0	0					
	1248	-0.8	-24			0644	4.4	134			0742	5.1	155			0728	4.4	134			0637	4.9	149			0620	4.3	131					
	1846	3.8	116			1309	-0.1	-3			1405	-1.0	-30			1340	-0.3	-9			1255	-0.7	-21			1227	-0.1	-3					
						1905	3.2	98			2011	4.4	134			1947	4.0	122			1904	4.6	140			1840	4.3	131					
11 Su	0040	-0.9	-27		26 M	0056	0.0	0		11 W	0214	-0.9	-27		26 Th	0152	-0.2	-6		11 W	0110	-0.8	-24		26 Th	0050	-0.1	-3					
	0708	5.4	165			0721	4.4	134			0828	4.9	149			0803	4.3	131			0722	4.8	146			0658	4.3	131					
	1340	-1.0	-30			1344	-0.1	-3			1450	-0.9	-27			1413	-0.3	-9			1337	-0.7	-21			1302	-0.2	-6					
	1939	4.0	122			1941	3.4	104			2058	4.4	134			2021	4.1	125			1948	4.7	143			1916	4.5	137					
12 M	0135	-1.0	-30		27 Tu	0134	-0.1	-3		12 Th	0304	-0.7	-21		27 F	0231	-0.2	-6		12 Th	0157	-0.7	-21		27 F	0131	-0.3	-9					
	0759	5.3	162			0755	4.4	134			0913	4.6	140			0837	4.2	128			0805	4.6	140			0736	4.3	131					
	1429	-1.0	-30			1416	-0.2	-6			1533	-0.7	-21			1446	-0.3	-9			1418	-0.6	-18			1337	-0.3	-9					
	2031	4.1	125			2016	3.5	107			2144	4.4	134			2057	4.2	128			2030	4.7	143			1953	4.7	143					
13 Tu	0229	-0.9	-27		28 W	0211	-0.1	-3		13 F	0354	-0.4	-12		28 Sa	0313	-0.1	-3		13 F	0244	-0.5	-15		28 Sa	0214	-0.3	-9					
	0849	5.1	155			0829	4.3	131			0958	4.2	128			0914	4.0	122			0847	4.3	131			0815	4.1	125					
	1518	-0.9	-27			1448	-0.2	-6			1616	-0.4	-12			1523	-0.3	-9			1458	-0.4	-12			1416	-0.3	-9					
	2123	4.1	125			2050	3.6	110			2230	4.2	128			2136	4.3	131			2111	4.6	140			2032	4.8	146					
14 W	0323	-0.7	-21		29 Th	0249	0.0	0		14 Sa	0445	-0.1	-3		14 Sa	0330	-0.3	-9</															

Atlantic City, New Jersey, 2009

Times and Heights of High and Low Waters

July				August				September															
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height										
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm									
1 W	0220	3.6	110	16 Th	0053	3.5	107	1 Sa	0351	3.2	98	16 Su	0256	3.5	107	1 Tu	0503	3.6	110	16 W	0455	4.4	134
	0831	0.3	9		0707	0.4	12		0946	0.8	24		0852	0.4	12		1057	0.8	24		1053	0.0	0
	1505	4.4	134		1341	4.4	134		1619	4.4	134		1531	5.0	152		1720	4.6	140		1715	5.3	162
	2125	0.6	18		2017	0.8	24		2250	0.8	24		2210	0.4	12		2343	0.6	18		2337	-0.2	-6
2 Th	0320	3.4	104	17 F	0159	3.4	104	2 Su	0444	3.3	101	17 M	0406	3.7	113	2 W	0544	3.8	116	17 Th	0547	4.8	146
	0923	0.5	15		0806	0.3	9		1036	0.8	24		0959	0.2	6		1139	0.6	18		1149	-0.2	-6
	1557	4.5	137		1444	4.6	140		1706	4.6	140		1634	5.3	162		1759	4.7	143		1806	5.3	162
	2222	0.6	18		2124	0.6	18		2336	0.7	21		2308	0.1	3								
3 F	0416	3.3	101	18 Sa	0309	3.4	104	3 M	0531	3.4	104	18 Tu	0507	4.1	125	3 Th	0018	0.5	15	18 F	0024	-0.3	-9
	1013	0.5	15		0908	0.2	6		1121	0.7	21		1102	-0.1	-3		0622	4.0	122		0635	5.1	155
	1646	4.6	140		1547	4.9	149		1749	4.7	143		1731	5.5	168		1220	0.5	15		1242	-0.4	-12
	2314	0.5	15		2227	0.4	12								1836		4.8	146	1853		5.3	162	
4 Sa	0507	3.3	101	19 Su	0417	3.6	110	4 Tu	0017	0.5	15	19 W	0000	-0.2	-6	4 F	0051	0.4	12	19 Sa	0108	-0.4	-12
	1100	0.5	15		1011	0.0	0		0613	3.5	107		0603	4.4	134		0657	4.2	128		0721	5.3	162
	1730	4.7	143		1210	0.6	18		1204	0.6	18		1200	-0.3	-9		1258	0.4	12		1332	-0.3	-9
					2325	0.0	0		1828	4.8	146		1824	5.6	171		1911	4.7	143		1939	5.1	155
5 Su	0000	0.4	12	20 M	0519	3.8	116	5 W	0055	0.4	12	20 Th	0050	-0.4	-12	5 Sa	0122	0.3	9	20 Su	0152	-0.3	-9
	0553	3.4	104		1112	-0.2	-6		0652	3.7	113		0655	4.7	143		0731	4.4	134		0806	5.3	162
	1144	0.5	15		1745	5.5	168		1244	0.5	15		1255	-0.5	-15		1336	0.4	12		1422	-0.2	-6
	1812	4.7	143		1906	4.8	146		1906	4.8	146		1914	5.6	171		1945	4.7	143		2024	4.8	146
6 M	0043	0.4	12	21 Tu	0020	-0.2	-6	6 Th	0130	0.3	9	21 F	0137	-0.5	-15	6 Su	0153	0.3	9	21 M	0234	-0.1	-3
	0636	3.4	104		0617	4.1	125		0729	3.8	116		0745	5.0	152		0804	4.5	137		0851	5.3	162
	1226	0.5	15		1210	-0.4	-12		1322	0.5	15		1348	-0.5	-15		1415	0.4	12		1511	0.0	0
	1852	4.8	146		1840	5.7	174		1941	4.8	146		2002	5.5	168		2019	4.5	137		2109	4.4	134
7 Tu	0123	0.3	9	22 W	0112	-0.5	-15	7 F	0202	0.3	9	22 Sa	0223	-0.5	-15	7 M	0225	0.3	9	22 Tu	0317	0.2	6
	0717	3.5	107		0712	4.3	131		0804	3.9	119		0833	5.1	155		0838	4.6	140		0935	5.1	155
	1306	0.5	15		1307	-0.5	-15		1400	0.5	15		1440	-0.3	-9		1455	0.5	15		1600	0.3	9
	1930	4.8	146		1932	5.7	174		2015	4.7	143		2049	5.2	158		2054	4.3	131		2155	4.1	125
8 W	0201	0.3	9	23 Th	0202	-0.6	-18	8 Sa	0234	0.3	9	23 Su	0308	-0.4	-12	8 Tu	0259	0.3	9	23 W	0401	0.5	15
	0755	3.5	107		0805	4.5	137		0838	4.0	122		0921	5.1	155		0914	4.7	143		1022	4.8	146
	1344	0.5	15		1402	-0.5	-15		1437	0.5	15		1533	-0.1	-3		1538	0.6	18		1653	0.6	18
	2008	4.8	146		2023	5.6	171		2048	4.6	140		2137	4.8	146		2131	4.1	125		2244	3.7	113
9 Th	0237	0.3	9	24 F	0251	-0.6	-18	9 Su	0305	0.3	9	24 M	0353	-0.1	-3	9 W	0337	0.4	12	24 Th	0448	0.8	24
	0833	3.6	110		0857	4.7	143		0912	4.1	125		1010	4.9	149		0956	4.7	143		1113	4.5	137
	1422	0.5	15		1457	-0.4	-12		1516	0.6	18		1626	0.2	6		1627	0.7	21		1749	0.9	27
	2043	4.7	143		2113	5.4	165		2122	4.4	134		2225	4.3	131		2215	3.8	116		2339	3.4	104
10 F	0311	0.3	9	25 Sa	0339	-0.5	-15	10 M	0336	0.3	9	25 Tu	0439	0.2	6	10 Th	0422	0.5	15	25 F	0540	1.1	34
	0910	3.6	110		0950	4.7	143		0947	4.2	128		1100	4.7	143		1044	4.7	143		1209	4.3	131
	1501	0.6	18		1553	-0.2	-6		1558	0.7	21		1722	0.5	15		1725	0.8	24		1849	1.1	34
	2118	4.5	137		2203	5.0	152		2157	4.1	125		2316	3.9	119		2309	3.6	110		2399	3.6	110
11 Sa	0344	0.3	9	26 Su	0428	-0.3	-9	11 Tu	0411	0.4	12	26 W	0528	0.6	18	11 F	0515	0.6	18	26 Sa	0042	3.2	98
	0946	3.7	113		1043	4.7	143		1025	4.3	131		1154	4.5	137		1144	4.7	143		0639	1.3	40
	1540	0.7	21		1650	0.1	3		1645	0.8	24		1821	0.8	24		1831	0.9	27		1311	4.2	128
	2153	4.3	131		2255	4.5	137		2237	3.9	119								1951		1.2	37	
12 Su	0417	0.4	12	27 M	0517	-0.1	-3	12 W	0451	0.4	12	27 Th	0013	3.5	107	12 Sa	0016	3.5	107	27 Su	0149	3.2	98
	1024	3.7	113		1137	4.6	140		1111	4.4	134		0621	0.8	24		0619	0.7	21		0743	1.3	40
	1623	0.8	24		1750	0.4	12		1741	0.9	27		1252	4.3	131		1254	4.7	143		1413	4.1	125
	2229	4.1	125		2348	4.1	125		2326	3.7	113		1924	1.0	30		1943	0.8	24		2049	1.1	34
13 M	0452	0.4	12	28 Tu	0607	0.2	6	13 Th	0539	0.5	15	28 F	0116	3.3	101	13 Su	0135	3.5	107	28 M	0251	3.3	101
	1104	3.8	116		1234	4.5	137		1206	4.4	134		0719	1.0	30		0732	0.7	21		0844	1.3	40
	1711	0.9	27		1852	0.7	21		1845	1.0	30		1354	4.2	128		1408	4.8	146		1510	4.2	128
	2309	3.9	119										2028	1.1	34		2052	0.7	21		2139	1.0	30
14 Tu	0530	0.4	12	29 W	0046	3.7	113	14 F	0026	3.5	107	29 Sa	0223	3.2	98	14 M	0251	3.7	113	29 Tu	0344	3.5	107
	1149	4.0	122		0700	0.5	15		0637	0.5	15		0819	1.1	34		0845	0.5	15		0939	1.1	34
	1806	1.0	30		1332	4.4	134		1311	4.6	140		1454	4.2	128		1518	4.9	149		1559	4.3	131
	2357	3.7	113		1956	0.8	24		1956	0.9	27		2128	1.1	34		2153	0.4	12		2222	0.8	24
15 W	0615	0.4	12	30 Th	0148	3.4	104	15 Sa	0139	3.4	104	30 Su	0324	3.2	98	15 Tu	0357	4.0	122	30 W	0429	3.7	113
	1241	4.1	125		0756	0.7	21		0743	0.5	15		0917	1.1	34		0952	0.3	9		1027	0.9	27
	1909	1.0	30		1431	4.3	131		1422	4.7	143		1549	4.3	131		1620	5.1	155		1643	4.4	134
					2059	0.9	27		2106	0.7	21		2220	1.0	30		2248	0.1	3		2300	0.7	21
15 O				31 F	0252	3.2	98	31 M	0418	3.4	104	31 Tu	0418</										

Atlantic City, New Jersey, 2009

Times and Heights of High and Low Waters

October			November			December																	
Time	Height		Time	Height		Time	Height		Time	Height													
	h	m	ft	cm	h	m	ft	cm	h	m	ft	cm											
1 Th	0510	4.0	122	16 F	0529	5.0	152	1 Su	0547	4.8	146	16 M	0013	-0.1	-3	1 Tu	0559	5.0	152	16 W	0034	0.0	0
	1111	0.7	21		1137	-0.1	-3		1207	0.2	6		0637	5.1	155		1231	-0.2	-6		0659	4.7	143
	1723	4.5	137		1746	4.8	146		1806	4.1	125		1301	-0.2	-6		1824	3.7	113		1328	-0.1	-3
	2335	0.5	15		2357	-0.3	-9		●	1857	3.9		119	●	1921		3.4	104	1921		3.4	104	
2 F	0547	4.3	131	17 Sa	0614	5.2	158	2 M	0002	0.0	0	17 Tu	0055	0.0	0	2 W	0016	-0.4	-12	17 Th	0114	0.0	0
	1153	0.5	15		1228	-0.2	-6		0626	5.0	152		0718	5.1	155		0645	5.3	162		0738	4.7	143
	1801	4.5	137		1832	4.7	143		○	1251	0.1		3	1345	-0.1		-3	1320	-0.4		-12	1409	-0.1
3 Sa	0008	0.3	9	18 Su	0040	-0.2	-6	3 Tu	0041	-0.1	-3	18 W	0136	0.1	3	3 Th	0104	-0.4	-12	18 F	0154	0.1	3
	0622	4.6	140		0658	5.4	165		0706	5.2	158		0758	5.0	152		0733	5.4	165		0817	4.6	140
	1233	0.4	12		1316	-0.2	-6		1335	0.0	0		1429	0.0	0		1409	-0.4	-12		1449	0.0	0
	1838	4.5	137		●	1917	4.5		137	1930	4.0		122	2021	3.6		110	2003	3.8		116	2041	3.3	101
4 Su	0041	0.2	6	19 M	0122	-0.1	-3	4 W	0123	-0.1	-3	19 Th	0216	0.3	9	4 F	0155	-0.4	-12	19 Sa	0232	0.2	6
	0657	4.8	146		0740	5.3	162		0748	5.3	162		0838	4.8	146		0823	5.3	162		0855	4.5	137
	1313	0.3	9		1403	-0.1	-3		1423	-0.1	-3		1512	0.2	6		1501	-0.5	-15		1527	0.1	3
	1915	4.4	134		2000	4.3	131		2015	3.9	119		2103	3.4	104		2056	3.8	116		2121	3.2	98
5 M	0115	0.1	3	20 Tu	0203	0.1	3	5 Th	0209	-0.1	-3	20 F	0256	0.5	15	5 Sa	0249	-0.4	-12	20 Su	0311	0.4	12
	0732	5.0	152		0822	5.2	158		0834	5.3	162		0919	4.6	140		0915	5.2	158		0933	4.3	131
	1354	0.2	6		1449	0.1	3		1513	0.0	0		1556	0.3	9		1554	-0.4	-12		1605	0.2	6
	1952	4.3	131		2043	4.0	122		2104	3.8	116		2147	3.3	101		2153	3.7	113		2201	3.1	94
6 Tu	0151	0.1	3	21 W	0244	0.3	9	6 F	0258	0.0	0	21 Sa	0338	0.7	21	6 Su	0347	-0.2	-6	21 M	0352	0.5	15
	0809	5.1	155		0904	5.0	152		0924	5.2	158		1002	4.4	134		1009	5.0	152		1011	4.0	122
	1437	0.3	9		1536	0.3	9		1607	0.1	3		1641	0.5	15		1648	-0.3	-9		1642	0.3	9
	2031	4.1	125		2127	3.7	113		2200	3.7	113		2233	3.1	94		2253	3.7	113		2243	3.1	94
7 W	0230	0.2	6	22 Th	0326	0.6	18	7 Sa	0354	0.2	6	22 Su	0423	0.8	24	7 M	0449	0.0	0	22 Tu	0436	0.6	18
	0850	5.1	155		0948	4.7	143		1020	5.0	152		1047	4.1	125		1108	4.7	143		1051	3.8	116
	1524	0.4	12		1624	0.6	18		1705	0.2	6		1727	0.6	18		1745	-0.3	-9		1720	0.3	9
	2114	3.9	119		2214	3.5	107		2303	3.6	110		2324	3.1	94		2357	3.8	116		2327	3.2	98
8 Th	0313	0.3	9	23 F	0410	0.9	27	8 Su	0457	0.4	12	23 M	0514	1.0	30	8 Tu	0555	0.1	3	23 W	0525	0.8	24
	0936	5.0	152		1035	4.5	137		1122	4.8	146		1136	3.9	119		1209	4.3	131		1134	3.6	110
	1616	0.5	15		1715	0.8	24		1807	0.2	6		1814	0.7	21		1843	-0.2	-6		1800	0.4	12
	2204	3.7	113		2306	3.3	101		●	1910	0.2		6	1901	0.7		21	1940	-0.1		-3	1842	0.4	12
9 F	0403	0.4	12	24 Sa	0500	1.1	34	9 M	0013	3.6	110	24 Tu	0019	3.1	94	9 W	0103	3.9	119	24 Th	0016	3.2	98
	1029	4.9	149		1126	4.2	128		0606	0.5	15		0611	1.1	34		0704	0.3	9		0621	0.8	24
	1716	0.6	18		1810	1.0	30		1229	4.6	140		1228	3.7	113		1314	4.0	122		1221	3.3	101
	2305	3.6	110		●	1906	1.0		30	1910	0.2		6	1901	0.7		21	1940	-0.1		-3	1842	0.4	12
10 Sa	0503	0.6	18	25 Su	0004	3.1	94	10 Tu	0124	3.8	116	25 W	0115	3.2	98	10 Th	0206	4.1	125	25 F	0108	3.4	104
	1131	4.8	146		0556	1.2	37		0719	0.5	15		0712	1.1	34		0813	0.3	9		0723	0.8	24
	1822	0.7	21		1224	4.0	122		1338	4.4	134		1322	3.6	110		1418	3.8	116		1316	3.2	98
	●	1906	1.0		30	1906	1.0		30	2010	0.1		3	1946	0.7		21	2036	-0.1		-3	1930	0.3	9
11 Su	0017	3.5	107	26 M	0108	3.1	94	11 W	0230	4.0	122	26 Th	0209	3.4	104	11 F	0306	4.3	131	26 Sa	0203	3.6	110
	0612	0.7	21		0659	1.3	40		0829	0.4	12		0813	1.0	30		0918	0.2	6		0827	0.7	21
	1243	4.7	143		1323	4.0	122		1443	4.3	131		1416	3.5	107		1520	3.6	110		1415	3.1	94
	1930	0.6	18		2000	1.0	30		2105	0.0	0		2031	0.5	15		2129	-0.1	-3		2021	0.2	6
12 M	0134	3.6	110	27 Tu	0208	3.2	98	12 Th	0329	4.4	134	27 F	0259	3.7	113	12 Sa	0400	4.5	137	27 Su	0258	3.9	119
	0727	0.7	21		0802	1.3	40		0933	0.3	9		0911	0.8	24		1017	0.1	3		0928	0.5	15
	1356	4.7	143		1420	3.9	119		1542	4.2	128		1509	3.5	107		1617	3.5	107		1516	3.1	94
	2034	0.4	12		2048	0.9	27		2157	-0.1	-3		2115	0.4	12		2219	-0.1	-3		2115	0.0	0
13 Tu	0244	3.9	119	28 W	0302	3.5	107	13 F	0421	4.7	143	28 Sa	0345	4.0	122	13 Su	0450	4.6	140	28 M	0353	4.3	131
	0839	0.5	15		0900	1.1	34		1031	0.1	3		1004	0.6	18		1111	0.0	0		1026	0.2	6
	1503	4.7	143		1512	4.0	122		1637	4.2	128		1559	3.5	107		1709	3.5	107		1616	3.2	98
	2132	0.2	6		2131	0.7	21		2245	-0.2	-6		2159	0.2	6		2307	-0.1	-3		2209	-0.2	-6
14 W	0346	4.3	131	29 Th	0348	3.8	116	14 Sa	0509	4.9	149	29 Su	0430	4.4	134	14 M	0536	4.7	143	29 Tu	0446	4.6	140
	0944	0.3	9		0952	0.9	27		1125	-0.1	-3		1054	0.3	9		1200	-0.1	-3		1121	-0.1	-3
	1603	4.8	146		1559	4.0	122		1726	4.1	125		1648	3.6	110		1756	3.4	104		1712	3.3	101
	2224	0.0	0		2210	0.5	15		2330	-0.2	-6		2243	0.0	0		2351	-0.1	-3		2304	-0.4	-12
15 Th	0440	4.7	143	30 F	0430	4.1	125	15 Su	0554	5.1	155	30 M	0514	4.7	143	15 Tu	0618	4.7	143	30 W	0538	5.0	152
	1043	0.1	3		1039	0.7	21		1214	-0.2	-6		1143	0.0	0		1246	-0.1	-3		1213	-0.4	-12
	1656	4.8	146		1643	4.1	125		1813	4.0	122		1736	3.7	113		1840	3.4	104		1806	3.5	107
	2312	-0.2	-6		2247	0.3	9		●	1859	3.7		113	2329	-0.2		-6	2358	-0.6		-18	2358	-0.6	-18
31 Sa	0509	4.5	137	31 Su	0509	4.5	137	31 Th	1124	0.4	12	31 O	1304	-0.6	-18	31 O	0629	5.2	158				
	1124	0.4																					

Breakwater Harbor, Delaware, 2009

Times and Heights of High and Low Waters

July				August				September																				
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height															
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm														
1 W	0331	3.7	113		16 Th	0217	3.6	110		1 Sa	0501	3.2	98		16 Su	0406	3.5	107		1 Tu	0013	0.8	24		16 W	0603	4.4	134
	0932	0.3	9			0821	0.3	9			1048	0.7	21			0959	0.2	6			0611	3.6	110			1156	-0.1	-3
	1614	4.5	137			1459	4.5	137			1732	4.5	137			1645	5.0	152			1201	0.6	18			1829	5.2	158
	2232	0.6	18			2119	0.7	21			2359	0.7	21			2311	0.4	12			1834	4.6	140					
2 Th	0431	3.5	107		17 F	0317	3.5	107		2 Su	0555	3.3	101		17 M	0514	3.7	113		2 W	0051	0.6	18		17 Th	0040	-0.1	-3
	1024	0.4	12			0917	0.2	6			1139	0.6	18			1104	0.0	0			0652	3.8	116			0657	4.7	143
	1708	4.6	140			1600	4.8	146			1821	4.6	140			1748	5.3	162			1244	0.5	15			1253	-0.3	-9
	2330	0.5	15			2225	0.5	15													1914	4.7	143			1921	5.3	162
3 F	0529	3.4	104		18 Sa	0422	3.5	107		3 M	0046	0.6	18		18 Tu	0009	0.1	3		3 Th	0126	0.5	15		18 F	0126	-0.3	-9
	1115	0.4	12			1017	0.1	3			0642	3.4	104			0616	4.0	122			0730	4.0	122			0746	5.0	152
	1759	4.6	140			1702	5.0	152			1226	0.5	15			1205	-0.2	-6			1324	0.4	12			1346	-0.4	-12
						2328	0.3	9			1905	4.7	143			1846	5.5	168			1950	4.7	143		●	2009	5.2	158
4 Sa	0023	0.5	15		19 Su	0528	3.6	110		4 Tu	0127	0.5	15		19 W	0103	-0.1	-3		4 F	0158	0.4	12		19 Sa	0211	-0.3	-9
	0621	3.3	101			1118	-0.1	-3			0723	3.5	107			0713	4.3	131			0807	4.2	128			0833	5.2	158
	1203	0.4	12			1802	5.3	162			1309	0.4	12			1304	-0.4	-12			1403	0.3	9			1436	-0.4	-12
	1845	4.7	143								1944	4.7	143			1940	5.5	168		○	2026	4.7	143			2054	5.0	152
5 Su	0110	0.4	12		20 M	0027	0.0	0		5 W	0203	0.4	12		20 Th	0153	-0.3	-9		5 Sa	0229	0.3	9		20 Su	0254	-0.3	-9
	0708	3.4	104			0630	3.8	116			0802	3.7	113			0806	4.7	143			0843	4.4	134			0918	5.3	162
	1248	0.4	12			1217	-0.3	-9			1349	0.4	12		●	1359	-0.5	-15			1441	0.3	9			1526	-0.3	-9
	1928	4.8	146			1901	5.5	168		○	2021	4.8	146		●	2030	5.5	168			2101	4.6	140			2139	4.7	143
6 M	0152	0.4	12		21 Tu	0123	-0.2	-6		6 Th	0237	0.4	12		21 F	0240	-0.4	-12		6 Su	0301	0.2	6		21 M	0336	-0.1	-3
	0749	3.4	104			0729	4.0	122			0839	3.8	116			0856	4.9	149			0920	4.6	140			1003	5.3	162
	1330	0.4	12		●	1315	-0.5	-15			1427	0.3	9			1452	-0.5	-15			1521	0.3	9			1614	0.0	0
	2008	4.8	146			1956	5.7	174			2057	4.8	146			2118	5.4	165			2137	4.5	137			2224	4.4	134
7 Tu	0231	0.3	9		22 W	0216	-0.4	-12		7 F	0309	0.3	9		22 Sa	0325	-0.4	-12		7 M	0335	0.2	6		22 Tu	0419	0.1	3
	0829	3.5	107			0824	4.3	131			0915	4.0	122			0945	5.0	152			0958	4.7	143			1048	5.1	155
	1411	0.4	12			1412	-0.6	-18			1505	0.3	9			1544	-0.4	-12			1602	0.3	9			1704	0.2	6
	2046	4.8	146			2049	5.7	174			2131	4.7	143			2206	5.1	155			2215	4.3	131			2309	4.0	122
8 W	0308	0.3	9		23 Th	0306	-0.5	-15		8 Sa	0340	0.2	6		23 Su	0410	-0.3	-9		8 Tu	0411	0.2	6		23 W	0503	0.4	12
	0906	3.6	110			0918	4.5	137			0951	4.1	125			1033	5.1	155			1038	4.8	146			1135	4.9	149
	1449	0.4	12			1507	-0.6	-18			1543	0.4	12			1637	-0.2	-6			1647	0.4	12			1756	0.5	15
	2123	4.8	146			2140	5.6	171			2206	4.5	137			2252	4.7	143			2256	4.1	125			2357	3.7	113
9 Th	0342	0.3	9		24 F	0354	-0.5	-15		9 Su	0413	0.2	6		24 M	0455	-0.1	-3		9 W	0452	0.3	9		24 Th	0550	0.6	18
	0944	3.6	110			1010	4.6	140			1029	4.2	128			1122	5.0	152			1122	4.8	146			1225	4.6	140
	1528	0.4	12			1602	-0.5	-15			1624	0.4	12			1730	0.1	3			1736	0.5	15			1851	0.8	24
	2159	4.7	143			2230	5.3	162			2242	4.4	134			2340	4.3	131			2342	3.9	119					
10 F	0416	0.3	9		25 Sa	0442	-0.5	-15		10 M	0447	0.2	6		25 Tu	0541	0.1	3		10 Th	0538	0.3	9		25 F	0049	3.5	107
	1021	3.7	113			1102	4.7	143			1108	4.3	131			1212	4.8	146			1213	4.8	146			0642	0.9	27
	1607	0.4	12			1657	-0.3	-9			1707	0.5	15			1825	0.4	12			1832	0.6	18			1320	4.4	134
	2236	4.6	140			2320	5.0	152			2321	4.2	128								1951	1.0	30		○	1951	1.0	30
11 Sa	0450	0.3	9		26 Su	0530	-0.3	-9		11 Tu	0524	0.2	6		26 W	0030	3.9	119		11 F	0036	3.7	113		26 Sa	0147	3.3	101
	1100	3.8	116			1154	4.7	143			1150	4.4	134			0629	0.4	12			0631	0.4	12			0740	1.0	30
	1648	0.5	15			1754	0.0	0			1756	0.6	18			1304	4.6	140			1310	4.8	146			1420	4.3	131
	2313	4.4	134												1925	0.7	21		○	1935	0.7	21			2054	1.1	34	
12 Su	0525	0.3	9		27 M	0010	4.5	137		12 W	0004	3.9	119		27 Th	0124	3.6	110		12 Sa	0138	3.5	107		27 Su	0250	3.3	101
	1141	3.9	119			0618	-0.1	-3			0607	0.3	9			0722	0.7	21			0732	0.5	15			0843	1.1	34
	1732	0.6	18			1248	4.7	143			1238	4.5	137			1401	4.5	137			1415	4.8	146			1522	4.2	128
	2352	4.2	128			1853	0.3	9			1850	0.7	21		○	2028	0.9	27			2043	0.7	21			2154	1.0	30
13 M	0602	0.3	9		28 Tu	0103	4.1	125		13 Th	0054	3.7	113		28 F	0224	3.4	104		13 Su	0247	3.6	110		28 M	0351	3.4	104
	1224	4.0	122			0708	0.1	3			0655	0.3	9			0819	0.8	24			0839	0.5						

Breakwater Harbor, Delaware, 2009

Times and Heights of High and Low Waters

October				November				December																				
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height															
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm														
1 Th	0007	0.6	18		16 F	0014	-0.1	-3		1 Su	0032	0.1	3		16 M	0116	-0.1	-3		1 Tu	0039	-0.2	-6		16 W	0138	-0.1	-3
	0616	4.1	125	0639		5.0	152	0700	4.8		146	0750	5.1	155		0716	5.1	155	0815		4.8	146						
	1215	0.6	18	1242		-0.2	-6	1312	0.2		6	1407	-0.1	-3		1336	-0.2	-6	1435		-0.1	-3						
	1836	4.5	137	1900		4.7	143	1920	4.1		125	2012	3.9	119		1940	3.7	113	2035		3.4	104						
2 F	0041	0.5	15		17 Sa	0059	-0.2	-6		2 M	0111	0.0	0		2 Tu	0158	-0.1	-3		2 W	0126	-0.4	-12		17 Th	0218	0.0	0
	0655	4.4	134	0726		5.2	158	0741	5.1		155	0831	5.1	155		0804	5.3	162	0854		4.8	146						
	1257	0.4	12	1333		-0.2	-6	1356	0.0		0	1451	-0.1	-3		1425	-0.3	-9	1515		0.0	0						
	1915	4.5	137	1947		4.6	140	2003	4.1		125	2053	3.8	116		2029	3.8	116	2113		3.4	104						
3 Sa	0115	0.3	9		18 Su	0142	-0.2	-6		3 Tu	0151	-0.1	-3		3 W	0239	0.0	0		3 Th	0214	-0.5	-15		18 F	0258	0.0	0
	0734	4.6	140	0810		5.3	162	0824	5.3		162	0912	5.0	152		0853	5.4	165	0932		4.7	143						
	1338	0.3	9	1421		-0.2	-6	1441	-0.1		-3	1533	0.0	0		1514	-0.4	-12	1553		0.0	0						
	1953	4.5	137	2031		4.4	134	2048	4.0		122	2134	3.6	110		2120	3.8	116	2151		3.4	104						
4 Su	0149	0.2	6		19 M	0223	-0.1	-3		4 W	0234	-0.2	-6		4 Th	0319	0.2	6		4 F	0305	-0.5	-15		19 Sa	0337	0.1	3
	0811	4.8	146	0853		5.3	162	0909	5.3		162	0952	4.9	149		0943	5.4	165	1009		4.6	140						
	1418	0.2	6	1507		-0.1	-3	1528	-0.1		-3	1616	0.2	6		1605	-0.4	-12	1630		0.1	3						
	2031	4.4	134	2114		4.2	128	2134	3.9		119	2214	3.5	107		2212	3.8	116	2229		3.4	104						
5 M	0224	0.1	3		20 Tu	0305	0.0	0		5 Th	0320	-0.1	-3		5 F	0400	0.3	9		5 Sa	0358	-0.5	-15		20 Su	0416	0.2	6
	0850	5.0	152	0935		5.2	158	0957	5.3		162	1034	4.7	143		1036	5.3	162	1048		4.4	134						
	1500	0.1	3	1553		0.0	0	1618	-0.1		-3	1659	0.3	9		1657	-0.4	-12	1708		0.2	6						
	2110	4.3	131	2157		4.0	122	2224	3.8		116	2256	3.4	104		2307	3.8	116	2309		3.3	101						
6 Tu	0301	0.1	3		21 W	0346	0.2	6		6 F	0410	-0.1	-3		6 Sa	0443	0.5	15		6 Su	0453	-0.3	-9		21 M	0458	0.3	9
	0930	5.1	155	1017		5.0	152	1048	5.2		158	1117	4.5	137		1130	5.1	155	1127		4.2	128						
	1544	0.2	6	1639		0.2	6	1711	0.0		0	1743	0.5	15		1751	-0.3	-9	1746		0.2	6						
	2152	4.1	125	2240		3.8	116	2318	3.7		113	2341	3.3	101					2352		3.3	101						
7 W	0342	0.1	3		22 Th	0429	0.4	12		7 Sa	0504	0.1	3		7 Su	0529	0.6	18		7 M	0005	3.9	119		22 Tu	0542	0.5	15
	1014	5.1	155	1101		4.8	146	1143	5.1		155	1202	4.3	131		1226	4.8	146	1208		4.0	122						
	1631	0.2	6	1726		0.5	15	1808	0.1		3	1828	0.6	18		1846	-0.2	-6	1825		0.3	9						
	2237	3.9	119	2326		3.5	107																					
8 Th	0427	0.2	6		23 F	0514	0.7	21		8 Su	0018	3.7	113		23 M	0029	3.3	101		8 Tu	0106	3.9	119		23 W	0037	3.4	104
	1102	5.1	155	1149		4.6	140	0604	0.2		6	0618	0.8	24		0658	0.0	0	0631		0.6	18						
	1722	0.3	9	1817		0.7	21	1243	4.9		149	1250	4.1	125		1326	4.4	134	1251		3.7	113						
	2328	3.8	116					1908	0.2		6	1915	0.7	21		1943	-0.1	-3	1906		0.3	9						
9 F	0517	0.3	9		24 Sa	0015	3.4	104		9 M	0123	3.7	113		24 Tu	0121	3.3	101		9 W	0210	4.0	122		24 Th	0127	3.5	107
	1156	5.0	152	0604		0.9	27	0710	0.3		9	0713	0.9	27		0806	0.2	6	0725		0.7	21						
	1820	0.5	15	1240		4.4	134	1347	4.7		143	1340	3.9	119		1428	4.1	125	1339		3.5	107						
				1911		0.9	27	2010	0.2		6	2003	0.7	21		2041	-0.1	-3	1951		0.3	9						
10 Sa	0026	3.6	110		25 Su	0108	3.3	101		10 Tu	0231	3.9	119		25 W	0216	3.4	104		10 Th	0314	4.2	128		25 F	0219	3.6	110
	0615	0.4	12	0659		1.0	30	0821	0.4		12	0812	0.9	27		0916	0.2	6	0825		0.7	21						
	1256	4.9	149	1335		4.2	128	1452	4.5		137	1432	3.8	116		1531	3.9	119	1432		3.4	104						
	1923	0.6	18	2007		1.0	30	2111	0.2		6	2050	0.6	18		2137	-0.1	-3	2040		0.3	9						
11 Su	0131	3.6	110		26 M	0206	3.3	101		11 W	0336	4.1	125		26 Th	0310	3.6	110		11 F	0415	4.4	134		26 Sa	0314	3.9	119
	0720	0.5	15	0759		1.1	34	0931	0.3		9	0912	0.9	27		1024	0.2	6	0928		0.6	18						
	1402	4.8	146	1432		4.1	125	1556	4.4		134	1525	3.7	113		1633	3.7	113	1530		3.2	98						
	2029	0.5	15	2102		0.9	27	2207	0.1		3	2136	0.5	15		2231	-0.1	-3	2132		0.2	6						
12 M	0242	3.7	113		27 Tu	0305	3.4	104		12 Th	0437	4.4	134		27 F	0403	3.9	119		12 Sa	0512	4.5	137		27 Su	0411	4.1	125
	0831	0.5	15	0901		1.0	30	1037	0.2		6	1011	0.7	21		1125	0.1	3	1030		0.4	12						
	1511	4.8	146	1528		4.0	122	1656	4.3		131	1618	3.6	110		1731	3.6	110	1630		3.2	98						
	2134	0.4	12	2151		0.8	24	2259	-0.1		-3	2222	0.3	9		2322	-0.1	-3	2225		0.0	0						
13 Tu	0350	3.9	119		28 W	0401	3.6	110		13 F	0532	4.7	143		28 Sa	0453	4.2	128		13 Su	0604	4.7	143		28 M	0507	4.4	134
	0941	0.4	12	1000		0.9	27	1137	0.1		3	1106	0.5	15		1220	0.0	0	1129		0.2	6						
	1616	4.8	146	1620		4.0	122	1751	4.2		128	1710	3.6	110		1825	3.5	107	1729		3.3	101						
	2233	0.2	6	2235		0.7	21	2347	-0.1		-3	2307	0.1	3					2320		-0.2	-6						
14 W	0453	4.3	131		29 Th	0450	3.9	119		14 Sa	0621	4.9	149		29 Su	0541	4.5	137		14 M	0010	-0.1	-3		29 Tu	0602	4.8	146
	1047	0.2	6	1053		0.8	24	1231	-0.1		-3	1158	0.3	9		1309	0.0	0	1225		-0.1	-3						
	1716	4.8	146	1709		4.1	125	1841	4.1		125	1801	3.6	110		1912	3.5	107	1826		3.4	104						
	2326	0.0	0	2315		0.5	15					2353	-0.1	-3														
15 Th	0549	4.6	140		30 F	0536	4.2	128		15 Su	0033	-0.2	-6		30 M	0629	4.9	149		15 Tu	0055	-0.1	-3		30 W	0014	-0.4	-12
	1147	0.0	0	1142		0.6	18	0707	5.1		155	1248	0.0	0		0734	4.8	146	0656		5.1	155						
	1810	4.8	146	1754		4.1	125	1321	-0.1		-3	1851	3.7	113		1354	-0.1	-3	1318		-0.3	-9						
				2354																								

Reedy Point, Delaware, 2009

Times and Heights of High and Low Waters

April				May				June																					
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height																
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm															
1 W	0245	5.9	180		16 Th	0321	5.5	168		1 F	0346	5.9	180		16 Sa	0328	5.6	171		1 M	0537	5.7	174		16 Tu	0429	5.4	165	
	1018	0.5	15			1024	0.8	24			1103	0.3	9			1031	0.8	24			1225	0.1	3			1114	0.6	18	
	1537	4.9	149			1610	4.9	149			1636	5.2	158			1620	5.0	152			1817	6.0	183			1712	5.6	171	
	2213	0.6	18			2215	0.9	27			2310	0.6	18			2311	1.0	30			1911	6.1	186			2357	1.0	30	
2 Th	0352	5.7	174		17 F	0416	5.4	165		2 Sa	0454	5.8	177		17 Su	0422	5.5	168		2 Tu	0054	0.4	12		17 W	0530	5.3	162	
	1120	0.5	15			1115	0.8	24			1159	0.3	9			1118	0.7	21			0636	5.6	171			1205	0.6	18	
	1645	4.9	149			1705	4.9	149			1740	5.4	165			1712	5.2	158			1316	0.1	3			1807	5.8	177	
	2320	0.6	18			2312	1.0	30			0013	0.5	15			2332	1.0	30			2002	6.3	192			1902	6.0	183	
3 F	0505	5.6	171		18 Sa	0514	5.3	162		3 Su	0600	5.7	174		18 M	0520	5.4	165		3 W	0731	5.5	168		18 Th	0632	5.2	158	
	1221	0.4	12			1206	0.8	24			1255	0.2	6			1207	0.7	21			1407	0.2	6			1300	0.5	15	
	1753	5.0	152			1800	5.0	152			1840	5.7	174			1804	5.4	165			2002	6.3	192			1902	6.0	183	
	0028	0.5	15			0012	0.9	27			0115	0.4	12			0034	1.0	30			0247	0.3	9			0208	0.8	24	
4 Sa	0616	5.6	171		19 Su	0613	5.3	162		4 M	0701	5.7	174		19 Tu	0618	5.3	162		4 Th	0824	5.5	168		19 F	0733	5.1	155	
	1321	0.3	9			1258	0.7	21			1349	0.1	3			1257	0.6	18			1455	0.2	6			1359	0.5	15	
	1857	5.3	162			1853	5.2	158			1936	6.0	183			1855	5.6	171			2050	6.4	195			1958	6.2	189	
	0132	0.3	9			0113	0.8	24			0214	0.3	9			0136	0.8	24			0340	0.2	6			0310	0.6	18	
5 Su	0721	5.7	174		20 M	0708	5.3	162		5 Tu	0757	5.7	174		20 W	0715	5.3	162		5 F	0913	5.4	165		20 Sa	0831	5.1	155	
	1417	0.1	3			1349	0.6	18			1439	0.1	3			1349	0.6	18			1542	0.3	9			0831	5.1	155	
	1956	5.6	171			1942	5.4	165			2027	6.2	189			1944	5.9	180			2135	6.4	195			1459	0.4	12	
	0233	0.1	3			0211	0.7	21			0310	0.1	3			0236	0.7	21			0429	0.2	6			2052	6.4	195	
6 M	0820	5.8	177		21 Tu	0800	5.4	165		6 W	0849	5.7	174		21 Th	0809	5.3	162		6 Sa	1000	5.3	162		21 Su	0928	5.2	158	
	1510	-0.1	-3			1438	0.5	15			1528	0.1	3			1440	0.5	15			1626	0.5	15			1558	0.4	12	
	2049	5.9	180			2028	5.6	171			2115	6.4	195			2032	6.1	186			2218	6.3	192			2146	6.6	201	
	0330	-0.1	-3			0306	0.5	15			0402	0.0	0			0334	0.5	15			0515	0.3	9			0506	0.2	6	
7 Tu	0913	5.8	177		22 W	0848	5.4	165		7 Th	0938	5.6	171		22 F	0901	5.3	162		7 Su	1045	5.3	162		22 M	1023	5.2	158	
	1559	-0.1	-3			1524	0.5	15			1613	0.1	3			1531	0.5	15			1707	0.6	18			1656	0.3	9	
	2139	6.1	186			2111	5.9	180			2200	6.4	195			2119	6.3	192			2258	6.3	192			2240	6.7	204	
	0423	-0.2	-6			0359	0.3	9			0451	0.0	0			0429	0.3	9			0558	0.3	9			0559	0.0	0	
8 W	1002	5.8	177		23 Th	0934	5.4	165		8 F	1024	5.6	171		23 Sa	0951	5.3	162		8 M	1128	5.2	158		23 Tu	1117	5.3	162	
	1645	-0.1	-3			1609	0.4	12			1656	0.3	9			1622	0.4	12			1747	0.7	21			1752	0.2	6	
	2225	6.3	192			2152	6.1	186			2242	6.4	195			2206	6.5	198			2337	6.2	189			2333	6.7	204	
	0512	-0.3	-9			0451	0.2	6			0537	0.1	3			0523	0.2	6			0639	0.4	12			0651	-0.1	-3	
9 Th	1048	5.8	177		24 F	1019	5.4	165		9 Sa	1108	5.5	168		24 Su	1042	5.3	162		9 Tu	1209	5.1	155		24 W	1211	5.4	165	
	1728	0.0	0			1653	0.4	12			1737	0.4	12			1714	0.4	12			1825	0.8	24			1848	0.2	6	
	2308	6.3	192			2232	6.3	192			2322	6.3	192			2255	6.6	201			1825	0.8	24			1848	0.2	6	
	0559	-0.2	-6			0541	0.1	3			0621	0.2	6			0617	0.1	3			0014	6.1	186			0027	6.6	201	
10 F	1132	5.7	174		25 Sa	1103	5.4	165		10 Su	1151	5.3	162		25 M	1133	5.3	162		10 W	0718	0.5	15		25 Th	0742	-0.1	-3	
	1808	0.1	3			1738	0.4	12			1815	0.6	18			1807	0.4	12			1249	5.0	152			1306	5.5	168	
	2349	6.2	189			2314	6.4	195			0001	6.2	189			2345	6.6	201			1901	0.8	24			1943	0.2	6	
	0644	-0.1	-3			0631	0.1	3			0703	0.3	9			0709	0.1	3			0049	6.0	183			0121	6.5	198	
11 Sa	1215	5.5	168		26 Su	1149	5.3	162		11 M	1233	5.2	158		26 Tu	1226	5.3	162		11 Th	0756	0.6	18		26 F	0832	-0.2	-6	
	1847	0.3	9			1824	0.4	12			1852	0.8	24			1901	0.4	12			1328	5.0	152			1401	5.6	171	
	0028	6.1	186			2358	6.4	195			0038	6.1	186			0709	0.1	3			1939	0.9	27			2039	0.2	6	
	0727	0.1	3			0723	0.2	6			0744	0.5	15			0801	0.1	3			0125	5.9	180			0217	6.2	189	
12 Su	1258	5.3	162		27 M	1238	5.3	162		12 Tu	1315	5.1	155		27 W	1321	5.3	162		12 F	1407	5.1	155		27 Sa	0922	-0.1	-3	
	1924	0.5	15			1913	0.4	12			1928	0.9	27			1957	0.4	12			2019	0.9	27			1458	5.7	174	
	0108	6.0	183			0046	6.4	195			0116	5.9	180			0133	6.4	195			2019	0.9	27			2135	0.3	9	
	0809	0.3	9			0815	0.2	6			0824	0.6	18			0854	0.1	3			0203	5.8	177			0314	6.0	183	
13 M	1342	5.2	158		28 Tu	1331	5.2	158		13 W	1358	5.0	152		28 Th	1418	5.3	162		13 Sa	1447	5.1	155		28 Su	1011	-0.1	-3	
	2002	0.7	21			2007	0.5	15			2006	0.9	27			2054	0.4	12			2104	1.0	30			1555	5.8	177	
	0149	5.8	177			0140	6.3	192			0156	5.8	177			0232	6.2	189			0245	5.7	174			2233	0.4	12	
	0852	0.5	15			0910	0.3	9			0904	0.7	21			0947	0.1	3			0947	0.6	18			1101	0.0	0	
14 Tu	1428	5.0	152		29 W	1429</																							

Reedy Point, Delaware, 2009

Times and Heights of High and Low Waters

July				August				September																										
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height																					
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm																				
1 W	0029	0.5	15		16 Th	0451	5.2	158		1 Sa	0152	0.7	21		16 Su	0128	1.0	30		1 Tu	0300	0.7	21		16 W	0307	0.3	9						
	0608	5.4	165			1120	0.5	15			0730	5.2	158			0647	5.0	152			0842	5.3	162			0837	5.7	174						
	1242	0.2	6			1724	5.9	180			1349	0.6	18			1317	0.6	18			1458	0.6	18			1514	0.2	6		1514	0.2	6		
	1842	6.1	186								1956	6.1	186			1914	6.2	189			2101	6.1	186			2101	6.4	195		2101	6.4	195		
2 Th	0126	0.5	15		17 F	0038	1.0	30		2 Su	0245	0.6	18		17 M	0231	0.7	21		2 W	0345	0.5	15		17 Th	0359	0.0	0		17 Th	0931	6.0	183	
	0704	5.3	162			0558	5.0	152			0822	5.2	158			0752	5.1	155			0927	5.4	165			0931	6.0	183			0931	6.0	183	
	1333	0.3	9			1223	0.6	18			1440	0.6	18			1425	0.5	15			1546	0.6	18			1611	0.0	0			1611	0.0	0	
	1934	6.2	189			1828	6.1	186			2045	6.1	186			2018	6.4	195			2144	6.1	186			2153	6.5	198			2153	6.5	198	
3 F	0222	0.5	15		18 Sa	0146	0.9	27		3 M	0334	0.5	15		18 Tu	0330	0.4	12		3 Th	0427	0.5	15		18 F	0448	-0.1	-3		18 F	1021	6.2	189	
	0757	5.3	162			0705	5.0	152			0911	5.2	158			0853	5.4	165			1009	5.5	168			1021	6.2	189			1021	6.2	189	
	1422	0.4	12			1331	0.5	15			1528	0.6	18			1528	0.3	9			1631	0.5	15			1705	-0.1	-3			1705	-0.1	-3	
	2024	6.2	189			1931	6.2	189			2130	6.2	189			2116	6.5	198			2223	6.1	186			2242	6.4	195			2242	6.4	195	
4 Sa	0314	0.4	12		19 Su	0250	0.7	21		4 Tu	0420	0.5	15		19 W	0424	0.1	3		4 F	0507	0.4	12		19 Sa	0534	-0.1	-3		19 Sa	1109	6.4	195	
	0848	5.2	158			0809	5.0	152			0956	5.3	162			0949	5.6	171			1046	5.6	171			1109	6.4	195			1109	6.4	195	
	1511	0.5	15			1438	0.4	12			1614	0.6	18			1626	0.1	3			1715	0.5	15			1756	-0.1	-3			1756	-0.1	-3	
	2110	6.2	189			2032	6.4	195			2212	6.2	189			2211	6.6	201			2259	6.0	183			2330	6.3	192			2330	6.3	192	
5 Su	0403	0.4	12		20 M	0350	0.4	12		5 W	0502	0.4	12		20 Th	0515	-0.1	-3		5 Sa	0543	0.5	15		20 Su	0618	-0.1	-3		20 Su	1155	6.4	195	
	0936	5.2	158			0909	5.2	158			1038	5.3	162			1041	5.9	180			1120	5.7	174			1155	6.4	195			1155	6.4	195	
	1557	0.5	15			1541	0.3	9			1657	0.6	18			1721	0.0	0			1757	0.6	18			1845	0.0	0			1845	0.0	0	
	2155	6.2	189			2130	6.6	201			2250	6.1	186			2302	6.6	201			2332	5.9	180											
6 M	0449	0.4	12		21 Tu	0446	0.2	6		6 Th	0542	0.4	12		21 F	0603	-0.2	-6		6 Su	0618	0.5	15		21 M	0701	0.1	3		21 M	1240	6.3	192	
	1022	5.2	158			1005	5.3	162			1117	5.3	162			1132	6.1	186			1151	5.8	177			0701	0.1	3			0701	0.1	3	
	1640	0.6	18			1640	0.2	6			1738	0.6	18			1814	-0.1	-3			1838	0.6	18			1240	6.3	192			1240	6.3	192	
	2236	6.2	189			2226	6.7	204			2326	6.1	186			2352	6.5	198								1934	0.2	6			1934	0.2	6	
7 Tu	0532	0.4	12		22 W	0539	0.0	0		7 F	0618	0.5	15		22 Sa	0649	-0.2	-6		7 M	0005	5.8	177		22 Tu	0103	5.8	177		22 Tu	0743	0.3	9	
	1104	5.2	158			1100	5.5	168			1152	5.4	165			1221	6.2	189			0651	0.5	15			0743	0.3	9			0743	0.3	9	
	1722	0.7	21			1737	0.0	0			1818	0.7	21			1906	0.0	0			1221	5.9	180			1325	6.2	189			1325	6.2	189	
	2314	6.1	186			2319	6.7	204			2359	6.0	183								1921	0.7	21			2022	0.4	12			2022	0.4	12	
8 W	0612	0.4	12		23 Th	0629	-0.2	-6		8 Sa	0653	0.5	15		23 Su	0041	6.3	192		8 Tu	0040	5.7	174		23 W	0151	5.6	171		23 W	0826	0.5	15	
	1144	5.1	155			1153	5.7	174			1224	5.4	165			0734	-0.1	-3			0723	0.6	18			0826	0.5	15			0826	0.5	15	
	1801	0.7	21			1832	0.0	0			1857	0.7	21			1957	0.2	6			1255	6.0	183			1412	6.0	183			1412	6.0	183	
	2350	6.1	186																		2006	0.8	24			2110	0.7	21			2110	0.7	21	
9 Th	0650	0.5	15		24 F	0011	6.6	201		9 Su	0031	5.9	180		24 M	0130	6.1	186		9 W	0120	5.5	168		24 Th	0241	5.3	162		24 Th	0910	0.7	21	
	1222	5.1	155			0718	-0.2	-6			0725	0.5	15			0818	0.1	3			0758	0.6	18			0910	0.7	21			0910	0.7	21	
	1839	0.8	24			1246	5.8	177			1254	5.6	171			1358	6.2	189			1336	6.1	186			1502	5.9	180			1502	5.9	180	
						1926	0.0	0			1936	0.8	24			2048	0.4	12			2057	1.0	30			2201	0.8	24			2201	0.8	24	
10 F	0024	6.0	183		25 Sa	0103	6.4	195		10 M	0104	5.8	177		25 Tu	0220	5.8	177		10 Th	0207	5.3	162		25 F	0335	5.1	155		25 F	0957	0.8	24	
	0725	0.5	15			0805	-0.2	-6			0755	0.5	15			0903	0.3	9			0841	0.6	18			0957	0.8	24			0957	0.8	24	
	1257	5.2	158			1338	5.9	180			1327	5.7	174			1449	6.1	186			1425	6.1	186			1556	5.7	174			1556	5.7	174	
	1916	0.8	24			2019	0.1	3			2018	0.9	27			2140	0.6	18			2156	1.1	34			2253	1.0	30			2253	1.0	30	
11 Sa	0057	5.9	180		26 Su	0155	6.2	189		11 Tu	0141	5.7	174		26 W	0313	5.5	168		11 F	0304	5.1	155		26 Sa	0432	5.0	152		26 Sa	1048	0.9	27	
	0759	0.5	15			0852	-0.1	-3			0827	0.5	15			0949	0.5	15			0936	0.7	21			1048	0.9	27			1048	0.9	27	
	1330	5.2	158			1431	6.0	183			1405	5.8	177			1541	6.0	183			1525	6.0	183			1653	5.7	174			1653	5.7	174	
	1955	0.8	24			2113	0.3	9			2106	1.0	30			2233	0.8	24			2301	1.1	34			2346	1.0	30			2346	1.0	30	
12 Su	0131	5.8	177		27 M	0249	5.9	180		12 W	0226	5.5	168		27 Th	0408	5.3	162		12 Sa	0412	5.0	152		27 Su	0529	5.0	152		27 Su	1142	0.9	27	
	0831	0.5	15			0938	0.0	0			0905	0.5	15			1037																		

Reedy Point, Delaware, 2009

Times and Heights of High and Low Waters

October				November				December																					
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height																
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm															
1 Th	0305	0.5	15		16 F	0332	-0.1	-3		1 Su	0349	0.3	9		16 M	0436	-0.2	-6		1 Tu	0359	0.0	0		16 W	0454	-0.2	-6	
	0853	5.5	168			0911	6.1	186			0936	5.9	180			1023	6.1	186			0946	5.9	180			1044	5.7	174	
	1516	0.5	15			1555	-0.1	-3			1627	0.3	9			1717	-0.2	-6			1657	0.0	0			1741	-0.2	-6	
	2110	5.9	180			2133	6.1	186			2159	5.4	165			2246	5.4	165			2217	4.9	149			2309	4.9	149	
2 F	0348	0.4	12		17 Sa	0419	-0.2	-6		2 M	0431	0.2	6		17 Tu	0520	-0.1	-3		2 W	0449	-0.1	-3		17 Th	0535	-0.1	-3	
	0934	5.7	174			1000	6.3	192			1014	6.0	183			1105	6.1	186			1032	6.0	183			1125	5.7	174	
	1604	0.4	12			1647	-0.1	-3			1716	0.2	6			1803	-0.1	-3			1749	-0.1	-3			1823	-0.1	-3	
	2151	5.9	180			2221	6.0	183			2240	5.3	162			2330	5.2	158			2305	4.9	149			2351	4.8	146	
3 Sa	0428	0.4	12		18 Su	0505	-0.1	-3		3 Tu	0513	0.2	6		18 W	0601	0.1	3		3 Th	0540	-0.1	-3		18 F	0614	0.0	0	
	1012	5.8	177			1045	6.4	195			1053	6.1	186			1146	6.0	183			1120	6.1	186			1204	5.6	171	
	1651	0.4	12			1736	-0.1	-3			1805	0.2	6			1847	0.1	3			1841	-0.1	-3			1903	0.0	0	
	2229	5.8	177			2307	5.9	180			2323	5.2	158			2355	4.9	149			2355	4.9	149						
4 Su	0507	0.4	12		19 M	0548	0.0	0		4 W	0557	0.2	6		19 Th	0613	5.1	155		4 F	0632	-0.2	-6		19 Sa	0631	4.7	143	
	1046	5.9	180			1129	6.4	195			1134	6.2	189			1227	5.8	177			1210	6.0	183			0652	5.1	3	
	1736	0.4	12			1824	0.0	0			1855	0.3	9			1929	0.2	6			1933	-0.1	-3			1241	0.5	168	
	2306	5.7	174			2352	5.7	174																1941		0.1	3		
5 M	0544	0.4	12		20 Tu	0629	0.2	6		5 Th	0607	5.1	155		20 F	0656	4.9	149		5 Sa	0646	4.9	149		20 Su	0611	4.6	140	
	1119	6.1	186			1211	6.2	189			0643	0.2	6			0718	0.4	12			0726	-0.2	-6			0729	0.1	3	
	1821	0.5	15			1910	0.2	6			1218	6.2	189			1307	5.7	174			1303	5.9	180			1319	5.4	165	
	2343	5.6	171								1947	0.3	9			2011	0.4	12			2025	-0.2	-6			2017	0.2	6	
6 Tu	0620	0.4	12		21 W	0637	5.5	168		6 F	0656	5.0	152		21 Sa	0740	4.8	146		6 Su	0714	4.9	149		21 M	0749	4.6	140	
	1154	6.1	186			0710	0.4	12			0734	0.3	9			0757	0.5	15			0822	-0.1	-3			0807	0.2	6	
	1908	0.6	18			1254	6.1	186			1309	6.1	186			1349	5.5	168			1359	5.8	177			1357	5.3	162	
						1955	0.4	12			2040	0.4	12			2052	0.5	15			2117	-0.2	-6			2053	0.2	6	
7 W	0620	0.4	12		22 Th	0637	5.5	168		7 Sa	0656	5.0	152		22 Su	0740	4.8	146		7 M	0714	4.9	149		22 Tu	0749	4.6	140	
	0022	5.4	165			0750	0.5	15			0830	0.3	9			0839	0.5	15			0921	-0.1	-3			0849	0.2	6	
	0658	0.5	15			1337	5.9	180			1406	5.9	180			1434	5.4	165			1500	5.6	171			1438	5.1	155	
	1232	6.2	189			2041	0.6	18			2136	0.4	12			2135	0.5	15			2210	-0.2	-6			2130	0.2	6	
8 Th	0106	5.3	162		23 F	0210	5.0	152		8 Su	0251	4.9	149		23 M	0313	4.6	140		8 Tu	0341	5.0	152		23 W	0311	4.7	143	
	0741	0.5	15			0831	0.7	21			0931	0.4	12			0925	0.6	18			1021	0.0	0			0936	0.3	9	
	1318	6.2	189			1424	5.7	174			1510	5.8	177			1522	5.3	162			1603	5.4	165			1523	5.0	152	
	2051	0.8	24			2127	0.7	21			2233	0.4	12			2218	0.5	15			2304	-0.2	-6			2210	0.2	6	
9 F	0156	5.1	155		24 Sa	0300	4.9	149		9 M	0357	4.9	149		24 Tu	0403	4.7	143		9 W	0443	5.1	155		24 Th	0357	4.7	143	
	0833	0.6	18			0916	0.8	24			1035	0.4	12			1017	0.6	18			1123	0.0	0			1030	0.4	12	
	1411	6.1	186			1514	5.6	171			1618	5.6	171			1615	5.2	158			1706	5.3	162			1615	4.8	146	
	2149	0.9	27			2215	0.8	24			2330	0.3	9			2304	0.5	15			2357	-0.3	-9			2254	0.2	6	
10 Sa	0257	5.0	152		25 Su	0354	4.8	146		10 Tu	0503	5.0	152		25 W	0455	4.7	143		10 Th	0544	5.3	162		25 F	0447	4.8	146	
	0934	0.7	21			1006	0.8	24			1140	0.3	9			1114	0.6	18			1224	0.0	0			1131	0.4	12	
	1515	5.9	180			1609	5.5	168			1726	5.6	171			1711	5.1	155			1807	5.2	158			1713	4.7	143	
	2250	0.9	27			2304	0.8	24																2344		0.1	3		
11 Su	0405	4.9	149		26 M	0449	4.8	146		11 W	0626	0.1	3		26 Th	0548	4.9	149		11 F	0651	-0.3	-9		26 Sa	0542	5.0	152	
	1042	0.7	21			1100	0.8	24			0606	5.3	162			1213	0.6	18			0642	5.5	168			1236	0.4	12	
	1628	5.8	177			1706	5.4	165			1243	0.2	6			1806	5.0	152			1325	-0.1	-3			1813	4.6	140	
	2351	0.7	21			2354	0.8	24			1829	5.6	171								1905	5.1	155						
12 M	0516	5.0	152		27 Tu	0545	4.9	149		12 Th	0705	5.6	171		27 F	0639	5.1	155		12 Sa	0737	5.6	171		27 Su	0638	5.1	155	
	1151	0.6	18			1802	5.4	165			1344	0.1	3			1313	0.5	15			1422	-0.2	-6			1341	0.3	9	
	1740	5.8	177								1928	5.6	171			1900	5.0	152			2000	5.1	155			1912	4.5	137	
13 Tu	0051	0.5	15		28 W	0644	0.7	21		13 F	0800	5.8	177		28 Sa	0728	5.3	162		13 Su	0828	5.7	174		28 M	0734	5.3	162	
	0623	5.2	158			0638	5.1	155			1442	-0.1	-3			1412	0.4	12			1517	-0.3	-9			1443	0.2	6	
	1257	0.5	15			1254	0.7	21			2022	5.6	171			1952	5.0	152			2051	5.1	155			2009	4.6	140	
	1847	5.9	180			1856	5.4	165																					
14 W	0148	0.3	9		29 Th	0133	0.6	18		14 Sa	0303	-0.2	-6		29 Su	0220	0.2	6		14 M	0324	-0.3	-9		29 Tu	0236	-0.1	-3	
	0724	5.5	168			0727	5.3	162			085																		

Philadelphia, Pennsylvania, 2009

Times and Heights of High and Low Waters

January				February				March																									
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height																				
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm																			
1 Th	0424	5.0	152		16 F	0526	5.7	174		1 Su	0512	5.5	168		16 M	0045	-0.3	-9		1 Su	0401	6.1	186		16 M	0503	6.4	195					
	1059	-0.2	-6			1210	-0.7	-21			1223	-0.1	-3			0632	5.8	177			1118	0.0	0			1201	0.1	3					
	1633	5.6	171			1749	5.6	171			1744	5.2	158			1324	-0.2	-6			1635	5.5	168			1737	5.6	171		0503	6.4	195	
	2336	-0.2	-6													1903	5.2	158			2324	0.0	0										
2 F	0504	5.1	155		17 Sa	0036	-0.8	-24		2 M	0034	-0.3	-9		17 Tu	0133	-0.2	-6		2 M	0447	6.1	186		17 Tu	0006	0.3	9					
	1147	-0.1	-3			0618	5.7	174			0605	5.6	171			0725	5.7	174			1211	0.1	3			0553	6.2	189					
	1717	5.5	168			1303	-0.5	-15			1323	0.0	0			1417	-0.1	-3			1728	5.3	162			1250	0.3	9					
				1842	5.4	165		1844	5.0	152		1958	5.0	152						1829	5.5	168											
3 Sa	0018	-0.2	-6		18 Su	0124	-0.7	-21		3 Tu	0128	-0.2	-6		18 W	0223	-0.1	-3		3 Tu	0014	0.1	3		18 W	0052	0.4	12					
	0550	5.2	158			0711	5.6	171			0708	5.6	171			0820	5.6	171			0543	6.1	186			0645	6.1	186					
	1240	-0.1	-3			1357	-0.4	-12			1426	0.1	3			1512	0.0	0			1309	0.3	9			1340	0.4	12					
	1810	5.3	162		1937	5.2	158		1950	4.8	146		2053	5.0	152		1830	5.2	158		1923	5.4	165										
4 Su	0104	-0.2	-6		19 M	0213	-0.5	-15		4 W	0230	-0.1	-3		19 Th	0316	0.0	0		4 W	0111	0.2	6		19 Th	0142	0.5	15					
	0642	5.3	162			0805	5.6	171			0814	5.7	174			0915	5.6	171			0648	6.0	183			0740	6.0	183					
	1340	0.0	0			1452	-0.4	-12			1531	0.1	3			1606	0.0	0			1411	0.3	9			1433	0.5	15					
	1910	5.1	155		2032	5.0	152		2055	4.8	146		2147	5.0	152		1934	5.1	155		2018	5.4	165										
5 M	0157	-0.2	-6		20 Tu	0304	-0.5	-15		5 Th	0335	-0.1	-3		20 F	0410	0.0	0		5 Th	0214	0.2	6		20 F	0236	0.5	15					
	0741	5.5	168			0858	5.6	171			0920	5.8	177			1008	5.7	174			0757	6.0	183			0836	5.9	180					
	1445	0.1	3			1547	-0.3	-9			1635	0.0	0			1659	0.0	0			1514	0.3	9			1527	0.5	15					
	2013	5.0	152		2126	5.0	152		2157	4.9	149		2239	5.1	155		2039	5.1	155		2112	5.4	165										
6 Tu	0256	-0.2	-6		21 W	0355	-0.4	-12		6 F	0439	-0.2	-6		21 Sa	0503	-0.1	-3		6 F	0319	0.2	6		21 Sa	0332	0.5	15					
	0841	5.7	174			0951	5.6	171			1023	6.0	183			1059	5.8	177			0904	6.1	186			0931	6.0	183					
	1551	0.1	3			1642	-0.3	-9			1735	-0.2	-6			1749	0.0	0			1615	0.2	6			1620	0.5	15					
	2116	4.9	149		2219	4.9	149		2257	5.1	155		2328	5.2	158		2142	5.3	162		2205	5.6	171										
7 W	0357	-0.2	-6		22 Th	0446	-0.4	-12		7 Sa	0540	-0.4	-12		22 Su	0553	-0.1	-3		7 Sa	0423	0.1	3		22 Su	0428	0.5	15					
	0942	5.9	180			1041	5.7	174			1122	6.2	189			1146	5.8	177			1007	6.2	189			1023	6.0	183					
	1654	0.0	0			1734	-0.3	-9			1831	-0.4	-12			1835	0.0	0			1714	0.1	3			1710	0.5	15					
	2216	4.9	149		2309	5.0	152		2353	5.3	162						2241	5.6	171		2254	5.8	177										
8 Th	0458	-0.3	-9		23 F	0536	-0.4	-12		8 Su	0637	-0.6	-18		23 M	0013	5.3	162		8 Su	0523	-0.1	-3		23 M	0521	0.4	12					
	1041	6.1	186			1130	5.7	174			1218	6.3	192			0641	-0.2	-6			1106	6.4	195			1112	6.1	186					
	1755	-0.2	-6			1822	-0.3	-9			1924	-0.6	-18			1230	5.9	180			1808	-0.1	-3			1758	0.4	12					
	2314	5.0	152		2357	5.0	152						1919	0.0	0		2336	5.9	180		2340	6.0	183										
9 F	0557	-0.4	-12		24 Sa	0623	-0.4	-12		9 M	0047	5.5	168		24 Tu	0055	5.4	165		9 M	0621	-0.3	-9		24 Tu	0613	0.3	9					
	1138	6.3	192			1215	5.8	177			0732	-0.8	-24			0728	-0.2	-6			1201	6.5	198			1158	6.2	189					
	1852	-0.4	-12			1908	-0.3	-9			1311	6.4	195			1312	5.9	180			1859	-0.3	-9			1843	0.4	12					
								2014	-0.7	-21		2001	0.0	0																			
10 Sa	0010	5.1	155		25 Su	0042	5.0	152		10 Tu	0138	5.8	177		25 W	0134	5.5	168		10 Tu	0028	6.2	189		25 W	0023	6.2	189					
	0654	-0.6	-18			0708	-0.4	-12			0824	-0.8	-24			0813	-0.2	-6			0714	-0.4	-12			0702	0.3	9					
	1234	6.4	195			1258	5.8	177			1402	6.3	192			1351	5.9	180			1252	6.5	198			1241	6.2	189					
	1946	-0.6	-18		1951	-0.3	-9		2101	-0.8	-24		2041	0.0	0		1947	-0.3	-9		1926	0.4	12										
11 Su	0104	5.3	162		26 M	0124	5.0	152		11 W	0228	5.9	180		26 Th	0211	5.7	174		11 W	0116	6.5	198		26 Th	0102	6.3	192					
	0749	-0.7	-21			0752	-0.4	-12			0915	-0.8	-24			0857	-0.2	-6			0806	-0.5	-15			0750	0.2	6					
	1327	6.5	198			1338	5.8	177			1450	6.2	189			1429	5.8	177			1340	6.5	198			1323	6.1	186					
	2037	-0.7	-21		2032	-0.3	-9		2147	-0.8	-24		2120	0.0	0		2032	-0.3	-9		2008	0.4	12										
12 M	0157	5.4	165		27 Tu	0203	5.0	152		12 Th	0316	6.0	183		27 F	0247	5.8	177		12 Th	0203	6.6	201		27 F	0140	6.5	198					
	0842	-0.8	-24			0834	-0.4	-12			1005	-0.8	-24			0942	-0.1	-3			0855	-0.4	-12			0838	0.2	6					
	1420	6.4	195			1416	5.7	174			1539	6.0	183			1507	5.7	174			1426	6.3	192			1404	6.1	186					
	2127	-0.8	-24		2111	-0.3	-9		2231	-0.7	-21		2159	0.0	0		2116	-0.2	-6		2050	0.5	15										
13 Tu	0250	5.5	168		28 W	0241	5.0	152		13 F	0404	6.0	183		28 Sa	0322	5.9	180		13 F	0248	6.6	201		28 Sa	0218	6.7	204					
	0934	-0.9	-27			0916	-0.4	-12			1053	-0.7	-21			1028	-0.1	-3			0942	-0.3	-9			0926	0.3	9					
	1512	6.3	192			1453	5.7	174			1628	5.8	177			1548	5.6	171			1513	6.2	189			1447	6.0	183					
	2215	-0.9	-27		2149	-0.3	-9		2315	-0.6	-18		2239																				

Philadelphia, Pennsylvania, 2009

Times and Heights of High and Low Waters

July				August				September											
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height						
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm					
1 W	0301	0.6	18	16 Th	0217	1.1	34	1 Sa	0424	0.6	18	16 Su	0405	1.1	34				
	0838	6.2	189		0742	5.8	177		0958	5.8	177		0925	5.6	171	1 Tu	0532	0.7	21
	1517	0.2	6		1418	0.6	18		1625	0.5	15		1603	0.7	21		1110	6.1	186
	2110	7.0	213		2013	6.7	204		2222	6.9	210		2151	7.0	213		2329	6.9	210
2 Th	0358	0.6	18	17 F	0321	1.1	34	2 Su	0516	0.6	18	17 M	0506	0.9	27		2 W	0618	0.7	21
	0933	6.1	186		0844	5.7	174		1050	5.9	180		1026	5.8	177	1156		6.2	189
	1608	0.3	9		1519	0.7	21		1716	0.6	18		1706	0.6	18	1822		0.7	21
	2202	7.1	216		2112	6.8	207		2311	6.9	210		2251	7.2	219	1822		0.7	21
3 F	0453	0.5	15	18 Sa	0425	1.0	30	3 M	0606	0.5	15	18 Tu	0603	0.6	18	3 Th	0013	6.9	210
	1026	6.0	183		0945	5.6	171		1139	5.9	180		1124	6.1	186		0701	0.7	21
	1658	0.4	12		1622	0.7	21		1804	0.6	18		1806	0.5	15		1239	6.3	192
	2251	7.1	216		2210	7.0	213		2357	6.9	210		2347	7.3	223		1908	0.7	21
4 Sa	0546	0.5	15	19 Su	0526	0.9	27	4 Tu	0652	0.5	15	19 W	0657	0.4	12	4 F	0054	6.9	210
	1116	6.0	183		1044	5.7	174		1225	5.9	180		1219	6.3	192		0742	0.7	21
	1747	0.5	15		1723	0.6	18		1850	0.6	18		1903	0.3	9		1319	6.4	195
	2337	7.1	216		2308	7.2	219								1953		0.7	21	
5 Su	0635	0.5	15	20 M	0624	0.7	21	5 W	0040	6.9	210	20 Th	0041	7.4	226	5 Sa	0133	6.8	207
	1204	5.9	180		1141	5.8	177		0735	0.6	18		0747	0.2	6		0821	0.7	21
	1833	0.7	21		1823	0.5	15		1308	5.9	180		1311	6.6	201		1356	6.4	195
									1934	0.7	21		1957	0.3	9		2037	0.8	24
6 M	0022	7.1	216	21 Tu	0003	7.4	226	6 Th	0121	6.9	210	21 F	0133	7.4	226	6 Su	0210	6.6	201
	0721	0.5	15		0719	0.5	15		0816	0.6	18		0836	0.1	3		0859	0.7	21
	1250	5.9	180		1237	6.0	183		1349	6.0	183		1402	6.8	207		1431	6.5	198
	1918	0.7	21		1920	0.4	12		2017	0.7	21		2050	0.2	6		2121	0.9	27
7 Tu	0104	7.0	213	22 W	0058	7.5	229	7 F	0200	6.8	207	22 Sa	0223	7.2	219	7 M	0247	6.5	198
	0805	0.6	18		0812	0.3	9		0855	0.6	18		0923	0.1	3		0936	0.7	21
	1334	5.8	177		1331	6.2	189		1427	6.0	183		1452	6.9	210		1505	6.6	201
	2000	0.8	24		2015	0.3	9		2059	0.8	24		2142	0.3	9		2206	0.9	27
8 W	0145	6.9	210	23 Th	0151	7.4	226	8 Sa	0237	6.7	204	23 Su	0313	7.0	213	8 Tu	0324	6.3	192
	0846	0.6	18		0902	0.1	3		0932	0.6	18		1009	0.1	3		1015	0.7	21
	1416	5.8	177		1424	6.3	192		1504	6.1	186		1542	7.0	213		1540	6.8	207
	2041	0.9	27		2109	0.3	9		2141	0.8	24		2233	0.4	12		2253	1.0	30
9 Th	0224	6.9	210	24 F	0244	7.3	223	9 Su	0313	6.5	198	24 M	0403	6.8	207	9 W	0405	6.2	189
	0926	0.6	18		0951	0.0	0		1008	0.6	18		1054	0.2	6		1055	0.8	24
	1456	5.8	177		1518	6.5	198		1539	6.2	189		1632	7.0	213		1620	6.8	207
	2122	0.9	27		2202	0.3	9		2224	0.9	27		2324	0.5	15		2345	1.1	34
10 F	0303	6.8	207	25 Sa	0336	7.1	216	10 M	0349	6.4	195	25 Tu	0455	6.5	198	10 Th	0454	6.0	183
	1003	0.6	18		1038	0.0	0		1044	0.6	18		1140	0.3	9		1142	0.8	24
	1536	5.8	177		1611	6.6	201		1615	6.3	192		1722	6.9	210		1711	6.8	207
	2203	0.9	27		2255	0.3	9		2309	0.9	27								
11 Sa	0341	6.6	201	26 Su	0429	6.9	210	11 Tu	0428	6.3	192	26 W	0015	6.6	18	11 F	0041	1.2	37
	1040	0.6	18		1126	0.0	0		1122	0.5	15		0547	6.2	189		0553	5.8	177
	1615	5.9	180		1704	6.7	204		1653	6.5	198		1226	0.4	12		1236	0.9	27
	2245	0.9	27		2348	0.4	12		2359	1.0	30		1814	6.8	207		1814	6.8	207
12 Su	0419	6.5	198	27 M	0523	6.6	201	12 W	0514	6.1	186	27 Th	0108	0.7	21	12 Sa	0141	1.2	37
	1117	0.5	15		1213	0.0	0		1204	0.6	18		0642	6.0	183		0659	5.7	174
	1655	6.0	183		1757	6.8	207		1740	6.6	201		1315	0.6	18		1337	0.9	27
	2329	0.9	27								1908		6.8	207	1923		6.8	207	
13 M	0500	6.4	195	28 Tu	0042	0.5	15	13 Th	0055	1.1	34	28 F	0201	0.8	24	13 Su	0243	1.2	37
	1155	0.5	15		0618	6.4	195		0611	5.9	180		0738	5.9	180		0805	5.7	174
	1737	6.2	189		1301	0.1	3		1254	0.6	18		1406	0.7	21		1443	0.9	27
					1851	6.8	207		1838	6.6	201		2003	6.7	204		2031	6.9	210
14 Tu	0019	0.9	27	29 W	0137	0.5	15	14 F	0157	1.2	37	29 Sa	0256	0.9	27	14 M	0345	1.1	34
	0546	6.2	189		0713	6.1	186		0715	5.7	174		0833	5.8	177		0909	5.8	177
	1236	0.5	15		1351	0.2	6		1352	0.7	21		1458	0.7	21		1548	0.8	24
	1823	6.3	192		1944	6.8	207		1942	6.7	204		2058	6.7	204		2135	7.0	213
15 W	0115	1.0	30	30 Th	0233	0.6	18	15 Sa	0301	1.2	37	30 Su	0350	0.8	24	15 Tu	0444	0.9	27
	0641	6.0	183		0809	6.0	183		0821	5.6	171		0928	5.9	180		1010	6.1	186
	1323	0.5	15		1442	0.4	12		1457	0.8	24		1551	0.7	21		1651	0.7	21
	1916	6.5	198		2038	6.8	207		2047	6.8	207		2151	6.8	207		2235	7.2	219
			31 F	0329	0.6	18				31 M	0443	0.8	24						
				0904	5.9	180					1021	6.0	183						
				1534	0.5	15					1644	0.7	21						
				2131	6.8	207					2242	6.8	207						

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, 2009

Times and Heights of High and Low Waters

October				November				December																									
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height																				
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm																			
1 Th	0540	0.8	24		16 F	0605	0.3	9		1 Su	0629	0.6	18		16 M	0029	6.2	189		1 Tu	0006	5.5	168		16 W	0054	5.5	168					
	1124	6.4	195			1140	7.1	216			1212	6.7	204			0712	0.0	0			0644	0.2	6			0730	-0.2	-6					
	1753	0.7	21			1829	0.3	9			1905	0.6	18			1251	7.0	213			1223	6.6	201			1312	6.4	195		0214	-0.2	-6	
	2341	6.8	207													1950	0.0	0			1934	0.2	6										
2 F	0624	0.7	21		17 Sa	0003	7.0	213		2 M	0035	6.2	189		17 Tu	0116	6.1	186		2 W	0054	5.5	168		17 Th	0139	5.4	165					
	1206	6.6	201			0653	0.2	6			0714	0.6	18			0756	0.2	6			0734	0.1	3			0813	-0.1	-3					
	1842	0.7	21			1228	7.3	223			1252	6.9	210			1334	7.0	213			1309	6.7	204			1354	6.3	192					
				1921		0.2	6		1955		0.6	18		2037		0.1	3		2026		0.1	3		2057		-0.2	-6						
3 Sa	0024	6.7	204		18 Su	0051	6.9	210		3 Tu	0118	6.1	186		18 W	0201	6.0	183		3 Th	0142	5.5	168		18 F	0222	5.3	162					
	0706	0.7	21			0739	0.2	6			0758	0.6	18			0839	0.3	9			0824	0.1	3			0854	-0.1	-3					
	1246	6.7	204			1314	7.4	226			1332	7.0	213			1417	6.8	207			1357	6.7	204			1436	6.2	189					
	1929	0.7	21			2011	0.3	9			2044	0.6	18			2122	0.3	9			2117	0.1	3			2138	-0.1	-3					
4 Su	0104	6.6	201		19 M	0137	6.7	204		4 W	0201	6.0	183		19 Th	0245	5.8	177		4 F	0231	5.4	165		19 Sa	0305	5.2	158					
	0747	0.7	21			0824	0.4	12			0844	0.6	18			0921	0.4	12			0916	0.0	0			0934	0.0	0					
	1324	6.8	207			1359	7.3	223			1414	7.0	213			1500	6.7	204			1448	6.7	204			1517	6.1	186					
	2016	0.8	24			2059	0.4	12			2134	0.6	18			2205	0.4	12			2208	0.0	0			2218	0.0	0					
5 M	0144	6.5	198		20 Tu	0224	6.5	198		5 Th	0247	5.8	177		20 F	0331	5.6	171		5 Sa	0324	5.4	165		20 Su	0347	5.1	155					
	0827	0.8	24			0907	0.5	15			0932	0.6	18			1002	0.5	15			1009	-0.1	-3			1014	0.0	0					
	1400	6.9	210			1443	7.2	219			1459	7.0	213			1543	6.5	198			1542	6.6	201			1559	5.9	180					
	2102	0.9	27			2145	0.5	15			2225	0.6	18			2248	0.4	12			2300	-0.1	-3			2256	0.0	0					
6 Tu	0223	6.3	192		21 W	0310	6.3	192		6 F	0337	5.7	174		21 Sa	0416	5.5	168		6 Su	0419	5.4	165		21 M	0430	5.1	155					
	0908	0.8	24			0950	0.6	18			1022	0.6	18			1043	0.5	15			1103	-0.1	-3			1055	0.0	0					
	1436	7.0	213			1527	7.1	216			1551	6.9	210			1628	6.4	195			1639	6.4	195			1641	5.8	177					
	2150	0.9	27			2231	0.7	21			2318	0.6	18			2330	0.5	15			2351	-0.1	-3			2335	-0.1	-3					
7 W	0304	6.2	189		22 Th	0357	6.1	186		7 Sa	0432	5.6	171		22 Su	0504	5.4	165		7 M	0517	5.5	168		22 Tu	0514	5.1	155					
	0951	0.8	24			1032	0.7	21			1116	0.6	18			1126	0.5	15			1159	-0.1	-3			1138	0.0	0					
	1515	7.0	213			1613	6.9	210			1649	6.8	207			1716	6.2	189			1738	6.2	189			1726	5.6	171					
	2240	1.0	30			2317	0.8	24																									
8 Th	0350	6.0	183		23 F	0446	5.9	180		8 Su	0011	0.6	18		23 M	0013	0.5	15		8 Tu	0044	-0.2	-6		23 W	0014	-0.1	-3					
	1037	0.8	24			1115	0.8	24			0532	5.6	171			0553	5.4	165			0616	5.6	171			0559	5.1	155					
	1601	7.0	213			1701	6.7	204			1213	0.5	15			1212	0.5	15			1258	-0.1	-3			1226	0.0	0					
	2332	1.1	34								1752	6.6	201			1806	6.1	186			1839	6.1	186			1815	5.4	165					
9 F	0442	5.9	180		24 Sa	0003	0.9	27		9 M	0107	0.5	15		24 Tu	0058	0.4	12		9 W	0137	-0.3	-9		24 Th	0056	-0.1	-3					
	1128	0.9	27			0537	5.8	177			0634	5.7	174			0643	5.4	165			0716	5.7	174			0647	5.2	158					
	1657	6.9	210			1201	0.8	24			1314	0.5	15			1302	0.5	15			1357	-0.1	-3			1319	0.1	3					
						1753	6.6	201			1856	6.5	198			1858	5.9	180			1939	5.9	180			1907	5.3	162					
10 Sa	0027	1.1	34		25 Su	0051	0.9	27		10 Tu	0203	0.4	12		25 W	0144	0.4	12		10 Th	0230	-0.4	-12		25 F	0142	-0.1	-3					
	0542	5.7	174			0630	5.7	174			0736	5.8	177			0735	5.5	168			0814	5.9	180			0737	5.3	162					
	1225	0.9	27			1249	0.9	27			1415	0.5	15			1357	0.5	15			1457	-0.1	-3			1418	0.1	3					
	1801	6.8	207			1846	6.4	195			1959	6.4	195			1952	5.8	177			2038	5.8	177			2001	5.1	155					
11 Su	0125	1.1	34		26 M	0140	0.9	27		11 W	0258	0.3	9		26 Th	0232	0.4	12		11 F	0324	-0.4	-12		26 Sa	0233	-0.1	-3					
	0647	5.7	174			0723	5.7	174			0837	6.1	186			0826	5.6	171			0911	6.1	186			0829	5.5	168					
	1326	0.9	27			1341	0.9	27			1517	0.4	12			1455	0.5	15			1557	-0.2	-6			1519	0.2	6					
	1909	6.8	207			1941	6.4	195			2100	6.4	195			2046	5.7	174			2135	5.7	174			2057	5.0	152					
12 M	0225	1.0	30		27 Tu	0230	0.9	27		12 Th	0353	0.1	3		27 F	0322	0.3	9		12 Sa	0417	-0.4	-12		27 Su	0328	-0.1	-3					
	0752	5.8	177			0817	5.8	177			0934	6.4	195			0917	5.8	177			1005	6.3	192			0922	5.6	171					
	1430	0.9	27			1436	0.8	24			1617	0.3	9			1554	0.5	15			1654	-0.3	-9			1621	0.1	3					
	2016	6.8	207			2036	6.3	192			2157	6.4	195			2138	5.6	171			2229	5.6	171			2153	4.9	149					
13 Tu	0323	0.8	24		28 W	0320	0.8	24		13 F	0446	0.0	0		28 Sa	0413	0.3	9		13 Su	0509	-0.4	-12		28 M	0425	-0.1	-3					
	0854	6.1	186			0910	5.9	180			1028	6.7	204			1006	6.0	183			1056	6.4	195			1015	5.9	180					
	1534	0.8	24			1533	0.8	24			1715	0.1	3			1651	0.4	12			1749	-0.3	-9			1721	0.1	3					
	2119	6.8	207			2128	6.3	192			2251	6.4	195			2229	5.6	171			2320	5.6	171			2247	5.0	152					
14 W	0420	0.6	18		29 Th	0410	0.7	21		14 Sa	0537	-0.1	-3	</																			

Ocean City, Maryland, 2009

Times and Heights of High and Low Waters

January				February				March																		
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height													
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm												
1 Th	0405	0.2	6	16 F	0519	-0.3	-9	1 Su	0525	0.1	3	16 M	0007	3.2	98	1 Su	0414	-0.1	-3	16 M	0511	0.2	6			
	1024	3.5	107		1121	3.2	98		1120	3.0	91		0640	0.4	12		1013	3.2	98		1058	2.7	82			
	1647	0.2	6		1745	-0.3	-9		1738	0.0	0		1222	2.4	73		1622	-0.1	-3		1708	0.2	6	1708	0.2	6
	2246	3.0	91		2354	3.2	98		2355	3.4	104		1839	0.2	6		2240	3.8	116		2328	3.4	104			
2 F	0454	0.3	9	17 Sa	0618	0.0	0	2 M	0623	0.3	9	17 Tu	0104	3.0	91	2 M	0508	0.1	3	17 Tu	0603	0.5	15			
	1105	3.3	101		1210	2.8	85		1211	2.8	85		0739	0.6	18		1059	3.0	91		1145	2.5	76			
	1729	0.2	6		1833	-0.1	-3		1830	0.0	0		1318	2.2	67		1711	0.0	0		1711	0.0	0	1758	0.4	12
	2333	3.1	94		●	●	1932		0.3	9	1932		0.3	9	2333		3.8	116								
3 Sa	0547	0.4	12	18 Su	0050	3.1	94	3 Tu	0054	3.5	107	18 W	0208	3.0	91	3 Tu	0607	0.2	6	18 W	0022	3.2	98			
	1150	3.1	94		0718	0.3	9		0726	0.3	9		0842	0.7	21		1152	2.8	85		0658	0.7	21			
	1814	0.2	6		1304	2.5	76		1312	2.6	79		1420	2.2	67		1808	0.0	0		1239	2.3	70			
	●	1923	0.1		3	1928	-0.1		-3	2028	0.4		12	2028	0.4		12	1852	0.6		18					
4 Su	0025	3.2	98	19 M	0151	3.1	94	4 W	0201	3.6	110	19 Th	0312	3.0	91	4 W	0034	3.7	113	19 Th	0123	3.0	91			
	0646	0.4	12		0821	0.5	15		0833	0.3	9		0945	0.7	21		0711	0.3	9		0756	0.9	27			
	1242	2.9	88		1401	2.3	70		1419	2.5	76		1521	2.2	67		1255	2.6	79		1340	2.3	70			
	1903	0.1	3		2014	0.2	6		2031	-0.2	-6		2126	0.3	9		1910	0.0	0		1950	0.6	18			
5 M	0124	3.4	104	20 Tu	0252	3.1	94	5 Th	0309	3.8	116	20 F	0409	3.1	94	5 Th	0143	3.7	113	20 F	0228	3.0	91			
	0748	0.4	12		0925	0.5	15		0941	0.2	6		1041	0.7	21		0818	0.3	9		0855	0.9	27			
	1341	2.8	85		1500	2.2	67		1527	2.6	79		1615	2.4	73		1405	2.6	79		1444	2.4	73			
	1956	0.0	0		2107	0.2	6		2136	-0.4	-12		2221	0.2	6		2017	0.0	0		2049	0.6	18			
6 Tu	0226	3.6	110	21 W	0350	3.1	94	6 F	0414	4.0	122	21 Sa	0457	3.3	101	6 F	0254	3.7	113	21 Sa	0327	3.1	94			
	0853	0.3	9		1027	0.5	15		1046	0.0	0		1125	0.5	15		0926	0.2	6		0949	0.8	24			
	1444	2.7	82		1555	2.2	67		1630	2.8	85		1702	2.6	79		1515	2.7	82		1540	2.6	79			
	2054	-0.2	-6		2200	0.2	6		2240	-0.6	-18		2311	0.1	3		2125	-0.2	-6		2146	0.4	12			
7 W	0329	3.9	119	22 Th	0441	3.3	101	7 Sa	0513	4.2	128	22 Su	0540	3.5	107	7 Sa	0400	3.8	116	22 Su	0418	3.3	101			
	0958	0.1	3		1119	0.5	15		1145	-0.3	-9		1203	0.4	12		1029	0.1	3		1036	0.6	18			
	1546	2.8	85		1645	2.3	70		1729	3.0	91		1746	2.8	85		1619	2.9	88		1630	2.9	88			
	2154	-0.4	-12		2251	0.1	3		2340	-0.8	-24		2356	-0.1	-3		2230	-0.4	-12		2239	0.3	9			
8 Th	0429	4.2	128	23 F	0526	3.4	104	8 Su	0609	4.3	131	23 M	0619	3.6	110	8 Su	0459	3.9	119	23 M	0502	3.4	104			
	1102	-0.1	-3		1201	0.4	12		1236	-0.5	-15		1238	0.2	6		1125	-0.2	-6		1117	0.4	12			
	1645	2.9	88		1730	2.5	76		1824	3.2	98		1828	3.1	94		1716	3.2	98		1714	3.2	98			
	2254	-0.6	-18		2337	-0.1	-3		●	●	1909		3.3	101	2331		-0.6	-18	2327		0.1	3				
9 F	0526	4.4	134	24 Sa	0608	3.5	107	9 M	0036	-1.0	-30	24 Tu	0038	-0.2	-6	9 M	0552	4.0	122	24 Tu	0543	3.6	110			
	1200	-0.3	-9		1237	0.3	9		0700	4.3	131		0658	3.7	113		1213	-0.4	-12		1155	0.2	6			
	1743	3.0	91		1813	2.6	79		1324	-0.7	-21		1312	0.0	0		1809	3.5	107		1757	3.5	107			
	2352	-0.8	-24		●	●	1917		3.5	107	●		●	1909	3.3		101	●	●							
10 Sa	0622	4.6	140	25 Su	0020	-0.2	-6	10 Tu	0129	-1.1	-34	25 W	0118	-0.3	-9	10 Tu	0025	-0.8	-24	25 W	0012	-0.1	-3			
	1254	-0.5	-15		0648	3.7	113		0749	4.2	128		0736	3.7	113		0640	4.0	122		0623	3.6	110			
	1838	3.1	94		1312	0.2	6		1408	-0.8	-24		1347	-0.1	-3		1257	-0.5	-15		1233	0.0	0			
	●	1855	2.8		85	1855	2.8		85	2007	3.6		110	1949	3.5		107	1858	3.8		116	1838	3.8	116		
11 Su	0047	-1.0	-30	26 M	0100	-0.3	-9	11 W	0219	-1.0	-30	26 Th	0159	-0.3	-9	11 W	0116	-0.8	-24	26 Th	0055	-0.2	-6			
	0716	4.6	140		0727	3.7	113		0836	4.0	122		0814	3.7	113		0726	3.9	119		0703	3.7	113			
	1345	-0.7	-21		1346	0.1	3		1452	-0.7	-21		1422	-0.2	-6		1339	-0.6	-18		1310	-0.1	-3			
	1933	3.3	101		●	●	1936		2.9	88	2055		3.7	113	2029		3.6	110	1944		3.9	119	●	●		
12 M	0141	-1.1	-34	27 Tu	0140	-0.3	-9	12 Th	0309	-0.8	-24	27 F	0241	-0.3	-9	12 Th	0203	-0.8	-24	27 F	0139	-0.3	-9			
	0809	4.5	137		0805	3.8	116		0920	3.7	113		0852	3.6	110		0810	3.7	113		0744	3.6	110			
	1434	-0.7	-21		1421	0.0	0		1535	-0.6	-18		1459	-0.2	-6		1419	-0.6	-18		1348	-0.2	-6			
	2027	3.4	104		2017	3.0	91		2142	3.6	110		2110	3.8	116		2029	4.0	122		2003	4.2	128			
13 Tu	0234	-1.0	-30	28 W	0219	-0.3	-9	13 F	0400	-0.5	-15	28 Sa	0326	-0.2	-6	13 F	0249	-0.6	-18	28 Sa	0223	-0.3	-9			
	0858	4.3	131		0842	3.7	113		1004	3.4	104		0931	3.4	104		0852	3.5	107		0826	3.5	107			
	1521	-0.7	-21		1456	0.0	0		1618	-0.4	-12		1538	-0.1	-3		1459	-0.4	-12		1428	-0.2	-6			
	2119	3.4	104		2056	3.1	94		2229	3.5	107		2153	3.8	116		2113	3.9	119		2047	4.3	131			
14 W	0328	-0.8	-24	29 Th	0300	-0.2	-6	14 Sa	0451	-0.2	-6	14 Sa	0335	-0.4	-12	14 Sa	0335	-0.4	-12	29 Su	0310	-0.3	-9			
	0947	4.0	122		0919	3.6	110		1047	3.0	91		0934	3.2	98		0934	3.2	98		0910	3.4	104			
	1609	-0.6	-18		1532	0.0	0		1702	-0.2	-6		1539	-0.2	-6		1539	-0.2	-6		1512	-0.2	-6			
	2210	3.4	104		2136	3.2	98		2316	3.4	104		2156	3.8	116		2156	3.8	116		2133	4.3	131			
15 Th	0422	-0.6	-18	30 F	0344	-0.1	-3	15 Su	0544	0.1	3	15 Su	0422	-0.1	-3	15 Su	0422	-0.1	-3	30 M	0401	-0.1	-3			
	1034	3.7	113		0956	3.5	107		1132	2.7	82		1015	2.9	88		1015	2.9	88		0955	3.2	98			
	1657	-0.5	-15		1611	0.0	0		1749	0.0	0		1622	0.0	0		1622	0.0	0		1559	-0.1	-3			
	2301	3.3	101		2218	3.3	101		●	●	2240		3.6	110	2240		3.6	110	2223		4.2	128				
31 Sa	0432	0.0	0	31 Sa	0432	0.0	0	31 Tu	0456	0.1	3	31 Tu	0456	0.1	3	31										

Ocean City, Maryland, 2009

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 W	0556	0.2	6		16 Th	0621	0.8	24		1 F	0007	4.0	122		16 Sa	0000	3.4	104		1 M	0150	3.3	101		16 Tu	0057	3.2	98						
	1141	2.8	85			1206	2.5	76			0645	0.2	6			0631	0.8	24			0811	0.1	3			0717	0.5	15						
	1754	0.1	3			1815	0.7	21			1238	3.0	91			1835	0.8	24			1433	3.5	107			2050	0.3	9		1336	3.4	104		
2 Th	0020	3.9	119		17 F	0040	3.2	98		2 Sa	0112	3.8	116		17 Su	0051	3.3	101		2 Tu	0250	3.1	94		17 W	0151	3.1	94		17 Th	0804	0.4	12	
	0659	0.3	9			0713	0.9	27			0745	0.2	6			0718	0.8	24			0902	0.1	3			1531	3.7	113			1431	3.7	113	
	1245	2.7	82			1303	2.5	76			1347	3.1	94			1931	0.8	24			2155	0.3	9			2052	0.6	18			1621	4.3	131	
3 F	0129	3.7	113		18 Sa	0139	3.2	98		3 Su	0218	3.6	110		18 M	0145	3.2	98		3 W	0346	2.9	88		18 Th	0247	3.0	91		18 Fr	0855	0.3	9	
	0804	0.3	9			0805	0.9	27			0842	0.2	6			0804	0.7	21			0952	0.1	3			1622	3.8	116			1527	4.0	122	
	1357	2.8	85			1404	2.6	79			1454	3.3	101			1419	3.1	94			1622	3.8	116			2254	0.3	9			2152	0.5	15	
4 Sa	0239	3.7	113		19 Su	0237	3.2	98		4 M	0320	3.4	104		19 Tu	0239	3.2	98		4 Th	0436	2.8	85		19 F	0344	3.0	91		19 Sa	0948	0.1	3	
	0907	0.3	9			0855	0.8	24			0936	0.1	3			0850	0.5	15			1039	0.1	3			1708	3.9	119			2252	0.2	6	
	1507	3.0	91			1501	2.9	88			1553	3.5	107			1511	3.5	107			2346	0.2	6			2349	0.0	0			1714	4.6	140	
5 Su	2116	0.0	0		20 M	2108	0.6	18		5 Tu	2210	0.1	3		20 W	2126	0.6	18		5 F	0522	2.8	85		20 Sa	0439	3.1	94		20 Su	1044	-0.1	-3	
	0343	3.7	113			0329	3.3	101			0415	3.3	101			0331	3.2	98			1125	0.1	3			1751	4.0	122			1714	4.6	140	
	1006	0.1	3			0942	0.7	21			1026	0.0	0			0938	0.4	12			1751	4.0	122			2349	0.0	0			1074	-0.1	-3	
6 M	1608	3.3	101		21 Tu	1552	3.2	98		6 W	1644	3.8	116		21 Th	1601	3.8	116		6 Sa	0606	2.8	85		21 Su	0533	3.2	98		21 M	1139	-0.3	-9	
	2221	-0.1	-3			2203	0.5	15			2309	0.0	0			2317	0.1	3			1833	4.1	125			1808	4.8	146			1233	-0.5	-15	
	0440	3.7	113			0417	3.4	104			0504	3.2	98			0421	3.2	98			0606	2.8	85			1139	-0.3	-9			1903	4.9	149	
7 Tu	1058	-0.1	-3		22 W	1027	0.5	15		7 Th	1112	-0.1	-3		22 F	1026	0.2	6		7 Su	0111	0.2	6		22 M	0628	3.3	101		22 Tu	1233	-0.5	-15	
	1702	3.6	110			1638	3.5	107			1730	4.0	122			1738	4.5	137			1249	0.1	3			1915	4.1	125			1903	4.9	149	
	2321	-0.3	-9			2255	0.3	9			0000	-0.1	-3			0510	3.3	101			1915	4.1	125			0648	2.8	85			1903	4.9	149	
8 W	0530	3.7	113		23 Th	1110	0.2	6		8 F	0549	3.2	98		23 Sa	1115	0.0	0		8 M	0149	0.2	6		23 Tu	0723	3.4	104		23 W	1237	-0.6	-18	
	1144	-0.2	-6			1723	3.9	119			1155	-0.1	-3			1203	-0.2	-6			1957	4.0	122			1957	4.9	149			0723	3.4	104	
	1751	3.8	116			2344	0.0	0			1813	4.1	125			1828	4.7	143			0149	0.2	6			1957	4.9	149			1957	4.9	149	
9 Th	0014	-0.4	-12		24 F	0046	-0.1	-3		9 Sa	0046	-0.1	-3		24 Su	0009	-0.1	-3		9 Tu	0731	2.8	85		24 W	0227	-0.4	-12		24 Th	1422	-0.6	-18	
	0616	3.6	110			1152	0.0	0			0632	3.1	94			0650	3.4	104			1410	0.2	6			2038	4.0	122			1422	-0.6	-18	
	1227	-0.3	-9			1807	4.2	128			1236	-0.1	-3			1253	-0.4	-12			2038	4.0	122			2038	4.0	122			2050	4.8	146	
10 Fr	1836	4.0	122		25 Sa	1855	4.2	128		10 Su	0128	-0.1	-3		25 M	0100	-0.2	-6		10 W	0227	0.3	9		25 Th	0818	3.5	107		25 Fr	1422	-0.6	-18	
	0101	-0.5	-15			0032	-0.1	-3			0714	3.0	91			0650	3.4	104			0813	2.8	85			2119	3.9	119			1422	-0.6	-18	
	0700	3.5	107			1234	-0.1	-3			1315	-0.1	-3			1253	-0.4	-12			1410	0.2	6			2119	3.9	119			2050	4.8	146	
11 Sa	1307	-0.3	-9		26 Su	1852	4.5	137		11 M	1937	4.2	128		26 Tu	0100	-0.2	-6		11 Th	0813	2.8	85		26 W	0818	3.5	107		26 Th	1422	-0.6	-18	
	1919	4.1	125			0119	-0.3	-9			0249	0.1	3			0650	3.4	104			1410	0.2	6			2038	4.0	122			1422	-0.6	-18	
	0146	-0.4	-12			0716	3.5	107			0838	2.9	88			1435	-0.4	-12			2038	4.0	122			2038	4.0	122			2050	4.8	146	
12 Su	0742	3.4	104		27 M	0209	0.0	0		12 Tu	0249	0.1	3		27 W	0151	-0.3	-9		12 F	0306	0.4	12		27 Sa	0318	-0.4	-12		27 Su	0818	3.5	107	
	1346	-0.3	-9			0756	3.0	91			0249	0.1	3			0742	3.4	104			0306	0.4	12			0818	3.5	107			0818	3.5	107	
	2002	4.1	125			1354	0.0	0			0838	2.9	88			1343	-0.4	-12			0813	2.8	85			0818	3.5	107			1422	-0.6	-18	
13 M	0229	-0.3	-9		28 Tu	2019	4.1	125		13 W	2019	4.1	125		28 Th	2011	4.0	122		13 Sa	0346	0.4	12		28 Su	0913	3.5	107		28 M	1518	-0.5	-15	
	0824	3.2	98			0207	-0.3	-9			0413	0.5	15			0243	-0.3	-9			0346	0.4	12			0913	3.5	107			1518	-0.5	-15	
	1425	-0.2	-6			0803	3.4	104			1002	2.8	85			0431	-0.2	-6			0346	0.4	12			0913	3.5	107			1518	-0.5	-15	
14 Tu	2044	4.1	125		29 W	2101	4.0	122		14 Th	1434	0.2	6		29 F	2104	4.8	146		14 Sa	1533	0.4	12		29 Su	1616	-0.3	-9		29 M	2234	4.3	131	
	0311	-0.1	-3			1403	-0.3	-9			1600	0.5	15			2104	4.8	146			1533	0.4	12			1616	-0.3	-9			2234	4.3	131	
	0905	3.0	91			2027	4.7	143			2227	3.7	113			2104	4.8	146			2200	3.8	116			1616	-0.3	-9			2234	4.3	131	
15 W	1504	0.0	0		30 Th	0256	-0.3	-9		15 F	0330	0.3	9		30 Sa	0243	-0.3	-9		15 M	0426	0.5	15		30 Tu	0502	-0.3	-9		30 W	1104	3.6	110	
	2126	3.9	119			0851	3.3	101			0920	2.8	85			0336	-0.3	-9																

Ocean City, Maryland, 2009

Times and Heights of High and Low Waters

July				August				September															
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height										
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm									
1 W	0216	2.8	85	16 Th	0110	3.0	91	1 Sa	0339	2.5	76	16 Su	0254	2.9	88	1 Tu	0450	3.0	91	16 W	0446	3.7	113
	0827	0.2	6		0726	0.4	12		0940	0.5	15		0901	0.2	6		1055	0.5	15		1058	-0.1	-3
	1503	3.6	110		1356	3.8	116		1623	3.7	113		1540	4.3	131		1723	3.9	119		1719	4.5	137
	2134	0.5	15		2023	0.7	21		2306	0.8	24		2213	0.5	15		2349	0.7	21		2341	0.0	0
2 Th	0314	2.6	79	17 F	0211	2.9	88	2 Su	0431	2.6	79	17 M	0358	3.1	94	2 W	0533	3.2	98	17 Th	0540	4.0	122
	0918	0.2	6		0821	0.3	9		1033	0.4	12		1006	0.0	0		1140	0.4	12		1156	-0.3	-9
	1558	3.7	113		1457	4.1	125		1710	3.8	116		1640	4.5	137		1801	4.0	122		1809	4.4	134
	2236	0.5	15		2127	0.6	18		2349	0.7	21		2312	0.2	6								
3 F	0408	2.6	79	18 Sa	0314	2.9	88	3 M	0516	2.8	85	18 Tu	0458	3.4	104	3 Th	0022	0.6	18	18 F	0028	-0.2	-6
	1009	0.3	9		0920	0.1	3		1121	0.4	12		1108	-0.3	-9		0613	3.5	107		0630	4.3	131
	1646	3.8	116		1558	4.3	131		1752	3.9	119		1736	4.7	143		1222	0.3	9		1249	-0.4	-12
	2329	0.5	15		2231	0.4	12										1839	4.0	122		1856	4.3	131
4 Sa	0456	2.6	79	19 Su	0415	3.0	91	4 Tu	0026	0.6	18	19 W	0005	0.0	0	4 F	0055	0.5	15	19 Sa	0111	-0.3	-9
	1057	0.2	6		1021	-0.1	-3		0600	2.9	88		0555	3.7	113		0653	3.7	113		0719	4.5	137
	1731	3.9	119		1656	4.6	140		1205	0.3	9		1206	-0.5	-15		1302	0.2	6		1339	-0.4	-12
					2330	0.1	3		1832	4.0	122		1829	4.8	146		1916	4.0	122		1943	4.2	128
5 Su	0013	0.5	15	20 M	0513	3.2	98	5 W	0059	0.5	15	20 Th	0054	-0.3	-9	5 Sa	0128	0.4	12	20 Su	0153	-0.3	-9
	0541	2.7	82		1121	-0.4	-12		0641	3.1	94		0649	3.9	119		0732	3.9	119		0806	4.6	140
	1143	0.2	6		1752	4.8	146		1246	0.2	6		1301	-0.6	-18		1342	0.2	6		1428	-0.3	-9
	1813	3.9	119						1910	4.0	122		1920	4.7	143		1953	4.0	122		2028	3.9	119
6 M	0052	0.4	12	21 Tu	0025	-0.1	-3	6 Th	0132	0.4	12	21 F	0140	-0.4	-12	6 Su	0202	0.3	9	21 M	0235	-0.2	-6
	0624	2.8	85		0610	3.4	104		0722	3.3	101		0741	4.1	125		0811	4.0	122		0852	4.5	137
	1226	0.2	6		1218	-0.6	-18		1326	0.2	6		1354	-0.6	-18		1423	0.3	9		1516	0.0	0
	1855	4.0	122		1847	4.9	149		1948	4.1	125		2008	4.5	137		2030	3.9	119		2112	3.6	110
7 Tu	0128	0.4	12	22 W	0117	-0.3	-9	7 F	0205	0.4	12	22 Sa	0225	-0.4	-12	7 M	0237	0.3	9	22 Tu	0318	0.0	0
	0706	2.9	88		0706	3.6	110		0802	3.4	104		0831	4.3	131		0851	4.1	125		0938	4.4	134
	1307	0.1	3		1314	-0.7	-21		1405	0.2	6		1446	-0.5	-15		1505	0.3	9		1606	0.3	9
	1935	4.0	122		1940	4.9	149		2024	4.0	122		2055	4.2	128		2109	3.7	113		2156	3.3	101
8 W	0203	0.4	12	23 Th	0206	-0.4	-12	8 Sa	0239	0.3	9	23 Su	0309	-0.3	-9	8 Tu	0314	0.3	9	23 W	0402	0.2	6
	0749	3.0	91		0801	3.7	113		0842	3.5	107		0920	4.3	131		0932	4.2	128		1025	4.1	125
	1347	0.2	6		1408	-0.7	-21		1445	0.3	9		1538	-0.2	-6		1551	0.5	15		1658	0.6	18
	2015	4.0	122		2031	4.7	143		2101	3.9	119		2141	3.9	119		2149	3.5	107		2242	3.1	94
9 Th	0238	0.4	12	24 F	0254	-0.5	-15	9 Su	0313	0.3	9	24 M	0354	-0.2	-6	9 W	0355	0.4	12	24 Th	0450	0.5	15
	0830	3.0	91		0854	3.9	119		0921	3.6	110		1009	4.2	128		1016	4.2	128		1114	3.9	119
	1428	0.2	6		1503	-0.6	-18		1527	0.4	12		1632	0.1	3		1642	0.6	18		1753	0.8	24
	2053	4.0	122		2121	4.5	137		2137	3.7	113		2227	3.5	107		2232	3.3	101		2331	2.8	85
10 F	0314	0.4	12	25 Sa	0342	-0.4	-12	10 M	0349	0.4	12	25 Tu	0440	0.1	3	10 Th	0442	0.5	15	25 F	0542	0.7	21
	0911	3.1	94		0946	3.9	119		1001	3.7	113		1058	4.0	122		1106	4.2	128		1209	3.7	113
	1509	0.3	9		1559	-0.3	-9		1612	0.5	15		1728	0.4	12		1739	0.8	24		1852	1.0	30
	2131	3.8	116		2209	4.1	125		2215	3.5	107		2314	3.1	94		2322	3.1	94		2322	3.1	94
11 Sa	0351	0.4	12	26 Su	0430	-0.3	-9	11 Tu	0428	0.4	12	26 W	0529	0.3	9	11 F	0535	0.5	15	26 Sa	0026	2.7	82
	0951	3.2	98		1038	3.9	119		1043	3.8	116		1150	3.8	116		1203	4.1	125		0638	0.9	27
	1552	0.5	15		1656	-0.1	-3		1702	0.6	18		1827	0.7	21		1841	0.8	24		1310	3.5	107
	2209	3.7	113		2257	3.7	113		2257	3.3	101								1952		1.2	37	
12 Su	0428	0.4	12	27 M	0518	-0.1	-3	12 W	0512	0.5	15	27 Th	0005	2.8	85	12 Sa	0022	3.0	91	27 Su	0129	2.6	79
	1032	3.3	101		1131	3.8	116		1130	3.8	116		0620	0.5	15		0636	0.5	15		0737	0.9	27
	1638	0.6	18		1756	0.2	6		1758	0.7	21		1248	3.6	110		1309	4.1	125		1414	3.5	107
	2247	3.5	107		2347	3.3	101		2344	3.1	94		1929	0.9	27		1947	0.8	24		2049	1.2	37
13 M	0508	0.5	15	28 Tu	0608	0.1	3	13 Th	0601	0.5	15	28 F	0102	2.6	79	13 Su	0130	2.9	88	28 M	0233	2.7	82
	1115	3.4	104		1227	3.7	113		1225	3.9	119		0715	0.7	21		0742	0.5	15		0836	0.9	27
	1728	0.7	21		1858	0.5	15		1858	0.8	24		1352	3.5	107		1419	4.2	128		1513	3.5	107
	2328	3.3	101								2033		1.0	30	2032		0.7	21	2141		1.1	34	
14 Tu	0550	0.5	15	29 W	0041	2.9	88	14 F	0040	3.0	91	29 Sa	0206	2.6	79	14 M	0241	3.1	94	29 Tu	0330	2.9	88
	1203	3.5	107		0659	0.2	6		0656	0.4	12		0812	0.8	24		0849	0.3	9		0932	0.8	24
	1823	0.7	21		1327	3.6	110		1328	4.0	122		1457	3.5	107		1525	4.3	131		1602	3.6	110
					2002	0.7	21		2002	0.8	24		2137	1.1	34		2155	0.5	15		2224	1.0	30
15 W	0016	3.1	94	30 Th	0139	2.6	79	15 Sa	0146	2.9	88	30 Su	0309	2.6	79	15 Tu	0347	3.3	101	30 W	0418	3.2	98
	0635	0.4	12		0751	0.4	12		0757	0.3	9		0910	0.7	21		0956	0.1	3		1024	0.7	21
	1257	3.6	110		1430	3.6	110		1435	4.1	125		1554	3.6	110		1625	4.4	134		1645	3.8	116
	1921	0.7	21		2107	0.8	24		2108	0.7	21		2231	1.0	30		2251	0.3	9		2302	0.8	24
			31 F	0241	2.5	76	31 M	0403	2.8	85	31 Tu	0403	2.8	85	31 W	0418	3.2	98					

Ocean City, Maryland, 2009

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 Th	0501	3.5	107		1 Su	0550	4.3	131		1 Tu	0608	4.5	137	
	1112	0.6	18			1212	0.2	6			1237	0.0	0	
	1724	3.8	116			1808	3.6	110			1825	3.3	101	
	2338	0.6	18											
2 F	0542	3.8	116		2 M	0013	0.1	3		2 W	0029	-0.3	-9	
	1155	0.4	12			0633	4.5	137			0657	4.7	143	
	1803	3.9	119			1258	0.1	3			1327	-0.2	-6	
						1851	3.6	110			1914	3.3	101	
3 Sa	0014	0.4	12		3 Tu	0055	0.0	0		3 Th	0118	-0.5	-15	
	0622	4.1	125			0717	4.7	143			0747	4.8	146	
	1238	0.3	9			1343	0.0	0			1416	-0.2	-6	
	1842	3.9	119			1936	3.5	107			2005	3.3	101	
4 Su	0050	0.3	9		4 W	0138	-0.1	-3		4 F	0208	-0.5	-15	
	0702	4.3	131			0804	4.8	146			0838	4.8	146	
	1319	0.2	6			1431	0.1	3			1507	-0.2	-6	
	1921	3.9	119			2023	3.4	104			2057	3.3	101	
5 M	0126	0.2	6		5 Th	0224	-0.1	-3		5 Sa	0300	-0.5	-15	
	0742	4.5	137			0852	4.8	146			0930	4.6	140	
	1402	0.2	6			1521	0.1	3			1600	-0.2	-6	
	2002	3.8	116			2111	3.3	101			2151	3.2	98	
6 Tu	0204	0.2	6		6 F	0313	0.0	0		6 Su	0357	-0.4	-12	
	0825	4.6	140			0943	4.7	143			1023	4.4	134	
	1447	0.3	9			1615	0.2	6			1655	-0.1	-3	
	2044	3.6	110			2203	3.2	98			2247	3.2	98	
7 W	0245	0.2	6		7 Sa	0408	0.1	3		7 M	0457	-0.2	-6	
	0909	4.6	140			1037	4.5	137			1117	4.1	125	
	1535	0.4	12			1713	0.3	9			1750	-0.1	-3	
	2128	3.5	107			2259	3.1	94			2347	3.2	98	
8 Th	0330	0.3	9		8 Su	0508	0.2	6		8 Tu	0601	0.0	0	
	0957	4.5	137			1134	4.2	128			1214	3.7	113	
	1628	0.5	15			1813	0.4	12			1845	-0.1	-3	
	2215	3.3	101											
9 F	0421	0.4	12		9 M	0002	3.1	94		9 W	0051	3.3	101	
	1049	4.4	134			0614	0.3	9			0708	0.1	3	
	1726	0.6	18			1236	4.0	122			1314	3.4	104	
	2309	3.1	94			1912	0.3	9			1940	-0.1	-3	
10 Sa	0520	0.5	15		10 Tu	0110	3.2	98		10 Th	0158	3.4	104	
	1148	4.3	131			0722	0.3	9			0815	0.2	6	
	1829	0.7	21			1341	3.8	116			1416	3.1	94	
						2010	0.3	9			2033	-0.1	-3	
11 Su	0011	3.0	91		11 W	0219	3.4	104		11 F	0301	3.5	107	
	0624	0.5	15			0830	0.3	9			0922	0.2	6	
	1253	4.1	125			1444	3.6	110			1516	2.9	88	
	1932	0.7	21			2105	0.2	6			2126	-0.1	-3	
12 M	0121	3.1	94		12 Th	0322	3.6	110		12 Sa	0358	3.7	113	
	0732	0.5	15			0936	0.2	6			1027	0.2	6	
	1402	4.1	125			1542	3.5	107			1611	2.8	85	
	2034	0.6	18			2156	0.0	0			2217	-0.1	-3	
13 Tu	0232	3.2	98		13 F	0417	3.9	119		13 Su	0449	3.8	116	
	0840	0.4	12			1039	0.1	3			1124	0.1	3	
	1507	4.0	122			1635	3.4	104			1701	2.7	82	
	2132	0.4	12			2245	-0.1	-3			2306	-0.2	-6	
14 W	0337	3.5	107		14 Sa	0507	4.1	125		14 M	0536	3.9	119	
	0947	0.2	6			1134	0.0	0			1213	0.1	3	
	1606	4.0	122			1723	3.3	101			1747	2.7	82	
	2226	0.2	6			2331	-0.2	-6			2352	-0.2	-6	
15 Th	0433	3.9	119		15 Su	0552	4.3	131		15 Tu	0620	4.0	122	
	1049	0.0	0			1224	0.0	0			1256	0.0	0	
	1658	4.0	122			1808	3.2	98			1830	2.7	82	
	2314	0.0	0											
				31 Sa	0508	4.0	122		31 Th	0010	-0.7	-21		
					1126	0.4	12			0640	4.6	140		
					1726	3.6	110			1310	-0.4	-12		
					2333	0.3	9			1855	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.

Baltimore, Maryland, 2009

Times and Heights of High and Low Waters

January				February				March											
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height						
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm					
1 Th	0410	-0.1	-3		16 F	0451	-0.3	-9		1 Su	0423	-0.3	-9						
	0933	0.7	21			1043	0.9	27			1043	1.0	30		16 M	0513	-0.2	-6	
	1529	-0.1	-3			1718	-0.1	-3			1729	0.0	0			1915	0.2	6	
	2153	1.1	34			2254	0.9	27			2247	0.7	21			2350	0.6	18	
2 F	0442	-0.1	-3		17 Sa	0532	-0.3	-9		2 M	0502	-0.3	-9		17 Tu	0559	-0.2	-6	
	1022	0.8	24			1145	1.0	30			1138	1.1	34			1304	1.0	30	
	1624	0.0	0			1829	0.0	0			1847	0.1	3			2021	0.2	6	
	2232	1.0	30			2339	0.7	21			2338	0.6	18			2230	0.8	24	
3 Sa	0515	-0.2	-6		18 Su	0612	-0.3	-9		3 Tu	0548	-0.4	-12		18 W	0045	0.6	18	
	1114	0.9	27			1248	1.0	30			1238	1.2	37			0654	-0.2	-6	
	1731	0.1	3			1944	0.1	3			2006	0.1	3			1408	1.0	30	
	2316	0.9	27													2120	0.2	6	
4 Su	0551	-0.3	-9		19 M	0026	0.6	18		4 W	0037	0.6	18		19 Th	0143	0.6	18	
	1210	1.0	30			0655	-0.3	-9			0644	-0.4	-12			0756	-0.2	-6	
	1851	0.1	3			1351	1.0	30			1342	1.2	37			1511	1.0	30	
						2056	0.1	3			2117	0.0	0			2211	0.2	6	
5 M	0004	0.8	24		20 Tu	0118	0.5	15		5 Th	0141	0.5	15		20 F	0242	0.6	18	
	0631	-0.3	-9			0740	-0.3	-9			0750	-0.4	-12			0857	-0.2	-6	
	1309	1.1	34			1453	1.0	30			1450	1.2	37			1607	1.0	30	
	2015	0.1	3			2200	0.1	3			2218	0.0	0			2254	0.2	6	
6 Tu	0058	0.6	18		21 W	0213	0.5	15		6 F	0246	0.6	18		21 Sa	0337	0.7	21	
	0716	-0.4	-12			0829	-0.3	-9			0900	-0.4	-12			0955	-0.2	-6	
	1409	1.2	37			1550	1.0	30			1556	1.3	40			1653	1.0	30	
	2132	0.1	3			2254	0.1	3			2311	0.0	0			2331	0.2	6	
7 W	0157	0.6	18		22 Th	0309	0.5	15		7 Sa	0349	0.7	21		22 Su	0427	0.7	21	
	0809	-0.4	-12			0920	-0.3	-9			1009	-0.5	-15			1046	-0.2	-6	
	1510	1.3	40			1640	1.1	34			1658	1.3	40			1732	1.0	30	
	2239	0.0	0			2339	0.1	3											
8 Th	0300	0.5	15		23 F	0403	0.5	15		8 Su	0000	-0.1	-3		23 M	0005	0.1	3	
	0907	-0.5	-15			1011	-0.3	-9			0449	0.8	24			0512	0.8	24	
	1610	1.4	43			1725	1.1	34			1114	-0.5	-15			1133	-0.2	-6	
	2336	-0.1	-3								1754	1.3	40			1806	1.1	34	
9 F	0402	0.5	15		24 Sa	0018	0.0	0		9 M	0044	-0.1	-3		24 Tu	0036	0.1	3	
	1009	-0.5	-15			0452	0.5	15			0545	0.9	27			0555	0.9	27	
	1709	1.4	43			1100	-0.3	-9			1215	-0.5	-15			1217	-0.2	-6	
						1804	1.1	34			1845	1.3	40			1837	1.1	34	
10 Sa	0028	-0.1	-3		25 Su	0053	0.0	0		10 Tu	0126	-0.1	-3		25 W	0106	0.0	0	
	0501	0.6	18			0537	0.6	18			0639	1.0	30			0636	0.9	27	
	1111	-0.6	-18			1145	-0.3	-9			1312	-0.5	-15			1300	-0.2	-6	
	1806	1.4	43			1838	1.1	34			1931	1.2	37			1909	1.1	34	
11 Su	0116	-0.1	-3		26 M	0125	0.0	0		11 W	0206	-0.2	-6		26 Th	0134	0.0	0	
	0559	0.7	21			0620	0.6	18			0733	1.0	30			0716	1.0	30	
	1213	-0.6	-18			1227	-0.3	-9			1407	-0.4	-12			1345	-0.1	-3	
	1900	1.4	43			1911	1.1	34			2013	1.1	34			1942	1.0	30	
12 M	0201	-0.2	-6		27 Tu	0155	0.0	0		12 Th	0244	-0.2	-6		27 F	0201	-0.1	-3	
	0655	0.8	24			0700	0.7	21			0825	1.1	34			0757	1.1	34	
	1313	-0.6	-18			1308	-0.3	-9			1502	-0.3	-9			1434	-0.1	-3	
	1951	1.3	40			1942	1.1	34			2054	1.0	30			2018	1.0	30	
13 Tu	0245	-0.2	-6		28 W	0224	-0.1	-3		13 F	0320	-0.2	-6		28 Sa	0230	-0.1	-3	
	0750	0.8	24			0741	0.7	21			0918	1.1	34			0840	1.2	37	
	1412	-0.5	-15			1350	-0.3	-9			1600	-0.1	-3			1527	0.0	0	
	2039	1.2	37			2013	1.0	30			2135	0.9	27			2057	0.9	27	
14 W	0328	-0.2	-6		29 Th	0253	-0.1	-3		14 Sa	0356	-0.3	-9		14 Su	0226	-0.1	-3	
	0846	0.9	27			0822	0.8	24			1012	1.1	34			0850	1.4	43	
	1511	-0.4	-12			1434	-0.2	-6			1701	0.0	0			1549	0.1	3	
	2125	1.1	34			2046	1.0	30			2217	0.8	24			2102	0.9	27	
15 Th	0410	-0.2	-6		30 F	0321	-0.2	-6		15 Su	0432	-0.3	-9		15 Su	0259	-0.1	-3	
	0944	0.9	27			0906	0.8	24			1106	1.1	34			0936	1.4	43	
	1612	-0.3	-9			1523	-0.1	-3			1807	0.1	3			1644	0.2	6	
	2210	1.0	30			2122	0.9	27			2301	0.7	21			2145	0.9	27	
				31 Sa	0351	-0.2	-6												
					0953	0.9	27												
					1621	-0.1	-3												
					2202	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.

Baltimore, Maryland, 2009

Times and Heights of High and Low Waters

April				May				June																					
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height																
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm															
1 W	0407	0.1	3		16 Th	0438	0.4	12		1 F	0521	0.3	9		16 Sa	0509	0.6	18		1 M	0113	1.6	49		16 Tu	0033	1.5	46	
	1052	1.6	49			1121	1.4	43			1142	1.6	49			1124	1.5	46			0758	0.6	18			0659	0.8	24	
	1828	0.3	9			1838	0.5	15			1858	0.4	12			1826	0.5	15			1314	1.4	43			1208	1.4	43	
	2321	1.0	30			2350	1.1	34			○										1954	0.3	9			1843	0.3	9	
2 Th	0517	0.1	3		17 F	0543	0.4	12		2 Sa	0019	1.3	40		17 Su	0015	1.3	40		2 Tu	0216	1.8	55		17 W	0125	1.7	52	
	1157	1.5	46			1216	1.3	40			0642	0.4	12			0616	0.6	18			0912	0.6	18			0819	0.8	24	
	1927	0.3	9			1923	0.5	15			1248	1.5	46			1213	1.4	43			1408	1.3	40			1259	1.3	40	
	○					○					1949	0.4	12			○					2035	0.3	9			1921	0.3	9	
3 F	0025	1.0	30		18 Sa	0046	1.1	34		3 Su	0123	1.4	43		18 M	0109	1.4	43		3 W	0314	1.9	58		18 Th	0216	1.8	55	
	0637	0.1	3			0652	0.4	12			0801	0.4	12			0727	0.7	21			1020	0.6	18			0934	0.7	21	
	1307	1.4	43			1313	1.3	40			1350	1.4	43			1302	1.3	40			1501	1.2	37			1355	1.1	34	
	2023	0.3	9			2007	0.5	15			2037	0.3	9			1943	0.4	12			2114	0.3	9			2002	0.2	6	
4 Sa	0129	1.1	34		19 Su	0142	1.2	37		4 M	0226	1.6	49		19 Tu	0202	1.5	46		4 Th	0407	1.9	58		19 F	0307	2.0	61	
	0758	0.1	3			0802	0.4	12			0914	0.4	12			0840	0.7	21			1121	0.5	15			1041	0.6	18	
	1418	1.4	43			1407	1.2	37			1448	1.4	43			1352	1.3	40			1553	1.1	34			1455	1.1	34	
	2115	0.3	9			2049	0.5	15			2121	0.3	9			2021	0.4	12			2152	0.3	9			2049	0.2	6	
5 Su	0233	1.2	37		20 M	0237	1.3	40		5 Tu	0325	1.7	52		20 W	0253	1.6	49		5 F	0454	2.0	61		20 Sa	0358	2.1	64	
	0913	0.1	3			0906	0.4	12			1021	0.4	12			0948	0.6	18			1215	0.5	15			1139	0.5	15	
	1522	1.3	40			1457	1.2	37			1541	1.3	40			1444	1.2	37			1643	1.1	34			1557	1.0	30	
	2202	0.3	9			2127	0.4	12			2201	0.3	9			2058	0.3	9			2229	0.3	9			2140	0.2	6	
6 M	0333	1.4	43		21 Tu	0327	1.4	43		6 W	0420	1.8	55		21 Th	0340	1.8	55		6 Sa	0537	2.0	61		21 Su	0449	2.2	67	
	1020	0.1	3			1007	0.4	12			1122	0.4	12			1052	0.6	18			1303	0.5	15			1231	0.5	15	
	1617	1.3	40			1543	1.2	37			1629	1.2	37			1536	1.1	34			1732	1.1	34			1658	1.1	34	
	2245	0.2	6			2202	0.3	9			2237	0.2	6			2136	0.3	9			2308	0.3	9			2237	0.2	6	
7 Tu	0429	1.5	46		22 W	0414	1.5	46		7 Th	0509	1.9	58		22 F	0427	1.9	58		7 Su	0617	2.0	61		22 M	0542	2.2	67	
	1120	0.1	3			1104	0.4	12			1218	0.4	12			1151	0.5	15			1345	0.5	15			1318	0.4	12	
	1705	1.3	40			1627	1.2	37			1715	1.2	37			1629	1.1	34			1820	1.1	34			1757	1.1	34	
	2324	0.2	6			2236	0.3	9			2311	0.2	6			2217	0.2	6			2348	0.4	12			2338	0.2	6	
8 W	0521	1.6	49		23 Th	0458	1.7	52		8 F	0554	1.9	58		23 Sa	0513	2.1	64		8 M	0654	1.9	58		23 Tu	0635	2.2	67	
	1217	0.1	3			1158	0.3	9			1310	0.4	12			1245	0.4	12			1422	0.5	15			1404	0.4	12	
	1749	1.2	37			1711	1.1	34			1759	1.1	34			1723	1.1	34			1905	1.1	34			1854	1.2	37	
	2359	0.1	3			2309	0.2	6			○					2302	0.2	6											
9 Th	0610	1.7	52		24 F	0540	1.8	55		9 Sa	0636	1.9	58		24 Su	0600	2.1	64		9 Tu	0031	0.4	12		24 W	0041	0.2	6	
	1310	0.1	3			1252	0.3	9			1357	0.4	12			1336	0.4	12			0731	1.9	58			0728	2.1	64	
	1830	1.2	37			1756	1.1	34			1843	1.1	34			1818	1.1	34			1456	0.5	15			1449	0.4	12	
	○					2345	0.2	6			○					2352	0.2	6			1949	1.2	37			1951	1.3	40	
10 F	0031	0.1	3		25 Sa	0623	1.9	58		10 Su	0018	0.3	9		25 M	0649	2.2	67		10 W	0116	0.4	12		25 Th	0146	0.3	9	
	0656	1.7	52			1344	0.3	9			0715	1.9	58			1425	0.3	9			0807	1.8	55			0820	2.0	61	
	1401	0.2	6			1842	1.1	34			1440	0.4	12			1912	1.1	34			1527	0.5	15			1533	0.4	12	
	1911	1.1	34								1927	1.1	34								2033	1.2	37			2048	1.4	43	
11 Sa	0102	0.1	3		26 Su	0023	0.2	6		11 M	0055	0.3	9		26 Tu	0047	0.2	6		11 Th	0202	0.5	15		26 F	0253	0.3	9	
	0739	1.7	52			0708	2.0	61			0753	1.9	58			0739	2.1	64			0844	1.7	52			0912	1.9	58	
	1450	0.2	6			1436	0.3	9			1520	0.5	15			1513	0.3	9			1558	0.5	15			1616	0.3	9	
	1952	1.0	30			1931	1.1	34			2011	1.1	34			2008	1.2	37			2117	1.2	37			2148	1.5	46	
12 Su	0135	0.1	3		27 M	0107	0.2	6		12 Tu	0136	0.4	12		27 W	0148	0.3	9		12 F	0250	0.5	15		27 Sa	0402	0.4	12	
	0820	1.7	52			0755	2.0	61			0831	1.8	55			0833	2.0	61			0921	1.7	52			1003	1.8	55	
	1537	0.3	9			1528	0.3	9			1558	0.5	15			1601	0.3	9			1629	0.5	15			1700	0.3	9	
	2034	1.0	30			2023	1.1	34			2056	1.1	34			2105	1.3	40			2203	1.3	40			2249	1.6	49	
13 M	0211	0.2	6		28 Tu	0157	0.2	6		13 W	0222	0.4	12		28 Th	0254	0.3	9		13 Sa	0341	0.6	18		28 Su	0515	0.5	15	
	0902	1.6	49			0845	1.9	58			0911	1.7	52			0928	1.9	58			0959	1.6	49			1053	1.6	49	
	1623	0.4	12			1620	0.3	9			1634	0.5	15			1649	0.4	12			1701	0.5	15			1743	0.3	9	
	2119	1.0	30			2117	1.1	34			2142	1.2	37			2204	1.3	40			2251	1.4	43			2352	1.7	52	
14 Tu	0252	0.2	6		29 W	0256	0.2	6		14 Th	0312	0.5	15		29 F	0405	0.4	12		14 Su	0438	0.7	21		29 M	0632	0.6	18	
	0944	1.6	49			0940	1.9	58																					

Baltimore, Maryland, 2009

Times and Heights of High and Low Waters

July				August				September																									
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height																				
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm																			
1 W	0157	1.9	58		16 Th	0047	1.8	55		1 Sa	0324	1.9	58		16 Su	0214	2.0	61		1 Tu	0428	1.8	55		16 W	0401	1.9	58					
	0905	0.7	21			0805	0.8	24			1048	0.7	21			0959	0.7	21			1125	0.7	21			1100	0.5	15					
	1328	1.2	37			1221	1.2	37			1454	1.1	34			1414	1.2	37			1621	1.3	40			1621	1.3	40		1613	1.5	46	
	1948	0.3	9			1832	0.2	6			2048	0.4	12			2011	0.3	9			2222	0.5	15			2222	0.5	15		2239	0.4	12	
2 Th	0256	1.9	58		17 F	0141	1.9	58		2 Su	0414	1.9	58		17 M	0318	2.1	64		2 W	0506	1.8	55		17 Th	0453	1.9	58					
	1013	0.7	21			0921	0.8	24			1132	0.7	21			1050	0.6	18			1156	0.7	21			1140	0.5	15					
	1424	1.1	34			1322	1.1	34			1553	1.1	34			1521	1.2	37			1709	1.4	43			1711	1.7	52					
	2030	0.3	9			1921	0.2	6			2143	0.4	12			2124	0.3	9			2311	0.5	15			2342	0.4	12					
3 F	0349	2.0	61		18 Sa	0237	2.0	61		3 M	0459	1.9	58		18 Tu	0418	2.1	64		3 Th	0539	1.8	55		18 F	0540	1.8	55					
	1111	0.6	18			1024	0.7	21			1210	0.7	21			1136	0.6	18			1224	0.6	18			1218	0.4	12					
	1521	1.0	30			1428	1.1	34			1646	1.2	37			1624	1.4	43			1753	1.5	46			1806	1.8	55					
	2114	0.3	9			2020	0.2	6			2235	0.5	15			2234	0.3	9			2356	0.6	18			●							
4 Sa	0436	2.0	61		19 Su	0335	2.1	64		4 Tu	0538	1.8	55		19 W	0514	2.0	61		4 F	0609	1.7	52		19 Sa	0042	0.4	12					
	1201	0.6	18			1119	0.6	18			1243	0.6	18			1218	0.5	15			1250	0.5	15			0624	1.7	52					
	1617	1.0	30			1535	1.1	34			1734	1.2	37			1723	1.5	46			1834	1.5	46			1254	0.3	9					
	2200	0.3	9			2124	0.2	6			2323	0.5	15			2340	0.3	9			○					1859	1.9	58					
5 Su	0520	2.0	61		20 M	0432	2.1	64		5 W	0613	1.8	55		20 Th	0605	2.0	61		5 Sa	0041	0.6	18		20 Su	0141	0.5	15					
	1243	0.6	18			1207	0.5	15			1313	0.6	18			1259	0.5	15			0639	1.7	52			0706	1.6	49					
	1709	1.1	34			1638	1.2	37			1819	1.3	40			1820	1.6	49			1316	0.5	15			1328	0.3	9					
	2247	0.4	12			2231	0.2	6			○					●					1913	1.6	49			1949	2.0	61					
6 M	0559	1.9	58		21 Tu	0528	2.1	64		6 Th	0008	0.5	15		21 F	0042	0.3	9		6 Su	0128	0.7	21		21 M	0239	0.6	18					
	1320	0.6	18			1252	0.5	15			0645	1.8	55			0652	1.9	58			0711	1.7	52			0747	1.5	46					
	1757	1.1	34			1738	1.3	40			1341	0.6	18			1337	0.4	12			1341	0.4	12			1402	0.3	9					
	2333	0.4	12			●	2337	0.2	6			1901	1.4	43			1915	1.7	52			1952	1.7	52			2039	2.0	61				
7 Tu	0636	1.9	58		22 W	0622	2.1	64		7 F	0051	0.5	15		22 Sa	0142	0.4	12		7 M	0217	0.7	21		22 Tu	0338	0.7	21					
	1353	0.6	18			1334	0.4	12			0715	1.8	55			0736	1.8	55			0744	1.6	49			0830	1.4	43					
	1843	1.2	37			1836	1.4	43			1406	0.5	15			1414	0.3	9			1407	0.4	12			1436	0.3	9					
	○					○					1941	1.4	43			2010	1.8	55			2031	1.8	55			2128	2.0	61					
8 W	0019	0.4	12		23 Th	0041	0.3	9		8 Sa	0135	0.6	18		23 Su	0243	0.5	15		8 Tu	0311	0.7	21		23 W	0439	0.7	21					
	0711	1.8	55			0713	2.0	61			0745	1.7	52			0819	1.7	52			0821	1.5	46			0914	1.3	40					
	1423	0.5	15			1416	0.4	12			1432	0.5	15			1450	0.3	9			1435	0.3	9			1514	0.3	9					
	1925	1.2	37			1933	1.5	46			2021	1.5	46			2105	1.9	58			2113	1.9	58			2218	1.9	58					
9 Th	0103	0.5	15		24 F	0145	0.3	9		9 Su	0220	0.7	21		24 M	0346	0.6	18		9 W	0411	0.8	24		24 Th	0541	0.8	24					
	0744	1.8	55			0802	2.0	61			0816	1.7	52			0901	1.6	49			0903	1.4	43			1002	1.2	37					
	1451	0.5	15			1457	0.3	9			1457	0.4	12			1526	0.3	9			1509	0.3	9			1557	0.4	12					
	2008	1.3	40			2030	1.6	49			2102	1.6	49			2159	1.9	58			2158	2.0	61			2311	1.9	58					
10 F	0147	0.5	15		25 Sa	0248	0.4	12		10 M	0310	0.7	21		25 Tu	0453	0.7	21		10 Th	0517	0.8	24		25 F	0642	0.8	24					
	0816	1.8	55			0848	1.8	55			0850	1.6	49			0945	1.4	43			0951	1.3	40			1055	1.2	37					
	1518	0.5	15			1537	0.3	9			1523	0.4	12			1603	0.3	9			1549	0.3	9			1648	0.4	12					
	2050	1.3	40			2128	1.7	52			2145	1.7	52			2255	1.9	58			2250	2.0	61			○							
11 Sa	0231	0.6	18		26 Su	0354	0.5	15		11 Tu	0409	0.8	24		26 W	0604	0.8	24		11 F	0627	0.8	24		26 Sa	0007	1.8	55					
	0849	1.7	52			0934	1.7	52			0927	1.5	46			1032	1.3	40			1046	1.2	37			0740	0.8	24					
	1545	0.4	12			1616	0.3	9			1552	0.3	9			1643	0.3	9			1639	0.3	9			1154	1.2	37					
	2133	1.4	43			2227	1.8	55			2230	1.8	55			2352	1.9	58			2347	2.0	61			1748	0.5	15					
12 Su	0320	0.7	21		27 M	0505	0.6	18		12 W	0518	0.8	24		27 Th	0715	0.8	24		12 Sa	0734	0.8	24		27 Su	0106	1.7	52					
	0923	1.6	49			1019	1.5	46			1010	1.4	43			1124	1.2	37			1149	1.2	37			0831	0.8	24					
	1613	0.4	12			1655	0.3	9			1626	0.3	9			1729	0.4	12			1743	0.4	12			1257	1.2	37					
	2218	1.5	46			2327	1.8	55			2319	1.9	58			○					○			1856		0.5	15						
13 M	0416	0.8	24		28 Tu	0620	0.7	21		13 Th	0635	0.8	24		28 F	0051	1.9	58		13 Su	0051	2.0	61		28 M	0205	1.7	52					
	1000	1.6	49			1106	1.4	43			1100	1.3	40			0822	0.8	24			0835	0.7	21			0916	0.8	24					
	1642	0.3	9			1735	0.3	9			1707	0.3	9			1222	1.2	37			1257	1.2	37			1400	1.2	37					
	2306	1.6	49			○					○					1823	0.4	12			1858	0.4	12			2003	0.6	18					
14 Tu	0524	0.8	24		29 W	0028	1.9	58		14 F	0013	2.0	61		29 Sa	0152	1.8	55		14 M	0158	2.0	61										

Baltimore, Maryland, 2009

Times and Heights of High and Low Waters

October				November				December																									
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height																				
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm																			
1 Th	0418	1.6	49		16 F	0425	1.6	49		1 Su	0441	1.2	37		16 M	0045	0.3	9		1 Tu	0019	0.2	6		16 W	0124	0.1	3					
	1059	0.6	18			1100	0.3	9			1059	0.1	3			0525	1.0	30			0450	0.8	24			0549	0.6	18					
	1642	1.5	46			1701	1.7	52			1734	1.7	52			1132	-0.1	-3			1051	-0.2	-6			1147	-0.3	-9		1854	1.4	43	
	2254	0.6	18			2345	0.4	12								1826	1.7	52			1747	1.6	49										
2 F	0452	1.6	49		17 Sa	0510	1.5	46		2 M	0029	0.5	15		17 Tu	0137	0.3	9		2 W	0111	0.2	6		17 Th	0205	0.1	3					
	1128	0.5	15			1136	0.2	6			0523	1.2	37			0610	0.9	27			0542	0.8	24			0634	0.7	21					
	1725	1.6	49			1753	1.9	58			1131	0.1	3			1208	-0.1	-3			1137	-0.2	-6			1229	-0.3	-9		1933	1.3	40	
	2345	0.6	18								1814	1.8	55			1909	1.7	52			1834	1.7	52										
3 Sa	0526	1.6	49		18 Su	0044	0.4	12		3 Tu	0122	0.4	12		18 W	0225	0.3	9		3 Th	0200	0.1	3		18 F	0242	0.1	3					
	1155	0.4	12			0553	1.4	43			0607	1.1	34			0655	0.9	27			0634	0.8	24			0718	0.7	21					
	1805	1.7	52			1210	0.1	3			1206	0.0	0			1246	-0.1	-3			1228	-0.3	-9			1311	-0.2	-6		2011	1.3	40	
						1842	1.9	58			1855	1.9	58			1951	1.7	52			1924	1.7	52										
4 Su	0035	0.6	18		19 M	0140	0.5	15		4 W	0214	0.4	12		19 Th	0309	0.3	9		4 F	0248	0.1	3		19 Sa	0317	0.1	3					
	0600	1.5	46			0636	1.3	40			0653	1.0	30			0739	0.9	27			0727	0.8	24			0801	0.7	21					
	1222	0.3	9			1244	0.1	3			1246	0.0	0			1327	0.0	0			1323	-0.3	-9			1354	-0.2	-6					
	1843	1.8	55			1928	1.9	58			1939	1.9	58			2032	1.6	49			2015	1.6	49										
5 M	0125	0.6	18		20 Tu	0235	0.5	15		5 Th	0306	0.4	12		20 F	0351	0.4	12		5 Sa	0336	0.1	3		20 Su	0349	0.1	3					
	0637	1.4	43			0719	1.2	37			0742	1.0	30			0824	0.9	27			0822	0.8	24			0844	0.7	21					
	1250	0.3	9			1318	0.1	3			1331	0.0	0			1410	0.0	0			1422	-0.2	-6			1437	-0.2	-6					
	1922	1.9	58			2013	1.9	58			2027	1.9	58			2114	1.5	46			2108	1.6	49										
6 Tu	0218	0.6	18		21 W	0327	0.5	15		6 F	0359	0.4	12		21 Sa	0431	0.4	12		6 Su	0424	0.1	3		21 M	0421	0.1	3					
	0716	1.3	40			0802	1.2	37			0835	1.0	30			0910	0.9	27			0919	0.9	27			0930	0.7	21					
	1321	0.2	6			1355	0.2	6			1423	0.1	3			1457	0.1	3			1526	-0.2	-6			1522	-0.1	-3					
	2002	1.9	58			2057	1.9	58			2119	1.8	55			2156	1.4	43			2202	1.5	46										
7 W	0313	0.6	18		22 Th	0419	0.6	18		7 Sa	0451	0.4	12		22 Su	0510	0.4	12		7 M	0512	0.0	0		22 Tu	0452	0.0	0					
	0759	1.3	40			0848	1.1	34			0931	1.0	30			0959	0.9	27			1020	0.9	27			1019	0.7	21					
	1356	0.2	6			1435	0.2	6			1524	0.1	3			1547	0.1	3			1635	-0.1	-3			1611	0.0	0					
	2046	2.0	61			2143	1.8	55			2216	1.7	52			2239	1.3	40			2257	1.3	40										
8 Th	0410	0.6	18		23 F	0509	0.6	18		8 Su	0545	0.4	12		23 M	0549	0.3	9		8 Tu	0601	0.0	0		23 W	0525	0.0	0					
	0847	1.2	37			0936	1.1	34			1032	1.0	30			1052	0.9	27			1125	1.0	30			1111	0.8	24					
	1437	0.2	6			1522	0.3	9			1633	0.1	3			1641	0.2	6			1750	0.0	0			1708	0.1	3					
	2135	2.0	61			2231	1.7	52			2316	1.6	49			2323	1.3	40			2351	1.2	37										
9 F	0510	0.6	18		24 Sa	0559	0.6	18		9 M	0637	0.3	9		24 Tu	0628	0.3	9		9 W	0648	-0.1	-3		24 Th	0600	-0.1	-3					
	0940	1.2	37			1028	1.1	34			1137	1.1	34			1149	0.9	27			1233	1.1	34			1206	0.8	24					
	1528	0.3	9			1615	0.3	9			1750	0.2	6			1742	0.3	9			1909	0.1	3			1815	0.2	6					
	2229	2.0	61			2322	1.6	49																									
10 Sa	0610	0.6	18		25 Su	0647	0.6	18		10 Tu	0016	1.5	46		25 W	0006	1.2	37		10 Th	0044	1.1	34		25 F	0635	-0.2	-6					
	1039	1.2	37			1124	1.1	34			0728	0.3	9			0705	0.2	6			0734	-0.1	-3			1301	0.9	27					
	1630	0.3	9			1715	0.4	12			1245	1.2	37			1248	1.0	30			1341	1.2	37			1934	0.2	6					
	2330	1.9	58								1910	0.2	6			1850	0.3	9			2027	0.1	3										
11 Su	0709	0.6	18		26 M	0015	1.5	46		11 W	0116	1.5	46		26 Th	0050	1.1	34		11 F	0137	1.0	30		26 Sa	0041	0.8	24					
	1144	1.2	37			0732	0.6	18			0816	0.2	6			0742	0.1	3			0818	-0.2	-6			0714	-0.2	-6					
	1744	0.4	12			1225	1.1	34			1353	1.3	40			1347	1.1	34			1446	1.3	40			1355	1.0	30					
						1821	0.5	15			2028	0.3	9			2003	0.4	12			2140	0.1	3			2053	0.2	6					
12 M	0035	1.8	55		27 Tu	0106	1.5	46		12 Th	0211	1.4	43		27 F	0135	1.1	34		12 Sa	0229	0.8	24		27 Su	0132	0.7	21					
	0804	0.6	18			0813	0.6	18			0900	0.1	3			0818	0.0	0			0901	-0.3	-9			0755	-0.3	-9					
	1252	1.2	37			1327	1.2	37			1458	1.4	43			1441	1.2	37			1546	1.4	43			1448	1.2	37					
	1905	0.4	12			1930	0.5	15			2140	0.3	9			2115	0.4	12			2247	0.1	3			2205	0.2	6					
13 Tu	0140	1.8	55		28 W	0154	1.4	43		13 F	0303	1.3	40		28 Sa	0221	1.0	30		13 Su	0321	0.7	21		28 M	0228	0.6	18					
	0854	0.5	15			0851	0.5	15			0941	0.0	0			0853	0.0	0			0942	-0.3	-9			0841	-0.4	-12					
	1400	1.4	43			1426	1.2	37			1557	1.5	46			1531	1.3	40			1640	1.4	43			1541	1.3	40					
	2024	0.4	12			2036	0.5	15			2247	0.3	9			2223	0.4	12			2346	0.1	3			2307	0.1	3					
14 W	0241	1.7	52		29 Th	0238	1.4	43		14 Sa	0352	1.2	37		29 Su	0309	0.9	27		14 M	0413	0.7	21		29 Tu	0327	0.6	18					

Washington, D.C., 2009

Times and Heights of High and Low Waters

January				February				March																										
Time	Height			Time	Height			Time	Height			Time	Height																					
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm		h	m	ft	cm															
1 Th	0532	-0.1	-3		16 F	0636	-0.4	-12		1 Su	0613	-0.2	-6		16 M	0054	2.4	73		1 Su	0509	0.0	0		16 M	0558	0.2	6						
	1050	2.4	73			1204	2.8	85			1146	2.8	85			0723	0.0	0			1034	3.1	94			1137	3.0	91						
	1742	0.0	0			1911	-0.3	-9			1905	0.0	0			1308	2.7	82			1804	0.1	3			1859	0.3	9						
	2305	2.5	76													2025	0.1	3			2310	2.6	79											
2 F	0605	-0.1	-3		17 Sa	0032	2.5	76		2 M	0019	2.4	73		17 Tu	0149	2.3	70		2 M	0551	0.0	0		17 Tu	0020	2.6	79		17 Tu	0639	0.3	9	
	1131	2.5	76			0722	-0.3	-9			0657	-0.1	-3			0809	0.1	3			1121	3.1	94			0699	0.3	9						
	1828	0.0	0			1257	2.7	82			1236	2.9	88			1403	2.6	79			1856	0.1	3			1224	2.9	88						
	2351	2.5	76			2006	-0.2	-6			2004	0.1	3			2120	0.2	6								1946	0.4	12						
3 Sa	0643	-0.2	-6		18 Su	0127	2.4	73		3 Tu	0116	2.3	70		18 W	0245	2.3	70		3 Tu	0002	2.6	79		18 W	0112	2.5	76		18 W	0724	0.4	12	
	1216	2.6	79			0808	-0.2	-6			0748	-0.1	-3			0902	0.2	6			0639	0.1	3			1213	3.1	94						
	1920	0.0	0			1351	2.7	82			1333	2.9	88			1501	2.5	76			1213	3.1	94			1317	2.7	82						
						2102	-0.1	-3			2111	0.1	3			2215	0.3	9			1954	0.2	6			2036	0.5	15						
4 Su	0042	2.4	73		19 M	0224	2.3	70		4 W	0220	2.3	70		19 Th	0342	2.3	70		4 W	0101	2.5	76		19 Th	0207	2.5	76		19 Th	0817	0.5	15	
	0726	-0.2	-6			0857	-0.1	-3			0850	0.0	0			1001	0.3	9			0737	0.2	6			0817	0.5	15						
	1307	2.7	82			1446	2.6	79			1437	2.8	85			1559	2.5	76			1313	3.0	91			1416	2.6	79						
	2021	0.1	3			2158	0.0	0			2222	0.1	3			2309	0.3	9			2059	0.2	6			2128	0.6	18						
5 M	0140	2.3	70		20 Tu	0321	2.2	67		5 Th	0328	2.3	70		20 F	0437	2.3	70		5 Th	0206	2.5	76		20 F	0303	2.5	76		20 F	0919	0.5	15	
	0815	-0.1	-3			0948	0.0	0			1004	0.0	0			1102	0.3	9			0847	0.2	6			0919	0.5	15						
	1403	2.7	82			1541	2.6	79			1545	2.8	85			1655	2.5	76			1421	2.9	88			1518	2.6	79						
	2130	0.1	3			2254	0.0	0			2328	0.0	0								2205	0.2	6			2222	0.6	18						
6 Tu	0244	2.2	67		21 W	0417	2.2	67		6 F	0434	2.4	73		21 Sa	0001	0.3	9		6 F	0315	2.5	76		21 Sa	0359	2.5	76		21 Sa	1023	0.5	15	
	0912	-0.1	-3			1043	0.0	0			1121	-0.1	-3			0528	2.4	73			1003	0.2	6			1023	0.5	15						
	1503	2.8	85			1636	2.5	76			1654	2.8	85			1159	0.2	6			1534	2.9	88			1616	2.6	79						
	2241	0.0	0			2348	0.0	0								1747	2.5	76			2308	0.2	6			2314	0.5	15						
7 W	0349	2.2	67		22 Th	0510	2.2	67		7 Sa	0029	-0.1	-3		22 Su	0049	0.2	6		7 Sa	0420	2.7	82		22 Su	0451	2.6	79		22 Su	1124	0.5	15	
	1017	-0.1	-3			1137	0.0	0			0536	2.5	76			0615	2.4	73			1115	0.1	3			1124	0.5	15						
	1606	2.8	85			1727	2.5	76			1231	-0.2	-6			1251	0.2	6			1643	2.9	88			1709	2.7	82						
	2348	-0.1	-3								1758	2.9	88			1833	2.6	79																
8 Th	0453	2.3	70		23 F	0038	0.0	0		8 Su	0125	-0.2	-6		23 M	0132	0.2	6		8 Su	0007	0.1	3		23 M	0003	0.5	15		23 M	0538	2.7	82	
	1130	-0.2	-6			0559	2.2	67			0633	2.6	79			0658	2.5	76			0521	2.8	85			0538	2.7	82						
	1709	2.9	88			1230	0.0	0			1332	-0.3	-9			1340	0.1	3			1220	0.0	0			1220	0.4	12						
						1816	2.5	76			1857	3.0	91			1915	2.6	79			1746	3.0	91			1757	2.7	82						
9 F	0050	-0.2	-6		24 Sa	0125	0.0	0		9 M	0217	-0.3	-9		24 Tu	0213	0.1	3		9 M	0100	-0.1	-3		24 Tu	0048	0.4	12		24 Tu	0621	2.8	85	
	0553	2.4	73			0646	2.3	70			0727	2.8	85			0737	2.6	79			0616	3.0	91			0621	2.8	85						
	1240	-0.2	-6			1319	0.0	0			1429	-0.4	-12			1426	0.0	0			1319	-0.2	-6			1312	0.3	9						
	1810	2.9	88			1901	2.5	76			1951	3.0	91			1953	2.7	82			1842	3.0	91			1841	2.8	85						
10 Sa	0146	-0.3	-9		25 Su	0208	0.0	0		10 Tu	0305	-0.4	-12		25 W	0250	0.0	0		10 Tu	0150	-0.1	-3		25 W	0130	0.3	9		25 W	0659	3.0	91	
	0650	2.5	76			0728	2.3	70			0818	2.9	88			0811	2.7	82			0708	3.1	94			0659	3.0	91						
	1343	-0.3	-9			1404	-0.1	-3			1523	-0.5	-15			1509	0.0	0			1414	-0.2	-6			1401	0.2	6						
	1908	3.0	91			1942	2.5	76			2043	3.0	91			2029	2.7	82			1934	3.1	94			1922	2.8	85						
11 Su	0239	-0.4	-12		26 M	0248	-0.1	-3		11 W	0351	-0.4	-12		26 Th	0325	0.0	0		11 W	0237	-0.2	-6		26 Th	0210	0.2	6		26 Th	0735	3.1	94	
	0744	2.6	79			0807	2.4	73			0907	3.0	91			0844	2.8	85			0756	3.2	98			0735	3.1	94						
	1442	-0.5	-15			1447	-0.1	-3			1614	-0.5	-15			1552	0.0	0			1506	-0.3	-9			1448	0.2	6						
	2004	3.0	91			2019	2.6	79			2133	2.9	88			2105	2.7	82			2023	3.1	94			2001	2.8	85						
12 M	0330	-0.5	-15		27 Tu	0325	-0.1	-3		12 Th	0435	-0.4	-12		27 F	0359	0.0	0		12 Th	0321	-0.2	-6		27 F	0248	0.2	6		27 F	0810	3.2	98	
	0837	2.7	82			0842	2.4	73			0955	3.0	91			0917	2.9	88			0842	3.3	101			0810	3.2	98						
	1538	-0.5	-15			1528	-0.1	-3			1704	-0.4	-12			1634	0.0	0			1555	-0.3	-9			1534	0.1	3						
	2058	3.0	91			2054	2.6	79			2222	2.8	85			2143	2.7	82			2111	3.0	91			2041	2.9	88						
13 Tu	0418	-0.5	-15		28 W	0359	-0.1	-3		13 F	0517	-0.3	-9		28 Sa	0432	0.0	0		13 F	0403	-0.1	-3		28 Sa	0326	0.2	6		28 Sa	0847	3.3	101	
	0929	2.7	82			0915	2.5	76			1042	3.0	91			0953	3.1	94			0927	3.3	101			0847	3.3	101						
	1631	-0.5	-15			1608	-0.1	-3			1753	-0.3	-9			1718	0.0	0			1642	-0.2	-6											

Washington, D.C., 2009

Times and Heights of High and Low Waters

July				August				September																					
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height																
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm															
1 W	0258	3.3	101		16 Th	0136	3.2	98		1 Sa	0419	3.1	94		16 Su	0313	3.3	101		1 Tu	0536	3.0	91		16 W	0516	3.3	101	
	1009	0.3	9			0901	0.6	18			1133	0.5	15			1100	0.5	15			1235	0.5	15			1232	0.2	6	
	1527	2.7	82			1410	2.6	79			1652	2.7	82			1603	2.7	82			1803	2.8	85			1749	3.2	98	
	2204	0.3	9			2036	0.4	12			2321	0.5	15			2243	0.4	12											
2 Th	0353	3.3	101		17 F	0233	3.3	101		2 Su	0512	3.1	94		17 M	0423	3.3	101		2 W	0036	0.5	15		17 Th	0049	0.2	6	
	1106	0.3	9			1012	0.6	18			1224	0.4	12			1201	0.4	12			0621	3.1	94			0613	3.4	104	
	1624	2.7	82			1517	2.6	79			1744	2.7	82			1707	2.8	85			1317	0.4	12			1322	0.1	3	
	2257	0.3	9			2137	0.4	12								2356	0.3	9			1846	2.9	88			1841	3.4	104	
3 F	0445	3.3	101		18 Sa	0335	3.3	101		3 M	0014	0.5	15		18 Tu	0528	3.4	104		3 Th	0123	0.5	15		18 F	0145	0.0	0	
	1201	0.3	9			1120	0.5	15			0601	3.1	94			1257	0.2	6			0701	3.1	94			0705	3.4	104	
	1718	2.7	82			1623	2.6	79			1310	0.4	12			1806	3.0	91			1356	0.4	12			1409	0.0	0	
	2349	0.4	12			2248	0.4	12			1831	2.8	85								1925	3.0	91			●	1930	3.5	107
4 Sa	0535	3.3	101		19 Su	0438	3.4	104		4 Tu	0103	0.4	12		19 W	0101	0.2	6		4 F	0207	0.4	12		19 Sa	0238	0.0	0	
	1252	0.3	9			1222	0.4	12			0646	3.1	94			0627	3.5	107			0738	3.1	94			0754	3.4	104	
	1808	2.7	82			1725	2.7	82			1353	0.4	12			1349	0.1	3			1431	0.3	9			1454	0.0	0	
											1915	2.8	85			1900	3.2	98			○	1959	3.1	94			2017	3.6	110
5 Su	0040	0.4	12		20 M	0002	0.3	9		5 W	0149	0.4	12		20 Th	0159	0.1	3		5 Sa	0249	0.4	12		20 Su	0329	0.0	0	
	0622	3.2	98			0540	3.4	104			0727	3.1	94			0721	3.5	107			0812	3.1	94			0842	3.3	101	
	1339	0.3	9			1319	0.2	6			1432	0.3	9			1437	0.0	0			1503	0.3	9			1537	0.0	0	
	1855	2.8	85			1823	2.9	88			○	1955	2.9	88			●	1951	3.4		104		2030	3.2		98		2102	3.6	110
6 M	0127	0.4	12		21 Tu	0110	0.3	9		6 Th	0231	0.4	12		21 F	0254	0.0	0		6 Su	0329	0.4	12		21 M	0418	0.1	3	
	0707	3.2	98			0638	3.5	107			0805	3.1	94			0812	3.5	107			0845	3.1	94			0929	3.2	98	
	1423	0.3	9			1412	0.1	3			1508	0.3	9			1523	-0.1	-3			1534	0.3	9			1618	0.1	3	
	1939	2.8	85			●	1917	3.0	91			2031	2.9	88			2040	3.5	107			2059	3.3	101			2146	3.6	110
7 Tu	0212	0.4	12		22 W	0211	0.1	3		7 F	0311	0.4	12		22 Sa	0347	0.0	0		7 M	0409	0.4	12		22 Tu	0507	0.2	6	
	0748	3.2	98			0734	3.5	107			0839	3.1	94			0902	3.4	104			0918	3.1	94			1016	3.1	94	
	1504	0.3	9			1503	0.0	0			1540	0.3	9			1608	-0.1	-3			1604	0.3	9			1700	0.2	6	
	2020	2.8	85			2010	3.1	94			2103	3.0	91			2128	3.5	107			2131	3.4	104			2231	3.5	107	
8 W	0253	0.4	12		23 Th	0309	0.1	3		8 Sa	0349	0.5	15		23 Su	0439	0.0	0		8 Tu	0450	0.5	15		23 W	0555	0.3	9	
	0827	3.1	94			0828	3.5	107			0911	3.1	94			0951	3.3	101			0956	3.0	91			1104	2.9	88	
	1541	0.3	9			1551	-0.1	-3			1609	0.3	9			1651	0.0	0			1638	0.3	9			1742	0.4	12	
	2059	2.8	85			2102	3.2	98			2133	3.1	94			2216	3.5	107			2209	3.4	104			2318	3.3	101	
9 Th	0332	0.5	15		24 F	0404	0.0	0		9 Su	0427	0.5	15		24 M	0530	0.1	3		9 W	0535	0.5	15		24 Th	0645	0.5	15	
	0902	3.1	94			0921	3.5	107			0943	3.1	94			1041	3.2	98			1038	2.9	88			1156	2.8	85	
	1614	0.3	9			1638	-0.1	-3			1637	0.3	9			1735	0.1	3			1717	0.4	12			1826	0.5	15	
	2134	2.8	85			2153	3.3	101			2204	3.1	94			2304	3.5	107			2252	3.4	104						
10 F	0409	0.5	15		25 Sa	0459	0.1	3		10 M	0506	0.5	15		25 Tu	0623	0.3	9		10 Th	0624	0.6	18		25 F	0009	3.1	94	
	0936	3.1	94			1013	3.3	101			1019	3.0	91			1133	3.0	91			1126	2.9	88			0736	0.6	18	
	1645	0.3	9			1724	-0.1	-3			1708	0.3	9			1819	0.2	6			1803	0.4	12			1251	2.7	82	
	2207	2.9	88			2245	3.3	101			2240	3.2	98			2355	3.4	104			2342	3.4	104			○	1916	0.6	18
11 Sa	0446	0.5	15		26 Su	0553	0.1	3		11 Tu	0549	0.6	18		26 W	0716	0.4	12		11 F	0723	0.6	18		26 Sa	0106	3.0	91	
	1009	3.0	91			1106	3.2	98			1100	2.9	88			1228	2.8	85			1221	2.8	85			0829	0.7	21	
	1713	0.3	9			1810	0.0	0			1743	0.3	9			1905	0.4	12			1859	0.5	15			1350	2.6	79	
	2240	2.9	88			2338	3.3	101			2321	3.3	101								○			2012		0.7	21		
12 Su	0526	0.6	18		27 M	0648	0.2	6		12 W	0637	0.6	18		27 Th	0048	3.2	98		12 Sa	0039	3.3	101		27 Su	0209	2.9	88	
	1046	3.0	91			1201	3.0	91			1147	2.8	85			0811	0.5	15			0829	0.7	21			0923	0.7	21	
	1743	0.3	9			1856	0.1	3			1825	0.3	9			1326	2.7	82			1327	2.7	82			1450	2.6	79	
	2316	3.0	91								○	1956	0.5	15			1956	0.5	15			2006	0.5	15			2113	0.7	21
13 M	0609	0.6	18		28 Tu	0031	3.3	101		13 Th	0008	3.3	101		28 F	0147	3.1	94		13 Su	0146	3.2	98		28 M	0312	2.8	85	
	1127	2.9	88			0745	0.3	9			0734	0.6	18			0908	0.6	18			0936	0.6	18			1016	0.7	21	
	1817	0.3	9			1259	2.9	88			1241	2.7	82			1427	2.6	79			1439	2.7	82			1548	2.7	82	
	2357	3.1	94			○	1944	0.2	6			○	1914	0.4		12		2052	0.6		18		2125	0.5		15		2214	0.7	21
14 Tu	0658	0.6	18		29 W	0127	3.3	101		14 F	0102	3.3	101		29 Sa	0248	3.0	91		14 M	0301	3.2							

Chesapeake Bay Bridge Tunnel, Virginia, 2009

Times and Heights of High and Low Waters

January				February				March																					
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height																
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm															
1 Th	0439	0.1	3		16 F	0608	-0.1	-3		1 Su	0556	0.1	3		16 M	0056	2.4	73		1 Su	0447	0.0	0		16 M	0550	0.3	9	
	1055	2.4	73			1209	2.3	70			1153	2.1	64			0726	0.3	9			1047	2.4	73			1142	2.2	67	
	1712	0.0	0			1825	-0.2	-6			1806	-0.1	-3			1306	1.9	58			1653	-0.1	-3			1745	0.3	9	
	2325	2.2	67													1919	0.2	6			2317	2.8	85						
2 F	0527	0.2	6		17 Sa	0049	2.5	76		2 M	0032	2.5	76		17 Tu	0152	2.3	70		2 M	0538	0.1	3		17 Tu	0011	2.5	76	
	1135	2.3	70			0708	0.1	3			0654	0.1	3			0827	0.5	15			1134	2.3	70			0640	0.5	15	
	1753	0.0	0			1259	2.1	64			1244	2.0	61			1402	1.8	55			1743	-0.1	-3			1227	2.0	61	
				1915	-0.1	-3		1900	-0.1	-3		2016	0.3	9						1835	0.4	12							
3 Sa	0011	2.2	67		18 Su	0145	2.4	73		3 Tu	0130	2.5	76		18 W	0256	2.2	67		3 Tu	0010	2.8	85		18 W	0103	2.4	73	
	0620	0.2	6			0811	0.2	6			0800	0.2	6			0930	0.5	15			0636	0.2	6			0735	0.6	18	
	1220	2.1	64			1353	1.9	58			1345	1.9	58			1507	1.7	52			1228	2.1	64			1319	1.9	58	
	1840	-0.1	-3			2007	0.0	0			2002	-0.1	-3			2119	0.3	9			1841	0.0	0			1933	0.5	15	
4 Su	0103	2.3	70		19 M	0245	2.3	70		4 W	0237	2.6	79		19 Th	0403	2.2	67		4 W	0111	2.7	82		19 Th	0204	2.3	70	
	0720	0.2	6			0915	0.3	9			0910	0.2	6			1029	0.5	15			0743	0.3	9			0836	0.7	21	
	1312	2.0	61			1453	1.7	52			1456	1.9	58			1614	1.8	55			1332	2.1	64			1421	1.9	58	
	1931	-0.1	-3			2102	0.1	3			2110	-0.2	-6			2218	0.3	9			1948	0.1	3			2037	0.5	15	
5 M	0200	2.5	76		20 Tu	0346	2.3	70		5 Th	0350	2.7	82		20 F	0503	2.3	70		5 Th	0222	2.7	82		20 F	0311	2.2	67	
	0825	0.2	6			1015	0.3	9			1020	0.1	3			1120	0.4	12			0855	0.3	9			0936	0.7	21	
	1412	2.0	61			1556	1.7	52			1611	2.0	61			1713	1.9	58			1446	2.1	64			1528	2.0	61	
	2029	-0.1	-3			2157	0.1	3			2219	-0.3	-9			2312	0.2	6			2101	0.0	0			2141	0.5	15	
6 Tu	0302	2.6	79		21 W	0444	2.3	70		6 F	0501	2.8	85		21 Sa	0552	2.4	73		6 F	0339	2.7	82		21 Sa	0415	2.3	70	
	0932	0.1	3			1110	0.3	9			1125	-0.1	-3			1203	0.3	9			1005	0.2	6			1029	0.6	18	
	1518	1.9	58			1656	1.7	52			1723	2.2	67			1802	2.0	61			1605	2.2	67			1631	2.1	64	
	2130	-0.2	-6			2250	0.1	3			2325	-0.4	-12			2358	0.1	3			2213	-0.1	-3			2237	0.4	12	
7 W	0408	2.7	82		22 Th	0536	2.4	73		7 Sa	0605	3.0	91		22 Su	0634	2.5	76		7 Sa	0451	2.8	85		22 Su	0508	2.4	73	
	1038	0.0	0			1157	0.3	9			1223	-0.3	-9			1240	0.2	6			1109	0.0	0			1114	0.5	15	
	1626	2.0	61			1747	1.8	55			1826	2.4	73			1844	2.2	67			1716	2.4	73			1723	2.3	70	
	2232	-0.4	-12			2339	0.0	0													2319	-0.2	-6			2327	0.3	9	
8 Th	0513	2.9	88		23 F	0622	2.4	73		8 Su	0025	-0.5	-15		23 M	0041	0.0	0		8 Su	0553	2.9	88		23 M	0553	2.5	76	
	1139	-0.2	-6			1238	0.2	6			0701	3.1	94			0711	2.6	79			1204	-0.1	-3			1154	0.3	9	
	1733	2.1	64			1832	1.9	58			1315	-0.4	-12			1315	0.1	3			1816	2.6	79			1808	2.5	76	
	2334	-0.5	-15								1922	2.6	79			1923	2.4	73											
9 F	0614	3.1	94		24 Sa	0023	0.0	0		9 M	0122	-0.6	-18		24 Tu	0120	-0.1	-3		9 M	0019	-0.3	-9		24 Tu	0011	0.2	6	
	1237	-0.3	-9			0702	2.5	76			0752	3.1	94			0745	2.6	79			0647	3.0	91			0633	2.6	79	
	1835	2.3	70			1316	0.1	3			1404	-0.5	-15			1348	0.0	0			1254	-0.3	-9			1231	0.2	6	
						1913	2.0	61			2014	2.7	82			2000	2.5	76			1908	2.8	85			1848	2.7	82	
10 Sa	0033	-0.6	-18		25 Su	0104	-0.1	-3		10 Tu	0215	-0.6	-18		25 W	0159	-0.1	-3		10 Tu	0113	-0.4	-12		25 W	0054	0.0	0	
	0711	3.2	98			0739	2.6	79			0840	3.1	94			0819	2.6	79			0735	3.0	91			0710	2.6	79	
	1331	-0.5	-15			1350	0.0	0			1450	-0.6	-18			1421	-0.1	-3			1339	-0.3	-9			1307	0.0	0	
	1933	2.4	73			1951	2.1	64			2102	2.8	85			2036	2.6	79			1956	3.0	91			1927	2.9	88	
11 Su	0130	-0.7	-21		26 M	0143	-0.1	-3		11 W	0307	-0.6	-18		26 Th	0238	-0.2	-6		11 W	0203	-0.4	-12		26 Th	0135	-0.1	-3	
	0805	3.2	98			0814	2.6	79			0925	3.0	91			0853	2.6	79			0819	3.0	91			0748	2.7	82	
	1423	-0.6	-18			1423	-0.1	-3			1534	-0.5	-15			1455	-0.2	-6			1422	-0.4	-12			1344	-0.1	-3	
	2027	2.5	76			2028	2.2	67			2149	2.9	88			2112	2.7	82			2040	3.1	94			2006	3.0	91	
12 M	0226	-0.7	-21		27 Tu	0220	-0.2	-6		12 Th	0357	-0.5	-15		27 F	0318	-0.2	-6		12 Th	0250	-0.4	-12		27 F	0217	-0.1	-3	
	0856	3.2	98			0847	2.6	79			1008	2.8	85			0928	2.6	79			0901	2.8	85			0826	2.7	82	
	1513	-0.6	-18			1455	-0.1	-3			1617	-0.4	-12			1531	-0.2	-6			1502	-0.3	-9			1422	-0.1	-3	
	2120	2.6	79			2104	2.3	70			2234	2.8	85			2150	2.8	85			2122	3.1	94			2045	3.1	94	
13 Tu	0320	-0.6	-18		28 W	0258	-0.1	-3		13 F	0447	-0.3	-9		28 Sa	0401	-0.1	-3		13 F	0336	-0.3	-9		28 Sa	0300	-0.1	-3	
	0945	3.1	94			0919	2.6	79			1051	2.5	76			1006	2.5	76			0942	2.7	82			0905	2.6	79	
	1602	-0.6	-18			1528	-0.2	-6			1659	-0.3	-9			1610	-0.2	-6			1542	-0.2	-6			1503	-0.1	-3	
	2212	2.6	79			2139	2.3	70			2319	2.7	82			2231	2.8	85			2203	3.0	91			2127	3.2	98	
14 W	0415	-0.5	-15		29 Th	0337	-0.1	-3		14 Sa	0537	-0.1	-3		14 Sa	0421	-0.1	-3		14 Sa	0421	-0.1	-3		29 Su	0345	-0.1	-3	
	1033	2.9	88			0953	2.5	76			11																		

Chesapeake Bay Bridge Tunnel, Virginia, 2009

Times and Heights of High and Low Waters

July				August				September															
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height										
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm									
1 W	0312	2.1	64	16 Th	0143	2.1	64	1 Sa	0443	2.1	64	16 Su	0334	2.3	70	1 Tu	0552	2.5	76	16 W	0543	3.0	91
	0913	0.2	6		0755	0.2	6		1031	0.5	15		0941	0.2	6		1145	0.6	18		1145	0.1	3
	1554	2.8	85		1427	2.8	85		1714	2.8	85		1619	3.1	94		1814	2.9	88		1809	3.3	101
	2224	0.3	9		2100	0.4	12		2340	0.5	15		2249	0.3	9								
2 Th	0415	2.1	64	17 F	0244	2.1	64	2 Su	0536	2.1	64	17 M	0446	2.5	76	2 W	0024	0.5	15	17 Th	0019	0.0	0
	1006	0.2	6		0854	0.2	6		1123	0.4	12		1049	0.1	3		0633	2.6	79		0638	3.3	101
	1649	2.8	85		1529	3.0	91		1802	2.8	85		1725	3.3	101		1228	0.5	15		1242	0.0	0
	2318	0.3	9		2204	0.3	9						2347	0.1	3		1851	2.9	88		1900	3.3	101
3 F	0512	2.0	61	18 Sa	0351	2.2	67	3 M	0023	0.5	15	18 Tu	0552	2.7	82	3 Th	0057	0.4	12	18 F	0106	-0.1	-3
	1057	0.3	9		0957	0.1	3		0622	2.3	70		1152	0.0	0		0711	2.8	85		0728	3.5	107
	1739	2.8	85		1634	3.1	94		1210	0.4	12		1824	3.4	104		1307	0.4	12		1335	0.0	0
					2306	0.2	6		1844	2.8	85						1925	2.9	88		1948	3.3	101
4 Sa	0006	0.3	9	19 Su	0459	2.3	70	4 Tu	0101	0.4	12	19 W	0041	0.0	0	4 F	0129	0.3	9	19 Sa	0151	-0.1	-3
	0603	2.1	64		1100	0.0	0		0703	2.4	73		0651	2.9	88		0747	2.9	88		0815	3.6	110
	1145	0.3	9		1737	3.2	98		1252	0.3	9		1251	-0.2	-6		1345	0.4	12		1426	0.0	0
	1825	2.8	85						1922	2.9	88		1918	3.4	104		1959	2.9	88		2033	3.2	98
5 Su	0050	0.3	9	20 M	0004	0.0	0	5 W	0135	0.3	9	20 Th	0131	-0.2	-6	5 Sa	0201	0.3	9	20 Su	0234	-0.1	-3
	0648	2.1	64		0604	2.5	76		0741	2.5	76		0745	3.2	98		0821	3.0	91		0859	3.6	110
	1231	0.2	6		1201	-0.2	-6		1332	0.3	9		1347	-0.2	-6		1423	0.4	12		1515	0.1	3
	1907	2.8	85		1837	3.4	104		1957	2.9	88		2008	3.4	104		2032	2.9	88		2117	3.0	91
6 M	0129	0.2	6	21 Tu	0100	-0.1	-3	6 Th	0208	0.3	9	21 F	0219	-0.2	-6	6 Su	0233	0.2	6	21 M	0316	0.0	0
	0728	2.2	67		0704	2.6	79		0818	2.6	79		0836	3.3	101		0856	3.1	94		0943	3.5	107
	1313	0.2	6		1300	-0.3	-9		1410	0.3	9		1441	-0.2	-6		1501	0.4	12		1604	0.2	6
	1946	2.8	85		1933	3.4	104		2031	2.9	88		2056	3.3	101		2107	2.8	85		2201	2.8	85
7 Tu	0205	0.2	6	22 W	0152	-0.3	-9	7 F	0239	0.2	6	22 Sa	0304	-0.2	-6	7 M	0307	0.2	6	22 Tu	0359	0.2	6
	0807	2.3	70		0800	2.8	85		0853	2.7	82		0925	3.4	104		0932	3.2	98		1027	3.4	104
	1354	0.2	6		1358	-0.3	-9		1447	0.3	9		1534	-0.1	-3		1542	0.4	12		1652	0.4	12
	2023	2.8	85		2027	3.4	104		2103	2.8	85		2143	3.1	94		2143	2.7	82		2245	2.6	79
8 W	0240	0.2	6	23 Th	0243	-0.3	-9	8 Sa	0311	0.2	6	23 Su	0349	-0.2	-6	8 Tu	0344	0.3	9	23 W	0443	0.4	12
	0844	2.3	70		0855	3.0	91		0928	2.7	82		1013	3.4	104		1010	3.2	98		1112	3.2	98
	1433	0.2	6		1455	-0.3	-9		1525	0.3	9		1627	0.1	3		1626	0.4	12		1743	0.6	18
	2058	2.8	85		2118	3.4	104		2136	2.7	82		2229	2.9	88		2223	2.6	79		2330	2.5	76
9 Th	0313	0.2	6	24 F	0332	-0.4	-12	9 Su	0343	0.2	6	24 M	0434	0.0	0	9 W	0425	0.3	9	24 Th	0530	0.6	18
	0921	2.4	73		0947	3.1	94		1003	2.8	85		1101	3.3	101		1053	3.2	98		1201	3.0	91
	1511	0.3	9		1551	-0.2	-6		1605	0.4	12		1721	0.2	6		1714	0.5	15		1837	0.7	21
	2133	2.7	82		2207	3.2	98		2211	2.6	79		2316	2.7	82		2308	2.5	76				
10 F	0346	0.2	6	25 Sa	0421	-0.3	-9	10 M	0417	0.2	6	25 Tu	0520	0.2	6	10 Th	0511	0.4	12	25 F	0020	2.3	70
	0957	2.4	73		1040	3.1	94		1040	2.8	85		1149	3.2	98		1142	3.1	94		0622	0.7	21
	1550	0.3	9		1648	-0.1	-3		1648	0.4	12		1817	0.4	12		1809	0.6	18		1254	2.8	85
	2207	2.6	79		2256	3.0	91		2248	2.5	76								1935		0.9	27	
11 Sa	0420	0.2	6	26 Su	0509	-0.2	-6	11 Tu	0455	0.2	6	26 W	0005	2.5	76	11 F	0000	2.4	73	26 Sa	0117	2.2	67
	1034	2.5	76		1132	3.1	94		1120	2.9	88		0609	0.4	12		0606	0.5	15		0722	0.8	24
	1631	0.4	12		1747	0.1	3		1736	0.5	15		1241	3.0	91		1238	3.1	94		1355	2.7	82
	2242	2.5	76		2346	2.7	82		2330	2.4	73		1916	0.6	18		1912	0.6	18		2036	0.9	27
12 Su	0454	0.2	6	27 M	0558	-0.1	-3	12 W	0538	0.3	9	27 Th	0058	2.3	70	12 Sa	0101	2.4	73	27 Su	0222	2.2	67
	1113	2.5	76		1226	3.0	91		1206	2.9	88		0702	0.5	15		0711	0.5	15		0828	0.9	27
	1715	0.4	12		1848	0.3	9		1830	0.5	15		1337	2.9	88		1344	3.1	94		1459	2.7	82
	2319	2.4	73								2018		0.7	21	2021		0.6	18	2133		0.9	27	
13 M	0532	0.2	6	28 Tu	0039	2.4	73	13 Th	0019	2.3	70	28 F	0157	2.2	67	13 Su	0212	2.4	73	28 M	0329	2.3	70
	1154	2.6	79		0648	0.1	3		0628	0.3	9		0801	0.7	21		0822	0.5	15		0931	0.8	24
	1803	0.5	15		1321	2.9	88		1259	2.9	88		1440	2.8	85		1456	3.1	94		1559	2.7	82
					1951	0.4	12		1930	0.6	18		2120	0.8	24		2130	0.5	15		2221	0.8	24
14 Tu	0001	2.3	70	29 W	0135	2.2	67	14 F	0116	2.3	70	29 Sa	0304	2.1	64	14 M	0328	2.5	76	29 Tu	0427	2.4	73
	0613	0.2	6		0741	0.3	9		0727	0.3	9		0904	0.7	21		0935	0.4	12		1027	0.8	24
	1239	2.6	79		1419	2.9	88		1401	3.0	91		1545	2.7	82		1607	3.1	94		1650	2.7	82
	1857	0.5	15		2054	0.5	15		2037	0.5	15		2217	0.8	24		2233	0.4	12		2302	0.7	21
15 W	0048	2.2	67	30 Th	0236	2.1	64	15 Sa	0222	2.2	67	30 Su	0410	2.2	67	15 Tu	0441	2.7	82	30 W	0515	2.6	79
	0701	0.2	6		0837	0.4	12		0833	0.3	9		1005	0.7	21		1043	0.3	9		1115	0.7	21
	1330	2.7	82		1520	2.8	85		1508	3.0	91		1643	2.7	82		1712	3.2	98		1733	2.8	85
	1957	0.5	15		2155	0.5	15		2144	0.5	15		2306	0.7	21		2329	0.2	6		2339	0.6	18
			31 F	0342	2.0	61				31 M	0505	2.3	70										
				0935	0.5	15					1058	0.6	18										
				1619	2.8	85					1732												

Chesapeake Bay Bridge Tunnel, Virginia, 2009

Times and Heights of High and Low Waters

October				November				December														
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height									
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm								
1 Th	0557	2.8	85	16 F	0622	3.4	104	1 Su	0006	0.2	6	16 M	0058	-0.1	-3							
	1158	0.6	18		1232	0.1	3		0637	3.2	98		0732	3.3	101	0651	-0.2	-6				
	1812	2.8	85		1840	3.0	91		1251	0.2	6		1354	0.0	0	1312	-0.1	-3				
2 F	0013	0.4	12	17 Sa	0040	-0.1	-3	2 M	0046	0.1	3	17 Tu	0139	0.0	0	2 W	0104	-0.3	-9			
	0636	3.0	91		0709	3.5	107		0717	3.3	101		0813	3.3	101		0739	3.3	101	0739	3.3	101
	1239	0.5	15		1322	0.0	0		1334	0.1	3		1436	0.1	3		1401	-0.2	-6	1401	-0.2	-6
3 Sa	0047	0.3	9	18 Su	0123	-0.1	-3	3 Tu	0127	0.0	0	18 W	0220	0.0	0	3 Th	0154	-0.3	-9			
	0712	3.2	98		0752	3.6	110		0759	3.4	104		0852	3.2	98		0828	3.3	101	0828	3.3	101
	1318	0.4	12		1410	0.0	0		1419	0.1	3		1517	0.1	3		1450	-0.2	-6	1450	-0.2	-6
4 Su	0122	0.2	6	19 M	0204	0.0	0	4 W	0211	0.0	0	19 Th	0301	0.1	3	4 F	0246	-0.4	-12			
	0748	3.3	101		0834	3.6	110		0843	3.4	104		0931	3.0	91		0919	3.3	101	0919	3.3	101
	1358	0.3	9		1455	0.1	3		1505	0.1	3		1557	0.2	6		1541	-0.2	-6	1541	-0.2	-6
5 M	0158	0.2	6	20 Tu	0246	0.1	3	5 Th	0258	0.0	0	20 F	0342	0.2	6	5 Sa	0340	-0.3	-9			
	0825	3.4	104		0915	3.5	107		0930	3.4	104		1011	2.9	88		1010	3.2	98	1010	3.2	98
	1439	0.3	9		1539	0.2	6		1554	0.1	3		1637	0.3	9		1634	-0.2	-6	1634	-0.2	-6
6 Tu	0236	0.2	6	21 W	0327	0.3	9	6 F	0349	0.0	0	21 Sa	0424	0.4	12	6 Su	0438	-0.2	-6			
	0904	3.4	104		0956	3.3	101		1021	3.3	101		1052	2.7	82		1104	3.0	91	1104	3.0	91
	1522	0.3	9		1623	0.4	12		1647	0.2	6		1719	0.4	12		1729	-0.2	-6	1729	-0.2	-6
7 W	0317	0.2	6	22 Th	0409	0.4	12	7 Sa	0445	0.1	3	22 Su	0510	0.5	15	7 M	0540	-0.1	-3			
	0946	3.4	104		1039	3.1	94		1115	3.2	98		1135	2.6	79		1200	2.8	85	1200	2.8	85
	1608	0.4	12		1709	0.5	15		1744	0.2	6		1802	0.5	15		1826	-0.2	-6	1826	-0.2	-6
8 Th	0403	0.3	9	23 F	0454	0.6	18	8 Su	0548	0.3	9	23 M	0002	2.1	64	8 Tu	0040	2.5	76			
	1033	3.3	101		1124	2.9	88		1215	3.0	91		0601	0.6	18		0648	0.1	3	0648	0.1	3
	1659	0.4	12		1757	0.7	21		1846	0.3	9		1220	2.4	73		1259	2.6	79	1259	2.6	79
9 F	0455	0.4	12	24 Sa	0544	0.7	21	9 M	0052	2.5	76	24 Tu	0054	2.1	64	9 W	0147	2.6	79			
	1126	3.2	98		1213	2.7	82		0657	0.3	9		0656	0.6	18		0759	0.2	6	0759	0.2	6
	1756	0.5	15		1848	0.8	24		1319	2.9	88		1308	2.3	70		1402	2.4	73	1402	2.4	73
10 Sa	0554	0.5	15	25 Su	0038	2.2	67	10 Tu	0204	2.6	79	25 W	0149	2.2	67	10 Th	0255	2.7	82			
	1225	3.1	94		0641	0.8	24		0811	0.4	12		0756	0.7	21		0910	0.2	6	0910	0.2	6
	1900	0.6	18		1306	2.6	79		1426	2.7	82		1359	2.2	67		1507	2.3	70	1507	2.3	70
11 Su	0055	2.5	76	26 M	0138	2.2	67	11 W	0315	2.7	82	26 Th	0245	2.3	70	11 F	0358	2.8	85			
	0703	0.5	15		0744	0.8	24		0924	0.3	9		0856	0.6	18		1016	0.1	3	1016	0.1	3
	1332	3.0	91		1403	2.5	76		1533	2.7	82		1452	2.2	67		1612	2.2	67	1612	2.2	67
12 M	0209	2.5	76	27 Tu	0241	2.3	70	12 Th	0419	2.9	88	27 F	0338	2.5	76	12 Sa	0455	2.8	85			
	0817	0.5	15		0847	0.8	24		1030	0.2	6		0953	0.5	15		1115	0.1	3	1115	0.1	3
	1444	3.0	91		1500	2.5	76		1635	2.6	79		1546	2.1	64		1711	2.1	64	1711	2.1	64
13 Tu	0326	2.7	82	28 W	0339	2.4	73	13 F	0515	3.1	94	28 Sa	0428	2.7	82	13 Su	0546	2.9	88			
	0931	0.4	12		0945	0.8	24		1128	0.1	3		1046	0.4	12		1207	0.0	0	1207	0.0	0
	1553	3.0	91		1554	2.5	76		1731	2.6	79		1639	2.2	67		1804	2.1	64	1804	2.1	64
14 W	0433	2.9	88	29 Th	0430	2.6	79	14 Sa	0605	3.2	98	29 Su	0516	2.9	88	14 M	0633	2.9	88			
	1038	0.3	9		1037	0.6	18		1221	0.1	3		1136	0.2	6		1254	0.0	0	1254	0.0	0
	1656	3.0	91		1642	2.5	76		1821	2.6	79		1730	2.2	67		1851	2.1	64	1851	2.1	64
15 Th	0531	3.2	98	30 F	0515	2.8	85	15 Su	0014	-0.1	-3	30 M	0604	3.0	91	15 Tu	0037	-0.1	-3			
	1138	0.2	6		1124	0.5	15		0650	3.3	101		1225	0.0	0		0716	2.9	88	0716	2.9	88
	1751	3.0	91		1727	2.5	76		1309	0.0	0		1820	2.3	70		1337	0.0	0	1337	0.0	0
16 F	2355	0.0	0	31 Sa	2326	0.3	9	31 Su	1908	2.5	76	31 Th	0604	3.0	91	31 O	0047	-0.5	-15			
					0556	3.0	91		1208	0.4	12		1944	2.4	73		0724	3.1	94	0724	3.1	94
					1809	2.6	79										1344	-0.4	-12	1344	-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.

Hampton Roads (Sewells Pt.), Virginia, 2009

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 W	0403	2.1	64		16 Th	0245	2.1	64		1 Sa	0525	2.0	61		16 Su	0435	2.3	70		1 Tu	0038	0.6	18						
	1005	0.1	3			0854	0.2	6			1124	0.4	12			1040	0.2	6			0637	2.4	73						
	1641	2.7	82			1523	2.7	82			1804	2.6	79			1717	3.0	91			1242	0.5	15		16 W	0026	0.2	6	
	2307	0.3	9			2202	0.4	12								2351	0.3	9			1906	2.7	82			0632	2.9	88	
2 Th	0500	2.1	64		17 F	0347	2.1	64		2 Su	0026	0.5	15		17 M	0543	2.4	73		2 W	0118	0.4	12		17 Th	0116	0.0	0	
	1059	0.2	6			0953	0.1	3			0618	2.1	64			1148	0.1	3			0720	2.5	76			0726	3.1	94	
	1736	2.7	82			1627	2.8	85			1217	0.4	12			1820	3.1	94			1327	0.4	12			1338	0.0	0	
						2307	0.3	9			1852	2.7	82									1945	2.8	85			1952	3.2	98
3 F	0002	0.3	9		18 Sa	0453	2.1	64		3 M	0112	0.4	12		18 Tu	0048	0.1	3		3 Th	0155	0.3	9		18 F	0202	-0.1	-3	
	0554	2.0	61			1056	0.1	3			0706	2.2	67			0645	2.6	79			0759	2.6	79			0816	3.3	101	
	1151	0.2	6			1732	2.9	88			1306	0.3	9			1251	-0.1	-3			1409	0.4	12			1431	-0.1	-3	
	1827	2.7	82								1936	2.7	82			1918	3.2	98			2021	2.8	85			2040	3.1	94	
4 Sa	0053	0.3	9		19 Su	0010	0.2	6		4 Tu	0153	0.3	9		19 W	0141	0.0	0		4 F	0230	0.3	9		19 Sa	0247	-0.1	-3	
	0644	2.1	64			0558	2.2	67			0749	2.3	70			0743	2.9	88			0836	2.8	85			0903	3.4	104	
	1240	0.2	6			1200	0.0	0			1351	0.3	9			1350	-0.2	-6			1448	0.3	9			1521	-0.1	-3	
	1915	2.7	82			1834	3.1	94			2015	2.8	85			2011	3.3	101			2056	2.8	85			2125	3.0	91	
5 Su	0139	0.3	9		20 M	0109	0.1	3		5 W	0231	0.3	9		20 Th	0230	-0.2	-6		5 Sa	0304	0.2	6		20 Su	0331	-0.1	-3	
	0731	2.1	64			0700	2.4	73			0829	2.4	73			0836	3.1	94			0911	2.9	88			0950	3.4	104	
	1327	0.2	6			1302	-0.2	-6			1433	0.3	9			1446	-0.2	-6			1527	0.3	9			1609	0.0	0	
	1959	2.7	82			1933	3.2	98			2052	2.8	85			2102	3.2	98			2131	2.8	85			2210	2.9	88	
6 M	0221	0.2	6		21 Tu	0203	-0.1	-3		6 Th	0307	0.2	6		21 F	0316	-0.2	-6		6 Su	0338	0.2	6		21 M	0414	0.0	0	
	0814	2.2	67			0759	2.6	79			0907	2.5	76			0927	3.2	98			0947	2.9	88			1035	3.3	101	
	1412	0.2	6			1402	-0.3	-9			1513	0.3	9			1539	-0.2	-6			1606	0.3	9			1656	0.2	6	
	2040	2.7	82			2029	3.3	101			2127	2.7	82			2150	3.1	94			2206	2.7	82			2253	2.7	82	
7 Tu	0301	0.2	6		22 W	0254	-0.2	-6		7 F	0341	0.2	6		22 Sa	0402	-0.2	-6		7 M	0412	0.2	6		22 Tu	0457	0.1	3	
	0854	2.2	67			0854	2.8	85			0943	2.6	79			1016	3.3	101			1023	3.0	91			1121	3.2	98	
	1454	0.2	6			1459	-0.3	-9			1551	0.3	9			1631	-0.1	-3			1646	0.4	12			1744	0.4	12	
	2118	2.7	82			2122	3.2	98			2201	2.7	82			2237	3.0	91			2243	2.6	79			2338	2.5	76	
8 W	0338	0.2	6		23 Th	0344	-0.3	-9		8 Sa	0414	0.2	6		23 Su	0447	-0.1	-3		8 Tu	0448	0.2	6		23 W	0541	0.3	9	
	0933	2.3	70			0948	2.9	88			1018	2.6	79			1104	3.2	98			1103	3.0	91			1209	3.0	91	
	1534	0.2	6			1555	-0.3	-9			1629	0.3	9			1722	0.0	0			1729	0.4	12			1834	0.5	15	
	2155	2.7	82			2213	3.2	98			2235	2.6	79			2324	2.8	85			2323	2.5	76						
9 Th	0414	0.1	3		24 F	0431	-0.3	-9		9 Su	0447	0.2	6		24 M	0531	0.0	0		9 W	0528	0.3	9		24 Th	0024	2.4	73	
	1011	2.3	70			1040	3.0	91			1053	2.7	82			1153	3.1	94			1147	3.0	91			0629	0.5	15	
	1614	0.2	6			1650	-0.2	-6			1709	0.4	12			1813	0.2	6			1818	0.5	15			1300	2.8	85	
	2230	2.6	79			2303	3.0	91			2310	2.5	76											1927		0.7	21		
10 F	0449	0.1	3		25 Sa	0519	-0.3	-9		10 M	0521	0.2	6		25 Tu	0011	2.6	79		10 Th	0008	2.4	73		25 F	0114	2.2	67	
	1047	2.3	70			1132	3.0	91			1131	2.7	82			0617	0.1	3			0613	0.3	9			0721	0.6	18	
	1653	0.3	9			1745	-0.1	-3			1751	0.4	12			1244	3.0	91			1238	3.0	91			1356	2.7	82	
	2304	2.5	76			2353	2.8	85			2347	2.4	73			1907	0.4	12			1914	0.6	18			2024	0.8	24	
11 Sa	0523	0.2	6		26 Su	0606	-0.2	-6		11 Tu	0557	0.2	6		26 W	0100	2.4	73		11 F	0101	2.3	70		26 Sa	0211	2.2	67	
	1124	2.4	73			1225	3.0	91			1212	2.8	85			0706	0.3	9			0707	0.4	12			0819	0.7	21	
	1734	0.3	9			1841	0.0	0			1837	0.5	15			1338	2.8	85			1338	2.9	88			1457	2.6	79	
	2340	2.5	76													2003	0.6	18			2017	0.6	18			2123	0.8	24	
12 Su	0557	0.2	6		27 M	0043	2.6	79		12 W	0030	2.3	70		27 Th	0153	2.2	67		12 Sa	0204	2.3	70		27 Su	0314	2.1	64	
	1203	2.4	73			0654	-0.1	-3			0639	0.2	6			0758	0.5	15			0811	0.4	12			0922	0.8	24	
	1816	0.4	12			1318	2.9	88			1300	2.8	85			1436	2.7	82			1445	2.9	88			1558	2.5	76	
						1938	0.2	6			1931	0.5	15			2103	0.7	21			2125	0.6	18			2219	0.8	24	
13 M	0018	2.4	73		28 Tu	0135	2.4	73		13 Th	0120	2.3	70		28 F	0250	2.1	64		13 Su	0315	2.3	70		28 M	0416	2.2	67	
	0634	0.2	6			0743	0.1	3			0728	0.3	9			0856	0.6	18			0921	0.4	12			1025	0.8	24	
	1244	2.5	76			1413	2.8	85			1356	2.8	85			1538	2.6	79			1556	2.9	88			1654	2.6	79	
	1904	0.4	12			2037	0.4	12			2033	0.6	18			2204	0.8	24			2231	0.5	15			2310	0.7	21	
14 Tu	0100	2.3	70		29 W	0230	2.2	67		14 F	0218	2.2	67		29 Sa	0352	2.1	64		14 M	0426	2.5	76		29 Tu	0513	2.3	70	
	0714	0.2	6			0836	0.2	6			0826	0.3	9			0957	0.6	18			1033	0.3	9			1122	0.7	21	
	1331	2.6	79			1512	2.7	82			1500	2.8																	

Hampton Roads (Sewells Pt.), Virginia, 2009

Times and Heights of High and Low Waters

October				November				December																					
Time		Height		Time		Height		Time		Height		Time		Height															
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm															
1 Th	0036	0.5	15		16 F	0049	0.0	0		1 Su	0110	0.2	6		16 M	0154	-0.1	-3		1 Tu	0120	-0.2	-6		16 W	0217	-0.1	-3	
	0645	2.7	82			0707	3.2	98			0728	3.0	91			0821	3.1	94			0746	3.0	91			0847	2.8	85	
	1258	0.5	15			1325	0.0	0			1355	0.2	6			1444	0.0	0			1419	-0.1	-3			1508	0.0	0	
	1908	2.7	82			1931	2.9	88			1951	2.5	76			2038	2.4	73			2009	2.3	70			2059	2.1	64	
2 F	0114	0.4	12		17 Sa	0135	0.0	0		2 M	0151	0.1	3		17 Tu	0237	-0.1	-3		2 W	0208	-0.3	-9		17 Th	0259	-0.1	-3	
	0724	2.8	85			0755	3.3	101			0810	3.1	94			0904	3.1	94			0836	3.1	94			0927	2.7	82	
	1341	0.4	12			1415	0.0	0			1439	0.1	3			1527	0.1	3			1507	-0.1	-3			1548	0.0	0	
	1946	2.7	82			2017	2.9	88			2033	2.5	76			2119	2.4	73			2058	2.4	73			2138	2.1	64	
3 Sa	0150	0.3	9		18 Su	0219	-0.1	-3		3 Tu	0232	0.0	0		18 W	0319	0.0	0		3 Th	0258	-0.3	-9		18 F	0340	-0.1	-3	
	0802	3.0	91			0841	3.4	104			0854	3.2	98			0946	3.0	91			0925	3.1	94			1006	2.6	79	
	1422	0.3	9			1502	0.0	0			1524	0.1	3			1609	0.1	3			1557	-0.2	-6			1626	0.0	0	
	2023	2.7	82			2101	2.8	85			2117	2.5	76			2159	2.3	70			2148	2.4	73			2217	2.1	64	
4 Su	0226	0.2	6		19 M	0302	0.0	0		4 W	0316	0.0	0		19 Th	0400	0.1	3		4 F	0350	-0.3	-9		19 Sa	0420	0.0	0	
	0839	3.1	94			0925	3.3	101			0939	3.2	98			1027	2.8	85			1016	3.1	94			1043	2.5	76	
	1502	0.3	9			1547	0.1	3			1611	0.1	3			1651	0.2	6			1647	-0.2	-6			1703	0.0	0	
	2101	2.7	82			2143	2.7	82			2202	2.5	76			2240	2.2	67			2241	2.4	73			2256	2.1	64	
5 M	0303	0.2	6		20 Tu	0344	0.1	3		5 Th	0402	0.0	0		20 F	0442	0.2	6		5 Sa	0444	-0.3	-9		20 Su	0500	0.1	3	
	0918	3.2	98			1008	3.2	98			1027	3.2	98			1108	2.7	82			1109	3.0	91			1119	2.4	73	
	1544	0.3	9			1632	0.2	6			1701	0.1	3			1733	0.3	9			1738	-0.2	-6			1740	0.1	3	
	2139	2.7	82			2224	2.5	76			2252	2.5	76			2321	2.2	67			2336	2.4	73			2335	2.1	64	
6 Tu	0341	0.2	6		21 W	0426	0.2	6		6 F	0453	0.0	0		21 Sa	0525	0.3	9		6 Su	0541	-0.2	-6		21 M	0542	0.2	6	
	0958	3.2	98			1052	3.1	94			1119	3.1	94			1150	2.6	79			1203	2.9	88			1156	2.3	70	
	1627	0.3	9			1716	0.4	12			1753	0.2	6			1815	0.4	12			1830	-0.2	-6			1818	0.1	3	
	2220	2.6	79			2306	2.4	73			2346	2.4	73																
7 W	0421	0.2	6		22 Th	0509	0.3	9		7 Sa	0548	0.1	3		22 Su	0605	2.1	64		7 M	0634	2.5	76		22 Tu	0616	2.1	64	
	1042	3.2	98			1136	2.9	88			1215	3.0	91			1234	2.4	73			1300	2.7	82			0626	0.3	9	
	1714	0.4	12			1802	0.5	15			1849	0.2	6			1859	0.4	12			1924	-0.1	-3			1235	2.2	67	
	2304	2.5	76			2350	2.3	70																1856		0.1	3		
8 Th	0506	0.2	6		23 F	0554	0.5	15		8 Su	0645	2.4	73		23 M	0701	0.5	15		8 Tu	0747	0.0	0		23 W	0714	0.3	9	
	1130	3.1	94			1224	2.7	82			0650	0.2	6			0701	0.5	15			1359	2.5	76			0714	0.3	9	
	1805	0.4	12			1850	0.6	18			1316	2.8	85			1320	2.3	70			2020	-0.1	-3			1318	2.0	61	
	2354	2.5	76								1948	0.2	6			1945	0.4	12								1938	0.1	3	
9 F	0557	0.3	9		24 Sa	0638	2.2	67		9 M	0758	0.3	9		24 Tu	0757	0.6	18		9 W	0854	0.1	3		24 Th	0808	0.4	12	
	1225	3.0	91			0644	0.6	18			1420	2.7	82			1409	2.2	67			1501	2.3	70			1406	1.9	58	
	1902	0.5	15			1314	2.6	79			2048	0.2	6			2032	0.4	12			2116	-0.1	-3			2023	0.1	3	
						1942	0.7	21																					
10 Sa	0052	2.4	73		25 Su	0131	2.1	64		10 Tu	0258	2.5	76		25 W	0239	2.1	64		10 Th	0341	2.6	79		25 F	0240	2.2	67	
	0656	0.4	12			0740	0.7	21			0908	0.3	9			0856	0.6	18			1000	0.1	3			0907	0.4	12	
	1327	3.0	91			1409	2.5	76			1525	2.6	79			1502	2.1	64			1603	2.2	67			1459	1.9	58	
	2005	0.5	15			2035	0.7	21			2146	0.2	6			2120	0.4	12			2211	-0.1	-3			2113	0.1	3	
11 Su	0158	2.4	73		26 M	0231	2.1	64		11 W	0403	2.7	82		26 Th	0334	2.2	67		11 F	0442	2.7	82		26 Sa	0337	2.3	70	
	0804	0.4	12			0841	0.8	24			1017	0.2	6			0957	0.5	15			1104	0.1	3			1009	0.3	9	
	1434	2.9	88			1506	2.4	73			1628	2.6	79			1556	2.1	64			1702	2.1	64			1558	1.8	55	
	2109	0.5	15			2128	0.7	21			2241	0.1	3			2208	0.3	9			2306	-0.1	-3			2207	0.0	0	
12 M	0308	2.5	76		27 Tu	0331	2.2	67		12 Th	0503	2.8	85		27 F	0428	2.4	73		12 Sa	0538	2.7	82		27 Su	0436	2.4	73	
	0916	0.4	12			0944	0.7	21			1121	0.2	6			1054	0.5	15			1202	0.0	0			1111	0.2	6	
	1544	2.9	88			1602	2.4	73			1727	2.5	76			1650	2.1	64			1758	2.1	64			1658	1.9	58	
	2211	0.4	12			2218	0.6	18			2334	0.0	0			2257	0.2	6			2358	-0.1	-3			2303	-0.1	-3	
13 Tu	0417	2.6	79		28 W	0427	2.3	70		13 F	0558	3.0	91		28 Sa	0519	2.5	76		13 Su	0631	2.8	85		28 M	0535	2.5	76	
	1027	0.3	9			1043	0.7	21			1218	0.1	3			1149	0.3	9			1255	0.0	0			1211	0.1	3	
	1649	2.9	88			1654	2.4	73			1820	2.5	76			1742	2.1	64			1849	2.1	64			1757	1.9	58	
	2309	0.3	9			2304	0.5	15								2344	0.1	3						2359		-0.2	-6		
14 W	0520	2.8	85		29 Th	0518	2.5	76		14 Sa	0623	-0.1	-3		29 Su	0609	2.7	82		14 M	0632	2.7	82		29 Tu	0632	2.7	82	
	1133	0.2	6			1137	0.6	18			0649	3.1	94			1240	0.2	6			1342								

Duck Pier, North Carolina, 2009

Times and Heights of High and Low Waters

January				February				March																					
Time	Height			Time	Height			Time	Height			Time	Height																
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm		h	m	ft	cm										
1 Th	0355	0.3	9		16 F	0517	0.0	0		1 Su	0512	0.2	6		16 M	0007	3.2	98		1 Su	0404	-0.1	-3						
	1007	3.2	98			1113	3.0	91			1108	2.8	85			0637	0.5	15			1000	3.0	91						
	1629	0.0	0			1735	-0.2	-6			1721	-0.2	-6			1214	2.4	73			1608	-0.2	-6		1608	-0.2	-6		
	2238	2.9	88			2358	3.3	101			2345	3.3	101			1827	0.3	9			2228	3.6	110		2228	3.6	110		
2 F	0443	0.4	12		17 Sa	0618	0.2	6		2 M	0610	0.2	6		17 Tu	0105	3.0	91		2 M	0455	0.1	3		17 Tu	0552	0.6	18	
	1049	3.0	91			1204	2.7	82			1201	2.6	79			0743	0.7	21			1048	2.8	85			1136	2.4	73	
	1710	0.0	0			1824	0.0	0			1813	-0.1	-3			1314	2.2	67			1656	-0.1	-3			1743	0.5	15	
	2325	3.0	91			●	●	●			1926	0.5	15			1926	0.5	15			2321	3.6	110			2321	3.6	110	
3 Sa	0536	0.4	12		18 Su	0056	3.2	98		3 Tu	0043	3.4	104		18 W	0210	2.9	88		3 Tu	0553	0.2	6		18 W	0015	3.0	91	
	1136	2.8	85			0723	0.4	12			0716	0.3	9			0853	0.7	21			1143	2.7	82			0649	0.7	21	
	1755	0.0	0			1300	2.4	73			1302	2.5	76			1423	2.1	64			1752	0.0	0			1232	2.3	70	
						1917	0.1	3			1913	-0.1	-3			2031	0.5	15			●	●		1841		0.7	21		
4 Su	0017	3.1	94		19 M	0157	3.1	94		4 W	0148	3.4	104		19 Th	0316	2.9	88		4 W	0021	3.5	107		19 Th	0117	2.9	88	
	0636	0.4	12			0833	0.5	15			0827	0.2	6			0955	0.6	18			0659	0.3	9			0753	0.8	24	
	1229	2.7	82			1402	2.2	67			1410	2.5	76			1532	2.2	67			1247	2.6	79			1338	2.3	70	
	1845	-0.1	-3			2013	0.3	9			2019	-0.2	-6			2135	0.5	15			1856	0.0	0			1947	0.7	21	
5 M	0114	3.3	101		20 Tu	0258	3.1	94		5 Th	0257	3.6	110		20 F	0413	3.0	91		5 Th	0130	3.5	107		20 F	0223	2.8	85	
	0741	0.4	12			0938	0.5	15			0938	0.1	3			1045	0.5	15			0811	0.3	9			0857	0.8	24	
	1329	2.6	79			1507	2.2	67			1521	2.6	79			1630	2.4	73			1359	2.6	79			1449	2.4	73	
	1941	-0.1	-3			2111	0.3	9			2128	-0.3	-9			2230	0.3	9			2008	0.0	0			2056	0.7	21	
6 Tu	0215	3.5	107		21 W	0355	3.1	94		6 F	0405	3.7	113		21 Sa	0501	3.1	94		6 F	0243	3.5	107		21 Sa	0325	2.9	88	
	0849	0.2	6			1034	0.5	15			1042	-0.1	-3			1126	0.4	12			0922	0.2	6			0951	0.6	18	
	1433	2.6	79			1608	2.2	67			1629	2.8	85			1717	2.6	79			1513	2.8	85			1549	2.6	79	
	2041	-0.2	-6			2206	0.3	9			2234	-0.5	-15			2316	0.2	6			2121	-0.1	-3			2155	0.5	15	
7 W	0317	3.7	113		22 Th	0446	3.2	98		7 Sa	0507	3.9	119		22 Su	0541	3.2	98		7 Sa	0353	3.6	110		22 Su	0416	3.0	91	
	0955	0.0	0			1121	0.4	12			1139	-0.3	-9			1201	0.2	6			1025	0.0	0			1034	0.5	15	
	1538	2.6	79			1700	2.3	70			1730	3.1	94			1757	2.8	85			1621	3.0	91			1638	2.8	85	
	2143	-0.4	-12			2255	0.2	6			2335	-0.6	-18			2358	0.1	3			2229	-0.3	-9			2245	0.4	12	
8 Th	0419	3.9	119		23 F	0530	3.3	101		8 Su	0602	4.0	122		23 M	0618	3.3	101		8 Su	0454	3.7	113		23 M	0500	3.1	94	
	1057	-0.2	-6			1202	0.2	6			1230	-0.6	-18			1234	0.0	0			1119	-0.2	-6			1112	0.3	9	
	1641	2.8	85			1744	2.4	73			1826	3.4	104			1834	3.0	91			1720	3.4	104			1720	3.1	94	
	2244	-0.6	-18			2339	0.1	3			●	●	●			1909	3.2	98			2330	-0.4	-12			2330	0.2	6	
9 F	0518	4.1	125		24 Sa	0609	3.4	104		9 M	0032	-0.8	-24		24 Tu	0037	-0.1	-3		9 M	0548	3.8	116		24 Tu	0540	3.2	98	
	1154	-0.4	-12			1237	0.1	3			0654	4.1	125			0652	3.4	104			1207	-0.4	-12			1148	0.1	3	
	1741	3.0	91			1824	2.6	79			1317	-0.7	-21			1305	-0.1	-3			1812	3.6	110			1759	3.3	101	
	2343	-0.7	-21			●	●		1917		3.6	110		●		●		1909	3.2		98		●	●			●	●	
10 Sa	0614	4.3	131		25 Su	0020	0.0	0		10 Tu	0126	-0.8	-24		25 W	0116	-0.1	-3		10 Tu	0024	-0.6	-18		25 W	0012	0.0	0	
	1247	-0.6	-18			0646	3.4	104			0741	4.0	122			0727	3.4	104			0636	3.8	116			0619	3.3	101	
	1838	3.2	98			1310	0.0	0			1402	-0.7	-21			1338	-0.2	-6			1252	-0.5	-15			1223	-0.1	-3	
						1901	2.7	82			2006	3.7	113			1945	3.3	101			1859	3.9	119			1836	3.6	110	
11 Su	0040	-0.8	-24		26 M	0058	0.0	0		11 W	0217	-0.7	-21		26 Th	0155	-0.2	-6		11 W	0115	-0.6	-18		26 Th	0053	-0.2	-6	
	0707	4.3	131			0720	3.5	107			0827	3.8	116			0802	3.4	104			0721	3.7	113			0657	3.4	104	
	1338	-0.7	-21			1341	-0.1	-3			1445	-0.7	-21			1411	-0.3	-9			1333	-0.5	-15			1300	-0.2	-6	
	1932	3.4	104			1937	2.8	85			2054	3.7	113			2021	3.5	107			1944	4.0	122			1915	3.8	116	
12 M	0136	-0.8	-24		27 Tu	0136	-0.1	-3		12 Th	0307	-0.6	-18		27 F	0235	-0.2	-6		12 Th	0202	-0.5	-15		27 F	0135	-0.3	-9	
	0758	4.2	128			0754	3.5	107			0911	3.6	110			0839	3.3	101			0804	3.6	110			0736	3.4	104	
	1427	-0.8	-24			1413	-0.2	-6			1527	-0.6	-18			1447	-0.3	-9			1413	-0.5	-15			1338	-0.3	-9	
	2025	3.5	107			2013	2.9	88			2140	3.7	113			2100	3.6	110			2027	4.0	122			1954	4.0	122	
13 Tu	0230	-0.7	-21		28 W	0214	-0.1	-3		13 F	0356	-0.3	-9		28 Sa	0318	-0.2	-6		13 F	0248	-0.4	-12		28 Sa	0218	-0.3	-9	
	0848	4.1	125			0828	3.4	104			0954	3.2	98			0918	3.2	98			0844	3.3	101			0816	3.3	101	
	1514	-0.7	-21			1445	-0.2	-6			1609	-0.4	-12			1525	-0.3	-9			1452	-0.3	-9			1418	-0.3	-9	
	2117	3.5	107			2049	3.0	91			2227	3.5	107			2142	3.6	110			2109	3.9	119			2036	4.0	122	
14 W	0325	-0.6	-18		29 Th	0253	0.0	0		14 Sa	0447	0.0	0		14 Sa	0332	-0.2	-6		14 Sa	0303	-0.3	-9		29 Su	0303	-0.3	-9	
	0936																												

Duck Pier, North Carolina, 2009

Times and Heights of High and Low Waters

April				May				June																										
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height																					
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm																				
1 W	0542	0.1	3		16 Th	0603	0.7	21		1 F	0633	0.0	0		16 Sa	0610	0.5	15		1 M	0142	3.0	91		16 Tu	0040	2.8	85						
	1135	2.8	85			1159	2.5	76			1237	3.1	94			1222	2.7	82			0803	0.0	0			0656	0.2	6						
	1741	0.1	3			1802	0.8	24			1845	0.2	6			1824	0.8	24			1433	3.5	107			2057	0.3	9		1324	3.2	98		
2 Th	0007	3.6	110		17 F	0027	2.9	88		2 Sa	0101	3.4	104		17 Su	0034	2.9	88		2 Tu	0245	2.9	88		17 W	0134	2.7	82		17 Th	0746	0.1	3	
	0647	0.2	6			0657	0.7	21			0735	0.1	3			0657	0.5	15			0857	0.0	0			0746	0.1	3						
	1241	2.8	85			1259	2.5	76			1347	3.2	98			1316	2.8	85			1531	3.6	110			1418	3.4	104						
3 F	1354	2.9	88		18 Sa	0125	2.8	85		3 Su	0209	3.3	101		18 M	0127	2.8	85		3 W	0346	2.7	82		18 Th	0233	2.7	82		18 F	0838	0.1	3	
	2004	0.2	6			1402	2.6	79			1454	3.4	104			1410	3.0	91			1623	3.7	113			1513	3.7	113						
						2009	0.8	24			2111	0.2	6			2026	0.7	21			2258	0.2	6			2148	0.3	9						
4 Sa	0229	3.4	104		19 Su	0224	2.8	85		4 M	0314	3.2	98		19 Tu	0222	2.8	85		4 Th	0442	2.7	82		19 F	0332	2.7	82		19 Sa	0934	-0.1	-3	
	0902	0.2	6			0845	0.6	18			0932	0.0	0			0834	0.3	9			1037	0.1	3			1609	4.0	122						
	1507	3.1	94			1500	2.8	85			1554	3.6	110			1502	3.3	101			1710	3.8	116			2247	0.1	3						
5 Su	2118	0.1	3		20 M	0319	2.9	88		5 Tu	0414	3.1	94		20 W	0318	2.8	85		5 F	0531	2.6	79		20 Sa	0432	2.8	85		20 Su	1030	-0.2	-6	
						0932	0.4	12			1022	0.0	0			0923	0.2	6			1123	0.1	3			1754	3.8	116						
						1551	3.0	91			1646	3.8	116			1552	3.6	110			1754	3.8	116			1070	4.2	128						
6 M	2224	-0.1	-3		21 Tu	0410	3.0	91		6 W	0507	3.0	91		21 Th	0412	2.8	85		6 Sa	0032	0.1	3		21 Su	0530	2.9	88						
						1016	0.3	9			1109	0.0	0			1012	0.0	0			0616	2.7	82			1127	-0.3	-9						
						1637	3.3	101			1733	3.9	119			1641	3.9	119			1206	0.2	6			1759	4.4	134						
7 Tu	2323	-0.2	-6		22 W	0456	3.1	94		7 Th	0002	-0.1	-3		22 F	0504	2.9	88		7 Su	0113	0.1	3		22 M	0037	-0.4	-12						
						1059	0.1	3			0554	3.0	91			1102	-0.2	-6			0658	2.7	82			0627	3.1	94						
						1720	3.7	113			1152	0.0	0			1730	4.1	125			1247	0.2	6			1224	-0.5	-15						
8 W	2343	0.0	0		23 Th	0541	3.2	98		8 F	1816	4.0	122		23 Sa	0005	-0.2	-6		8 M	1914	3.8	116		23 Tu	1853	4.5	137						
						1141	-0.1	-3			0048	-0.1	-3			0056	3.0	91			0151	0.1	3			0722	3.3	101						
						1802	3.9	119			0637	3.0	91			1152	-0.3	-9			1327	0.3	9			0722	3.3	101						
9 Th	1838	4.0	122		24 F	0029	-0.2	-6		9 Sa	1856	4.0	122		24 Su	0055	-0.4	-12		9 Tu	1952	3.7	113		24 W	0129	-0.5	-15						
						0626	3.2	98			0130	-0.1	-3			0055	-0.4	-12			0227	0.1	3			0817	3.4	104						
						1223	-0.2	-6			0718	2.9	88			0647	3.1	94			0816	2.7	82			1417	-0.5	-15						
10 F	1920	4.1	125		25 Sa	1845	4.2	128		10 Su	1935	3.9	119		25 M	1243	-0.4	-12		10 W	2029	3.6	110		25 Th	2039	4.4	134						
						0115	-0.3	-9			0209	0.0	0			0738	3.2	98			0301	0.1	3			0912	3.5	107						
						0710	3.2	98			0757	2.9	88			1335	-0.4	-12			0855	2.7	82			1515	-0.4	-12						
11 Sa	2000	4.0	122		26 Su	1930	4.3	131		11 M	2013	3.8	116		26 Tu	2000	4.5	137		11 W	2107	3.5	107		26 Th	2131	4.2	128						
						0201	-0.4	-12			0247	0.1	3			0236	-0.5	-15			0336	0.2	6			0402	-0.6	-18						
						0756	3.2	98			0836	2.8	85			0831	3.2	98			0935	2.7	82			1008	3.6	110						
12 Su	1419	0.0	0		27 M	1354	-0.3	-9		12 Tu	1429	0.3	9		27 W	1429	-0.4	-12		12 Th	1528	0.5	15		27 F	1614	-0.2	-6						
	2039	3.9	119			2016	4.3	131			2052	3.7	113			1525	-0.3	-9			2145	3.4	104			2223	3.9	119						
						0249	-0.4	-12			0325	0.2	6			1525	-0.3	-9			2145	3.4	104			0452	-0.5	-15						
13 M	0308	0.0	0		28 Tu	0844	3.2	98		13 W	0915	2.7	82		28 Th	0328	-0.5	-15		13 Sa	0412	0.2	6		28 Su	1105	3.6	110						
	0858	3.0	91			1442	-0.3	-9			0915	2.7	82			1022	3.3	101			0449	0.2	6			1715	0.0	0						
	1457	0.1	3			1535	-0.2	-6			1510	0.4	12			1625	-0.1	-3			1100	2.8	85			2317	3.5	107						
14 Tu	2119	3.7	113		29 W	2105	4.3	131		14 Th	2213	3.3	101		29 F	2146	4.2	128		14 Su	2306	3.1	94		29 M	0528	0.2	6						
						0434	-0.2	-6			0443	0.4	12			0516	-0.3	-9			0528	0.2	6			0635	-0.1	-3						
						1030	3.1	94			1042	2.6	79			1123	3.3	101			1145	2.9	88			1304	3.6	110						
15 W	1620	0.5	15		30 Th	1632	0.0	0		15 F	1638	0.7	21		30 Sa	1728	0.0	0		15 M	1749	0.7	21		30 Tu	1927	0.3	9						
	2244	3.3	101			2254	3.9	119			2257	3.1	94			2339	3.6	110			2351	2.9	88			0111	2.9	88						
						0532	0.0	0			0525	0.5	15			0611	-0.2	-6			0611	0.2	6			0727	0.0	0						
16 Th	0514	0.5	15		31 F	1131	3.0	91		16 Sa	1130	2.6	79		31 Su	1226	3.4	104		16 M	1233	3.0	91		31 Tu	1404	3.6	110						
	1107	2.6	79			1735	0.1	3			1729	0.8	24			1836	0.2	6			1845	0.7	21			2036	0.4	12						
	1708	0.7	21			2355	3.7	113			2344	3.0	91			0039	3.3	101																
17 F	2333	3.1	94		1 Sa					1 Su					1 M					1 Tu					1 W									

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, 2009

Times and Heights of High and Low Waters

July				August				September															
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height										
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm									
1 W	0213	2.6	79	16 Th	0057	2.7	82	1 Sa	0350	2.5	76	16 Su	0245	2.9	88	1 Tu	0504	3.0	91	16 W	0445	3.7	113
	0822	0.2	6		0707	0.1	3		0943	0.6	18		0849	0.2	6		1101	0.7	21		1054	0.0	0
	1502	3.6	110		1342	3.6	110		1623	3.5	107		1526	4.1	125		1721	3.6	110		1710	4.2	128
	2140	0.4	12		2016	0.5	15		2304	0.6	18		2206	0.3	9		2345	0.6	18		2333	-0.1	-3
2 Th	0316	2.5	76	17 F	0158	2.7	82	2 Su	0446	2.6	79	17 M	0353	3.1	94	2 W	0544	3.2	98	17 Th	0540	4.1	125
	0916	0.3	9		0805	0.1	3		1037	0.6	18		0957	0.0	0		1143	0.6	18		1152	-0.1	-3
	1557	3.6	110		1442	3.8	116		1710	3.6	110		1629	4.2	128		1758	3.7	113		1802	4.2	128
	2238	0.4	12		2121	0.4	12		2347	0.5	15		2304	0.1	3								
3 F	0416	2.4	73	18 Sa	0303	2.7	82	3 M	0533	2.7	82	18 Tu	0457	3.4	104	3 Th	0016	0.4	12	18 F	0019	-0.2	-6
	1009	0.3	9		0906	0.0	0		1124	0.5	15		1101	-0.2	-6		0621	3.4	104		0630	4.3	131
	1648	3.6	110		1543	4.0	122		1752	3.6	110		1727	4.3	131		1223	0.5	15		1246	-0.2	-6
	2329	0.4	12		2224	0.2	6						2357	-0.2	-6		1833	3.7	113		1850	4.1	125
4 Sa	0509	2.5	76	19 Su	0408	2.8	85	4 Tu	0024	0.4	12	19 W	0555	3.7	113	4 F	0047	0.3	9	19 Sa	0103	-0.2	-6
	1058	0.3	9		1009	-0.1	-3		0614	2.8	85		1201	-0.3	-9		0656	3.5	107		0718	4.5	137
	1733	3.6	110		1644	4.2	128		1207	0.4	12		1821	4.4	134		1301	0.4	12		1337	-0.1	-3
					2323	-0.1	-3		1830	3.7	113						1908	3.7	113		1936	4.0	122
5 Su	0013	0.3	9	20 M	0511	3.1	94	5 W	0057	0.3	9	20 Th	0046	-0.3	-9	5 Sa	0119	0.2	6	20 Su	0146	-0.2	-6
	0556	2.6	79		1111	-0.3	-9		0652	3.0	91		0649	4.0	122		0731	3.7	113		0804	4.5	137
	1144	0.3	9		1742	4.4	134		1247	0.4	12		1257	-0.4	-12		1339	0.4	12		1426	0.0	0
	1815	3.7	113						1905	3.7	113		1911	4.4	134		1942	3.7	113		2020	3.8	116
6 M	0053	0.2	6	21 Tu	0018	-0.3	-9	6 Th	0128	0.2	6	21 F	0133	-0.4	-12	6 Su	0151	0.2	6	21 M	0229	-0.1	-3
	0638	2.6	79		0610	3.3	101		0728	3.1	94		0741	4.2	128		0806	3.8	116		0849	4.4	134
	1227	0.3	9		1211	-0.4	-12		1325	0.4	12		1352	-0.3	-9		1418	0.4	12		1515	0.2	6
	1854	3.7	113		1837	4.5	137		1939	3.7	113		1959	4.2	128		2018	3.6	110		2105	3.5	107
7 Tu	0128	0.2	6	22 W	0110	-0.5	-15	7 F	0159	0.2	6	22 Sa	0218	-0.4	-12	7 M	0225	0.2	6	22 Tu	0311	0.1	3
	0717	2.7	82		0706	3.5	107		0804	3.3	101		0830	4.3	131		0843	3.9	119		0935	4.3	131
	1307	0.3	9		1309	-0.5	-15		1403	0.4	12		1445	-0.2	-6		1500	0.4	12		1604	0.4	12
	1930	3.6	110		1930	4.5	137		2013	3.6	110		2046	4.0	122		2056	3.4	104		2150	3.3	101
8 W	0202	0.1	3	23 Th	0159	-0.6	-18	8 Sa	0230	0.1	3	23 Su	0302	-0.3	-9	8 Tu	0302	0.2	6	23 W	0355	0.4	12
	0755	2.8	85		0801	3.7	113		0839	3.4	104		0919	4.3	131		0922	4.0	122		1022	4.0	122
	1346	0.3	9		1405	-0.5	-15		1442	0.4	12		1537	0.0	0		1544	0.5	15		1655	0.6	18
	2006	3.6	110		2021	4.3	131		2047	3.5	107		2133	3.7	113		2137	3.3	101		2237	3.0	91
9 Th	0234	0.1	3	24 F	0247	-0.6	-18	9 Su	0302	0.1	3	24 M	0347	-0.1	-3	9 W	0343	0.3	9	24 Th	0442	0.6	18
	0832	2.9	88		0854	3.9	119		0915	3.4	104		1008	4.2	128		1006	4.0	122		1112	3.8	116
	1425	0.4	12		1501	-0.4	-12		1522	0.5	15		1631	0.2	6		1633	0.6	18		1749	0.9	27
	2041	3.5	107		2111	4.1	125		2123	3.4	104		2220	3.4	104		2223	3.1	94		2329	2.8	85
10 F	0306	0.1	3	25 Sa	0334	-0.5	-15	10 M	0336	0.1	3	25 Tu	0432	0.1	3	10 Th	0428	0.4	12	25 F	0533	0.9	27
	0910	3.0	91		0947	3.9	119		0953	3.5	107		1059	4.0	122		1055	4.0	122		1207	3.6	110
	1505	0.4	12		1558	-0.2	-6		1605	0.5	15		1727	0.5	15		1728	0.7	21		1850	1.0	30
	2116	3.4	104		2200	3.8	116		2202	3.2	98		2309	3.1	94		2315	3.0	91		2329	2.8	85
11 Sa	0338	0.1	3	26 Su	0421	-0.4	-12	11 Tu	0413	0.2	6	26 W	0519	0.4	12	11 F	0521	0.4	12	26 Sa	0029	2.7	82
	0947	3.0	91		1040	3.9	119		1034	3.6	110		1152	3.8	116		1152	3.9	119		0633	1.0	30
	1546	0.5	15		1655	0.0	0		1653	0.6	18		1827	0.7	21		1829	0.7	21		1308	3.4	104
	2153	3.3	101		2250	3.4	104		2245	3.0	91								1953		1.1	34	
12 Su	0413	0.1	3	27 M	0509	-0.2	-6	12 W	0455	0.2	6	27 Th	0003	2.8	85	12 Sa	0016	2.9	88	27 Su	0137	2.7	82
	1027	3.1	94		1134	3.8	116		1121	3.7	113		0611	0.6	18		0622	0.5	15		0739	1.1	34
	1630	0.6	18		1756	0.3	9		1746	0.6	18		1250	3.6	110		1256	3.9	119		1412	3.3	101
	2232	3.1	94		2342	3.1	94		2334	2.9	88		1932	0.9	27		1937	0.7	21		2052	1.0	30
13 M	0449	0.1	3	28 Tu	0558	0.0	0	13 Th	0544	0.3	9	28 F	0104	2.6	79	13 Su	0124	3.0	91	28 M	0245	2.8	85
	1108	3.2	98		1230	3.7	113		1214	3.7	113		0710	0.8	24		0731	0.5	15		0845	1.1	34
	1719	0.6	18		1900	0.5	15		1846	0.7	21		1353	3.5	107		1404	3.9	119		1509	3.4	104
	2314	3.0	91										2039	1.0	30		2045	0.6	18		2140	0.9	27
14 Tu	0530	0.1	3	29 W	0037	2.8	85	14 F	0031	2.8	85	29 Sa	0213	2.6	79	14 M	0236	3.1	94	29 Tu	0341	3.0	91
	1154	3.3	101		0650	0.3	9		0639	0.3	9		0814	0.9	27		0842	0.4	12		0942	1.0	30
	1812	0.6	18		1329	3.6	110		1314	3.8	116		1456	3.4	104		1512	4.0	122		1558	3.4	104
					2007	0.6	18		1953	0.6	18		2139	0.9	27		2147	0.4	12		2220	0.8	24
15 W	0002	2.8	85	30 Th	0138	2.6	79	15 Sa	0135	2.8	85	30 Su	0321	2.6	79	15 Tu	0344	3.4	104	30 W	0427	3.2	98
	0615	0.2	6		0746	0.4	12		0742	0.3	9		0918	0.9	27		0951	0.2	6		1031	0.8	24
	1246	3.5	107		1430	3.5	107		1419	3.9	119		1552	3.5	107		1614	4.1	125		1640	3.5	107
	1912	0.6	18		2114	0.7	21		2101	0.5	15		2229	0.8	24		2243	0.2	6		2255	0.6	18
				31 F	0245	2.5	76				31 M	0417	2.8	85									

Oregon Inlet, North Carolina, 2009

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 W	0713	0.2	6	16 Th	0003	1.0	30	1 F	0022	1.3	40	16 Sa	0741	0.1	3	1 M	0206	1.0	30	16 Tu	0058	0.9	27
	1205	0.8	24		0738	0.1	3		0803	0.1	3		1322	0.6	18		0918	0.0	0		0759	0.1	3
	1817	0.2	6		1305	0.6	18		1321	0.9	27		1846	0.3	9		1519	1.1	34		1406	0.9	27
								○	1941	0.2	6					2157	0.2	6		2019	0.2	6	
2 Th	0038	1.2	37	17 F	0049	0.9	27	2 Sa	0124	1.2	37	17 Su	0045	0.9	27	2 Tu	0312	0.9	27	17 W	0156	0.9	27
	0820	0.2	6		0830	0.1	3		0858	0.1	3		0820	0.0	0		1008	0.0	0		0842	0.1	3
	1319	0.8	24		1423	0.6	18		1437	0.9	27		1420	0.7	21		1614	1.1	34		1503	1.0	30
○	1935	0.2	6	○	1930	0.3	9	2100	0.3	9	○	1952	0.3	9		2300	0.2	6		2130	0.2	6	
3 F	0144	1.2	37	18 Sa	0140	0.9	27	3 Su	0229	1.1	34	18 M	0138	0.9	27	3 W	0413	0.9	27	18 Th	0258	0.9	27
	0922	0.1	3		0917	0.1	3		0950	0.1	3		0858	0.0	0		1057	0.0	0		0930	0.1	3
	1442	0.9	27		1525	0.7	21		1542	1.0	30		1510	0.8	24		1704	1.1	34		1559	1.1	34
	2101	0.2	6	2038	0.3	9	2212	0.2	6	2102	0.2	6		2357	0.2	6		2242	0.2	6			
4 Sa	0252	1.2	37	19 Su	0234	0.9	27	4 M	0334	1.0	30	19 Tu	0236	0.9	27	4 Th	0507	0.8	24	19 F	0400	0.9	27
	1019	0.1	3		1000	0.1	3		1039	0.0	0		0936	0.0	0		1144	0.0	0		1023	0.0	0
	1555	1.0	30		1612	0.8	24		1637	1.1	34		1555	0.9	27		1751	1.2	37		1655	1.2	37
	2218	0.2	6	2148	0.3	9	2317	0.2	6	2211	0.2	6					2352	0.2	6				
5 Su	0356	1.1	34	20 M	0330	0.9	27	5 Tu	0434	1.0	30	20 W	0337	0.8	24	5 F	0048	0.2	6	20 Sa	0500	0.9	27
	1110	0.1	3		1039	0.0	0		1126	0.0	0		1017	0.0	0		0556	0.8	24		1116	0.0	0
	1654	1.1	34		1651	0.9	27		1726	1.2	37		1640	1.0	30		1227	0.0	0		1749	1.3	40
	2327	0.2	6	2252	0.2	6				2315	0.2	6		1834	1.2	37							
6 M	0455	1.1	34	21 Tu	0424	0.9	27	6 W	0015	0.2	6	21 Th	0435	0.9	27	6 Sa	0136	0.1	3	21 Su	0056	0.2	6
	1157	0.0	0		1115	0.0	0		0528	0.9	27		1100	0.0	0		0641	0.8	24		0556	0.9	27
	1745	1.2	37		1726	1.0	30		1210	0.0	0		1725	1.2	37		1306	0.0	0		1211	0.0	0
				2349	0.2	6	1811	1.2	37					1916	1.2	37		1841	1.4	43			
7 Tu	0027	0.1	3	22 W	0514	0.9	27	7 Th	0107	0.1	3	22 F	0015	0.1	3	7 Su	0221	0.1	3	22 M	0156	0.1	3
	0549	1.1	34		1151	0.0	0		0617	0.9	27		0529	0.9	27		0723	0.8	24		0651	1.0	30
	1241	0.0	0		1801	1.1	34		1253	0.0	0		1146	0.0	0		1341	0.0	0		1307	0.0	0
	1831	1.3	40				1854	1.2	37		1811	1.3	40	○	1954	1.2	37	●	1932	1.5	46		
8 W	0122	0.1	3	23 Th	0042	0.1	3	8 F	0155	0.1	3	23 Sa	0113	0.1	3	8 M	0304	0.1	3	23 Tu	0252	0.1	3
	0638	1.0	30		0602	0.9	27		0703	0.9	27		0621	0.9	27		0804	0.7	21		0746	1.0	30
	1322	0.0	0		1227	0.0	0		1332	0.0	0		1233	0.0	0		1409	0.0	0		1404	0.0	0
	1915	1.3	40	1839	1.2	37	○	1935	1.2	37		1859	1.4	43		2030	1.1	34		2022	1.5	46	
9 Th	0211	0.1	3	24 F	0132	0.1	3	9 Sa	0240	0.1	3	24 Su	0209	0.1	3	9 Tu	0346	0.1	3	24 W	0345	0.1	3
	0725	1.0	30		0648	0.9	27		0746	0.8	24		0711	0.9	27		0844	0.7	21		0842	1.0	30
	1402	0.0	0		1305	0.0	0		1409	0.0	0		1322	0.0	0		1436	0.0	0		1503	0.0	0
○	1957	1.3	40	●	1920	1.3	40	2015	1.2	37	●	1947	1.4	43		2103	1.1	34		2111	1.5	46	
10 F	0258	0.0	0	25 Sa	0223	0.0	0	10 Su	0323	0.1	3	25 M	0306	0.1	3	10 W	0427	0.1	3	25 Th	0436	0.0	0
	0809	0.9	27		0734	0.9	27		0827	0.8	24		0801	0.9	27		0924	0.7	21		0939	1.0	30
	1440	0.0	0		1346	0.0	0		1441	0.0	0		1413	0.0	0		1507	0.1	3		1605	0.1	3
	2038	1.3	40	2004	1.4	43	2053	1.2	37		2036	1.5	46		2135	1.1	34		2200	1.4	43		
11 Sa	0342	0.1	3	26 Su	0315	0.0	0	11 M	0406	0.1	3	26 Tu	0402	0.1	3	11 Th	0506	0.1	3	26 F	0526	0.0	0
	0852	0.9	27		0820	0.9	27		0907	0.7	21		0854	0.9	27		1005	0.7	21		1038	1.0	30
	1517	0.0	0		1429	0.0	0		1510	0.1	3		1507	0.0	0		1543	0.1	3		1709	0.1	3
	2118	1.2	37	2050	1.4	43	2130	1.1	34		2126	1.5	46		2207	1.1	34		2251	1.3	40		
12 Su	0425	0.1	3	27 M	0409	0.1	3	12 Tu	0449	0.1	3	27 W	0457	0.0	0	12 F	0542	0.0	0	27 Sa	0615	0.0	0
	0934	0.8	24		0908	0.9	27		0949	0.7	21		0950	0.9	27		1048	0.7	21		1139	1.1	34
	1551	0.1	3		1517	0.1	3		1540	0.1	3		1606	0.1	3		1627	0.2	6		1815	0.2	6
	2158	1.1	34	2139	1.4	43	2206	1.1	34		2217	1.4	43		2242	1.0	30		2344	1.2	37		
13 M	0509	0.1	3	28 Tu	0507	0.1	3	13 W	0533	0.1	3	28 Th	0551	0.0	0	13 Sa	0616	0.1	3	28 Su	0704	0.0	0
	1017	0.8	24		0959	0.9	27		1033	0.7	21		1051	0.9	27		1133	0.7	21		1243	1.1	34
	1624	0.1	3		1609	0.1	3		1615	0.1	3		1711	0.1	3		1716	0.2	6		1922	0.2	6
	2239	1.1	34	2230	1.4	43	2241	1.1	34		2309	1.3	40		2321	1.0	30						
14 Tu	0556	0.1	3	29 W	0606	0.1	3	14 Th	0617	0.1	3	29 F	0644	0.0	0	14 Su	0648	0.1	3	29 M	0041	1.1	34
	1102	0.7	21		1057	0.9	27		1122	0.6	18		1158	0.9	27		1220	0.7	21		0755	0.1	3
	1700	0.1	3		1709	0.1	3		1657	0.2	6		1823	0.2	6		1812	0.2	6		1347	1.1	34
	2320	1.0	30	2324	1.3	40	2319	1.0	30								2028	0.3	9				
15 W	0646	0.1	3	30 Th	0705	0.1	3																

Oregon Inlet, North Carolina, 2009

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 Th	0548	1.2	37	16 F	0010	0.3	9	1 Su	0009	0.2	6	16 M	0115	0.1	3	1 Tu	0012	0.1	3	16 W	0135	0.0	0
	1206	0.3	9		0556	1.5	46		0614	1.3	40		0707	1.3	40		0630	1.3	40		0732	1.1	34
	1754	1.1	34		1252	0.2	6		1307	0.1	3		1415	0.1	3		1339	0.0	0		1442	0.0	0
					1818	1.2	37	1837	1.0	30	1933	1.0	30	1854	0.9	27	1957	0.7	21				
2 F	0030	0.3	9	17 Sa	0055	0.3	9	2 M	0046	0.2	6	17 Tu	0157	0.1	3	2 W	0100	0.0	0	17 Th	0211	0.0	0
	0619	1.2	37		0642	1.5	46		0654	1.4	43		0750	1.3	40		0718	1.3	40		0810	1.1	34
	1248	0.3	9		1342	0.2	6		1353	0.1	3		1459	0.1	3		1433	0.0	0		1523	0.0	0
	1831	1.2	37	1907	1.2	37	1919	1.0	30	2016	0.9	27	1942	0.9	27	2039	0.7	21					
3 Sa	0102	0.3	9	18 Su	0140	0.3	9	3 Tu	0126	0.2	6	18 W	0237	0.1	3	3 Th	0150	0.0	0	18 F	0244	0.0	0
	0649	1.3	40		0727	1.5	46		0736	1.4	43		0831	1.2	37		0806	1.4	43		0845	1.0	30
	1329	0.3	9		1430	0.2	6		1441	0.1	3		1543	0.1	3		1526	0.0	0		1602	-0.1	-3
	1907	1.2	37	1953	1.2	37	2001	1.0	30	2058	0.9	27	2031	0.9	27	2121	0.7	21					
4 Su	0132	0.3	9	19 M	0224	0.3	9	4 W	0208	0.2	6	19 Th	0314	0.1	3	4 F	0243	0.0	0	19 Sa	0316	0.0	0
	0722	1.4	43		0810	1.5	46		0820	1.4	43		0911	1.2	37		0854	1.4	43		0918	1.0	30
	1409	0.2	6		1516	0.2	6		1532	0.2	6		1626	0.1	3		1619	0.0	0		1638	-0.1	-3
	1945	1.2	37	2037	1.2	37	2046	1.0	30	2142	0.8	24	2124	0.9	27	2202	0.7	21					
5 M	0203	0.4	12	20 Tu	0307	0.3	9	5 Th	0254	0.2	6	20 F	0349	0.2	6	5 Sa	0341	0.1	3	20 Su	0352	0.1	3
	0758	1.4	43		0853	1.4	43		0908	1.4	43		0949	1.1	34		0943	1.3	40		0951	0.9	27
	1449	0.2	6		1601	0.2	6		1627	0.2	6		1709	0.1	3		1711	0.0	0		1712	-0.1	-3
	2024	1.2	37	2121	1.1	34	2134	1.0	30	2227	0.8	24	2220	0.9	27	2242	0.7	21					
6 Tu	0237	0.4	12	21 W	0350	0.3	9	6 F	0345	0.2	6	21 Sa	0425	0.2	6	6 Su	0446	0.1	3	21 M	0433	0.1	3
	0839	1.4	43		0937	1.3	40		0957	1.4	43		1027	1.0	30		1034	1.2	37		1025	0.9	27
	1533	0.3	9		1647	0.3	9		1724	0.2	6		1752	0.1	3		1803	0.0	0		1742	-0.1	-3
	2104	1.2	37	2206	1.0	30	2227	1.0	30	2317	0.8	24	2320	1.0	30	2322	0.7	21					
7 W	0315	0.4	12	22 Th	0432	0.3	9	7 Sa	0444	0.3	9	22 Su	0508	0.2	6	7 M	0557	0.1	3	22 Tu	0521	0.1	3
	0923	1.5	46		1021	1.3	40		1050	1.4	43		1105	1.0	30		1128	1.1	34		1104	0.8	24
	1622	0.3	9		1734	0.3	9		1823	0.2	6		1833	0.1	3		1855	0.0	0		1811	0.0	0
	2148	1.2	37	2254	1.0	30	2327	1.0	30														
8 Th	0400	0.4	12	23 F	0515	0.3	9	8 Su	0554	0.3	9	23 M	0011	0.7	21	8 Tu	0025	1.0	30	23 W	0004	0.7	21
	1012	1.5	46		1106	1.2	37		1146	1.3	40		0559	0.3	9		0710	0.2	6		0614	0.1	3
	1719	0.4	12		1824	0.3	9		1921	0.2	6		1145	0.9	27		1227	1.0	30		1148	0.7	21
	2237	1.1	34	2348	0.9	27				1913	0.1	3	1946	0.0	0	1843	0.0	0					
9 F	0452	0.4	12	24 Sa	0601	0.4	12	9 M	0036	1.0	30	24 Tu	0108	0.8	24	9 W	0132	1.0	30	24 Th	0048	0.7	21
	1105	1.4	43		1153	1.1	34		0713	0.3	9		0658	0.3	9		0822	0.2	6		0711	0.1	3
	1825	0.4	12		1916	0.3	9		1247	1.2	37		1232	0.9	27		1334	0.9	27		1239	0.7	21
	2332	1.1	34				2017	0.2	6	1951	0.1	3	2039	0.0	0	1922	0.0	0					
10 Sa	0554	0.4	12	25 Su	0054	0.9	27	10 Tu	0150	1.1	34	25 W	0202	0.8	24	10 Th	0236	1.1	34	25 F	0138	0.8	24
	1203	1.4	43		0654	0.4	12		0831	0.3	9		0801	0.3	9		0931	0.1	3		0812	0.1	3
	1934	0.4	12		1243	1.0	30		1355	1.1	34		1326	0.8	24		1445	0.8	24		1337	0.7	21
				2007	0.3	9	2111	0.2	6	2030	0.1	3	2133	0.1	3	2007	0.0	0					
11 Su	0038	1.1	34	26 M	0204	0.9	27	11 W	0258	1.2	37	26 Th	0249	0.9	27	11 F	0335	1.1	34	26 Sa	0231	0.9	27
	0709	0.4	12		0752	0.4	12		0943	0.3	9		0905	0.2	6		1034	0.1	3		0917	0.1	3
	1308	1.4	43		1338	1.0	30		1505	1.1	34		1427	0.8	24		1553	0.8	24		1441	0.6	18
	2040	0.4	12	2055	0.3	9	2203	0.2	6	2110	0.1	3	2227	0.0	0	2059	0.0	0					
12 M	0154	1.1	34	27 Tu	0304	0.9	27	12 Th	0357	1.3	40	27 F	0332	0.9	27	12 Sa	0429	1.1	34	27 Su	0327	0.9	27
	0831	0.4	12		0853	0.4	12		1049	0.2	6		1004	0.2	6		1132	0.1	3		1024	0.0	0
	1418	1.3	40		1436	1.0	30		1611	1.0	30		1530	0.8	24		1652	0.8	24		1545	0.7	21
	2139	0.4	12	2139	0.3	9	2253	0.2	6	2153	0.1	3	2320	0.0	0	2153	0.0	0					
13 Tu	0309	1.2	37	28 W	0352	1.0	30	13 F	0449	1.3	40	28 Sa	0415	1.0	30	13 Su	0520	1.1	34	28 M	0424	1.0	30
	0947	0.4	12		0952	0.4	12		1147	0.2	6		1100	0.1	3		1225	0.0	0		1128	0.0	0
	1526	1.3	40		1534	1.0	30		1709	1.0	30		1628	0.8	24		1744	0.8	24		1645	0.7	21
	2233	0.4	12	2219	0.2	6	2342	0.2	6	2238	0.1	3				2249	0.0	0					
14 W	0413	1.3	40	29 Th	0431	1.0	30	14 Sa	0538	1.3	40	29 Su	0459	1.1	34	14 M	0009	0.0	0	29 Tu	0518	1.1	34
	1055	0.3	9		1046	0.3	9		1240	0.1	3		1154	0.1	3		0607	1.1	34		1229	0.0	0
	1629	1.3	40		1625	1.0	30		1801	1.0	30		1719	0.8	24		1314	0.0	0		1741	0.8	24
	2323	0.3	9	2256	0.2	6				2324	0.1	3	1831	0.8	24	2346	-0.1	-3					
15 Th	0507	1.4	43	30 F	0505	1.1	34	15 Su	0029	0.1	3	30 M	0544	1.2	37	15 Tu	0054	0.0	0	30 W	0610	1.2	37

Cape Hatteras, North Carolina, 2009

Times and Heights of High and Low Waters

January				February				March						
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height	
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm
1 Th	0343	0.2	6											
	1002	3.0	91											
	1626	0.1	3											
	2232	2.5	76											
2 F	0430	0.3	9											
	1042	2.8	85											
	1703	0.1	3											
	2319	2.6	79											
3 Sa	0524	0.3	9											
	1128	2.6	79											
	1745	0.0	0											
4 Su	0012	2.8	85											
	0626	0.4	12											
	1220	2.4	73											
	1833	0.0	0											
5 M	0111	3.0	91											
	0734	0.3	9											
	1319	2.3	70											
	1928	-0.1	-3											
6 Tu	0213	3.2	98											
	0844	0.2	6											
	1424	2.3	70											
	2027	-0.3	-9											
7 W	0315	3.5	107											
	0951	0.1	3											
	1529	2.3	70											
	2128	-0.4	-12											
8 Th	0416	3.7	113											
	1052	-0.1	-3											
	1632	2.4	73											
	2230	-0.6	-18											
9 F	0515	4.0	122											
	1149	-0.3	-9											
	1732	2.6	79											
	2329	-0.8	-24											
10 Sa	0610	4.1	125											
	1241	-0.5	-15											
	1828	2.8	85											
11 Su	0027	-0.9	-27											
	0703	4.1	125											
	1332	-0.6	-18											
	1923	2.9	88											
12 M	0123	-0.9	-27											
	0755	4.0	122											
	1420	-0.7	-21											
	2017	3.0	91											
13 Tu	0219	-0.8	-24											
	0845	3.9	119											
	1508	-0.7	-21											
	2110	3.1	94											
14 W	0314	-0.6	-18											
	0934	3.6	110											
	1555	-0.6	-18											
	2204	3.1	94											
15 Th	0411	-0.4	-12											
	1023	3.2	98											
	1641	-0.4	-12											
	2259	3.1	94											
16 F	0510	-0.1	-3											
	1114	2.8	85											
	1729	-0.3	-9											
	2356	3.0	91											
17 Sa	0613	0.1	3											
	1207	2.5	76											
	1818	-0.1	-3											
18 Su	0056	2.9	88											
	0720	0.3	9											
	1305	2.2	67											
	1910	0.0	0											
19 M	0156	2.9	88											
	0828	0.4	12											
	1406	2.0	61											
	2005	0.1	3											
20 Tu	0256	2.9	88											
	0932	0.4	12											
	1508	1.9	58											
	2101	0.2	6											
21 W	0351	2.9	88											
	1028	0.4	12											
	1605	1.9	58											
	2154	0.1	3											
22 Th	0441	3.0	91											
	1116	0.3	9											
	1654	2.0	61											
	2243	0.1	3											
23 F	0525	3.1	94											
	1157	0.2	6											
	1738	2.1	64											
	2328	0.0	0											
24 Sa	0605	3.1	94											
	1235	0.1	3											
	1818	2.2	67											
25 Su	0009	-0.1	-3											
	0642	3.2	98											
	1309	0.0	0											
	1855	2.3	70											
26 M	0048	-0.2	-6											
	0717	3.2	98											
	1342	-0.1	-3											
	1932	2.4	73											
27 Tu	0126	-0.2	-6											
	0751	3.2	98											
	1413	-0.2	-6											
	2007	2.5	76											
28 W	0204	-0.2	-6											
	0824	3.1	94											
	1444	-0.2	-6											
	2044	2.6	79											
29 Th	0243	-0.2	-6											
	0858	3.0	91											
	1515	-0.2	-6											
	2121	2.7	82											
30 F	0325	-0.1	-3											
	0934	2.9	88											
	1548	-0.2	-6											
	2202	2.8	85											
31 Sa	0411	0.0	0											
	1013	2.7	82											
	1624	-0.2	-6											
	2248	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.

Cape Hatteras, North Carolina, 2009

Times and Heights of High and Low Waters

April				May				June																					
Time	Height			Time	Height			Time	Height			Time	Height																
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm															
1 W	0540	0.1	3		16 Th	0618	0.6	18		1 F	0632	0.1	3		16 Sa	0622	0.5	15		1 M	0139	3.0	91		16 Tu	0033	2.7	82	
	1125	2.4	73			1202	2.1	64			1232	2.6	79			1223	2.3	70			0800	-0.1	-3			0655	0.2	6	
	1722	0.0	0			1749	0.6	18			1829	0.2	6			1811	0.7	21			1430	3.2	98			1326	2.9	88	
																					2046	0.4	12			1936	0.6	18	
2 Th	0007	3.5	107		17 F	0031	2.8	85		2 Sa	0100	3.4	104		17 Su	0034	2.8	85		2 Tu	0239	2.8	85		17 W	0126	2.5	76	
	0646	0.2	6			0714	0.7	21			0734	0.1	3			0708	0.5	15			0852	-0.1	-3			0741	0.1	3	
	1234	2.4	73			1304	2.1	64			1343	2.8	85			1319	2.4	73			1528	3.4	104			1420	3.1	94	
	1832	0.1	3			1852	0.7	21			1945	0.3	9			1914	0.7	21			2151	0.3	9			2041	0.5	15	
3 F	0116	3.3	101		18 Sa	0129	2.7	82		3 Su	0205	3.2	98		18 M	0125	2.7	82		3 W	0337	2.6	79		18 Th	0223	2.5	76	
	0754	0.2	6			0808	0.6	18			0832	0.0	0			0752	0.4	12			0941	0.0	0			0831	0.0	0	
	1349	2.4	73			1407	2.2	67			1449	3.0	91			1413	2.7	82			1620	3.5	107			1515	3.4	104	
	1948	0.1	3			2000	0.7	21			2058	0.2	6			2018	0.7	21			2248	0.3	9			2144	0.4	12	
4 Sa	0226	3.3	101		19 Su	0226	2.7	82		4 M	0307	3.1	94		19 Tu	0219	2.6	79		4 Th	0431	2.5	76		19 F	0321	2.5	76	
	0858	0.1	3			0856	0.5	15			0925	0.0	0			0836	0.3	9			1027	0.0	0			0923	-0.2	-6	
	1500	2.7	82			1503	2.4	73			1549	3.3	101			1505	3.0	91			1708	3.6	110			1610	3.7	113	
	2104	0.1	3			2103	0.6	18			2203	0.2	6			2119	0.5	15			2340	0.2	6			2243	0.2	6	
5 Su	0330	3.3	101		20 M	0318	2.8	85		5 Tu	0404	3.0	91		20 W	0311	2.6	79		5 F	0520	2.4	73		20 Sa	0420	2.5	76	
	0955	0.0	0			0938	0.4	12			1014	-0.1	-3			0920	0.1	3			1111	0.0	0			1018	-0.3	-9	
	1603	3.0	91			1552	2.7	82			1641	3.5	107			1554	3.3	101			1752	3.7	113			1704	4.0	122	
	2211	-0.1	-3			2159	0.4	12			2301	0.1	3			2216	0.3	9								2339	0.0	0	
6 M	0428	3.3	101		21 Tu	0406	2.8	85		6 W	0456	2.9	88		21 Th	0403	2.6	79		6 Sa	0026	0.2	6		21 Su	0517	2.6	79	
	1045	-0.2	-6			1017	0.2	6			1058	-0.1	-3			1005	-0.1	-3			0606	2.4	73			1113	-0.5	-15	
	1658	3.3	101			1636	3.0	91			1729	3.7	113			1642	3.6	110			1153	0.0	0			1758	4.2	128	
	2311	-0.2	-6			2250	0.2	6			2353	0.0	0			2310	0.1	3			1833	3.7	113						
7 Tu	0520	3.2	98		22 W	0450	2.8	85		7 Th	0544	2.8	85		22 F	0454	2.7	82		7 Su	0109	0.2	6		22 M	0033	-0.2	-6	
	1130	-0.3	-9			1055	0.0	0			1140	-0.2	-6			1051	-0.2	-6			0648	2.4	73			0613	2.7	82	
	1748	3.5	107			1718	3.4	104			1812	3.8	116			1730	3.9	119			1233	0.1	3			1209	-0.6	-18	
						2337	0.0	0													1913	3.6	110			1851	4.3	131	
8 W	0004	-0.3	-9		23 Th	0533	2.9	88		8 F	0041	0.0	0		23 Sa	0001	-0.1	-3		8 M	0149	0.2	6		23 Tu	0126	-0.3	-9	
	0608	3.2	98			1134	-0.1	-3			0628	2.7	82			0544	2.7	82			0729	2.4	73			0709	2.8	85	
	1212	-0.3	-9			1800	3.7	113			1220	-0.1	-3			1139	-0.4	-12			1313	0.1	3			1305	-0.6	-18	
	1833	3.7	113								1853	3.8	116			1818	4.2	128			1951	3.6	110			1944	4.4	134	
9 Th	0053	-0.3	-9		24 F	0024	-0.1	-3		9 Sa	0125	0.0	0		24 Su	0052	-0.2	-6		9 Tu	0228	0.2	6		24 W	0217	-0.4	-12	
	0652	3.1	94			0616	2.9	88			0711	2.6	79			0635	2.7	82			0809	2.4	73			0805	2.9	88	
	1252	-0.3	-9			1213	-0.3	-9			1259	-0.1	-3			1228	-0.5	-15			1352	0.2	6			1401	-0.6	-18	
	1916	3.8	116			1843	3.9	119			1933	3.8	116			1908	4.3	131			2029	3.5	107			2037	4.3	131	
10 F	0139	-0.3	-9		25 Sa	0110	-0.2	-6		10 Su	0207	0.0	0		25 M	0142	-0.3	-9		10 W	0306	0.2	6		25 Th	0308	-0.4	-12	
	0735	2.9	88			0700	2.9	88			0751	2.5	76			0726	2.8	85			0848	2.3	70			0902	3.0	91	
	1330	-0.3	-9			1255	-0.4	-12			1337	0.0	0			1319	-0.5	-15			1431	0.2	6			1459	-0.5	-15	
	1957	3.8	116			1927	4.1	125			2012	3.7	113			1959	4.3	131			2107	3.4	104			2129	4.1	125	
11 Sa	0224	-0.2	-6		26 Su	0157	-0.3	-9		11 M	0248	0.1	3		26 Tu	0234	-0.3	-9		11 Th	0343	0.3	9		26 F	0358	-0.4	-12	
	0816	2.8	85			0746	2.8	85			0832	2.4	73			0819	2.8	85			0929	2.3	70			1000	3.1	94	
	1408	-0.1	-3			1339	-0.4	-12			1415	0.1	3			1412	-0.5	-15			1512	0.3	9			1559	-0.3	-9	
	2037	3.7	113			2014	4.1	125			2052	3.6	110			2051	4.3	131			2144	3.3	101			2222	3.8	116	
12 Su	0307	0.0	0		27 M	0246	-0.3	-9		12 Tu	0329	0.2	6		27 W	0326	-0.3	-9		12 F	0420	0.3	9		27 Sa	0449	-0.4	-12	
	0856	2.6	79			0833	2.8	85			0912	2.4	73			0915	2.8	85			1011	2.3	70			1059	3.2	98	
	1445	0.0	0			1426	-0.4	-12			1455	0.3	9			1508	-0.4	-12			1555	0.4	12			1702	0.0	0	
	2118	3.5	107			2103	4.1	125			2132	3.4	104			2145	4.1	125			2223	3.1	94			2316	3.4	104	
13 M	0351	0.1	3		28 Tu	0337	-0.2	-6		13 W	0410	0.3	9		28 Th	0420	-0.2	-6		13 Sa	0457	0.3	9		28 Su	0540	-0.3	-9	
	0937	2.4	73			0924	2.7	82																					

Cape Hatteras, North Carolina, 2009

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 W	0209	2.5	76	16 Th	0046	2.5	76	1 Sa	0341	2.2	67	16 Su	0232	2.5	76	1 Tu	0453	2.6	79	16 W	0435	3.3	101
	0817	0.0	0		0657	0.1	3		0934	0.4	12		0836	0.0	0		1050	0.5	15		1042	-0.1	-3
	1503	3.3	101		1343	3.3	101		1623	3.3	101		1528	3.8	116		1722	3.4	104		1708	4.0	122
	2132	0.5	15		2010	0.6	18		2258	0.6	18		2202	0.4	12		2344	0.6	18		2326	0.0	0
2 Th	0309	2.3	70	17 F	0146	2.4	73	2 Su	0434	2.3	70	17 M	0341	2.7	82	2 W	0534	2.8	85	17 Th	0530	3.7	113
	0909	0.1	3		0753	0.0	0		1025	0.3	9		0943	-0.2	-6		1133	0.4	12		1140	-0.2	-6
	1557	3.4	104		1444	3.5	107		1710	3.4	104		1629	4.0	122		1758	3.5	107		1759	4.0	122
	2231	0.5	15		2117	0.4	12		2342	0.5	15		2259	0.2	6								
3 F	0406	2.3	70	18 Sa	0250	2.4	73	3 M	0520	2.4	73	18 Tu	0444	2.9	88	3 Th	0017	0.5	15	18 F	0011	-0.1	-3
	0959	0.1	3		0854	-0.2	-6		1111	0.3	9		1047	-0.3	-9		0612	3.0	91		0621	3.9	119
	1647	3.4	104		1546	3.8	116		1752	3.4	104		1726	4.2	128		1213	0.3	9		1234	-0.2	-6
	2322	0.4	12		2221	0.3	9						2351	0.0	0		1833	3.5	107		1846	3.9	119
4 Sa	0457	2.2	67	19 Su	0355	2.5	76	4 Tu	0021	0.4	12	19 W	0543	3.2	98	4 F	0048	0.4	12	19 Sa	0055	-0.2	-6
	1046	0.1	3		0955	-0.3	-9		0602	2.5	76		1147	-0.5	-15		0648	3.2	98		0710	4.1	125
	1732	3.5	107		1645	4.0	122		1154	0.2	6		1818	4.2	128		1251	0.3	9		1326	-0.2	-6
					2320	0.1	3		1830	3.5	107						1906	3.5	107		1933	3.8	116
5 Su	0008	0.4	12	20 M	0457	2.7	82	5 W	0057	0.4	12	20 Th	0040	-0.2	-6	5 Sa	0118	0.3	9	20 Su	0138	-0.2	-6
	0544	2.3	70		1057	-0.5	-15		0641	2.6	79		0638	3.5	107		0723	3.3	101		0757	4.2	128
	1131	0.1	3		1742	4.2	128		1234	0.2	6		1244	-0.5	-15		1330	0.2	6		1417	-0.1	-3
	1814	3.5	107						1905	3.5	107		1908	4.2	128		1939	3.4	104		2018	3.5	107
6 M	0049	0.3	9	21 Tu	0014	-0.1	-3	6 Th	0130	0.3	9	21 F	0126	-0.3	-9	6 Su	0148	0.2	6	21 M	0220	-0.1	-3
	0626	2.3	70		0557	2.9	88		0719	2.7	82		0730	3.7	113		0759	3.5	107		0844	4.1	125
	1213	0.1	3		1156	-0.6	-18		1313	0.2	6		1339	-0.5	-15		1409	0.3	9		1507	0.1	3
	1853	3.5	107		1836	4.3	131		1939	3.5	107		1957	4.0	122		2013	3.3	101		2103	3.3	101
7 Tu	0127	0.2	6	22 W	0105	-0.3	-9	7 F	0201	0.2	6	22 Sa	0211	-0.4	-12	7 M	0220	0.2	6	22 Tu	0302	0.1	3
	0707	2.4	73		0654	3.1	94		0755	2.8	85		0822	3.8	116		0836	3.6	110		0932	4.0	122
	1253	0.1	3		1254	-0.7	-21		1351	0.2	6		1433	-0.3	-9		1450	0.3	9		1558	0.3	9
	1930	3.5	107		1928	4.3	131		2011	3.4	104		2044	3.8	116		2049	3.2	98		2149	3.0	91
8 W	0203	0.2	6	23 Th	0154	-0.4	-12	8 Sa	0231	0.2	6	23 Su	0255	-0.3	-9	8 Tu	0253	0.2	6	23 W	0346	0.3	9
	0745	2.4	73		0749	3.3	101		0831	2.9	88		0913	3.9	119		0916	3.6	110		1021	3.8	116
	1332	0.1	3		1351	-0.6	-18		1429	0.2	6		1527	-0.1	-3		1534	0.4	12		1651	0.6	18
	2006	3.5	107		2019	4.2	128		2044	3.3	101		2131	3.5	107		2128	3.0	91		2238	2.8	85
9 Th	0238	0.2	6	24 F	0242	-0.5	-15	9 Su	0301	0.2	6	24 M	0340	-0.2	-6	9 W	0331	0.3	9	24 Th	0433	0.5	15
	0824	2.5	76		0844	3.4	104		0907	3.0	91		1004	3.8	116		1000	3.7	113		1114	3.5	107
	1411	0.2	6		1448	-0.5	-15		1509	0.3	9		1622	0.2	6		1623	0.5	15		1749	0.8	24
	2041	3.4	104		2109	3.9	119		2118	3.2	98		2219	3.1	94		2212	2.9	88		2332	2.6	79
10 F	0311	0.2	6	25 Sa	0329	-0.4	-12	10 M	0332	0.2	6	25 Tu	0426	0.0	0	10 Th	0414	0.3	9	25 F	0526	0.7	21
	0902	2.5	76		0939	3.5	107		0946	3.1	94		1057	3.6	110		1051	3.7	113		1212	3.3	101
	1450	0.3	9		1545	-0.3	-9		1552	0.4	12		1720	0.4	12		1718	0.7	21		1852	1.0	30
	2115	3.3	101		2158	3.6	110		2154	3.0	91		2310	2.8	85		2302	2.7	82		2302	2.7	82
11 Sa	0342	0.2	6	26 Su	0417	-0.4	-12	11 Tu	0406	0.2	6	26 W	0514	0.3	9	11 F	0506	0.3	9	26 Sa	0033	2.5	76
	0940	2.6	79		1034	3.5	107		1029	3.2	98		1153	3.5	107		1150	3.6	110		0627	0.9	27
	1531	0.4	12		1644	0.0	0		1640	0.5	15		1823	0.7	21		1822	0.7	21		1316	3.2	98
	2149	3.1	94		2249	3.3	101		2235	2.8	85								1956		1.0	30	
12 Su	0414	0.2	6	27 M	0505	-0.2	-6	12 W	0445	0.2	6	27 Th	0005	2.6	79	12 Sa	0003	2.6	79	27 Su	0139	2.4	73
	1020	2.7	82		1132	3.4	104		1117	3.3	101		0607	0.5	15		0607	0.4	12		0733	0.9	27
	1615	0.5	15		1747	0.3	9		1735	0.6	18		1254	3.3	101		1256	3.7	113		1418	3.2	98
	2226	3.0	91		2342	2.9	88		2322	2.6	79		1929	0.8	24		1933	0.7	21		2053	1.0	30
13 M	0448	0.2	6	28 Tu	0554	0.0	0	13 Th	0531	0.2	6	28 F	0107	2.4	73	13 Su	0112	2.6	79	28 M	0241	2.5	76
	1104	2.8	85		1231	3.4	104		1212	3.4	104		0705	0.6	18		0716	0.3	9		0837	0.9	27
	1704	0.5	15		1853	0.5	15		1838	0.7	21		1358	3.2	98		1406	3.7	113		1514	3.2	98
	2306	2.8	85								2036		0.9	27	2041		0.6	18	2142		0.9	27	
14 Tu	0525	0.2	6	29 W	0038	2.6	79	14 F	0018	2.5	76	29 Sa	0213	2.3	70	14 M	0225	2.8	85	29 Tu	0334	2.7	82
	1151	2.9	88		0646	0.1	3		0626	0.2	6		0808	0.7	21		0829	0.2	6		0933	0.8	24
	1800	0.6	18		1332	3.3	101		1315	3.5	107		1500	3.2	98		1513	3.8	116		1601	3.3	101
	2352	2.6	79		2001	0.6	18		1947	0.7	21		2136	0.9	27		2143	0.5	15		2222	0.8	24
15 W	0608	0.1	3	30 Th	0139	2.4	73	15 Sa	0122	2.5	76	30 Su	0314	2.4	73	15 Tu	0334	3.0	91				

Cape Hatteras, North Carolina, 2009

Times and Heights of High and Low Waters

October			November			December																	
Time	Height		Time	Height		Time	Height		Time	Height													
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm									
1 Th	0500	3.1	94	16 F	0515	3.9	119	1 Su	0541	3.8	116	16 M	0631	4.1	125	1 Tu	0556	4.1	125	16 W	0020	-0.1	-3
	1107	0.5	15		1133	0.0	0		1204	0.3	9		1301	0.1	3		1228	0.0	0		0657	3.7	113
	1720	3.4	104		1737	3.6	110		1756	3.1	94		1849	2.9	88		1811	2.8	85		1330	0.0	0
	2330	0.5	15		2342	0.0	0		2353	0.1	3		●	●	1932		2.8	85	1900		2.8	85	●	1913	2.5	76
2 F	0538	3.4	104	17 Sa	0604	4.2	128	2 M	0621	4.0	122	17 Tu	0039	0.0	0	2 W	0005	-0.3	-9	17 Th	0101	0.0	0
	1148	0.4	12		1225	0.0	0		1248	0.2	6		0713	4.0	122		0643	4.2	128		0736	3.6	110
	1756	3.4	104		1824	3.5	107		1837	3.1	94		1932	2.8	85		1316	-0.1	-3		1409	0.1	3
3 Sa	0002	0.4	12	18 Su	0025	-0.1	-3	3 Tu	0032	0.0	0	18 W	0120	0.1	3	3 Th	0054	-0.4	-12	18 F	0141	0.0	0
	0615	3.6	110		0649	4.3	131		0703	4.2	128		0755	3.9	119		0732	4.3	131		0815	3.5	107
	1228	0.3	9		1314	0.0	0		1332	0.1	3		1428	0.2	6		1404	-0.2	-6		1447	0.1	3
	1831	3.4	104		●	1909	3.4		104	1920	3.1		94	2014	2.7		82	1950	2.9		88	2033	2.4	73
4 Su	0034	0.3	9	19 M	0106	0.0	0	4 W	0114	0.0	0	19 Th	0201	0.2	6	4 F	0145	-0.4	-12	19 Sa	0221	0.1	3
	0651	3.8	116		0734	4.3	131		0748	4.3	131		0836	3.8	116		0822	4.2	128		0853	3.4	104
	1309	0.3	9		1401	0.1	3		1419	0.1	3		1511	0.3	9		1454	-0.2	-6		1524	0.2	6
	1907	3.3	101		1953	3.2	98		2005	3.0	91		2055	2.6	79		2042	2.9	88		2112	2.4	73
5 M	0107	0.2	6	20 Tu	0147	0.1	3	5 Th	0159	0.0	0	20 F	0242	0.3	9	5 Sa	0238	-0.4	-12	20 Su	0301	0.2	6
	0729	3.9	119		0817	4.2	128		0835	4.2	128		0918	3.6	110		0914	4.1	125		0901	3.0	98
	1350	0.2	6		1447	0.2	6		1508	0.2	6		1554	0.5	15		1546	-0.2	-6		1630	0.2	6
	1945	3.2	98		2037	3.0	91		2054	2.9	88		2139	2.5	76		2138	2.9	88		2153	2.4	73
6 Tu	0143	0.2	6	21 W	0228	0.3	9	6 F	0248	0.0	0	21 Sa	0326	0.5	15	6 Su	0336	-0.2	-6	21 M	0343	0.3	9
	0809	4.0	122		0901	4.0	122		0926	4.1	125		1001	3.4	104		1008	3.9	119		1008	3.0	91
	1433	0.3	9		1534	0.4	12		1600	0.2	6		1638	0.6	18		1639	-0.1	-3		1637	0.3	9
	2025	3.1	94		2121	2.8	85		2147	2.9	88		2225	2.4	73		2238	2.9	88		2236	2.4	73
7 W	0222	0.2	6	22 Th	0311	0.4	12	7 Sa	0343	0.1	3	22 Su	0412	0.6	18	7 M	0438	-0.1	-3	22 Tu	0429	0.4	12
	0852	4.0	122		0947	3.7	113		1022	4.0	122		1046	3.2	98		1104	3.6	110		1047	2.8	85
	1520	0.4	12		1622	0.6	18		1657	0.3	9		1723	0.6	18		1733	-0.1	-3		1713	0.3	9
	2108	3.0	91		2207	2.7	82		2247	2.8	85		2315	2.4	73		2342	3.0	91		2322	2.4	73
8 Th	0305	0.2	6	23 F	0356	0.6	18	8 Su	0444	0.3	9	23 M	0504	0.8	24	8 Tu	0546	0.1	3	23 W	0519	0.5	15
	0940	4.0	122		1036	3.5	107		1121	3.8	116		1134	3.0	91		1204	3.3	101		1129	2.6	79
	1611	0.5	15		1714	0.8	24		1757	0.4	12		1809	0.7	21		1829	-0.1	-3		1752	0.3	9
	2157	2.9	88		2258	2.5	76		2354	2.9	88		●	●	1854		0.7	21	1925		0.0	0	1834	0.3	9
9 F	0354	0.3	9	24 Sa	0447	0.8	24	9 M	0553	0.4	12	24 Tu	0010	2.4	73	9 W	0049	3.1	94	24 Th	0012	2.5	76
	1034	3.9	119		1128	3.3	101		1225	3.6	110		0602	0.8	24		0658	0.3	9		0616	0.6	18
	1708	0.6	18		1809	0.9	27		1858	0.3	9		1223	2.9	88		1305	3.0	91		1215	2.5	76
	2253	2.8	85		2355	2.5	76		●	●	1854		0.7	21	1925		0.0	0	1925		0.0	0	1834	0.3	9
10 Sa	0451	0.4	12	25 Su	0545	0.9	27	10 Tu	0104	3.0	91	25 W	0106	2.6	79	10 Th	0154	3.2	98	25 F	0104	2.7	82
	1135	3.8	116		1226	3.2	98		0708	0.4	12		0705	0.9	27		0812	0.3	9		0718	0.6	18
	1812	0.7	21		1906	1.0	30		1331	3.4	104		1315	2.7	82		1408	2.8	85		1307	2.3	70
	2358	2.7	82		●	1959	0.9		27	1957	0.3		9	1939	0.6		18	2020	0.0		0	1920	0.2	6
11 Su	0558	0.5	15	26 M	0058	2.5	76	11 W	0213	3.2	98	26 Th	0200	2.7	82	11 F	0256	3.4	104	26 Sa	0159	2.9	88
	1242	3.7	113		0649	1.0	30		0822	0.4	12		0808	0.8	24		0920	0.3	9		0823	0.5	15
	1918	0.7	21		1324	3.1	94		1434	3.3	101		1407	2.7	82		1510	2.6	79		1404	2.2	67
	●	●	●		1959	0.9	27		2052	0.2	6		2022	0.5	15		2114	-0.1	-3		2010	0.1	3
12 M	0110	2.8	85	27 Tu	0159	2.6	79	12 Th	0314	3.5	107	27 F	0251	3.0	91	12 Sa	0352	3.5	107	27 Su	0254	3.1	94
	0712	0.5	15		0755	1.0	30		0930	0.3	9		0907	0.7	21		1022	0.2	6		0925	0.4	12
	1351	3.7	113		1419	3.0	91		1533	3.2	98		1458	2.6	79		1607	2.5	76		1502	2.2	67
	2022	0.5	15		2045	0.9	27		2143	0.1	3		2105	0.3	9		2204	-0.1	-3		2103	-0.1	-3
13 Tu	0222	3.0	91	28 W	0252	2.8	85	13 F	0410	3.7	113	28 Sa	0338	3.3	101	13 Su	0444	3.6	110	28 M	0349	3.4	104
	0827	0.4	12		0855	0.9	27		1031	0.2	6		1002	0.5	15		1116	0.1	3		1023	0.2	6
	1456	3.7	113		1509	3.0	91		1627	3.1	94		1548	2.6	79		1700	2.5	76		1600	2.3	70
	2120	0.4	12		2126	0.7	21		2230	0.0	0		2148	0.2	6		2252	-0.1	-3		2157	-0.2	-6
14 W	0327	3.3	101	29 Th	0339	3.0	91	14 Sa	0500	3.9	119	29 Su	0424	3.6	110	14 M	0531	3.7	113	29 Tu	0442	3.7	113
	0936	0.3	9		0948	0.7	21		1125	0.1	3		1052	0.3	9		1204	0.1	3		1117	0.0	0
	1554	3.7	113		1553	3.0	91		1717	3.0	91		1636	2.7	82		1748	2.5	76		1656	2.4	73
	2211	0.2	6		2203	0.6	18		2315	0.0	0		2233	0.0	0		2337	-0.1	-3		2252	-0.4	-12
15 Th	0424	3.7	113	30 F	0421	3.3	101	15 Su	0547	4.1	125	30 M	0510	3.8	116	15 Tu	0615	3.7	113	30 W	0535	3.9	119
	1037	0.1	3		1036	0.6	18		1215	0.1	3		1140	0.1	3		1249	0.0	0		1208	-0.2	-6
	1648	3.7	113		1635	3.1	94		1804	3.0	91		1724	2.7	82		1832	2.5	76		1750	2.6	79
	2258	0.1	3		2239	0.4	12		2358	0.0	0		2318	-0.2	-6		●	●	2346		-0.6	-18	
31 Sa	0501	3.6	110	31 Su	0501	3.6	110	31 Th	1121	0.4	12	31 O	0627	4.1	125	31 O	0627	4.1	125				
	1121	0.4	12		1716	3.1	9																

Wilmington, North Carolina, 2009

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 W	0426	4.0	122		16 Th	0252	3.8	116		1 Sa	0015	0.4	12		16 Su	0459	3.9	119		1 Tu	0120	0.5	15		16 W	0129	0.2	6	
	1108	-0.3	-9			0942	0.0	0			0542	3.8	116			1147	0.1	3			0657	4.1	125			0701	4.7	143	
	1712	4.7	143			1537	4.4	134			1217	0.0	0			1746	4.7	143			1324	0.3	9			1341	-0.1	-3	
	2351	0.2	6			2307	0.7	21			1825	4.5	137								1931	4.6	140			1932	5.1	155	
2 Th	0518	3.9	119		17 F	0400	3.8	116		2 Su	0106	0.3	9		17 M	0055	0.5	15		2 W	0205	0.4	12		17 Th	0221	0.0	0	
	1159	-0.3	-9			1050	0.0	0			0634	3.8	116			0609	4.1	125			0745	4.2	128			0758	4.9	149	
	1803	4.7	143			1648	4.5	137			1306	0.1	3			1253	-0.1	-3			1411	0.3	9			1437	-0.2	-6	
3 F	0045	0.2	6		18 Sa	0014	0.6	18		3 M	0154	0.3	9		18 Tu	0152	0.2	6		3 Th	0247	0.4	12		18 F	0310	-0.2	-6	
	0610	3.8	116			0512	3.8	116			0724	3.9	119			0714	4.3	131			0828	4.3	131			0850	5.2	158	
	1248	-0.2	-6			1200	-0.1	-3			1353	0.1	3			1355	-0.2	-6			1456	0.3	9			1531	-0.2	-6	
	1853	4.7	143			1800	4.7	143			2001	4.6	140			1951	5.1	155			2052	4.7	143			2110	5.1	155	
4 Sa	0136	0.1	3		19 Su	0116	0.4	12		4 Tu	0240	0.3	9		19 W	0246	0.0	0		4 F	0327	0.3	9		19 Sa	0357	-0.2	-6	
	0701	3.8	116			0622	3.8	116			0812	3.9	119			0813	4.5	137			0907	4.3	131			0940	5.3	162	
	1335	-0.1	-3			1306	-0.2	-6			1439	0.1	3			1453	-0.3	-9			1540	0.3	9			1622	-0.1	-3	
	1941	4.7	143			1906	4.9	149			2043	4.6	140			2045	5.2	158			2126	4.6	140			2156	5.0	152	
5 Su	0224	0.1	3		20 M	0214	0.2	6		5 W	0323	0.2	6		20 Th	0337	-0.2	-6		5 Sa	0404	0.3	9		20 Su	0442	-0.2	-6	
	0750	3.8	116			0727	4.0	122			0855	4.0	122			0908	4.8	146			0939	4.4	134			1028	5.3	162	
	1421	-0.1	-3			1409	-0.3	-9			1522	0.2	6			1549	-0.3	-9			1622	0.4	12			1711	0.0	0	
	2026	4.7	143			2007	5.0	152			2123	4.6	140			2135	5.2	158			2155	4.5	137			2242	4.8	146	
6 M	0310	0.1	3		21 Tu	0309	0.0	0		6 Th	0403	0.2	6		21 F	0425	-0.3	-9		6 Su	0438	0.3	9		21 M	0526	-0.1	-3	
	0836	3.8	116			0827	4.2	128			0935	4.0	122			1002	4.9	149			1001	4.5	137			1116	5.2	158	
	1506	0.0	0			1508	-0.4	-12			1603	0.2	6			1641	-0.3	-9			1704	0.5	15			1759	0.2	6	
	2109	4.7	143			2103	5.1	155			2157	4.6	140			2223	5.1	155			2217	4.5	137			2328	4.6	140	
7 Tu	0354	0.1	3		22 W	0402	-0.2	-6		7 F	0439	0.2	6		22 Sa	0512	-0.3	-9		7 M	0512	0.3	9		22 Tu	0608	0.1	3	
	0920	3.8	116			0925	4.3	131			1010	4.0	122			1055	5.0	152			1022	4.6	140			1205	5.0	152	
	1547	0.1	3			1605	-0.4	-12			1642	0.3	9			1732	-0.2	-6			1746	0.5	15			1847	0.4	12	
	2148	4.6	140			2156	5.2	158			2226	4.5	137			2312	4.9	149			2243	4.4	134						
8 W	0434	0.2	6		23 Th	0452	-0.3	-9		8 Sa	0513	0.2	6		23 Su	0557	-0.3	-9		8 Tu	0545	0.3	9		23 W	0017	4.4	134	
	1001	3.7	113			1022	4.5	137			1035	4.0	122			1147	5.0	152			1056	4.7	143			0650	0.3	9	
	1626	0.2	6			1659	-0.4	-12			1720	0.4	12			1823	0.0	0			1830	0.7	21			1256	4.8	146	
	2225	4.5	137			2248	5.1	155			2246	4.4	134								2320	4.3	131			1935	0.6	18	
9 Th	0512	0.2	6		24 F	0540	-0.4	-12		9 Su	0544	0.2	6		24 M	0001	4.7	143		9 W	0622	0.3	9		24 Th	0108	4.2	128	
	1039	3.7	113			1119	4.6	140			1053	4.1	125			0642	-0.2	-6			1140	4.7	143			0733	0.5	15	
	1703	0.3	9			1752	-0.3	-9			1758	0.5	15			1240	4.9	149			1920	0.8	24			1347	4.6	140	
	2256	4.4	134			2340	4.9	149			2307	4.3	131			1913	0.2	6								2025	0.8	24	
10 F	0546	0.2	6		25 Sa	0627	-0.5	-15		10 M	0614	0.2	6		25 Tu	0051	4.4	134		10 Th	0009	4.2	128		25 F	0201	4.0	122	
	1111	3.7	113			1216	4.6	140			1123	4.2	128			0726	0.0	0			0706	0.3	9			0820	0.6	18	
	1738	0.3	9			1844	-0.2	-6			1839	0.5	15			1332	4.8	146			1235	4.7	143			1439	4.5	137	
	2319	4.3	131								2343	4.3	131			2005	0.4	12			2018	0.9	27			2117	0.9	27	
11 Sa	0617	0.2	6		26 Su	0032	4.7	143		11 Tu	0646	0.1	3		26 W	0142	4.2	128		11 F	0109	4.1	125		26 Sa	0254	3.9	119	
	1135	3.7	113			0714	-0.4	-12			1206	4.4	134			0813	0.1	3			0801	0.3	9			0913	0.7	21	
	1813	0.4	12			1312	4.6	140			1927	0.6	18			1424	4.7	143			1343	4.7	143			1532	4.4	134	
	2339	4.2	128			1937	0.0	0								2058	0.6	18			2125	0.9	27			2211	0.9	27	
12 Su	0647	0.2	6		27 M	0123	4.5	137		12 W	0029	4.1	125		27 Th	0234	4.1	125		12 Sa	0223	4.0	122		27 Su	0348	3.9	119	
	1202	3.8	116			0801	-0.3	-9			0725	0.1	3			0903	0.3	9			0910	0.4	12			1010	0.7	21	
	1853	0.5	15			1406	4.6	140			1258	4.4	134			1516	4.6	140			1506	4.6	140			1625	4.4	134	
						2033	0.2	6			2026	0.8	24			2154	0.7	21			2232	0.9	27			2304	0.8	24	
13 M	0013	4.2	128		28 Tu	0214	4.3	131		13 Th	0125	4.0	122		28 F	0326	3.9	119		13 Su	0341	4.0	122		28 M	0442	3.9	119	
	0719	0.1	3			0850	-0.2	-6			0815	0.1	3			0956	0.4	12			1027	0.4	12			1106	0.7	21	
	1244	4.0	122			1458	4.6	140			1400	4.5	137			1608	4.5	137			1625	4.7	143			1717	4.4	134	
	1940	0.5	15			2129	0.3	9			2137	0.8	24			2249	0.7	21			2336	0.7	21			2354	0.7	21	
14 Tu	0059	4.1	125		29 W	0305	4.1	125		14 F	0229	3.9	119		29 Sa	0419	3.9	119		14 M	0454	4.2	128		29 Tu	0535	4.0	122	
	0757	0.0	0			0941																							

Myrtle Beach (Springmaid Pier), South Carolina, 2009

Times and Heights of High and Low Waters

January				February				March																					
Time	Height			Time	Height			Time	Height			Time	Height																
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm		h	m	ft	cm										
1 Th	0401	0.4	12		16 F	0515	-0.2	-6		1 Su	0509	0.3	9		16 M	0025	4.7	143		1 Su	0406	0.0	0		16 M	0459	0.4	12	
	1016	4.8	146			1127	4.8	146			1121	4.3	131			0627	0.6	18			1006	4.6	140			1105	4.1	125	
	1633	0.2	6			1739	-0.2	-6			1724	-0.1	-3			1235	3.9	119			1614	-0.3	-9			1702	0.5	15	
	2231	4.3	131								2347	4.8	146			1834	0.5	15			2226	5.2	158			2342	4.8	146	
2 F	0444	0.5	15		17 Sa	0011	5.0	152		2 M	0605	0.5	15		17 Tu	0119	4.5	137		2 M	0454	0.2	6		17 Tu	0546	0.7	21	
	1101	4.6	140			0611	0.2	6			1218	4.2	128			0728	0.9	27			1100	4.4	134			1157	3.9	119	
	1712	0.2	6			1221	4.4	134			1817	-0.1	-3			1329	3.7	113			1702	-0.1	-3			1749	0.8	24	
	2323	4.4	134			1830	0.1	3								1935	0.7	21			2324	5.2	158						
3 Sa	0533	0.6	18		18 Su	0106	4.8	146		3 Tu	0047	4.9	149		18 W	0213	4.4	134		3 Tu	0550	0.4	12		18 W	0036	4.6	140	
	1151	4.4	134			0712	0.6	18			0713	0.6	18			0834	1.0	30			1201	4.2	128			0639	1.0	30	
	1757	0.1	3			1314	4.1	125			1319	4.1	125			1423	3.6	110			1757	0.0	0			1846	1.0	30	
						1926	0.3	9			1921	-0.1	-3			2042	0.8	24											
4 Su	0018	4.6	140		19 M	0200	4.7	143		4 W	0150	5.1	155		19 Th	0308	4.4	134		4 W	0028	5.2	158		19 Th	0130	4.4	134	
	0630	0.7	21			0818	0.7	21			0830	0.5	15			0935	0.9	27			0658	0.6	18			0742	1.1	34	
	1245	4.3	131			1407	3.8	116			1423	4.1	125			1519	3.6	110			1306	4.2	128			1346	3.7	113	
	1849	0.1	3			2025	0.4	12			2032	-0.2	-6			2142	0.6	18			1904	0.1	3			1954	1.1	34	
5 M	0114	4.8	146		20 Tu	0253	4.6	140		5 Th	0255	5.3	162		20 F	0402	4.5	137		5 Th	0134	5.2	158		20 F	0225	4.4	134	
	0739	0.7	21			0920	0.8	24			0943	0.3	9			1026	0.8	24			0816	0.5	15			0846	1.1	34	
	1342	4.3	131			1500	3.7	113			1529	4.3	131			1613	3.8	116			1412	4.3	131			1440	3.8	116	
	1949	0.0	0			2123	0.5	15			2141	-0.4	-12			2233	0.4	12			2019	0.0	0			2102	1.0	30	
6 Tu	0213	5.1	155		21 W	0346	4.6	140		6 F	0401	5.5	168		21 Sa	0452	4.7	143		6 F	0241	5.3	162		21 Sa	0318	4.5	137	
	0852	0.5	15			1014	0.7	21			1047	-0.1	-3			1111	0.5	15			0930	0.3	9			0941	0.9	27	
	1442	4.3	131			1554	3.7	113			1633	4.6	140			1702	4.0	122			1518	4.5	137			1534	4.0	122	
	2053	-0.2	-6			2215	0.4	12			2245	-0.8	-24			2319	0.2	6			2132	-0.2	-6			2159	0.7	21	
7 W	0314	5.4	165		22 Th	0437	4.7	143		7 Sa	0504	5.8	177		22 Su	0537	4.9	149		7 Sa	0347	5.4	165		22 Su	0409	4.7	143	
	0959	0.2	6			1101	0.6	18			1142	-0.4	-12			1151	0.3	9			1031	0.0	0			1028	0.7	21	
	1545	4.4	134			1646	3.8	116			1734	4.9	149			1746	4.3	131			1622	4.8	146			1624	4.3	131	
	2156	-0.5	-15			2302	0.2	6			2344	-1.1	-34								2237	-0.5	-15			2248	0.5	15	
8 Th	0416	5.8	177		23 F	0525	4.9	149		8 Su	0601	6.1	186		23 M	0002	0.0	0		8 Su	0449	5.6	171		23 M	0456	4.8	146	
	1100	-0.1	-3			1144	0.4	12			1234	-0.7	-21			0616	5.1	155			1124	-0.3	-9			1110	0.4	12	
	1647	4.6	140			1733	3.9	119			1829	5.3	162			1229	0.1	3			1721	5.2	158			1710	4.6	140	
	2256	-0.8	-24			2345	0.1	3								1825	4.5	137			2334	-0.8	-24			2334	0.2	6	
9 F	0517	6.1	186		24 Sa	0607	5.0	152		9 M	0039	-1.3	-40		24 Tu	0043	-0.2	-6		9 M	0544	5.8	177		24 Tu	0539	5.0	152	
	1157	-0.4	-12			1224	0.2	6			0653	6.2	189			0653	5.2	158			1213	-0.6	-18			1149	0.1	3	
	1746	4.9	149			1814	4.1	125			1322	-0.9	-27			1305	-0.1	-3			1814	5.6	171			1751	5.0	152	
	2354	-1.1	-34								1920	5.6	171			1901	4.8	146											
10 Sa	0613	6.4	195		25 Su	0026	-0.1	-3		10 Tu	0132	-1.3	-40		25 W	0123	-0.3	-9		10 Tu	0027	-1.0	-30		25 W	0016	0.0	0	
	1250	-0.7	-21			0646	5.2	158			0741	6.1	186			0728	5.2	158			0634	5.8	177			0619	5.1	155	
	1841	5.2	158			1302	0.1	3			1408	-1.0	-30			1341	-0.3	-9			1257	-0.7	-21			1227	-0.1	-3	
						1852	4.2	128			2009	5.7	174			1936	5.0	152			1903	5.9	180			1830	5.4	165	
11 Su	0050	-1.3	-40		26 M	0106	-0.2	-6		11 W	0222	-1.2	-37		26 Th	0202	-0.3	-9		11 W	0117	-1.0	-30		26 Th	0059	-0.2	-6	
	0707	6.5	198			0722	5.3	162			0828	5.8	177			0803	5.2	158			0720	5.7	174			0657	5.2	158	
	1342	-0.9	-27			1339	-0.1	-3			1451	-0.9	-27			1417	-0.4	-12			1340	-0.8	-24			1305	-0.3	-9	
	1935	5.3	162			1927	4.4	134			2058	5.7	174			2012	5.2	158			1948	6.0	183			1908	5.7	174	
12 M	0144	-1.4	-43		27 Tu	0144	-0.2	-6		12 Th	0311	-1.0	-30		27 F	0242	-0.3	-9		12 Th	0205	-0.9	-27		27 F	0141	-0.3	-9	
	0758	6.4	195			0756	5.2	158			0914	5.4	165			0840	5.0	152			0804	5.5	168			0735	5.2	158	
	1431	-0.9	-27			1414	-0.1	-3			1534	-0.7	-21			1454	-0.4	-12			1421	-0.7	-21			1345	-0.4	-12	
	2027	5.4	165			2002	4.5	137			2148	5.5	168			2052	5.3	162			2032	6.0	183			1948	5.9	180	
13 Tu	0237	-1.3	-40		28 W	0223	-0.2	-6		13 F	0358	-0.6	-18		28 Sa	0323	-0.2	-6		13 F	0250	-0.7	-21		28 Sa	0223	-0.3	-9	
	0849	6.1	186			0830	5.1	155			1002	5.0	152			0920	4.8	146			0846	5.2	158			0816	5.1	155	
	1519	-0.9	-27			1449	-0.2	-6			1615	-0.5	-15			1532	-0.4	-12			1501	-0.5	-15			1426	-0.4	-12	
	2121	5.4	165			2038	4.5	137			2239	5.3	162			2136	5.3	162			2117	5.7	174			2030	5.9	180	
14 W	0330	-1.0	-30		29 Th	0301	-0.1	-3		14 Sa	0445	-0.2	-6		14 Sa														

Myrtle Beach (Springmaid Pier), South Carolina, 2009

Times and Heights of High and Low Waters

April				May				June																										
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height																					
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm																				
1 W	0542	0.3	9		16 Th	0600	1.0	30		1 F	0006	5.6	171		16 Sa	0006	4.7	143		1 M	0147	5.0	152		16 Tu	0057	4.5	137						
	1153	4.4	134			1215	3.8	116			0638	0.3	9			0613	0.8	24			0816	0.0	0			0703	0.4	12						
	1747	0.1	3			1805	1.1	34			1252	4.8	146			1230	4.1	125			1434	5.5	168			2054	0.4	12		1327	4.8	146		
2 Th	0016	5.4	165		17 F	0048	4.6	140		2 Sa	0109	5.4	165		17 Su	0054	4.6	140		2 Tu	0242	4.8	146		17 W	0146	4.4	134		17 Th	0146	4.4	134	
	0649	0.5	15			0654	1.1	34			0744	0.3	9			0702	0.8	24			0911	0.1	3			0755	0.3	9			0755	0.3	9	
	1259	4.4	134			1309	3.9	119			1355	5.0	152			1319	4.3	131			1529	5.6	171			2051	0.9	27			1417	5.1	155	
3 F	1856	0.3	9		18 Sa	0140	4.5	137		3 Su	0209	5.3	162		18 M	0142	4.5	137		3 W	0336	4.6	140		18 Th	0239	4.4	134		18 Fr	0239	4.4	134	
	0803	0.5	15			0752	1.1	34			0847	0.2	6			0753	0.7	21			1001	0.1	3			0850	0.1	3			0850	0.1	3	
	1405	4.6	140			1400	4.0	122			1454	5.3	162			1408	4.5	137			1621	5.7	174			1510	5.1	155			1510	5.1	155	
4 Sa	2012	0.2	6		19 Su	0230	4.6	140		4 M	0308	5.1	155		19 Tu	0230	4.5	137		4 Th	0430	4.4	134		19 F	2152	0.6	18		19 Sa	0335	4.5	137	
	0227	5.3	162			0848	0.9	27			0943	0.1	3			0844	0.5	15			1047	0.1	3			0945	-0.2	-6			0945	-0.2	-6	
	0912	0.3	9			1451	4.3	131			1552	5.5	168			1457	4.9	149			1710	5.8	177			1606	5.9	180			1606	5.9	180	
5 Su	2124	0.1	3		20 M	0320	4.6	140		5 Tu	0405	5.0	152		20 W	0321	4.6	140		5 F	0521	4.4	134		20 Sa	2250	0.3	9		20 Su	0433	4.6	140	
	0330	5.3	162			0937	0.7	21			1032	-0.1	-3			0933	0.2	6			1131	0.1	3			1041	-0.4	-12			1041	-0.4	-12	
	1010	0.1	3			1541	4.6	140			1645	5.8	177			1547	5.3	162			1756	5.8	177			1702	6.2	189			1702	6.2	189	
6 M	2227	-0.2	-6		21 Tu	0409	4.7	143		6 W	0458	4.9	149		21 Th	0413	4.6	140		6 Sa	0021	0.3	9		21 Su	2345	0.0	0		21 M	0531	4.8	146	
	0429	5.4	165			1022	0.4	12			1117	-0.1	-3			1022	0.0	0			0607	4.4	134			1136	-0.6	-18			0607	4.4	134	
	1101	-0.2	-6			1629	5.0	152			1735	6.0	183			1638	5.7	174			1213	0.2	6			1757	6.5	198			1213	0.2	6	
7 Tu	2323	-0.4	-12		22 W	0456	4.9	149		7 Th	0547	4.9	149		22 F	0505	4.8	146		7 Su	0102	0.2	6		22 M	1838	5.8	177		22 Tu	0039	-0.3	-9	
	0523	5.4	165			1105	0.1	3			1159	-0.1	-3			1111	-0.3	-9			0650	4.4	134			0627	5.0	152			0627	5.0	152	
	1146	-0.3	-9			1714	5.5	168			1820	6.1	186			1728	6.1	186			1254	0.2	6			1232	-0.8	-24			1232	-0.8	-24	
8 W	1756	5.9	180		23 Th	0541	5.0	152		8 F	0042	-0.1	-3		23 Sa	0008	0.0	0		8 M	1917	5.7	174		23 Tu	1851	6.7	204		23 W	1851	6.7	204	
	0014	-0.5	-15			1147	-0.2	-6			0632	4.8	146			0556	4.9	149			0142	0.3	9			0730	4.3	131			0133	-0.5	-15	
	0612	5.4	165			1758	5.9	180			1240	-0.1	-3			1200	-0.5	-15			1335	0.3	9			1328	-0.9	-27			0722	5.2	158	
9 Th	1842	6.1	186		24 F	0033	-0.1	-3		9 Sa	0124	0.0	0		24 Su	0058	-0.2	-6		9 Tu	1956	5.6	171		24 W	1944	6.7	204		24 Th	1944	6.7	204	
	0101	-0.5	-15			0625	5.1	155			0714	4.7	143			0647	5.0	152			0221	0.3	9			0809	4.3	131			0817	5.3	162	
	0657	5.3	162			1230	-0.4	-12			1320	0.0	0			1251	-0.6	-18			1415	0.4	12			1415	0.4	12			1424	-0.8	-24	
10 Fr	1925	6.2	189		25 Sa	0119	-0.2	-6		10 Su	0205	0.0	0		25 M	0149	-0.4	-12		10 W	2034	5.5	168		25 Th	2038	6.6	201		25 Fr	2038	6.6	201	
	0145	-0.4	-12			0710	5.1	155			0754	4.6	140			0738	5.1	155			0300	0.3	9			0848	4.2	128			0317	-0.6	-18	
	0739	5.1	155			1315	-0.5	-15			1400	0.2	6			1343	-0.7	-21			1455	0.5	15			1455	0.5	15			0915	5.3	162	
11 Sa	2006	6.1	186		26 Su	0195	-0.2	-6		11 M	0205	5.7	174		26 Tu	0197	6.6	201		11 W	2114	5.3	162		26 Th	2133	6.3	192		26 Fr	2133	6.3	192	
	0227	-0.3	-9			0206	-0.3	-9			0244	0.2	6			0241	-0.4	-12			0338	0.4	12			0338	0.4	12			0408	-0.6	-18	
	0819	4.9	149			0755	5.1	155			0833	4.4	134			0831	5.1	155			0930	4.1	125			0930	4.1	125			1016	5.3	162	
12 Su	1429	-0.1	-3		27 M	1402	-0.5	-15		12 Tu	1439	0.4	12		27 W	1437	-0.6	-18		12 Th	2155	5.1	155		27 Fr	2231	5.9	180		27 Sa	2231	5.9	180	
	2046	5.8	177			2012	6.4	195			2059	5.5	168			2051	6.5	198			01535	0.7	21			01535	0.7	21			1617	-0.4	-12	
	0308	0.0	0			0206	-0.3	-9			0323	0.3	9			0333	-0.4	-12			0416	0.5	15			0416	0.5	15			0458	-0.5	-15	
13 M	0900	4.6	140		28 Tu	0254	-0.3	-9		13 W	0915	4.2	128		28 Th	0333	-0.4	-12		13 Sa	2239	4.9	149		28 Su	2239	4.9	149		28 M	2239	4.9	149	
	1508	0.2	6			0845	5.0	152			0959	4.1	125			1032	5.0	152			0454	0.5	15			1014	4.1	125			1117	5.4	165	
	2128	5.5	168			1451	-0.4	-12			1600	0.8	24			1532	-0.5	-15			1701	1.0	30			1617	0.8	24			1715	-0.1	-3	
14 Tu	0943	4.4	134		29 W	0344	-0.2	-6		14 Th	2228	5.0	152		29 F	0426	-0.3	-9		14 Su	2324	4.7	143		29 M	2324	4.7	143		29 Tu	2324	4.7	143	
	1547	0.5	15			0437	0.0	0			0444	0.7	21			0521	-0.2	-6			0534	0.5	15			0534	0.5	15			0550	-0.3	-9	
	2213	5.2	158			1041	4.7	143			1048	4.0	122			1136	5.0	152			1150	4.3	131			1150	4.3	131			1218	5.5	168	
15 W	1628	0.7	21		30 Th	1639	-0.1	-3		15 Fr	1643	0.9	27		30 Sa	1630	-0.3	-9		15 M	1701	1.0	30		30 Tu	1817	0.2	6		30 W	1817	0.2	6	
	2303	4.9	149																															

Myrtle Beach (Springmaid Pier), South Carolina, 2009

Times and Heights of High and Low Waters

July				August				September															
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height										
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm									
1 W	0214	4.5	137	16 Th	0111	4.4	134	1 Sa	0332	4.1	125	16 Su	0251	4.6	140								
	0836	0.2	6		0715	0.2	6		0952	0.7	21		0901	0.1	3	1 Tu	0445	4.5	137				
	1502	5.5	168		1345	5.3	162		1616	5.3	162		1524	6.0	183	1717	5.5	168	16 W	0445	5.7	174	
	2131	0.7	21		2017	1.0	30		2245	1.0	30		2211	0.6	18	2334	0.9	27	2340	0.0	0		
2 Th	0307	4.2	128	17 F	0208	4.4	134	2 Su	0425	4.1	125	17 M	0355	4.9	149	2 W	0530	4.7	143	17 Th	0542	6.1	186
	0929	0.3	9		0815	0.1	3		1040	0.6	18		1007	-0.1	-3		1142	0.7	21		1154	-0.3	-9
	1554	5.5	168		1442	5.6	171		1704	5.4	165		1626	6.3	192		1757	5.7	174		1801	6.5	198
	2225	0.7	21		2125	0.8	24		2329	0.8	24		2309	0.2	6								
3 F	0401	4.1	125	18 Sa	0308	4.5	137	3 M	0515	4.2	128	18 Tu	0458	5.2	158	3 Th	0012	0.7	21	18 F	0027	-0.2	-6
	1019	0.3	9		0918	-0.1	-3		1125	0.6	18		1108	-0.4	-12		0609	5.0	152		0633	6.5	198
	1644	5.5	168		1541	5.9	180		1749	5.5	168		1725	6.6	201		1224	0.6	18		1248	-0.4	-12
	2313	0.6	18		2228	0.5	15								1834		5.7	174	1850		6.4	195	
4 Sa	0453	4.1	125	19 Su	0410	4.6	140	4 Tu	0009	0.7	21	19 W	0002	-0.1	-3	4 F	0048	0.5	15	19 Sa	0113	-0.3	-9
	1105	0.3	9		1020	-0.4	-12		0600	4.4	134		0556	5.6	171		0646	5.2	158		0722	6.7	204
	1731	5.5	168		1642	6.2	189		1208	0.5	15		1206	-0.6	-18		1304	0.5	15		1338	-0.3	-9
	2357	0.6	18		2326	0.1	3		1829	5.6	171		1820	6.7	204		1909	5.7	174		1937	6.2	189
5 Su	0542	4.2	128	20 M	0512	4.9	149	5 W	0048	0.5	15	20 Th	0052	-0.4	-12	5 Sa	0123	0.4	12	20 Su	0157	-0.3	-9
	1149	0.3	9		1120	-0.6	-18		0640	4.5	137		0651	6.0	183		0721	5.4	165		0809	6.7	204
	1815	5.5	168		1741	6.5	198		1249	0.4	12		1301	-0.7	-21		1344	0.5	15		1428	-0.1	-3
									1906	5.6	171		1911	6.7	204		1944	5.6	171		2022	5.9	180
6 M	0038	0.5	15	21 Tu	0021	-0.2	-6	6 Th	0125	0.4	12	21 F	0140	-0.5	-15	6 Su	0159	0.3	9	21 M	0240	-0.1	-3
	0626	4.2	128		0611	5.2	158		0717	4.7	143		0743	6.2	189		0757	5.6	171		0857	6.5	198
	1231	0.3	9		1218	-0.8	-24		1329	0.4	12		1355	-0.7	-21		1424	0.6	18		1515	0.2	6
	1855	5.6	171		1836	6.7	204		1941	5.6	171		2000	6.5	198		2019	5.5	168		2109	5.5	168
7 Tu	0117	0.4	12	22 W	0114	-0.5	-15	7 F	0201	0.3	9	22 Sa	0227	-0.6	-18	7 M	0235	0.3	9	22 Tu	0323	0.2	6
	0706	4.3	131		0707	5.5	168		0752	4.8	146		0834	6.3	192		0834	5.7	174		0946	6.2	189
	1312	0.3	9		1315	-0.9	-27		1409	0.5	15		1448	-0.5	-15		1504	0.7	21		1602	0.6	18
	1932	5.6	171		1929	6.8	207		2015	5.5	168		2048	6.1	186		2057	5.3	162		2158	5.1	155
8 W	0156	0.3	9	23 Th	0205	-0.6	-18	8 Sa	0235	0.3	9	23 Su	0312	-0.4	-12	8 Tu	0313	0.3	9	23 W	0407	0.5	15
	0744	4.3	131		0801	5.7	174		0828	4.9	149		0926	6.2	189		0915	5.7	174		1039	5.9	180
	1352	0.4	12		1411	-0.9	-27		1448	0.6	18		1539	-0.1	-3		1546	0.8	24		1649	0.9	27
	2009	5.5	168		2021	6.6	201		2050	5.3	162		2138	5.7	174		2140	5.0	152		2250	4.8	146
9 Th	0233	0.3	9	24 F	0254	-0.7	-21	9 Su	0310	0.3	9	24 M	0357	-0.2	-6	9 W	0353	0.4	12	24 Th	0452	0.9	27
	0821	4.3	131		0856	5.8	177		0905	5.0	152		1020	6.1	186		1003	5.7	174		1134	5.6	171
	1432	0.5	15		1506	-0.7	-21		1527	0.7	21		1630	0.3	9		1632	1.0	30		1739	1.3	40
	2046	5.4	165		2113	6.3	192		2127	5.1	155		2231	5.2	158		2230	4.8	146		2346	4.5	137
10 F	0309	0.3	9	25 Sa	0342	-0.6	-18	10 M	0345	0.3	9	25 Tu	0442	0.1	3	10 Th	0437	0.5	15	25 F	0542	1.2	37
	0859	4.3	131		0953	5.8	177		0946	5.0	152		1116	5.8	177		1059	5.7	174		1229	5.3	162
	1512	0.6	18		1600	-0.4	-12		1608	0.8	24		1721	0.7	21		1724	1.1	34		1834	1.5	46
	2123	5.2	158		2207	5.8	177		2208	4.9	149		2325	4.8	146		2329	4.7	143		2346	4.5	137
11 Sa	0345	0.3	9	26 Su	0429	-0.5	-15	11 Tu	0422	0.3	9	26 W	0529	0.5	15	11 F	0529	0.5	15	26 Sa	0043	4.4	134
	0940	4.4	134		1051	5.8	177		1033	5.1	155		1212	5.6	171		1200	5.7	174		0638	1.4	43
	1552	0.7	21		1655	0.0	0		1652	1.0	30		1817	1.1	34		1826	1.2	37		1323	5.2	158
	2202	5.0	152		2302	5.4	165		2256	4.7	143								1936		1.6	49	
12 Su	0420	0.3	9	27 M	0517	-0.2	-6	12 W	0503	0.3	9	27 Th	0020	4.5	137	12 Sa	0032	4.7	143	27 Su	0137	4.3	131
	1023	4.5	137		1149	5.7	174		1125	5.3	162		0621	0.8	24		0629	0.6	18		0742	1.5	46
	1633	0.8	24		1751	0.4	12		1742	1.1	34		1306	5.4	165		1303	5.8	177		1415	5.2	158
	2244	4.8	146		2357	4.9	149		2349	4.6	140		1917	1.3	40		1938	1.2	37		2037	1.6	49
13 M	0457	0.3	9	28 Tu	0607	0.1	3	13 Th	0551	0.3	9	28 F	0115	4.3	131	13 Su	0137	4.7	143	28 M	0230	4.4	134
	1110	4.6	140		1245	5.6	171		1221	5.4	165		0720	1.0	30		0740	0.6	18		0846	1.4	43
	1718	1.0	30		1852	0.7	21		1842	1.2	37		1400	5.3	162		1407	5.9	180		1505	5.2	158
	2329	4.6	140										2022	1.4	43		2052	1.0	30		2129	1.4	43
14 Tu	0537	0.3	9	29 W	0052	4.6	140	14 F	0047	4.5	137	29 Sa	0209	4.2	128	14 M	0241	5.0	152	29 Tu	0321	4.5	137
	1159	4.8	146		0701	0.4	12		0647	0.4	12		0823	1.1	34		0852	0.4	12		0941	1.3	40
	1809	1.0	30		1339	5.5	168		1320	5.6	171		1452	5.2	158		1510	6.1	186		1553	5.3	162
					1957	1.0	30		1953	1.1	34		2121	1.4	43		2155	0.7	21		2213	1.2	37
15 W	0019	4.5	137	30 Th	0145	4.3	131	15 Sa	0147	4.5	137	30 Su	0302	4.2	128	15 Tu	0345	5.3	162	30 W	0409	4.8	146
	0622	0.2	6		0759	0.6	18		0752	0.3	9		0922	1.1	34		0958	0.1	3		1030	1.1	34
	1251	5.1	155		1432	5.4	165		1421	5.8	177		1543	5.3	162		1611	6.3	192		1638	5.5	168
	1909	1.1	34		2100	1.1	34		2105	0.9	27		2211	1.3	40		2250	0.3	9		2253	0.9	27
			31 F	0238	4.2	128				31 M	0355	4.3	131										
				0858	0.7	21					1												

Myrtle Beach (Springmaid Pier), South Carolina, 2009

Times and Heights of High and Low Waters

October				November				December																	
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height												
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm											
1 Th	0454	5.1	155	16 F	0525	6.4	195	1 Su	0540	6.0	183	16 M	0021	-0.1	-3										
	1114	0.9	27		1143	0.0	0		1211	0.5	15		0641	6.4	195	1 Tu	0556	6.2	189						
	1720	5.6	171		1741	6.0	183		1804	5.4	165		1303	0.1	3		1233	0.1	3	16 W	0705	5.8	177		
	2331	0.7	21		1829	5.9	180		1846	5.4	165		1852	5.1	155		1822	5.1	155		1326	0.1	3		
															1914		4.5	137							
2 F	0535	5.4	165	17 Sa	0001	-0.1	-3	2 M	0010	0.1	3	17 Tu	0103	0.0	0	2 W	0028	-0.5	-15	17 Th	0124	0.0	0		
	1156	0.7	21		0615	6.7	204		0621	6.3	192		0724	6.3	192		0644	6.4	195		0744	5.7	174		
	1759	5.6	171		1233	-0.1	-3		1255	0.4	12		1346	0.2	6		1322	-0.1	-3		1411	-0.2	-6	1405	0.2	6
			1829		5.9	180	1846		5.4	165	1934		5.0	152	1910		5.2	158	1910		5.2	158	1953	4.4	134
3 Sa	0008	0.5	15	18 Su	0045	-0.1	-3	3 Tu	0053	-0.1	-3	18 W	0145	0.1	3	3 Th	0118	-0.6	-18	18 F	0203	0.1	3		
	0613	5.7	174		0701	6.8	207		0703	6.5	198		0805	6.1	186		0732	6.5	198		0822	5.5	168		
	1238	0.6	18		1321	0.0	0		1340	0.3	9		1427	0.4	12		1411	-0.2	-6		1443	0.2	6		
	1836	5.7	174		1913	5.8	177		1928	5.4	165		2015	4.8	146		2015	4.8	146		1959	5.2	158	2031	4.3	131
4 Su	0045	0.3	9	19 M	0128	-0.1	-3	4 W	0137	-0.1	-3	19 Th	0226	0.3	9	4 F	0209	-0.6	-18	19 Sa	0242	0.2	6		
	0650	6.0	183		0745	6.7	204		0747	6.5	198		0846	5.8	177		0822	6.5	198		0901	5.3	162		
	1319	0.5	15		1407	0.1	3		1427	0.3	9		1508	0.5	15		1502	-0.2	-6		1520	0.3	9		
	1913	5.6	171		1957	5.5	168		2014	5.3	162		2056	4.6	140		2053	5.1	155		2110	4.2	128		
5 M	0124	0.2	6	20 Tu	0210	0.1	3	5 Th	0225	-0.1	-3	20 F	0306	0.5	15	5 Sa	0302	-0.6	-18	20 Su	0321	0.4	12		
	0728	6.2	189		0829	6.5	198		0835	6.5	198		0930	5.5	168		0916	6.3	192		0941	5.1	155		
	1401	0.6	18		1451	0.4	12		1515	0.4	12		1548	0.7	21		1553	-0.1	-3		1558	0.4	12		
	1951	5.5	168		2040	5.2	158		2105	5.1	155		2141	4.4	134		2151	5.0	152		2152	4.1	125		
6 Tu	0203	0.2	6	21 W	0252	0.4	12	6 F	0315	0.0	0	21 Sa	0348	0.7	21	6 Su	0357	-0.4	-12	21 M	0401	0.5	15		
	0808	6.2	189		0914	6.1	186		0928	6.3	192		1016	5.3	162		1014	6.0	183		1023	4.8	146		
	1444	0.6	18		1534	0.7	21		1607	0.5	15		1630	0.9	27		1646	-0.1	-3		1635	0.5	15		
	2033	5.3	162		2125	4.9	149		2203	5.0	152		2230	4.2	128		2255	5.0	152		2238	4.1	125		
7 W	0245	0.2	6	22 Th	0335	0.7	21	7 Sa	0408	0.1	3	22 Su	0431	1.0	30	7 M	0455	-0.2	-6	22 Tu	0443	0.7	21		
	0852	6.2	189		1002	5.8	177		1028	6.1	186		1105	5.0	152		1115	5.7	174		1108	4.6	140		
	1529	0.7	21		1618	1.0	30		1702	0.6	18		1713	1.0	30		1742	0.0	0		1714	0.5	15		
	2119	5.1	155		2215	4.6	140		2308	4.9	149		2323	4.1	125						2326	4.1	125		
8 Th	0330	0.3	9	23 F	0418	1.0	30	8 Su	0506	0.3	9	23 M	0517	1.2	37	8 Tu	0000	5.1	155	23 W	0528	0.9	27		
	0942	6.1	186		1054	5.5	168		1132	5.9	180		1155	4.9	149		0558	0.1	3		1154	4.4	134		
	1618	0.9	27		1703	1.2	37		1802	0.7	21		1759	1.1	34		1217	5.4	165		1756	0.5	15		
	2214	4.9	149		2309	4.4	134										1841	0.1	3						
9 F	0420	0.4	12	24 Sa	0504	1.2	37	9 M	0016	5.0	152	24 Tu	0015	4.1	125	9 W	0103	5.2	158	24 Th	0015	4.2	128		
	1041	6.0	183		1148	5.2	158		0610	0.5	15		0609	1.3	40		0707	0.3	9		0620	1.0	30		
	1713	1.0	30		1752	1.4	43		1236	5.8	177		1244	4.7	143		1316	5.2	158		1241	4.3	131		
	2317	4.8	146						1907	0.6	18		1847	1.1	34		1942	0.1	3		1842	0.5	15		
10 Sa	0515	0.6	18	25 Su	0006	4.3	131	10 Tu	0120	5.2	158	25 W	0106	4.3	131	10 Th	0202	5.4	165	25 F	0105	4.4	134		
	1145	5.9	180		0556	1.4	43		0722	0.6	18		0709	1.4	43		0818	0.4	12		0720	1.1	34		
	1815	1.1	34		1242	5.1	155		1337	5.7	174		1331	4.7	143		1414	4.9	149		1329	4.2	128		
					1846	1.5	46		2013	0.5	15		1938	1.0	30		2043	0.1	3		1934	0.4	12		
11 Su	0024	4.8	146	26 M	0100	4.3	131	11 W	0221	5.4	165	26 Th	0154	4.5	137	11 F	0300	5.5	168	26 Sa	0156	4.6	140		
	0619	0.7	21		0656	1.5	46		0834	0.5	15		0813	1.3	40		0925	0.4	12		0826	1.0	30		
	1251	5.9	180		1332	5.1	155		1436	5.5	168		1418	4.6	140		1511	4.7	143		1421	4.1	125		
	1926	1.1	34		1943	1.5	46		2112	0.3	9		2029	0.8	24		2138	0.0	0		2030	0.3	9		
12 M	0130	5.0	152	27 Tu	0151	4.4	134	12 Th	0319	5.7	174	27 F	0242	4.8	146	12 Sa	0356	5.7	174	27 Su	0249	4.9	149		
	0732	0.7	21		0801	1.5	46		0940	0.4	12		0913	1.1	34		1024	0.3	9		0930	0.8	24		
	1354	5.9	180		1420	5.0	152		1533	5.4	165		1506	4.6	140		1607	4.6	140		1515	4.2	128		
	2036	0.9	27		2037	1.3	40		2204	0.1	3		2118	0.5	15		2229	0.0	0		2127	0.0	0		
13 Tu	0233	5.3	162	28 W	0240	4.6	140	13 F	0415	6.0	183	28 Sa	0331	5.1	155	13 Su	0449	5.8	177	28 M	0344	5.3	162		
	0844	0.6	18		0901	1.4	43		1038	0.2	6		1007	0.9	27		1115	0.2	6		1027	0.5	15		
	1455	6.0	183		1507	5.1	155		1628	5.4	165		1555	4.7	143		1700	4.5	137		1612	4.4	134		
	2136	0.6	18		2124	1.1	34		2252	0.0	0		2206	0.3	9		2316	-0.1	-3		2222	-0.3	-9		
14 W	0334	5.6	171	29 Th	0328	4.9	149	14 Sa	0508	6.3	192	29 Su	0419	5.5	168	14 M	0538	5.8	177	29 Tu	0440	5.6	171		
	0950	0.3	9		0955	1.2	37		1130	0.1	3		1057	0.6	18		1202	0.2	6		1121	0.1	3		
	1554	6.0	183		1553	5.1	155		1720	5.3	162		1645	4.8	146		1749	4.5	137		1708	4.6	140		
	2229	0.3	9		2207	0.8	24		2337	-0.1	-3		2253	0.0	0						2316	-0.6	-18		
15 Th	0432	6.0	183	30 F	0413	5.2	158	15 Su	0556	6.4	195	30 M	0508	5.9	180	15 Tu	0001	-0.1	-3	30 W	0535	6.0	183		
	1049	0.1	3		1042	0.9	27		1218	0.1	3		1145	0.3	9		0623	5.8	177		1213	-0.2	-6		
	1649	6.0	183		1638	5.2	158		1808	5.2	158		1734	4.9	149		1245	0.1	3		1802	4.8	146		
	2316	0.0	0		2248	0.5	15																		

Charleston, South Carolina, 2009

Times and Heights of High and Low Waters

January				February				March																									
Time		Height		Time		Height		Time		Height		Time		Height																			
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm																			
1 Th	0420	0.4	12		16 F	0548	-0.1	-3		1 Su	0540	0.3	9		16 M	0046	5.0	152		1 Su	0436	0.0	0		16 M	0537	0.5	15					
	1036	5.1	155			1152	5.1	155			1132	4.6	140			0705	0.6	18			1028	4.8	146			1123	4.5	137					
	1700	0.2	6			1810	-0.2	-6			1757	-0.2	-6			1250	4.2	128			1646	-0.3	-9			1729	0.5	15		2251	5.6	171	
	2252	4.7	143																														
2 F	0506	0.5	15		17 Sa	0036	5.2	158		2 M	0004	5.2	158		17 Tu	0141	4.8	146		2 M	0527	0.2	6		17 Tu	0002	5.1	155					
	1115	4.9	149			0645	0.2	6			0639	0.5	15			0802	0.8	24			1116	4.6	140			0626	0.8	24					
	1742	0.2	6			1241	4.7	143			1228	4.4	134			1344	4.0	122			1735	-0.2	-6			1210	4.3	131					
	2339	4.8	146			1859	0.1	3			1853	-0.1	-3			1959	0.7	21			2345	5.5	168			1816	0.8	24					
3 Sa	0559	0.6	18		18 Su	0131	5.1	155		3 Tu	0106	5.3	162		18 W	0240	4.7	143		3 Tu	0626	0.4	12		18 W	0055	4.9	149					
	1201	4.7	143			0743	0.5	15			0747	0.5	15			0901	0.9	27			1213	4.5	137			0719	1.0	30					
	1829	0.1	3			1333	4.4	134			1333	4.3	131			1443	4.0	122			1833	-0.1	-3			1403	4.1	125					
						1951	0.3	9			1956	-0.1	-3			2059	0.7	21								1910	1.0	30					
4 Su	0033	5.0	152		19 M	0227	5.0	152		4 W	0216	5.3	162		19 Th	0339	4.7	143		4 W	0050	5.4	165		19 Th	0153	4.7	143					
	0700	0.7	21			0843	0.7	21			0858	0.5	15			0958	0.9	27			0732	0.5	15			0816	1.1	34					
	1257	4.6	140			1427	4.2	128			1445	4.3	131			1542	4.0	122			1321	4.4	134			1403	4.1	125					
	1923	0.1	3			2046	0.4	12			2104	-0.3	-9			2158	0.6	18			1939	0.0	0			2013	1.0	30					
5 M	0134	5.2	158		20 Tu	0323	5.0	152		5 Th	0330	5.5	168		20 F	0435	4.9	149		5 Th	0202	5.4	165		20 F	0254	4.7	143					
	0809	0.6	18			0941	0.7	21			1008	0.3	9			1050	0.7	21			0842	0.5	15			0913	1.1	34					
	1359	4.5	137			1523	4.1	125			1557	4.5	137			1638	4.2	128			1436	4.4	134			1504	4.2	128					
	2022	-0.1	-3			2140	0.4	12			2212	-0.5	-15			2252	0.5	15			2050	-0.1	-3			2116	1.0	30					
6 Tu	0240	5.4	165		21 W	0417	5.0	152		6 F	0439	5.8	177		21 Sa	0526	5.0	152		6 F	0317	5.5	168		21 Sa	0352	4.8	146					
	0919	0.5	15			1036	0.7	21			1111	0.0	0			1137	0.5	15			0950	0.3	9			1006	0.9	27					
	1506	4.5	137			1617	4.1	125			1705	4.7	143			1729	4.4	134			1549	4.7	143			1602	4.4	134					
	2125	-0.3	-9			2233	0.3	9			2315	-0.8	-24			2340	0.3	9			2200	-0.3	-9			2215	0.8	24					
7 W	0347	5.7	174		22 Th	0509	5.1	155		7 Sa	0543	6.0	183		22 Su	0611	5.2	158		7 Sa	0426	5.7	174		22 Su	0444	4.9	149					
	1026	0.2	6			1125	0.5	15			1207	-0.4	-12			1219	0.3	9			1052	0.0	0			1054	0.6	18					
	1614	4.6	140			1709	4.2	128			1806	5.1	155			1815	4.7	143			1655	5.0	152			1654	4.7	143					
	2228	-0.6	-18			2322	0.2	6																									
8 Th	0453	6.0	183		23 F	0557	5.2	158		8 Su	0014	-1.1	-34		23 M	0025	0.1	3		8 Su	0527	5.9	180		23 M	0531	5.1	155					
	1128	-0.1	-3			1210	0.4	12			0640	6.2	189			0652	5.3	162			1147	-0.3	-9			1138	0.4	12					
	1718	4.8	146			1757	4.4	134			1300	-0.7	-21			1258	0.1	3			1754	5.4	165			1742	5.0	152					
	2329	-0.9	-27								1903	5.4	165			1857	4.9	149								2355	0.3	9					
9 F	0555	6.3	192		24 Sa	0007	0.1	3		9 M	0109	-1.3	-40		24 Tu	0106	-0.1	-3		9 M	0002	-0.8	-24		24 Tu	0614	5.2	158					
	1225	-0.4	-12			0641	5.4	165			0731	6.3	192			0730	5.4	165			0620	6.0	183			1218	0.1	3					
	1818	5.0	152			1252	0.2	6			1348	-0.9	-27			1334	-0.1	-3			1237	-0.6	-18			1825	5.3	162					
						1842	4.5	137			1955	5.7	174			1936	5.1	155			1848	5.7	174										
10 Sa	0027	-1.1	-34		25 Su	0049	0.0	0		10 Tu	0202	-1.3	-40		25 W	0146	-0.2	-6		10 Tu	0055	-0.9	-27		25 W	0040	0.1	3					
	0653	6.5	198			0721	5.4	165			0819	6.2	189			0805	5.4	165			0709	6.0	183			0655	5.3	162					
	1319	-0.6	-18			1331	0.1	3			1435	-1.0	-30			1410	-0.3	-9			1323	-0.7	-21			1257	-0.2	-6					
	1916	5.3	162			1923	4.6	140			2045	5.8	177			2012	5.3	162			1937	6.0	183			1906	5.6	171					
11 Su	0122	-1.3	-40		26 M	0129	-0.1	-3		11 W	0252	-1.2	-37		26 Th	0226	-0.2	-6		11 W	0146	-1.0	-30		26 Th	0124	-0.1	-3					
	0748	6.6	201			0759	5.5	168			0905	6.0	183			0839	5.3	162			0755	5.9	180			0733	5.3	162					
	1410	-0.8	-24			1407	0.0	0			1519	-0.9	-27			1446	-0.4	-12			1407	-0.8	-24			1336	-0.3	-9					
	2011	5.4	165			2001	4.7	143			2133	5.8	177			2047	5.4	165			2023	6.1	186			1945	5.9	180					
12 M	0216	-1.3	-40		27 Tu	0206	-0.1	-3		12 Th	0342	-0.9	-27		27 F	0307	-0.2	-6		12 Th	0234	-0.8	-24		27 F	0207	-0.2	-6					
	0840	6.5	198			0833	5.4	165			0949	5.7	174			0912	5.2	158			0837	5.7	174			0811	5.3	162					
	1459	-0.9	-27			1442	-0.1	-3			1603	-0.7	-21			1522	-0.4	-12			1448	-0.7	-21			1415	-0.4	-12					
	2104	5.5	168			2037	4.8	146			2220	5.7	174			2124	5.6	171			2107	6.1	186			2024	6.1	186					
13 Tu	0309	-1.2	-37		28 W	0244	-0.1	-3		13 F	0430	-0.5	-15		28 Sa	0349	-0.1	-3		13 F	0320	-0.6	-18		28 Sa	0251	-0.2	-6					
	0929	6.3	192			0905	5.3	162			1031	5.3	162			0948	5.0	152			0919	5.4	165			0850	5.2	158					
	1547	-0.8	-24			1516	-0.2	-6			1645	-0.4	-12			1602	-0.4	-12			1529	-0.4	-12			1456	-0.5	-15					
	2157	5.5	168			2111	4.9	149			2307	5.5	168			2204	5.6	171			2149	5.9	180			2105	6.2	189					
14 W	0401	-0.9	-27		29 Th	0322	-0.1	-3		14 Sa	0520	-0.1	-3		14 Sa	0406	-0.3</																

Charleston, South Carolina, 2009

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 W	0617	0.4	12		16 Th	0013	5.0	152		1 F	0037	5.8	177		16 Sa	0021	5.0	152		1 M	0216	5.3	162		16 Tu	0111	4.8	146											
	1212	4.6	140			0638	1.0	30			0707	0.2	6			0645	0.8	24			0837	-0.1	-3			0735	0.3	9											
	1822	0.0	0			1228	4.2	128			1319	4.9	149			1246	4.4	134			1507	5.6	171			1350	5.1	155		2009	1.0	30							
2 Th	0043	5.7	174		17 F	0106	4.9	149		2 Sa	0140	5.6	171		17 Su	0111	4.9	149		2 Tu	0310	5.1	155		17 W	0205	4.7	143		17 Th	0826	0.1	-3		17 F	0826	0.1	-3	
	0721	0.5	15			0729	1.1	34			0808	0.2	6			0733	0.7	21			0930	-0.1	-3			0826	0.1	-3			1445	5.4	165						
	1321	4.6	140			1324	4.2	128			1425	5.1	155			1340	4.6	140			1602	5.8	177			1445	5.4	165			2114	0.8	24						
3 F	0153	5.6	171		18 Sa	0203	4.8	146		3 Su	0242	5.5	168		18 M	0203	4.8	146		3 W	0403	4.9	149		18 Th	0302	4.6	140		18 F	0921	-0.1	-3		18 Th	1542	5.7	174	
	0827	0.4	12			0823	1.0	30			0906	0.1	3			0822	0.6	18			1021	-0.1	-3			0921	-0.1	-3			2217	0.6	18						
	1433	4.7	143			1423	4.4	134			1528	5.4	165			1435	4.8	146			1653	5.9	180			1542	5.7	174			2217	0.6	18						
4 Sa	0303	5.5	168		19 Su	0259	4.8	146		4 M	0341	5.4	165		19 Tu	0256	4.8	146		4 Th	0454	4.8	146		19 F	1017	-0.3	-9		19 F	1640	6.1	186						
	0931	0.3	9			0915	0.9	27			1001	-0.1	-3			0913	0.4	12			1108	-0.1	-3			1017	-0.3	-9			2317	0.3	9						
	1541	5.0	152			1520	4.6	140			1625	5.7	174			1528	5.2	158			1741	6.0	183			1640	6.1	186			2317	0.3	9						
5 Su	0407	5.6	171		20 M	0353	4.9	149		5 Tu	0435	5.3	162		20 W	0350	4.8	146		5 F	0542	4.7	143		20 Sa	1113	-0.5	-15		20 Sa	1737	6.4	195						
	1029	0.0	0			1004	0.6	18			1052	-0.2	-6			1003	0.1	3			1154	0.0	0			1113	-0.5	-15			1737	6.4	195						
	1643	5.4	165			1613	5.0	152			1718	6.0	183			1621	5.6	171			1826	6.0	183			1113	-0.5	-15			1737	6.4	195						
6 M	0504	5.6	171		21 Tu	0442	5.0	152		6 W	0526	5.2	158		21 Th	0443	4.8	146		6 Sa	0045	0.2	6		21 Su	0600	4.9	149		21 Su	1210	-0.7	-21						
	1121	-0.2	-6			1051	0.3	9			1139	-0.3	-9			1053	-0.1	-3			0628	4.7	143			0600	4.9	149			1210	-0.7	-21						
	1738	5.8	177			1703	5.3	162			1806	6.1	186			1712	6.0	183			1237	0.0	0			1210	-0.7	-21			1835	6.6	201						
7 Tu	0555	5.7	174		22 W	0530	5.1	155		7 Th	0020	-0.1	-3		22 F	0535	4.9	149		7 Su	0130	0.2	6		22 M	0659	5.0	152		22 M	1306	-0.9	-27						
	1209	-0.4	-12			1135	0.0	0			1224	-0.2	-6			1143	-0.4	-12			1319	0.1	3			0659	5.0	152			1306	-0.9	-27						
	1829	6.1	186			1749	5.7	174			1851	6.2	189			1803	6.3	192			1950	5.9	180			1306	-0.9	-27			1931	6.8	207						
8 W	0039	-0.5	-15		23 Th	0012	0.2	6		8 F	0108	-0.1	-3		23 Sa	0037	0.0	0		8 M	0211	0.2	6		23 Tu	0203	-0.4	-12		23 Tu	0757	5.1	155						
	0643	5.6	171			0615	5.1	155			0657	5.0	152			0627	5.0	152			0755	4.6	140			0757	5.1	155			0757	5.1	155						
	1254	-0.5	-15			1219	-0.2	-6			1306	-0.2	-6			1233	-0.6	-18			1359	0.3	9			1401	-0.9	-27			1401	-0.9	-27						
9 Th	0128	-0.5	-15		24 F	0100	0.0	0		9 Sa	0153	-0.1	-3		24 Su	0128	-0.2	-6		9 Tu	0252	0.3	9		24 W	0255	-0.5	-15		24 W	0855	5.2	158						
	0727	5.5	168			0700	5.2	158			0740	4.9	149			0720	5.0	152			0836	4.5	137			0855	5.2	158			0855	5.2	158						
	1336	-0.5	-15			1303	-0.4	-12			1346	0.0	0			1324	-0.7	-21			1437	0.4	12			1457	-0.9	-27			1457	-0.9	-27						
10 F	0214	-0.4	-12		25 Sa	0148	-0.2	-6		10 Su	0235	0.1	3		25 M	0220	-0.3	-9		10 W	0330	0.4	12		25 Th	0347	-0.6	-18		25 Th	1553	-0.7	-21						
	0809	5.3	162			0744	5.2	158			1425	0.2	6			1416	-0.7	-21			1515	0.5	15			1553	-0.7	-21			1553	-0.7	-21						
	1417	-0.3	-9			1348	-0.5	-15			2053	6.0	183			2039	6.7	204			2146	5.5	168			2215	6.4	195			2215	6.4	195						
11 Sa	0258	-0.2	-6		26 Su	0236	-0.3	-9		11 M	0316	0.2	6		26 Tu	0312	-0.4	-12		11 Th	0408	0.5	15		26 F	0438	-0.5	-15		26 F	1051	5.4	165						
	0849	5.1	155			0831	5.1	155			0901	4.7	143			0908	5.1	155			0957	4.4	134			1051	5.4	165			1051	5.4	165						
	1456	-0.1	-3			1434	-0.6	-18			1503	0.4	12			1510	-0.7	-21			1553	0.7	21			1650	-0.4	-12			1650	-0.4	-12						
12 Su	0341	0.0	0		27 M	0325	-0.2	-6		12 Tu	0356	0.4	12		27 W	0404	-0.3	-9		12 F	0446	0.5	15		27 Sa	0529	-0.5	-15		27 Sa	1150	5.5	168						
	0929	4.9	149			0919	5.1	155			0941	4.5	137			1005	5.1	155			1038	4.4	134			1150	5.5	168			1150	5.5	168						
	1533	0.2	6			1523	-0.5	-15			1541	0.6	18			1605	-0.5	-15			1634	0.8	24			1650	-0.4	-12			1650	-0.4	-12						
13 M	0423	0.3	9		28 Tu	0416	-0.1	-3		13 W	0436	0.6	18		28 Th	0457	-0.3	-9		13 Sa	0524	0.5	15		28 Su	0000	5.8	177		28 Su	0621	-0.4	-12						
	1009	4.7	143			1012	5.0	152			1023	4.4	134			1105	5.1	155			1121	4.5	137			0621	-0.4	-12			0621	-0.4	-12						
	1611	0.5	15			1616	-0.4	-12			1620	0.8	24			1703	-0.3	-9			1719	0.9	27			1248	5.5	168			1248	5.5	168						
14 Tu	0505	0.6	18		29 W	0510	0.0	0		14 Th	0517	0.7	21		29 F	0552	-0.2	-6		14 Su	0604	0.5	15		29 M	0053	5.4	165		29 M	0713	-0.2	-6						
	1051	4.5	137			1109	4.9	149			1107	4.3	131			1206	5.2	158			1208	4.6	140			0053	5.4	165			0713	-0.2	-6						
	1651	0.7	21			1713	-0.2	-6			1702	0.9	27			1804	-0.1	-3			1809	1.0	30			1345	5.6	171			1345	5.6	171						
15 W	0550	0.8	24		30 Th	0607	0.2	6		15 F	0600	0.8	24		30 Sa	0023	5.9	180		15 M	0023	4.9	149		30 Tu	0145	5.0	152		30 Tu									

Savannah River Entrance, Georgia, 2009

Times and Heights of High and Low Waters

January				February				March															
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height										
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm									
1 Th	0442	0.5	15			1 Su	0554	0.4	12			1 Su	0451	0.0	0								
	1049	6.6	201	16 F	0601		-0.1	-3	16 M	0713	0.9		27	16 M	1140	6.1	186						
	1718	0.3	9		1204		6.8	207		1307	5.8		177		1708	-0.3	-9	1742	0.7	21			
	2311	6.2	189		1820		-0.2	-6		1913	0.8		24		2306	7.3	223						
2 F	0525	0.6	18	17 Sa	0044	6.8	207	2 M	0023	6.8	207	17 Tu	0147	6.3	192	2 M	0540	0.2	6	17 Tu	0012	6.6	201
	1132	6.4	195		0656	0.4	12		0651	0.6	18		0812	1.2	37		1133	6.2	189		0632	1.1	34
	1800	0.3	9		1255	6.4	195		1248	6.0	183		1359	5.5	168		1756	-0.1	-3		1230	5.8	177
					1909	0.2	6		1913	0.1	3		2010	1.1	34						1827	1.1	34
3 Sa	0000	6.4	195	18 Su	0136	6.6	201	3 Tu	0123	6.9	210	18 W	0242	6.1	186	3 Tu	0003	7.2	219	18 W	0105	6.3	192
	0615	0.8	24		0755	0.8	24		0758	0.8	24		0914	1.3	40		0636	0.5	15		0725	1.4	43
	1222	6.2	189		1345	6.0	183		1351	5.8	177		1454	5.5	168		1232	6.0	183		1323	5.6	171
	1848	0.3	9		2003	0.5	15		2018	0.1	3		2113	1.1	34		1853	0.1	3		1921	1.4	43
4 Su	0054	6.6	201	19 M	0229	6.5	198	4 W	0228	7.0	213	19 Th	0340	6.1	186	4 W	0106	7.1	216	19 Th	0201	6.1	186
	0714	0.9	27		0857	1.0	30		0912	0.7	21		1013	1.2	37		0742	0.8	24		0826	1.5	46
	1317	6.1	186		1437	5.7	174		1457	5.9	180		1550	5.5	168		1337	5.9	180		1418	5.6	171
	1943	0.3	9		2100	0.7	21		2127	-0.1	-3		2214	1.0	30		2001	0.2	6		2026	1.5	46
5 M	0151	6.8	207	20 Tu	0323	6.4	195	5 Th	0335	7.2	219	20 F	0438	6.2	189	5 Th	0213	7.1	216	20 F	0258	6.1	186
	0822	0.9	27		0957	1.0	30		1022	0.4	12		1105	1.0	30		0856	0.8	24		0926	1.5	46
	1416	6.0	183		1531	5.6	171		1606	6.0	183		1647	5.7	174		1446	6.0	183		1514	5.7	174
	2045	0.1	3		2156	0.7	21		2235	-0.4	-12		2308	0.7	21		2113	0.1	3		2132	1.4	43
6 Tu	0252	7.1	216	21 W	0418	6.4	195	6 F	0443	7.5	229	21 Sa	0531	6.4	195	6 F	0321	7.2	219	21 Sa	0356	6.2	189
	0933	0.7	21		1051	0.9	27		1125	0.0	0		1152	0.7	21		1005	0.5	15		1021	1.2	37
	1518	6.0	183		1625	5.6	171		1713	6.3	192		1739	6.0	183		1555	6.2	189		1610	5.9	180
	2149	-0.1	-3		2249	0.6	18		2337	-0.8	-24		2357	0.5	15		2222	-0.2	-6		2231	1.1	34
7 W	0355	7.4	226	22 Th	0512	6.5	198	7 Sa	0548	7.8	238	22 Su	0619	6.7	204	7 Sa	0429	7.3	223	22 Su	0450	6.4	195
	1040	0.4	12		1140	0.8	24		1223	-0.4	-12		1235	0.4	12		1107	0.1	3		1110	0.9	27
	1623	6.2	189		1719	5.7	174		1815	6.8	207		1826	6.3	192		1701	6.6	201		1704	6.2	189
	2251	-0.5	-15		2338	0.5	15										2325	-0.5	-15		2323	0.8	24
8 Th	0459	7.7	235	23 F	0602	6.7	204	8 Su	0036	-1.2	-37	23 M	0042	0.2	6	8 Su	0531	7.6	232	23 M	0540	6.6	201
	1142	0.0	0		1225	0.6	18		0645	8.1	247		0701	6.9	210		1203	-0.3	-9		1155	0.5	15
	1727	6.4	195		1808	5.9	180		1316	-0.8	-24		1315	0.1	3		1802	7.1	216		1752	6.7	204
	2351	-0.9	-27						1911	7.2	219		1908	6.6	201								
9 F	0601	8.1	247	24 Sa	0024	0.3	9	9 M	0131	-1.4	-43	24 Tu	0125	0.0	0	9 M	0022	-0.9	-27	24 Tu	0012	0.5	15
	1240	-0.4	-12		0648	6.9	210		0737	8.2	250		0738	7.0	213		0627	7.8	238		0624	6.8	207
	1828	6.7	204		1308	0.3	9		1406	-1.1	-34		1354	-0.2	-6		1254	-0.7	-21		1237	0.1	3
					1853	6.1	186		2003	7.5	229		1946	6.8	207		1856	7.5	229		1836	7.1	216
10 Sa	0049	-1.2	-37	25 Su	0108	0.1	3	10 Tu	0223	-1.5	-46	25 W	0206	-0.2	-6	10 Tu	0116	-1.1	-34	25 W	0057	0.1	3
	0659	8.4	256		0729	7.0	213		0826	8.2	250		0813	7.1	216		0717	7.9	241		0704	7.0	213
	1335	-0.7	-21		1348	0.1	3		1452	-1.2	-37		1431	-0.4	-12		1341	-0.9	-27		1318	-0.2	-6
	1924	7.0	213		1934	6.3	192		2052	7.6	232		2022	7.1	216		1944	7.8	238		1916	7.4	226
11 Su	0145	-1.5	-46	26 M	0149	0.0	0	11 W	0312	-1.4	-43	26 Th	0246	-0.3	-9	11 W	0206	-1.1	-34	26 Th	0142	-0.1	-3
	0753	8.5	259		0806	7.1	216		0911	7.9	241		0847	7.0	213		0802	7.8	238		0742	7.0	213
	1427	-1.0	-30		1426	0.0	0		1536	-1.1	-34		1508	-0.5	-15		1425	-1.0	-30		1359	-0.4	-12
	2018	7.2	219		2012	6.4	195		2140	7.6	232		2058	7.2	219		2029	7.9	241		1954	7.8	238
12 M	0238	-1.6	-49	27 Tu	0228	-0.1	-3	12 Th	0400	-1.1	-34	27 F	0326	-0.3	-9	12 Th	0253	-1.0	-30	27 F	0225	-0.3	-9
	0845	8.5	259		0840	7.0	213		0957	7.5	229		0921	6.9	210		0845	7.6	232		0820	7.0	213
	1516	-1.1	-34		1502	-0.2	-6		1618	-0.9	-27		1546	-0.5	-15		1507	-0.8	-24		1439	-0.5	-15
	2111	7.3	223		2048	6.5	198		2227	7.4	226		2135	7.3	223		2112	7.9	241		2033	7.9	241
13 Tu	0330	-1.4	-43	28 W	0306	-0.1	-3	13 F	0446	-0.6	-18	28 Sa	0408	-0.2	-6	13 F	0338	-0.8	-24	28 Sa	0309	-0.4	-12
	0935	8.2	250		0912	6.9	210		1042	7.0	213		0958	6.7	204		0927	7.2	219		0859	6.9	210
	1603	-1.1	-34		1537	-0.2	-6		1659	-0.5	-15		1625	-0.4	-12		1546	-0.5	-15		1521	-0.5	-15
	2204	7.3	223		2123	6.6	201		2315	7.1	216		2218	7.4	226		2154	7.6	232		2114	8.0	244
14 W	0420	-1.1	-34	29 Th	0344	-0.1	-3	14 Sa	0532	-0.1	-3	14 Sa	0421	-0.4	-12	14 Sa	0421	-0.4	-12	29 Su	0353	-0.3	-9
	1025	7.8	238		0945	6.8	207		1128	6.6	201		1009	6.8	207		1009	6.8	207		0941	6.8	207
	1648	-0.9	-27		1613	-0.3	-9		1740	0.0	0		1624	-0.2	-6		1624	-0.2	-6		1604	-0.5	-15
	2258	7.1	216		2200	6.6	201						2238	7.3	223						2200	7.9	241
15 Th	0510	-0.7	-21	30 F	0424	0.0	0	15 Su	0004	6.8	207	15 Su	0503	0.1	3	15 Su	0503	0.1	3	30 M	0440	-0.1	-3
	1114	7.3	223		1021	6.6	201		0620	0.5	15		1053	6.4	195		1053	6.4	195		1028	6.6	201
	1734	-0.5	-15		1650	-0.2	-6		1217	6.1	186		1702	0.3	9		1702	0.3	9		1651	-0.3	-9
	2351	7.0	213		2241	6.7	204		1823	0.4	12		2323	6.9	210		2323	6.9	210		2252	7.8	238
			31 Sa	0506	0.2	6										31 Tu	0530	0.2	6				
				1102	6.4	195																	

Savannah River Entrance, Georgia, 2009

Times and Heights of High and Low Waters

April				May				June																
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height											
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm										
1 W	0627	0.5	15		16 Th	0026	6.4	195		1 F	0038	6.4	195		16 Tu	0132	6.2	189						
	1227	6.2	189			0644	1.4	43			0718	0.4	12			0854	0.0	0		0754	0.5	15		
	1842	0.2	6			1248	5.7	174			1328	6.6	201			1511	7.3	223		1406	6.7	204		
2 Th	0056	7.3	223		17 F	0119	6.2	189		2 Sa	0149	7.4	226		2 Tu	0318	6.8	207		17 W	0223	6.2	189	
	0731	0.7	21			0738	1.5	46			0822	0.4	12			0948	0.0	0			0849	0.4	12	
	1333	6.2	189			1342	5.8	177			1431	6.8	207			1605	7.4	226			1458	7.1	216	
3 F	1950	0.4	12		18 Sa	1939	1.6	49		3 Su	2048	0.4	12		3 W	2232	0.5	15		18 Th	2129	1.1	34	
	0202	7.2	219			0214	6.2	189			0249	7.2	219			0411	6.6	201			0318	6.2	189	
	0841	0.7	21			0836	1.4	43			0923	0.2	6			1039	0.0	0			0944	0.1	3	
4 Sa	1440	6.4	195		19 Su	1436	5.9	180		4 M	1531	7.1	216		4 Th	1656	7.6	232		19 F	1552	7.5	229	
	2102	0.3	9			2045	1.6	49			2154	0.3	9			2325	0.4	12			2231	0.8	24	
	0307	7.2	219			0307	6.2	189			0346	7.1	216			0503	6.5	198			0415	6.2	189	
5 Su	0947	0.4	12		20 M	0931	1.2	37		5 Tu	1019	0.0	0		5 F	1126	0.0	0		20 Sa	1041	-0.2	-6	
	1545	6.6	201			1530	6.2	189			1110	-0.1	-3			1212	0.1	3			1649	7.9	241	
	2210	0.1	3			2149	1.4	43			1223	7.7	235			1831	7.7	235			2331	0.4	12	
6 M	0410	7.3	223		21 Tu	0400	6.3	192		6 W	0442	7.0	213		6 Sa	0015	0.3	9		21 Su	0514	6.4	195	
	1045	0.1	3			1022	0.8	24			1110	-0.1	-3			0552	6.4	195			1137	-0.4	-12	
	1648	7.0	213			1622	6.6	201			1723	7.7	235			1212	0.1	3			1746	8.2	250	
7 Tu	2311	-0.2	-6		22 W	2246	1.1	34		7 Th	2348	0.0	0		7 Su	1831	7.7	235		22 M	0028	0.1	3	
	0509	7.4	226			0452	6.5	198			0534	7.0	213			0102	0.3	9			0612	6.6	201	
	1138	-0.2	-6			1110	0.5	15			1157	-0.2	-6			0639	6.3	192			1233	-0.7	-21	
8 W	1745	7.5	229		23 Th	1712	7.0	213		8 F	1812	7.9	241		8 M	1256	0.2	6		23 Tu	1842	8.5	259	
	0007	-0.4	-12			2338	0.7	21			0038	-0.1	-3			1913	7.7	235			0218	-0.5	-15	
	0603	7.4	226			0540	6.6	201			0622	6.9	210			2034	7.4	226			0804	6.9	210	
9 Th	1227	-0.4	-12		24 F	1156	0.1	3		9 Sa	1242	-0.2	-6		9 Tu	0227	0.3	9		24 W	1425	-1.0	-30	
	1836	7.8	238			1759	7.5	229			1856	8.0	244			0805	6.2	189			2031	8.7	265	
	0058	-0.6	-18			0028	0.3	9			0125	-0.1	-3			1419	0.4	12			2317	7.9	241	
10 F	0651	7.4	226		25 Sa	0626	6.8	207		10 Su	0707	6.8	207		10 Th	2034	7.4	226		25 F	0451	-0.7	-21	
	1312	-0.6	-18			1241	-0.2	-6			1325	-0.1	-3			0805	6.2	189			1059	7.1	216	
	1921	8.1	247			1843	7.9	241			1938	8.0	244			1419	0.4	12			1707	-0.5	-15	
11 Sa	0147	-0.6	-18		26 Su	0116	0.0	0		11 M	0210	-0.1	-3		11 Tu	2034	7.4	226		26 Th	2317	7.9	241	
	0735	7.4	226			0710	6.9	210			0249	6.7	204			0307	0.4	12			0421	0.6	18	
	1355	-0.5	-15			1326	-0.4	-12			1406	0.1	3			0846	6.2	189			1009	6.0	183	
12 Su	2004	8.1	247		27 M	1927	8.3	253		12 Tu	2017	7.8	238		12 W	2113	7.2	219		27 F	1614	0.9	27	
	0232	-0.5	-15			0204	-0.3	-9			0251	0.1	3			2313	6.6	201			2232	6.8	207	
	0817	7.2	219			0753	7.0	213			0830	6.5	198			0458	0.6	18			1009	6.0	183	
13 M	1436	-0.3	-9		28 Tu	1412	-0.6	-18		13 W	1445	0.3	9		13 Sa	1458	0.6	18		28 Su	1614	0.9	27	
	2044	8.0	244			2011	8.4	256			2056	7.6	232			2152	7.0	213			2221	8.3	253	
	0315	-0.3	-9			0252	-0.4	-12			0331	0.3	9			0345	0.5	15			0401	-0.8	-24	
14 Tu	0858	6.9	210		29 W	0838	6.9	210		14 Th	0911	6.4	195		14 Su	0927	6.1	186		29 M	1519	-1.0	-30	
	1515	-0.1	-3			1459	-0.6	-18			1523	0.5	15			1536	0.7	21			2125	8.6	262	
	2123	7.7	235			2057	8.5	259			2136	7.3	223			2152	7.0	213			2221	8.3	253	
15 W	0355	0.0	0		30 Th	0340	-0.4	-12		15 F	0409	0.5	15		15 M	0345	0.6	18		30 Tu	0451	-0.7	-21	
	0939	6.6	201			0926	6.8	207			0449	0.7	21			0458	0.6	18			0541	-0.6	-18	
	1552	0.3	9			1547	-0.6	-18			0495	6.2	189			1053	5.9	180			1159	7.2	219	
16 Th	2204	7.4	226		31 F	2148	8.3	253		16 Sa	2217	7.0	213		16 Su	1653	1.1	34		31 W	1804	-0.1	-3	
	0435	0.4	12			0429	-0.2	-6			0534	7.6	232			2313	6.6	201			2313	6.6	201	
	1021	6.3	192			1020	6.7	204			0658	-0.1	-3			0458	0.6	18			0541	-0.6	-18	
17 F	1629	0.6	18		1 Sa	1638	-0.4	-12		17 Su	1600	0.7	21		17 M	1653	1.1	34		1 Tu	1804	-0.1	-3	
	2247	7.0	213			2302	6.7	204			1626	-0.6	-18			2313	6.6	201			2313	6.6	201	
	0515	0.8	24			0447	0.7	21			2235	8.2	250			0458	0.6	18			0541	-0.6	-18	
18 Sa	1106	6.0	183		2 Su	1037	6.0	183		18 M	1037	6.0	183		18 Tu	1053	5.9	180		2 W	1159	7.2	219	
	1707	1.0	30			1639	1.0	30			1113	6.8	207			1653	1.1	34			1159	7.2	219	
	2334	6.7	204			2302	6.7	204			1722	-0.3	-9			2313	6.6	201			1804	-0.1	-3	
19 Su	0515	0.8	24		3 M	0527	0.9	27		19 Tu	0527	0.9	27		19 W	1653	1.1	34		3 Th	0012	7.5	229	
	1106	6.0	183			1124	5.9	180			0602	-0.2	-6			2313	6.6	201			0632	-0.4	-12	
	1707	1.0	30			1719	1.2	37			1216	6.8	207			0458	0.6	18			1257	7.2	219	
20 M	2334	6.7	204		4 Th	2349	6.5	198		20 F	2349	6.5	198		20 Sa	1826	1.3	40		4 Su	1903	0.3	9	
	0515	0.8	24			0521	0.0	0			1820	0.0	0			2357	6.4	195			0105	7.1	216	
	1106	6.0	183			1120	6.5	198			0602	-0.2	-6			0458	0.6	18			0726	-0.2	-6	
21 Tu	1707	1.0	30		5 M	1732	-0.1	-3		21 F	1719	1.2	37		21 Sa	1826	1.3	40		5 Tu	1352	7.3		

Savannah River Entrance, Georgia, 2009

Times and Heights of High and Low Waters

July				August				September															
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height										
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm									
1 W	0248	6.5	198	16 Th	0147	6.2	189	1 Sa	0401	6.1	186	16 Su	0326	6.4	195	1 Tu	0516	6.5	198	16 W	0523	7.6	232
	0915	0.2	6		0812	0.3	9		1027	0.8	24		0956	0.1	3		1135	1.0	30		1147	-0.2	-6
	1536	7.3	223		1424	7.3	223		1649	7.1	216		1606	8.0	244		1756	7.3	223		1750	8.5	259
	2206	0.8	24		2059	1.1	34		2320	1.1	34		2249	0.7	21								
2 Th	0340	6.2	189	17 F	0244	6.2	189	2 Su	0454	6.1	186	17 M	0432	6.7	204	2 W	0015	1.0	30	17 Th	0021	0.0	0
	1007	0.3	9		0913	0.1	3		1116	0.8	24		1100	-0.2	-6		0604	6.8	207		0621	8.0	244
	1627	7.3	223		1523	7.6	232		1739	7.2	219		1709	8.3	253		1220	0.9	27		1243	-0.4	-12
	2300	0.7	21		2205	0.9	27						2348	0.3	9		1838	7.5	229		1843	8.6	262
3 F	0432	6.1	186	18 Sa	0345	6.2	189	3 M	0006	0.9	27	18 Tu	0536	7.1	216	3 Th	0056	0.8	24	18 F	0111	-0.3	-9
	1056	0.4	12		1014	-0.1	-3		0544	6.2	189		1200	-0.5	-15		0648	7.0	213		0713	8.4	256
	1717	7.3	223		1624	7.9	241		1203	0.7	21		1809	8.5	259		1304	0.8	24		1337	-0.5	-15
	2349	0.7	21		2308	0.5	15		1826	7.3	223						1917	7.5	229		1932	8.5	259
4 Sa	0522	6.1	186	19 Su	0448	6.4	195	4 Tu	0050	0.8	24	19 W	0044	-0.1	-3	4 F	0135	0.6	18	19 Sa	0158	-0.4	-12
	1144	0.4	12		1115	-0.4	-12		0632	6.4	195		0636	7.5	229		0728	7.2	219		0803	8.5	259
	1805	7.4	226		1725	8.2	250		1247	0.6	18		1258	-0.8	-24		1346	0.7	21		1428	-0.4	-12
									1908	7.4	226		1904	8.7	265		1953	7.5	229		2019	8.3	253
5 Su	0036	0.6	18	20 M	0007	0.2	6	5 W	0131	0.6	18	20 Th	0136	-0.5	-15	5 Sa	0212	0.4	12	20 Su	0244	-0.4	-12
	0611	6.1	186		0551	6.7	204		0716	6.5	198		0732	7.8	238		0805	7.4	226		0850	8.5	259
	1229	0.4	12		1215	-0.7	-21		1330	0.6	18		1353	-0.9	-27		1427	0.7	21		1516	-0.2	-6
	1850	7.4	226		1825	8.5	259		1947	7.4	226		1955	8.7	265		2027	7.4	226		2104	7.9	241
6 M	0120	0.5	15	21 Tu	0104	-0.2	-6	6 Th	0210	0.5	15	21 F	0225	-0.7	-21	6 Su	0249	0.3	9	21 M	0327	-0.2	-6
	0657	6.2	189		0651	7.0	213		0756	6.6	201		0824	8.0	244		0840	7.5	229		0937	8.3	253
	1313	0.4	12		1313	-1.0	-30		1411	0.6	18		1447	-0.8	-24		1507	0.7	21		1603	0.2	6
	1932	7.4	226		1921	8.7	265		2023	7.4	226		2044	8.5	259		2101	7.2	219		2150	7.5	229
7 Tu	0201	0.5	15	22 W	0158	-0.6	-18	7 F	0247	0.4	12	22 Sa	0313	-0.7	-21	7 M	0326	0.3	9	22 Tu	0410	0.2	6
	0741	6.2	189		0748	7.2	219		0834	6.7	204		0916	8.1	247		0917	7.6	232		1025	8.0	244
	1354	0.5	15		1409	-1.1	-34		1450	0.6	18		1538	-0.6	-18		1548	0.8	24		1649	0.6	18
	2012	7.3	223		2015	8.7	265		2057	7.2	219		2133	8.2	250		2136	7.0	213		2237	7.1	216
8 W	0240	0.4	12	23 Th	0250	-0.8	-24	8 Sa	0322	0.3	9	23 Su	0358	-0.6	-18	8 Tu	0405	0.4	12	23 W	0452	0.6	18
	0822	6.2	189		0844	7.4	226		0911	6.8	207		1008	8.0	244		0957	7.7	235		1115	7.7	235
	1434	0.5	15		1504	-1.0	-30		1529	0.7	21		1627	-0.2	-6		1630	0.9	27		1736	1.1	34
	2050	7.2	219		2107	8.6	262		2131	7.0	213		2221	7.7	235		2217	6.8	207		2327	6.7	204
9 Th	0318	0.4	12	24 F	0339	-0.9	-27	9 Su	0357	0.3	9	24 M	0442	-0.3	-9	9 W	0446	0.4	12	24 Th	0535	1.1	34
	0901	6.2	189		0940	7.5	229		0948	6.8	207		1100	7.9	241		1044	7.7	235		1207	7.3	223
	1513	0.6	18		1557	-0.8	-24		1608	0.8	24		1717	0.3	9		1717	1.1	34		1825	1.6	49
	2126	7.1	216		2159	8.3	253		2205	6.8	207		2311	7.2	219		2306	6.6	201				
10 F	0353	0.4	12	25 Sa	0426	-0.8	-24	10 M	0434	0.3	9	25 Tu	0527	0.1	3	10 Th	0532	0.6	18	25 F	0019	6.5	198
	0941	6.2	189		1037	7.6	232		1028	6.9	210		1153	7.6	232		1138	7.6	232		0622	1.5	46
	1551	0.8	24		1649	-0.5	-15		1649	0.9	27		1808	0.8	24		1810	1.3	40		1301	7.1	216
	2202	6.9	210		2252	7.8	238		2244	6.6	201								1919		1.9	58	
11 Sa	0429	0.4	12	26 Su	0513	-0.6	-18	11 Tu	0512	0.4	12	26 W	0003	6.8	207	11 F	0003	6.5	198	26 Sa	0112	6.3	192
	1021	6.2	189		1133	7.5	229		1113	7.1	216		0613	0.6	18		0625	0.7	21		0716	1.7	52
	1630	0.9	27		1742	0.0	0		1734	1.1	34		1246	7.4	226		1239	7.7	235		1355	7.0	213
	2238	6.7	204		2344	7.4	226		2330	6.5	198		1902	1.3	40		1911	1.4	43		2017	2.0	61
12 Su	0505	0.4	12	27 M	0601	-0.3	-9	12 W	0556	0.4	12	27 Th	0054	6.5	198	12 Sa	0105	6.5	198	27 Su	0206	6.3	192
	1103	6.3	192		1228	7.4	226		1203	7.2	219		0703	1.0	30		0727	0.7	21		0816	1.8	55
	1711	1.0	30		1837	0.5	15		1826	1.2	37		1339	7.2	219		1343	7.7	235		1448	6.9	210
	2318	6.5	198										2000	1.6	49		2020	1.4	43		2114	1.9	58
13 M	0543	0.4	12	28 Tu	0036	6.9	210	13 Th	0023	6.3	192	28 F	0146	6.3	192	13 Su	0211	6.6	201	28 M	0259	6.4	195
	1149	6.5	198		0650	0.1	3		0646	0.5	15		0759	1.3	40		0836	0.7	21		0917	1.8	55
	1757	1.1	34		1321	7.3	223		1300	7.3	223		1431	7.0	213		1448	7.9	241		1541	7.0	213
					1936	0.9	27		1928	1.3	40		2100	1.7	52		2129	1.2	37		2206	1.7	52
14 Tu	0003	6.3	192	29 W	0127	6.6	201	14 F	0121	6.3	192	29 Sa	0238	6.2	189	14 M	0316	6.8	207	29 Tu	0352	6.6	201
	0627	0.4	12		0743	0.4	12		0745	0.5	15		0858	1.4	43		0944	0.4	12		1013	1.6	49
	1237	6.7	204		1413	7.2	219		1359	7.5	229		1525	7.0	213		1552	8.1	247		1631	7.1	216
	1851	1.2	37		2037	1.1	34		2036	1.3	40		2156	1.6	49		2232	0.8	24		2253	1.4	43
15 W	0053	6.2	189	30 Th	0218	6.3	192	15 Sa	0222	6.3	192	30 Su	0331	6.2	189	15 Tu	0421	7.1	216	30 W	0443	6.8	207
	0716	0.4	12		0838	0.7	21		0850	0.4	12		0955	1.3	40		1048	0.1	3		1104	1.4	43
	1329	7.0	213		1505	7.1	216		1502	7.7	235		1618	7.1	216		1653	8.3	253		1718	7.3	223
	1952	1.2	37		2136	1.2	37		2145	1.1	34		2247	1.5	46		2328	0.4	12		2336	1.1	34
			31 F	0309	6.1	186	31 M	0424	6.3	192													

Savannah River Entrance, Georgia, 2009

Times and Heights of High and Low Waters

October				November				December																					
Time		Height		Time		Height		Time		Height		Time		Height															
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm															
1 Th	0531	7.2	219		16 F	0604	8.3	253		1 Su	0020	0.4	12		16 M	0105	-0.1	-3		1 Tu	0035	-0.2	-6		16 W	0127	0.0	0	
	1151	1.1	34			1228	-0.1	-3			0623	8.0	244			0719	8.3	253			0641	8.3	253			0743	7.7	235	
	1802	7.4	226			1820	8.1	247			1253	0.7	21			1349	0.1	3			1319	0.1	3			1412	0.2	6	
2 F	0017	0.8	24		17 Sa	0045	-0.2	-6		2 M	0104	0.2	6		17 Tu	0149	0.1	3		2 W	0126	-0.5	-15		17 Th	0209	0.1	3	
	0615	7.5	229			0654	8.6	262			0706	8.3	253			0802	8.2	250			0730	8.5	259			0823	7.5	229	
	1236	0.9	27			1320	-0.1	-3			1340	0.5	15			1433	0.2	6			1409	-0.1	-3			1452	0.2	6	
3 Sa	0057	0.5	15		18 Su	0131	-0.2	-6		3 Tu	0149	0.0	0		18 W	0231	0.2	6		3 Th	0216	-0.7	-21		18 F	0248	0.2	6	
	0656	7.8	238			0740	8.7	265			0748	8.5	259			0843	8.0	244			0819	8.6	262			0902	7.4	226	
	1320	0.8	24			1408	-0.1	-3			1427	0.3	9			1515	0.4	12			1459	-0.2	-6			1530	0.3	9	
4 Su	0137	0.4	12		19 M	0215	-0.1	-3		4 W	0235	-0.1	-3		19 Th	0311	0.5	15		4 F	0307	-0.7	-21		19 Sa	0325	0.4	12	
	0734	8.0	244			0824	8.6	262			0833	8.6	262			0924	7.7	235			0910	8.5	259			0940	7.1	216	
	1403	0.6	18			1455	0.1	3			1514	0.3	9			1555	0.7	21			1548	-0.3	-9			1606	0.4	12	
5 M	0217	0.3	9		20 Tu	0258	0.2	6		5 Th	0322	-0.1	-3		20 F	0350	0.7	21		5 Sa	0358	-0.7	-21		20 Su	0402	0.6	18	
	0812	8.2	250			0907	8.3	253			0920	8.5	259			1007	7.4	226			1003	8.3	253			1019	6.9	210	
	1446	0.6	18			1539	0.4	12			1602	0.4	12			1634	0.9	27			1638	-0.2	-6			1641	0.6	18	
6 Tu	0258	0.2	6		21 W	0339	0.5	15		6 F	0411	0.0	0		21 Sa	0429	1.0	30		6 Su	0451	-0.5	-15		21 M	0439	0.8	24	
	0851	8.3	253			0951	8.0	244			1013	8.3	253			1052	7.1	216			1100	8.1	247			1059	6.6	201	
	1530	0.6	18			1622	0.8	24			1652	0.5	15			1714	1.2	37			1729	-0.1	-3			1718	0.7	21	
7 W	0341	0.3	9		22 Th	0419	0.9	27		7 Sa	0503	0.2	6		22 Su	0508	1.3	40		7 M	0547	-0.2	-6		22 Tu	0519	1.0	30	
	0935	8.2	250			1038	7.6	232			1113	8.1	247			1139	6.8	207			1159	7.8	238			1140	6.4	195	
	1615	0.8	24			1704	1.2	37			1745	0.7	21			1755	1.3	40			1823	0.0	0			1757	0.7	21	
8 Th	0426	0.4	12		23 F	0459	1.2	37		8 Su	0600	0.4	12		23 M	0552	1.5	46		8 Tu	0038	6.9	210		23 W	0003	6.1	186	
	1025	8.1	247			1128	7.2	219			1215	7.9	241			1228	6.6	201			0648	0.2	6			0603	1.2	37	
	1704	1.0	30			1748	1.5	46			1844	0.8	24			1840	1.4	43			1258	7.4	226			1225	6.1	186	
9 F	0515	0.5	15		24 Sa	0543	1.6	49		9 M	0051	6.8	207		24 Tu	0048	6.1	186		9 W	0139	7.1	216		24 Th	0051	6.2	189	
	1123	8.0	244			1221	7.0	213			0703	0.6	18			0643	1.7	52			0753	0.4	12			0655	1.3	40	
	1757	1.2	37			1836	1.8	55			1317	7.7	235			1316	6.4	195			1354	7.2	219			1312	6.0	183	
10 Sa	0611	0.7	21		25 Su	0036	6.2	189		10 Tu	0155	7.0	213		25 W	0139	6.2	189		10 Th	0238	7.2	219		25 F	0141	6.3	192	
	1226	7.9	241			0632	1.8	55			0811	0.7	21			0741	1.8	55			0900	0.5	15			0756	1.4	43	
	1858	1.3	40			1313	6.8	207			1417	7.6	232			1406	6.4	195			1451	6.9	210			1403	5.9	180	
11 Su	0058	6.7	204		26 M	0129	6.2	189		11 W	0257	7.3	223		26 Th	0230	6.5	198		11 F	0336	7.4	226		26 Sa	0234	6.6	201	
	0715	0.8	24			0729	2.0	61			0919	0.6	18			0844	1.7	52			1004	0.5	15			0902	1.3	40	
	1331	7.8	238			1405	6.7	204			1515	7.5	229			1455	6.3	192			1546	6.7	204			1457	5.9	180	
12 M	0204	6.8	207		27 Tu	0222	6.4	195		12 Th	0356	7.6	232		27 F	0321	6.8	207		12 Sa	0432	7.5	229		27 Su	0329	6.9	210	
	0824	0.8	24			0831	2.0	61			1022	0.5	15			0945	1.5	46			1101	0.4	12			1006	1.0	30	
	1435	7.9	241			1456	6.8	207			1612	7.5	229			1546	6.4	195			1641	6.6	201			1555	5.9	180	
13 Tu	0309	7.1	216		28 W	0314	6.6	201		13 F	0453	7.9	241		28 Sa	0412	7.1	216		13 Su	0525	7.6	232		28 M	0426	7.2	219	
	0933	0.6	18			0932	1.8	55			1119	0.3	9			1042	1.2	37			1154	0.3	9			1107	0.6	18	
	1536	8.0	244			1546	6.8	207			1706	7.4	226			1637	6.4	195			1734	6.6	201			1653	6.1	186	
14 W	0411	7.5	229		29 Th	0405	6.9	210		14 Sa	0546	8.2	250		29 Su	0502	7.5	229		14 M	0615	7.7	235		29 Tu	0524	7.6	232	
	1036	0.3	9			1027	1.5	46			1212	0.1	3			1136	0.8	24			1243	0.2	6			1204	0.2	6	
	1634	8.1	247			1634	6.9	210			1757	7.4	226			1728	6.6	201			1823	6.6	201			1751	6.3	192	
15 Th	0510	7.9	241		30 F	0454	7.3	223		15 Su	0020	-0.1	-3		30 M	0552	7.9	241		15 Tu	0043	0.0	0		30 W	0012	-0.6	-18	
	1134	0.1	3			1118	1.2	37			0634	8.3	253			1228	0.4	12			0701	7.7	235			0621	8.0	244	
	1729	8.1	247			1721	7.0	213			1302	0.1	3			1818	6.7	204			1329	0.1	3			1259	-0.2	-6	
16 Fr	2357	0.0	0		31 Sa	0540	7.7	235			1845	7.3	223						1908	6.6	201		1845	6.6	201				
						1206	0.9	27														0107	-0.9	-27					
						1806	7.1	216														0714	8.3	253					
																					1351	-0.5	-15						
																					1938	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.

Savannah, Georgia, 2009

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 W	0019	8.4	256		16 Th	0049	7.4	226		1 F	0124	8.4	256		16 Sa	0051	7.5	229		1 M	0258	8.2	250		16 Tu	0148	7.4	226	
	0711	0.5	15			0718	1.3	40			0800	0.4	12			0724	1.1	34			0930	-0.1	-3			0822	0.6	18	
	1258	7.1	216			1309	6.8	207			1409	7.6	232			1320	7.0	213			1546	8.5	259			1423	7.8	238	
	1924	0.2	6			1906	1.4	43			2020	0.4	12			1918	1.5	46			2207	0.4	12			2051	1.4	43	
2 Th	0126	8.2	250		17 F	0141	7.3	223		2 Sa	0224	8.3	253		17 Su	0142	7.4	226		2 Tu	0349	8.0	244		17 W	0243	7.3	223	
	0814	0.7	21			0809	1.5	46			0901	0.3	9			0814	1.1	34			1024	-0.2	-6			0920	0.4	12	
	1407	7.1	216			1402	6.9	210			1508	7.9	241			1412	7.3	223			1637	8.7	265			1518	8.1	247	
	2031	0.4	12			2001	1.6	49			2126	0.4	12			2020	1.6	49			2304	0.3	9			2203	1.3	40	
3 F	0233	8.2	250		18 Sa	0233	7.3	223		3 Su	0321	8.3	253		18 M	0233	7.4	226		3 W	0440	7.8	238		18 Th	0340	7.2	219	
	0921	0.7	21			0905	1.4	43			1000	0.2	6			0909	1.0	30			1115	-0.2	-6			1021	0.3	9	
	1514	7.3	223			1454	7.0	213			1606	8.2	250			1504	7.6	232			1729	8.8	268			1615	8.4	256	
	2141	0.3	9			2108	1.7	52			2229	0.3	9			2130	1.5	46			2357	0.2	6			2311	1.1	34	
4 Sa	0338	8.2	250		19 Su	0325	7.3	223		4 M	0417	8.2	250		19 Tu	0326	7.4	226		4 Th	0531	7.7	235		19 F	0441	7.1	216	
	1025	0.4	12			1001	1.3	40			1055	-0.1	-3			1005	0.7	21			1204	-0.1	-3			1122	0.1	3	
	1619	7.6	232			1547	7.2	219			1702	8.5	259			1557	7.9	241			1819	8.9	271			1717	8.7	265	
	2247	0.1	3			2215	1.5	46			2327	0.1	3			2237	1.3	40											
5 Su	0441	8.2	250		20 M	0419	7.3	223		5 Tu	0511	8.1	247		20 W	0422	7.3	223		5 F	0049	0.2	6		20 Sa	0016	0.7	21	
	1123	0.1	3			1054	1.0	30			1146	-0.2	-6			1101	0.5	15			0621	7.6	232			0545	7.1	216	
	1722	8.0	244			1641	7.5	229			1756	8.8	268			1652	8.2	250			1252	0.0	0			1222	-0.1	-3	
	2348	-0.2	-6			2316	1.2	37								2341	1.0	30			1907	8.9	271			1819	9.0	274	
6 M	0541	8.3	253		21 Tu	0514	7.4	226		6 W	0022	-0.1	-3		21 Th	0520	7.3	223		6 Sa	0138	0.2	6		21 Su	0117	0.4	12	
	1216	-0.2	-6			1145	0.7	21			0604	8.1	247			1156	0.2	6			0709	7.6	232			0649	7.3	223	
	1821	8.5	259			1735	7.9	241			1235	-0.3	-9			1749	8.6	262			1338	0.1	3			1322	-0.4	-12	
											1847	9.0	274								1951	8.8	268			1920	9.2	280	
7 Tu	0044	-0.5	-15		22 W	0014	0.9	27		7 Th	0114	-0.2	-6		22 F	0041	0.7	21		7 Su	0224	0.2	6		22 M	0215	0.0	0	
	0636	8.4	256			0607	7.5	229			0653	8.0	244			0618	7.4	226			0753	7.5	229			0749	7.4	226	
	1307	-0.5	-15			1235	0.3	9			1323	-0.3	-9			1251	0.0	0			1422	0.2	6			1420	-0.7	-21	
	1913	8.8	268			1826	8.3	253			1933	9.1	277			1844	8.9	271			2030	8.7	265			2016	9.4	287	
8 W	0137	-0.6	-18		23 Th	0109	0.5	15		8 F	0203	-0.2	-6		23 Sa	0139	0.3	9		8 M	0308	0.2	6		23 Tu	0310	-0.4	-12	
	0725	8.4	256			0657	7.6	232			0738	8.0	244			0714	7.4	226			0832	7.4	226			0846	7.6	232	
	1355	-0.6	-18			1324	0.1	3			1408	-0.2	-6			1345	-0.3	-9			1503	0.4	12			1516	-0.9	-27	
	2000	9.1	277			1913	8.7	265			2015	9.1	277			1937	9.2	280			2105	8.5	259			2110	9.4	287	
9 Th	0227	-0.7	-21		24 F	0202	0.2	6		9 Sa	0250	-0.2	-6		24 Su	0234	0.0	0		9 Tu	0347	0.3	9		24 W	0400	-0.7	-21	
	0809	8.4	256			0743	7.7	235			0820	7.9	241			0807	7.5	229			0909	7.3	223			0943	7.8	238	
	1440	-0.6	-18			1413	-0.2	-6			1451	0.0	0			1439	-0.5	-15			1540	0.6	18			1609	-0.9	-27	
	2042	9.1	277			1958	9.0	274			2053	8.9	271			2028	9.4	287			2137	8.3	253			2204	9.3	283	
10 F	0314	-0.7	-21		25 Sa	0252	-0.1	-3		10 Su	0333	0.0	0		25 M	0327	-0.3	-9		10 W	0424	0.5	15		25 Th	0448	-0.8	-24	
	0849	8.2	250			0827	7.7	235			0859	7.7	235			0858	7.6	232			0945	7.1	216			1043	7.9	241	
	1522	-0.5	-15			1501	-0.4	-12			1531	0.2	6			1532	-0.6	-18			1614	0.7	21			1700	-0.8	-24	
	2120	9.0	274			2042	9.2	280			2129	8.7	265			2119	9.4	287			2208	8.1	247			2259	9.1	277	
11 Sa	0357	-0.5	-15		26 Su	0341	-0.2	-6		11 M	0413	0.2	6		26 Tu	0417	-0.4	-12		11 Th	0458	0.6	18		26 F	0536	-0.8	-24	
	0928	8.0	244			0910	7.7	235			0936	7.5	229			0951	7.6	232			1021	7.1	216			1145	8.0	244	
	1600	-0.2	-6			1548	-0.5	-15			1607	0.5	15			1623	-0.7	-21			1647	0.9	27			1752	-0.6	-18	
	2157	8.7	265			2127	9.3	283			2203	8.4	256			2213	9.2	280			2241	7.9	241			2356	8.7	265	
12 Su	0437	-0.2	-6		27 M	0429	-0.3	-9		12 Tu	0450	0.4	12		27 W	0506	-0.4	-12		12 F	0532	0.6	18		27 Sa	0623	-0.6	-18	
	1006	7.7	235			0957	7.6	232			1013	7.3	223			1051	7.5	229			1101	7.0	213			1245	8.1	247	
	1637	0.1	3			1636	-0.5	-15			1641	0.7	21			1714	-0.5	-15			1721	1.0	30			1845	-0.2	-6	
	2234	8.4	256			2217	9.1	277			2238	8.1	247			2311	9.0	274			2319	7.7	235						
13 M	0516	0.2	6		28 Tu	0517	-0.2	-6		13 W	0526	0.7	21		28 Th	0555	-0.4	-12		13 Sa	0607	0.7	21		28 Su	0050	8.5	259	
	1045	7.4	226			1051	7.4	226			1053	7.1	216			1157	7.6	232			1147	7.1	216			0712	-0.4	-12	
	1711	0.5	15			1725	-0.3	-9			1714	1.0	30			1807	-0.3	-9			1800	1.1	34			1340	8.3	253	
	2314	8.0	244			2314	8.9	271			2317	7.8	238											1941		0.2	6		
14 Tu	0554	0.7	21		29 W	0608	0.0	0		14 Th	0602	0.9	27		29														

Savannah, Georgia, 2009

Times and Heights of High and Low Waters

July				August				September																							
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height																		
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm																	
1 W	0320	7.7	235			16 Su	0431	7.3	223	16 Su	0356	7.2	219	1 Tu	0007	1.2	37	16 W	0013	0.4	12										
	0951	0.0	0	16 Th	0844		0.3	9	1 Sa		1103	0.6	18		16 Su	1040	0.3		9	1 Tu	0547	7.6	232	16 W	0606	8.4	256				
	1610	8.6	262		1446		8.3	253			2 Su	1724	8.3			253	17 M		1637		8.8	268	2 W		1212	1.1	34	17 Th	1232	-0.2	-6
	2237	0.6	18		2136		1.3	40				2353	0.9			27			1746		9.0	274			3 Th	1831	8.4		256	17 Th	1830	9.3	283
2 Th	0409	7.6	232	17 F	0308	7.2	219	2 Su	0524	7.3	223	17 M	0508	7.4	226	2 W	0052	0.9	27	17 Th	0106	0.0	0								
	1043	0.1	3		0950	0.3	9		3 M	1153	0.6		18	18 Tu	1146		0.0	0	3 Th		0635	7.8	238	17 Th	0704	8.9	271				
	1701	8.6	262		1547	8.5	259			4 Tu	1815		8.4		256		18 Tu	1258			0.9	27	3 Th		1343	0.8	24	18 F	1422	-0.4	-12
	2331	0.6	18		2248	1.2	37				0041		0.8		24			1902			8.4	256			1850	9.3	283		4 Th	1948	8.6	262	18 F	2009	9.4	287
3 F	0500	7.4	226	18 Sa	0413	7.1	216	3 M	0615	7.4	226	18 Tu	0618	7.8	238	3 Th	0717	8.0	244	18 F	0756	9.3	283								
	1133	0.1	3		1057	0.1	3		4 Tu	1241	0.6		18	19 W	1248		-0.4	-12	4 Th		1343	0.8	24	19 Sa	1422	-0.6	-18				
	1752	8.6	262		1653	8.7	265			5 W	1902		8.4		256		19 W	1346			-0.7	-21	4 F		1425	0.7	21	19 Sa	1512	-0.6	-18
	4 Sa	0022	0.5		15	2354	0.8				24		4 Tu		0127			0.7			21	19 W			0132	0.0	0		4 F	2019	8.5	259	19 Sa	2052	9.3	283
0552		7.4	226	0522	7.1	216	5 W	0703	7.4	226	20 Th	0721		8.3	253	5 Sa	0252	0.4	12	20 Su	0329		-0.5	-15							
1222		0.2	6	1801	8.9	271		0210	0.6	18		2018		8.5	259		0816	8.7	265		6 Su		0826	8.4	256	20 Su	0927	9.5		290	
1842		8.6	262	0056	0.4	12		0744	7.5	229		● 2035		9.5	290		1441	-0.9	-27				6 Su	1506	0.7		21	21 M		1559	-0.4	-12
5 Su	0111	0.5	15	● 2003	9.4	287	5 W	1410	0.6	18	20 Th	1441	-0.9	-27	5 Sa	2047	8.5	259	20 Su	2134	9.0	274									
	0642	7.3	223	0155	-0.1	-3		6 Th	2047	8.4		256	21 F	0313		-0.7	-21	6 Su		0329	0.3	9	21 M	0411	-0.3	-9					
	1309	0.3	9	0735	7.7	235			7 F	0821		7.6		232		21 F	0907			8.9	271	6 Su		0858	8.6	262	21 M	1011	9.3	283	
	1927	8.5	259	1403	-0.8	-24				1450		0.6		18			1533			-0.9	-27			7 M	1545	0.7		21	21 M	1644	0.0	0
6 M	0157	0.4	12	2003	9.4	287	6 Th	2047	8.4	256	22 Sa	2121	9.4	287	7 M	2117	8.4	256	21 M	2216	8.6	262									
	0728	7.3	223	0249	-0.5	-15		7 F	0325	0.3		9	22 Sa	0358		-0.8	-24	7 M		0405	0.2	6	22 Tu	0452	0.0	0					
	1354	0.4	12	0833	8.0	244			8 W	0853		7.7		235		22 Sa	0956			9.0	274	7 M		0932	8.7	265	22 Tu	1057	9.0	274	
	2008	8.5	259	1459	-1.0	-30				1528		0.6		18			2206			9.1	277			8 Tu	1625	0.7		21	22 Tu	1729	0.5	15
7 Tu	0241	0.4	12	2056	9.5	290	7 F	2114	8.3	253	23 Su	0442	-0.7	-21	8 Tu	2150	8.2	250	22 Tu	2302	8.2	250									
	0809	7.3	223	0339	-0.8	-24		8 Sa	0359	0.3		9	23 Su	1046		9.0	274	8 Tu		0441	0.3	9	23 W	0532	0.5	15					
	1436	0.5	15	0928	8.3	253			9 Su	0924		7.8		238		24 M	1709			-0.4	-12	8 Tu		1011	8.8	268	23 W	1148	8.6	262	
	2043	8.4	256	1552	-1.1	-34				1604		0.7		21			2252			8.7	265			9 W	1706	0.9		27	23 W	1813	1.0	30
8 W	0320	0.4	12	2146	9.3	283	8 Sa	2141	8.2	250	24 M	2252	8.7	265	9 W	2231	8.0	244	23 W	2351	7.8	238									
	0845	7.3	223	0426	-1.0	-30		9 Su	0433	0.2		6	25 Tu	0607		0.0	0	9 W		0521	0.4	12	24 Th	0613	1.0	30					
	1515	0.6	18	1023	8.4	256			10 M	0958		8.0		244		25 Tu	1138			8.8	268	9 W		1058	8.7	265	24 Th	1242	8.3	253	
	2113	8.3	253	1643	-0.9	-27				1640		0.7		21			2341			8.2	250			10 Th	1752	1.2		37	24 Th	1901	1.5	46
9 Th	0356	0.4	12	2236	9.1	277	9 Su	2214	8.1	247	25 Tu	2341	8.2	250	10 Th	2320	7.7	235	24 Th	2320	7.7	235									
	0919	7.3	223	0511	-0.9	-27		10 M	0506	0.2		6	26 W	0607		0.0	0	10 Th		0606	0.5	15	25 F	0046	7.5	229					
	1550	0.7	21	1119	8.5	259			11 Tu	1037		8.1		247		26 W	1232			8.6	262	10 Th		1154	8.6	262	25 F	0658	1.4	43	
	2140	8.1	247	1732	-0.6	-18				1719		0.9		27			1937			1.2	37			11 F	1846	1.4		43	10 Th	1338	8.1	247
10 F	0430	0.4	12	2327	8.7	265	10 M	2254	7.9	241	27 Th	2033	7.9	241	11 F	0021	7.4	226	10 Th	1954	1.9	58									
	0952	7.3	223	0555	-0.7	-21		11 Tu	0543	0.3		9	27 Th	0652		0.5	15	11 F		0700	0.7	21	26 Sa	0141	7.4	226					
	1624	0.7	21	1216	8.5	259			12 W	1123		8.2		250		28 F	1326			8.4	256	11 F		1300	8.6	262	26 Sa	0750	1.7	52	
	2209	8.0	244	1822	-0.1	-3				1803		1.0		30			2034			1.5	46			12 Sa	1951	1.7		52	11 F	1431	8.0	244
11 Sa	0502	0.4	12	1915	0.3	9	11 Tu	2343	7.6	232	28 F	1937	1.2	37	12 Sa	2104	1.6	49	11 F	2051	2.0	61									
	1028	7.4	226	0019	8.3	253		12 W	0626	0.3		9	29 Sa	0741		0.9	27	12 Sa		0805	0.9	27	26 Sa	1431	8.0	244					
	1737	0.9	27	0641	-0.4	-12			13 Th	1218		8.3		253		29 Sa	1418			8.2	250	12 Sa		1408	8.6	262	26 Sa	2051	2.0	61	
	2325	7.7	235	1310	8.5	259				1856		1.3		40			2034			1.5	46			13 Su	2104	1.6		49	12 Sa	1523	8.0	244
12 Su	0535	0.3	9	1915	0.3	9	12 W	0626	0.3	9	29 Sa	0741	0.9	27	13 Su	0805	0.9	27	27 Su	2148	1.9	58									
	1109	7.5	229	0110	8.0	244		13 Th	0717	0.5		15	30 Su	0836		1.2	37	13 Su		0918	0.8	24	27 Su	0850	1.9	58					
	1737	0.9	27	0729	0.0	0			14 F	1319		8.3		253		30 Su	1509			8.2	250	13 Su		1517	8.7	265	27 Su	1523	8.0	244	
	2325	7.7	235	1402	8.4	256				2002		1.5		46			2133			1.6	49			14 M	2213	1.4		43	13 Su	2240	1.7	52
13 M	0612	0.3	9	2011	0.7	21	13 Th	0041	7.4	226	30 Su	0402	7.4	226	14 M	0350	7.6	232	28 M	0328	7.4	226									
	1157	7.6	232	0110	8.0	244		14 F	0717	0.5		15	31 M	0934		1.3	40	14 M		1028	0.6	18	28 M	0951	1.9	58					

Savannah, Georgia, 2009

Times and Heights of High and Low Waters

October				November				December																					
Time		Height		Time		Height		Time		Height		Time		Height															
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm															
1 Th	0013	1.1	34		16 F	0039	-0.1	-3		1 Su	0102	0.5	15		16 M	0148	-0.3	-9		1 Tu	0121	-0.1	-3		16 W	0209	-0.2	-6	
	0601	8.1	247			0645	9.4	287			0654	9.0	274			0757	9.5	290			0714	9.1	277			0819	8.8	268	
	1227	1.2	37			1309	-0.2	-6			1336	0.8	24			1428	-0.1	-3			1406	0.4	12			1451	0.0	0	
	1835	8.4	256			1857	9.1	277			1919	8.2	250			2000	8.4	256			1940	7.7	235			2019	7.7	235	
2 F	0056	0.8	24		17 Sa	0128	-0.3	-9		2 M	0148	0.2	6		17 Tu	0233	-0.1	-3		2 W	0213	-0.3	-9		17 Th	0251	-0.1	-3	
	0645	8.5	259			0734	9.7	296			0736	9.3	283			0838	9.4	287			0803	9.3	283			0856	8.7	265	
	1314	1.0	30			1401	-0.3	-9			1425	0.6	18			1513	0.0	0			1458	0.1	3			1532	0.1	3	
	1914	8.5	259			1943	9.1	277			2000	8.2	250			2040	8.2	250			2027	7.8	238			2056	7.6	232	
3 Sa	0138	0.6	18		18 Su	0215	-0.3	-9		3 Tu	0234	0.1	3		18 W	0315	0.0	0		3 Th	0305	-0.6	-18		18 F	0330	0.1	3	
	0724	8.8	268			0819	9.8	299			0817	9.5	290			0916	9.1	277			0851	9.4	287			0930	8.4	256	
	1400	0.8	24			1450	-0.2	-6			1513	0.5	15			1556	0.3	9			1548	-0.1	-3			1609	0.2	6	
	1949	8.5	259			2025	9.0	274			2039	8.1	247			2118	8.0	244			2115	7.8	238			2132	7.4	226	
4 Su	0219	0.4	12		19 M	0300	-0.3	-9		4 W	0321	-0.1	-3		19 Th	0354	0.3	9		4 F	0355	-0.7	-21		19 Sa	0405	0.3	9	
	0800	9.0	274			0900	9.7	296			0859	9.5	290			0952	8.8	268			0940	9.3	283			1001	8.2	250	
	1445	0.7	21			1536	-0.1	-3			1601	0.4	12			1635	0.6	18			1636	-0.2	-6			1644	0.4	12	
	1914	8.5	259			2105	8.7	265			2121	8.0	244			2156	7.7	235			2207	7.7	235			2207	7.3	223	
5 M	0300	0.3	9		20 Tu	0342	0.0	0		5 Th	0407	-0.1	-3		20 F	0430	0.6	18		5 Sa	0445	-0.6	-18		20 Su	0438	0.5	15	
	0835	9.2	280			0940	9.4	287			0944	9.4	287			1029	8.4	256			1033	9.1	277			1033	7.9	241	
	1528	0.6	18			1620	0.3	9			1648	0.5	15			1713	0.9	27			1724	-0.1	-3			1717	0.6	18	
	2056	8.4	256			2145	8.4	256			2208	7.8	238			2236	7.4	226			2306	7.6	232			2244	7.2	219	
6 Tu	0340	0.2	6		21 W	0422	0.3	9		6 F	0455	0.1	3		21 Sa	0505	1.0	30		6 Su	0536	-0.4	-12		21 M	0510	0.7	21	
	0912	9.3	283			1021	9.0	274			1035	9.2	280			1109	8.1	247			1132	8.8	268			1108	7.7	235	
	1612	0.7	21			1701	0.7	21			1737	0.7	21			1750	1.2	37			1814	0.0	0			1750	0.7	21	
	2133	8.2	250			2226	8.0	244			2305	7.6	232			2320	7.2	219			1906	0.1	3			2325	7.1	216	
7 W	0422	0.2	6		22 Th	0500	0.7	21		7 Sa	0546	0.3	9		22 Su	0540	1.3	40		7 M	0014	7.6	232		22 Tu	0544	0.9	27	
	0954	9.2	280			1104	8.6	262			1136	8.9	271			1153	7.8	238			0630	-0.1	-3			1149	7.5	229	
	1657	0.9	27			1742	1.1	34			1829	0.8	24			1828	1.4	43			1235	8.5	259			1825	0.7	21	
	2215	7.9	241			2311	7.6	232													1906	0.1	3						
8 Th	0506	0.4	12		23 F	0537	1.2	37		8 Su	0015	7.5	229		23 M	0010	7.1	216		8 Tu	0121	7.8	238		23 W	0013	7.1	216	
	1042	9.1	277			1153	8.2	250			0642	0.5	15			0618	1.5	46			0730	0.2	6			0624	1.1	34	
	1745	1.1	34			1825	1.6	49			1245	8.7	265			1243	7.6	232			1335	8.3	253			1236	7.3	223	
	2308	7.6	232								1927	1.0	30			1910	1.5	46			2002	0.2	6			1906	0.8	24	
9 F	0554	0.6	18		24 Sa	0002	7.4	226		9 M	0129	7.6	232		24 Tu	0104	7.1	216		9 W	0222	8.0	244		24 Th	0104	7.2	219	
	1141	8.9	271			0616	1.6	49			0745	0.7	21			0704	1.7	52			0833	0.4	12			0714	1.3	40	
	1839	1.4	43			1248	7.9	241			1352	8.6	262			1334	7.5	229			1431	8.1	247			1327	7.2	219	
						1910	1.9	58			2028	0.9	27			1959	1.5	46			2101	0.1	3			1955	0.8	24	
10 Sa	0013	7.4	226		25 Su	0058	7.2	219		10 Tu	0236	7.9	241		25 W	0157	7.2	219		10 Th	0318	8.3	253		25 F	0157	7.4	226	
	0650	0.8	24			0701	1.9	58			0852	0.8	24			0802	1.9	58			0938	0.4	12			0817	1.4	43	
	1250	8.7	265			1342	7.8	238			1453	8.5	259			1424	7.4	226			1524	8.0	244			1421	7.0	213	
	1941	1.5	46			2002	2.0	61			2130	0.7	21			2052	1.4	43			2158	0.0	0			2052	0.7	21	
11 Su	0127	7.4	226		26 M	0154	7.2	219		11 W	0337	8.3	253		26 Th	0249	7.4	226		11 F	0413	8.5	259		26 Sa	0252	7.6	232	
	0756	1.0	30			0756	2.1	64			0959	0.6	18			0910	1.8	55			1038	0.3	9			0931	1.4	43	
	1401	8.7	265			1433	7.8	238			1550	8.5	259			1515	7.4	226			1618	7.9	241			1517	7.0	213	
	2049	1.5	46			2056	2.0	61			2228	0.4	12			2148	1.1	34			2253	-0.1	-3			2155	0.6	18	
12 M	0239	7.6	232		27 Tu	0247	7.4	226		12 Th	0435	8.7	265		27 F	0341	7.7	235		12 Sa	0508	8.7	265		27 Su	0350	7.8	238	
	0907	0.9	27			0900	2.1	64			1100	0.4	12			1016	1.7	52			1135	0.2	6			1043	1.2	37	
	1508	8.7	265			1523	7.8	238			1645	8.5	259			1608	7.4	226			1711	7.8	238			1617	6.9	210	
	2154	1.1	34			2150	1.7	52			2321	0.0	0			2242	0.9	27			2345	-0.2	-6			2258	0.3	9	
13 Tu	0347	8.0	244		28 W	0339	7.6	232		13 F	0531	9.0	274		28 Sa	0435	8.1	247		13 Su	0601	8.8	268		28 M	0452	8.1	247	
	1015	0.7	21			1002	2.0	61			1156	0.1	3			1118	1.4	43			1227	0.1	3			1148	0.9	27	
	1611	8.8	268			1612	7.9	241			1739	8.5	259			1702	7.5	229			1803	7.8	238			1721	6.9	210	
	2254	0.7	21			2241	1.4	43								2335	0.5	15								2358	0.0	0	
14 W	0451	8.4	256		29 Th	0430	7.9	241		14 Sa	0012	-0.2	-6		<														

Fernandina Beach, Amelia River, Florida, 2009

Times and Heights of High and Low Waters

January				February				March																										
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height																					
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm																				
1 Th	0500	0.2	6		16 F	0032	6.0	183		1 Su	0016	5.8	177		16 M	0134	5.7	174		1 Su	0511	0.0	0		16 M	0009	6.3	192						
	1139	5.6	171			0627	-0.3	-9			0619	0.2	6			0749	0.7	21			1132	5.7	174			0617	0.7	21						
	1737	0.0	0			1247	5.8	177			1236	5.2	158			1344	4.9	149			1722	-0.3	-9			1222	5.4	165		1813	0.7	21		
	2358	5.2	158			1847	-0.4	-12			1837	-0.3	-9			1948	0.5	15			2356	6.4	195			2356	6.4	195		1813	0.7	21		
2 F	0547	0.3	9		17 Sa	0123	5.8	177		2 M	0106	5.8	177		17 Tu	0226	5.5	168		2 M	0603	0.2	6		17 Tu	0053	6.0	183		17 Tu	0709	1.0	30	
	1218	5.4	165			0727	0.1	3			0720	0.4	12			0846	0.9	27			1218	5.5	168			1306	5.1	155			1903	1.0	30	
	1821	0.0	0			1335	5.3	162			1327	5.0	152			1435	4.7	143			1813	-0.2	-6			1306	5.1	155			1903	1.0	30	
3 Sa	0043	5.3	162		18 Su	0216	5.6	171		3 Tu	0204	5.8	177		18 W	0324	5.3	162		3 Tu	0048	6.3	192		18 W	0142	5.7	174		18 W	0804	1.2	37	
	0642	0.5	15			0827	0.4	12			0827	0.4	12			0942	0.9	27			0703	0.4	12			1311	5.3	162			2000	1.2	37	
	1303	5.2	158			1425	4.9	149			1427	4.9	149			1533	4.6	140			1311	5.3	162			1355	5.0	152			2000	1.2	37	
	1910	0.0	0			2033	0.0	0			2037	-0.3	-9			2140	0.7	21			1913	0.0	0			2000	1.2	37			2000	1.2	37	
4 Su	0134	5.5	168		19 M	0312	5.5	168		4 W	0313	5.9	180		19 Th	0425	5.4	165		4 W	0148	6.2	189		19 Th	0237	5.5	168		19 Th	0859	1.3	40	
	0745	0.5	15			0925	0.5	15			0934	0.3	9			1036	0.9	27			0809	0.6	18			1412	5.2	158			2059	1.2	37	
	1354	5.1	155			1520	4.7	143			1537	4.9	149			1633	4.7	143			1412	5.2	158			1451	4.9	149			2059	1.2	37	
	2006	-0.1	-3			2126	0.2	6			2143	-0.4	-12			2235	0.6	18			2019	0.0	0			2059	1.2	37			2059	1.2	37	
5 M	0231	5.7	174		20 Tu	0410	5.5	168		5 Th	0427	6.1	186		20 F	0522	5.5	168		5 Th	0258	6.2	189		20 F	0337	5.5	168		20 F	0953	1.2	37	
	0851	0.4	12			1021	0.6	18			1039	0.2	6			1127	0.8	24			0916	0.5	15			0953	1.2	37			0953	1.2	37	
	1454	4.9	149			1616	4.6	140			1650	5.1	155			1729	4.9	149			1524	5.2	158			1552	5.0	152			1552	5.0	152	
	2105	-0.3	-9			2218	0.2	6			2248	-0.7	-21			2328	0.5	15			2128	-0.1	-3			2157	1.1	34			2157	1.1	34	
6 Tu	0337	5.9	180		21 W	0507	5.5	168		6 F	0537	6.4	195		21 Sa	0613	5.7	174		6 F	0412	6.3	192		21 Sa	0437	5.6	171		21 Sa	1044	1.1	34	
	0956	0.3	9			1114	0.5	15			1142	-0.1	-3			1215	0.5	15			1021	0.4	12			1044	1.1	34			1044	1.1	34	
	1601	4.9	149			1712	4.6	140			1758	5.4	165			1638	5.1	155			1638	5.4	165			1652	5.3	162			1652	5.3	162	
	2205	-0.5	-15			2309	0.2	6			2351	-0.9	-27			2351	-0.9	-27			2234	-0.2	-6			2253	1.0	30			2253	1.0	30	
7 W	0446	6.2	189		22 Th	0558	5.6	171		7 Sa	0639	6.8	207		22 Su	0018	0.3	9		7 Sa	0521	6.5	198		22 Su	0531	5.8	177		22 Su	1132	0.8	24	
	1100	0.0	0			1204	0.4	12			1240	-0.5	-15			0658	5.9	180			1122	0.1	3			1132	0.8	24			1132	0.8	24	
	1709	5.1	155			1803	4.8	146			1859	5.8	177			1258	0.3	9			1746	5.8	177			1746	5.6	171			1746	5.6	171	
	2306	-0.8	-24			2359	0.1	3								1908	5.4	165			2339	-0.5	-15			2346	0.8	24			2346	0.8	24	
8 Th	0552	6.6	201		23 F	0645	5.8	177		8 Su	0051	-1.2	-37		23 M	0104	0.1	3		8 Su	0622	6.8	207		23 M	0620	6.0	183		23 M	1217	0.5	15	
	1201	-0.3	-9			1250	0.2	6			0735	7.0	213			0740	6.1	186			1219	-0.3	-9			1217	0.5	15			1217	0.5	15	
	1813	5.3	162			1851	4.9	149			1334	-0.9	-27			1338	0.0	0			1845	6.3	192			1845	6.3	192			1845	6.3	192	
											1955	6.2	189			1951	5.7	174								1845	6.3	192			1845	6.3	192	
9 F	0006	-1.1	-34		24 Sa	0046	0.0	0		9 M	0147	-1.4	-43		24 Tu	0147	-0.1	-3		9 M	0039	-0.7	-21		24 Tu	0035	0.5	15		24 Tu	0705	6.2	189	
	0653	6.9	210			0729	5.9	180			0826	7.2	219			0820	6.2	189			0716	7.0	213			0705	6.2	189			0705	6.2	189	
	1259	-0.6	-18			1332	0.1	3			1424	-1.1	-34			1415	-0.2	-6			1312	-0.6	-18			1259	0.3	9			1259	0.3	9	
	1912	5.6	171			1935	5.1	155			2048	6.5	198			2032	5.9	180			1939	6.7	204			1920	6.3	192			1920	6.3	192	
10 Sa	0104	-1.4	-43		25 Su	0129	-0.2	-6		10 Tu	0240	-1.4	-43		25 W	0227	-0.2	-6		10 Tu	0134	-0.9	-27		25 W	0121	0.2	6		25 W	0747	6.3	192	
	0749	7.2	219			0810	6.1	186			0915	7.1	216			0858	6.2	189			0805	7.0	213			0747	6.3	192			0747	6.3	192	
	1353	-0.9	-27			1411	-0.1	-3			1510	-1.2	-37			1450	-0.3	-9			1359	-0.8	-24			1338	0.0	0			1338	0.0	0	
	2009	5.9	180			2017	5.2	158			2139	6.6	201			2111	6.1	186			2029	7.0	213			2002	6.7	204			2002	6.7	204	
11 Su	0200	-1.6	-49		26 M	0209	-0.3	-9		11 W	0330	-1.3	-40		26 Th	0306	-0.3	-9		11 W	0225	-0.9	-27		26 Th	0204	0.0	0		26 Th	0827	6.3	192	
	0843	7.3	223			0848	6.1	186			1002	6.9	210			0935	6.1	186			0852	6.9	210			1444	-0.8	-24			0827	6.3	192	
	1444	-1.2	-37			1447	-0.2	-6			1554	-1.2	-37			1524	-0.4	-12			1444	-0.8	-24			1444	-0.8	-24			1417	-0.2	-6	
	2104	6.1	186			2057	5.4	165			2227	6.6	201			2149	6.3	192			2117	7.1	216			2117	7.1	216			2043	6.9	210	
12 M	0253	-1.6	-49		27 Tu	0247	-0.3	-9		12 Th	0419	-1.0	-30		27 F	0345	-0.3	-9		12 Th	0313	-0.8	-24		27 F	0246	-0.1	-3		27 F	0908	6.3	192	
	0935	7.3	223			0925	6.1	186			1047	6.5	198			1012	6.0	183			0936	6.7	204			0908	6.3	192			0908	6.3	192	
	1533																																	

Fernandina Beach, Amelia River, Florida, 2009

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 W	0038	6.8	207		16 Th	0102	6.0	183	1 F	0130	7.0	213	16 Sa	0113	6.0	183	1 M	0308	6.4	195	16 Tu	0209	5.7	174
	0651	0.6	18			0722	1.4	43		0741	0.5	15		0730	1.2	37		0915	0.1	3		0822	0.6	18
	1304	5.7	174			1320	5.3	162		1402	6.1	186		1339	5.5	168		1553	6.7	204		1446	6.1	186
	1900	0.3	9			1916	1.5	46		1958	0.6	18		1935	1.6	49		2154	0.7	21		2058	1.3	40
2 Th	0139	6.7	204		17 F	0152	5.8	177	2 Sa	0231	6.7	204	17 Su	0201	5.8	177	2 Tu	0406	6.1	186	17 W	0302	5.6	171
	0755	0.7	21			0815	1.4	43		0843	0.5	15		0819	1.1	34		1007	0.1	3		0912	0.4	12
	1407	5.6	171			1413	5.3	162		1508	6.2	189		1432	5.7	174		1651	6.8	207		1542	6.4	195
	2008	0.4	12			2017	1.6	49		2106	0.6	18		2036	1.6	49		2252	0.6	18		2157	1.0	30
3 F	0246	6.5	198		18 Sa	0247	5.7	174	3 Su	0335	6.6	201	18 M	0254	5.8	177	3 W	0502	6.0	183	18 Th	0401	5.6	171
	0900	0.6	18			0907	1.3	40		0941	0.3	9		0908	1.0	30		1057	0.1	3		1004	0.2	6
	1517	5.7	174			1511	5.4	165		1614	6.5	198		1528	5.9	180		1745	7.0	213		1641	6.7	204
	2117	0.4	12			2117	1.5	46		2211	0.6	18		2135	1.4	43		2347	0.6	18		2255	0.8	24
4 Sa	0356	6.5	198		19 Su	0345	5.7	174	4 M	0436	6.5	198	19 Tu	0350	5.7	174	4 Th	0554	5.9	180	19 F	0500	5.6	171
	1002	0.5	15			0957	1.2	37		1035	0.2	6		0957	0.7	21		1146	0.2	6		1058	-0.1	-3
	1628	6.0	183			1611	5.7	174		1714	6.8	207		1624	6.3	192		1834	7.1	216		1739	7.1	216
	2223	0.3	9			2215	1.3	40		2311	0.5	15		2232	1.2	37						2352	0.5	15
5 Su	0501	6.6	201		20 M	0442	5.8	177	5 Tu	0533	6.4	195	20 W	0446	5.8	177	5 F	0038	0.5	15	20 Sa	0559	5.8	177
	1100	0.2	6			1044	0.9	27		1127	0.1	3		1045	0.5	15		0643	5.8	177		1154	-0.3	-9
	1732	6.4	195			1707	6.0	183		1809	7.1	216		1718	6.7	204		1232	0.2	6		1836	7.4	226
	2326	0.1	3			2310	1.1	34						2327	0.9	27		1919	7.1	216				
6 M	0600	6.7	204		21 Tu	0535	6.0	183	6 W	0008	0.3	9	21 Th	0541	5.9	180	6 Sa	0125	0.5	15	21 Su	0049	0.2	6
	1155	0.0	0			1131	0.6	18		0625	6.4	195		1134	0.2	6		0728	5.7	174		0656	5.9	180
	1829	6.8	207			1758	6.4	195		1216	0.0	0		1811	7.1	216		1317	0.3	9		1249	-0.6	-18
										1858	7.3	223						2002	7.0	213		1932	7.7	235
7 Tu	0025	-0.1	-3		22 W	0002	0.8	24	7 Th	0100	0.2	6	22 F	0021	0.5	15	7 Su	0209	0.5	15	22 M	0143	-0.1	-3
	0652	6.8	207			0624	6.1	186		0713	6.3	192		0633	6.0	183		0811	5.7	174		0753	6.1	186
	1245	-0.2	-6			1216	0.3	9		1302	0.0	0		1224	-0.1	-3		1359	0.4	12		1344	-0.7	-21
	1921	7.2	219			1846	6.9	210		1944	7.4	226		1901	7.4	226		2043	6.9	210		2028	7.8	238
8 W	0119	-0.2	-6		23 Th	0051	0.5	15	8 F	0148	0.2	6	23 Sa	0113	0.2	6	8 M	0250	0.5	15	23 Tu	0235	-0.3	-9
	0740	6.7	204			0710	6.2	189		0757	6.2	189		0724	6.1	186		0853	5.6	171		0850	6.3	192
	1332	-0.3	-9			1300	0.1	3		1346	0.1	3		1314	-0.3	-9		1439	0.5	15		1438	-0.8	-24
	2008	7.4	226			1931	7.2	219		2027	7.4	226		1952	7.7	235		2123	6.8	207		2123	7.9	241
9 Th	0208	-0.3	-9		24 F	0139	0.2	6	9 Sa	0232	0.2	6	24 Su	0203	0.0	0	9 Tu	0329	0.6	18	24 W	0326	-0.4	-12
	0826	6.6	201			0755	6.3	192		0840	6.1	186		0815	6.2	189		0934	5.5	168		0947	6.4	195
	1415	-0.3	-9			1344	-0.2	-6		1427	0.2	6		1404	-0.5	-15		1517	0.6	18		1532	-0.7	-21
	2053	7.4	226			2016	7.5	229		2108	7.2	219		2044	7.8	238		2202	6.6	201		2217	7.8	238
10 F	0254	-0.2	-6		25 Sa	0225	0.0	0	10 Su	0314	0.3	9	25 M	0253	-0.2	-6	10 W	0406	0.7	21	25 Th	0417	-0.5	-15
	0909	6.4	195			0841	6.3	192		0921	5.9	180		0908	6.3	192		1015	5.5	168		1044	6.5	198
	1456	-0.2	-6			1428	-0.3	-9		1506	0.4	12		1454	-0.6	-18		1555	0.8	24		1626	-0.5	-15
	2135	7.3	223			2103	7.6	232		2148	7.0	213		2137	7.9	241		2240	6.5	198		2310	7.5	229
11 Sa	0337	0.0	0		26 Su	0310	-0.1	-3	11 M	0353	0.5	15	26 Tu	0342	-0.2	-6	11 Th	0443	0.8	24	26 F	0508	-0.4	-12
	0950	6.2	189			1001	5.8	177		1001	5.8	177		1002	6.3	192		1056	5.4	165		1140	6.6	201
	1535	0.1	3			1512	-0.4	-12		1543	0.6	18		1545	-0.5	-15		1633	1.0	30		1724	-0.2	-6
	2216	7.1	216			2151	7.6	232		2228	6.8	207		2231	7.8	238		2319	6.3	192				
12 Su	0418	0.3	9		27 M	0357	-0.1	-3	12 Tu	0433	0.8	24	27 W	0433	-0.1	-3	12 F	0522	0.9	27	27 Sa	0002	7.2	219
	1030	6.0	183			1016	6.3	192		1041	5.6	171		1057	6.3	192		1138	5.5	168		0602	-0.3	-9
	1613	0.4	12			1559	-0.3	-9		1621	0.9	27		1638	-0.3	-9		1715	1.2	37		1236	6.6	201
	2256	6.8	207			2242	7.6	232		2307	6.5	198		2326	7.6	232		2357	6.1	186		1825	0.2	6
13 M	0500	0.6	18		28 Tu	0446	0.1	3	13 W	0513	1.0	30	28 Th	0527	0.0	0	13 Sa	0602	0.9	27	28 Su	0054	6.8	207
	1110	5.7	174			1108	6.2	189		1122	5.5	168		1154	6.3	192		1221	5.5	168		0657	-0.2	-6
	1652	0.7	21			1650	-0.1	-3		1700	1.1	34		1737	0.0	0		1803	1.3	40		1332	6.6	201
	2336	6.5	198			2336	7.4	226		2347	6.3	192								1929		0.4	12	
14 Tu	0543	0.9	27		29 W	0540	0.3	9	14 Th	0555	1.2	37	29 F	0020	7.3	223	14 Su	0038	5.9	180	29 M	0146	6.4	195
	1150	5.5	168			1202	6.1	186		1205	5.4	165		0624	0.1	3		0646	0.9	27		0752	-0.1	-3
	1734	1.0	30			1747	0.1	3		1745	1.4	43		1252	6.4	195		1306	5.6	171		1429	6.6	201
												1840		0.3	9	1858		1.4	43	2032		0.6	18	
15 W	0018	6.2	189		30 Th	0031	7.2	219	15 F	0029	6.1	186	30 Sa	0115	7.0	213	15 M	0121	5.8	177	30 Tu	0239	6.0	183
	0631	1.2	37			0639	0.5	15		0641	1.2	37		0722	0.1	3		0733	0.8	24		0845	0.0	0
	1233	5.4	165			1300	6.1	186		1250	5.4	165		1351	6.4	195		1354	5.8	177		1526	6.6	201
	1821	1.3	40																					

Fernandina Beach, Amelia River, Florida, 2009

Times and Heights of High and Low Waters

July				August				September									
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height				
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm			
1 W	0334	5.7	174			16 Su	0407	5.6	171	1 Tu	0559	5.6	171	16 W	0608	6.6	201
	0937	0.1	3				1011	-0.1	-3		1157	0.8	24		1203	-0.2	-6
	1623	6.6	201				1657	7.0	213		1836	6.5	198		1840	7.4	226
	2228	0.7	21				2306	0.6	18								
2 Th	0429	5.5	168			2 Su	0540	5.3	162	17 M	0039	0.8	24	17 Th	0039	-0.1	-3
	1027	0.2	6				1136	0.6	18		0646	5.9	180		0706	7.0	213
	1717	6.7	204				1824	6.4	195		1244	0.7	21		1301	-0.4	-12
	2321	0.7	21								1918	6.6	201		1933	7.4	226
3 F	0522	5.4	165			3 M	0029	0.8	24	18 Tu	0005	0.2	6	18 F	0129	-0.4	-12
	1116	0.3	9				0629	5.4	165		0620	6.2	189		0730	6.1	186
	1807	6.7	204				1224	0.6	18		1215	-0.5	-15		1328	0.6	18
							1908	6.5	198		1859	7.5	229		1959	6.6	201
4 Sa	0012	0.7	21			4 Tu	0114	0.7	21	19 W	0101	-0.1	-3	4 F	0157	0.4	12
	0612	5.4	165				0715	5.5	168		0720	6.5	198		0812	6.3	192
	1204	0.4	12				1310	0.5	15		1314	-0.7	-21		1409	0.5	15
	1853	6.7	204				1950	6.6	201		1953	7.6	232		2037	6.5	198
5 Su	0059	0.6	18			5 W	0154	0.6	18	20 Th	0153	-0.5	-15	5 Sa	0232	0.3	9
	0658	5.4	165				0759	5.7	174		0817	6.9	210		0853	6.4	195
	1250	0.4	12				1352	0.5	15		1410	-0.8	-24		1448	0.5	15
	1936	6.7	204				2030	6.6	201		2045	7.6	232		2115	6.4	195
6 M	0143	0.6	18			6 Th	0231	0.5	15	21 F	0243	-0.6	-18	6 Su	0307	0.2	6
	0743	5.5	168				0841	5.8	177		0912	7.1	216		0932	6.5	198
	1334	0.4	12				1432	0.5	15		1504	-0.7	-21		1527	0.5	15
	2018	6.7	204				2108	6.5	198		2136	7.5	229		2153	6.3	192
7 Tu	0224	0.5	15			7 F	0307	0.4	12	22 Sa	0330	-0.7	-21	7 M	0342	0.2	6
	0826	5.5	168				0922	5.9	180		1005	7.2	219		1012	6.6	201
	1415	0.5	15				1510	0.5	15		1555	-0.5	-15		1607	0.6	18
	2058	6.6	201				2145	6.4	195		2224	7.2	219		2231	6.1	186
8 W	0302	0.5	15			8 Sa	0340	0.3	9	23 Su	0416	-0.6	-18	8 Tu	0419	0.2	6
	0908	5.5	168				1002	5.9	180		1056	7.2	219		1053	6.6	201
	1454	0.5	15				1548	0.6	18		1647	-0.1	-3		1650	0.7	21
	2136	6.5	198				2222	6.2	189		2312	6.8	207		2312	6.0	183
9 Th	0338	0.5	15			9 Su	0414	0.3	9	24 M	0502	-0.3	-9	9 W	0459	0.3	9
	0949	5.5	168				1041	6.0	183		1146	7.1	216		1137	6.7	204
	1532	0.6	18				1627	0.7	21		1741	0.3	9		1739	0.9	27
	2214	6.4	195				2258	6.1	186		2359	6.4	195		2355	5.8	177
10 F	0413	0.5	15			10 M	0450	0.3	9	25 Tu	0550	0.1	3	10 Th	0547	0.4	12
	1030	5.5	168				1120	6.1	186		1235	6.8	207		1226	6.7	204
	1610	0.8	24				1710	0.9	27		1836	0.7	21		1835	1.0	30
	2250	6.2	189				2336	5.9	180								
11 Sa	0448	0.5	15			11 Tu	0529	0.3	9	26 W	0045	6.0	183	11 F	0044	5.7	174
	1110	5.6	171				1202	6.2	189		0641	0.4	12		0643	0.4	12
	1650	0.9	27				1759	1.0	30		1325	6.6	201		1322	6.7	204
	2327	6.1	186								1934	1.0	30		1938	1.1	34
12 Su	0525	0.5	15			12 W	0018	5.7	174	27 Th	0133	5.7	174	12 Sa	0141	5.6	171
	1151	5.7	174				0614	0.3	9		0735	0.7	21		0746	0.4	12
	1734	1.0	30				1248	6.3	192		1418	6.3	192		1425	6.7	204
							1856	1.1	34		2032	1.2	37		2043	1.1	34
13 M	0005	5.9	180			13 Th	0104	5.6	171	28 F	0223	5.4	165	13 Su	0245	5.7	174
	0605	0.5	15				0707	0.3	9		0830	0.9	27		0852	0.3	9
	1233	5.9	180				1341	6.4	195		1512	6.2	189		1534	6.8	207
	1826	1.1	34				1958	1.1	34		2127	1.3	40		2147	0.9	27
14 Tu	0046	5.7	174			14 F	0157	5.5	168	29 Sa	0317	5.3	162	14 M	0356	5.8	177
	0650	0.4	12				0806	0.2	6		0924	1.0	30		0958	0.2	6
	1319	6.0	183				1441	6.5	198		1608	6.1	186		1642	7.0	213
	1923	1.2	37				2102	1.0	30		2219	1.3	40		2247	0.6	18
15 W	0132	5.6	171			15 Sa	0259	5.5	168	30 Su	0413	5.3	162	15 Tu	0505	6.2	189
	0740	0.3	9				0908	0.1	3		1017	1.0	30		1102	0.0	0
	1409	6.2	189				1549	6.7	204		1702	6.2	189		1744	7.2	219
	2025	1.1	34				2205	0.8	24		2308	1.2	37		2344	0.2	6
16 Th	0354	5.3	162			16 F	0956	0.5	15	31 M	0508	5.4	165	30 W	0526	5.9	180
	0956	0.5	15				1645	6.3	192		1108	0.9	27		1127	1.0	30
	1645	6.3	192				2252	1.0	30		1751	6.3	192		1759	6.3	192
	2252	1.0	30								2355	1.0	30		2358	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.

Mayport, Florida, 2009

Times and Heights of High and Low Waters

January				February				March																					
Time	Height			Time	Height			Time	Height			Time	Height																
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm		h	m	ft	cm										
1 Th	0432	0.3	9		16 F	0023	4.5	137		1 Su	0001	4.3	131		16 M	0126	4.2	128		1 Su	0443	-0.1	-3						
	1119	4.5	137			0618	-0.2	-6			0553	0.2	6			0743	0.4	12			1114	4.1	125						
	1710	0.3	9			1237	4.4	134			1217	4.0	122			1337	3.6	110			1652	-0.3	-9						
	2345	4.2	128			1839	-0.3	-9			1809	-0.2	-6			1940	0.3	9			2341	4.6	140						
2 F	0520	0.5	15		17 Sa	0116	4.4	134		2 M	0052	4.4	134		17 Tu	0223	4.1	125		2 M	0538	0.1	3		17 Tu	0040	4.3	131	
	1158	4.4	134			0720	0.1	3			0656	0.4	12			0840	0.6	18			1202	4.0	122			0703	0.6	18	
	1753	0.3	9			1328	4.1	125			1310	3.8	116			1433	3.5	107			1746	-0.2	-6			1256	3.7	113	
3 Sa	0029	4.3	131		18 Su	0213	4.4	134		3 Tu	0153	4.4	134		18 W	0326	4.0	122		3 Tu	0034	4.6	140		18 W	0131	4.1	125	
	0616	0.6	18			0820	0.3	9			0806	0.4	12			0937	0.7	21			0642	0.3	9			0800	0.8	24	
	1243	4.2	128			1422	3.8	116			1415	3.7	113			1535	3.5	107			1258	3.8	116			1348	3.6	110	
	1843	0.2	6			2025	0.1	3			2012	-0.2	-6			2132	0.5	15			1848	0.0	0			1950	0.8	24	
4 Su	0120	4.4	134		19 M	0313	4.3	131		4 W	0306	4.4	134		19 Th	0427	4.0	122		4 W	0139	4.5	137		19 Th	0231	4.1	125	
	0720	0.6	18			0917	0.5	15			0917	0.3	9			1031	0.7	21			0754	0.4	12			0856	0.9	27	
	1335	4.1	125			1520	3.7	113			1530	3.6	110			1634	3.5	107			1407	3.7	113			1448	3.6	110	
5 M	1938	0.1	3		20 Tu	2117	0.2	6		5 Th	2121	-0.3	-9		20 F	2227	0.4	12		5 Th	1959	0.0	0		20 F	0334	4.1	125	
	0219	4.5	137			0412	4.3	131			0422	4.5	137			0520	4.1	125			0255	4.5	137			0949	0.9	27	
	0827	0.6	18			1013	0.5	15			1026	0.1	3			1122	0.6	18			0905	0.3	9			1551	3.7	113	
	1437	3.9	119			1618	3.6	110			1645	3.7	113			1727	3.6	110			1525	3.7	113			2147	0.8	24	
6 Tu	2037	0.0	0		21 W	2209	0.3	9		6 F	2229	-0.5	-15		21 Sa	2318	0.3	9		6 F	2112	-0.1	-3		21 Sa	0432	4.1	125	
	0326	4.6	140			0507	4.3	131			0531	4.7	143			0606	4.2	128			0412	4.6	140			1038	0.8	24	
	0935	0.4	12			1106	0.5	15			1129	-0.2	-6			1208	0.4	12			1012	0.2	6			1648	3.9	119	
	1547	3.9	119			1712	3.6	110			1752	3.9	119			1815	3.8	116			1639	3.9	119			2241	0.6	18	
7 W	2139	-0.2	-6		22 Th	2300	0.2	6		7 Sa	2335	-0.8	-24		22 Su	2358	0.1	3		7 Sa	2222	-0.3	-9		22 Su	0522	4.2	128	
	0436	4.8	146			0556	4.3	131			0630	5.0	152			0005	0.1	3			0518	4.7	143			1123	0.6	18	
	1041	0.2	6			1156	0.4	12			1227	-0.6	-18			0648	4.4	134			1113	-0.1	-3			1739	4.1	125	
	1657	3.9	119			1801	3.6	110			1851	4.2	128			1248	0.2	6			1744	4.2	128			2331	0.4	12	
8 Th	2242	-0.5	-15		23 F	2348	0.1	3		8 Su	2388	0.1	3		23 M	1858	3.9	119		8 Su	2327	-0.5	-15		23 M	0607	4.3	131	
	0541	5.0	152			0640	4.4	134			0035	-1.1	-34			0048	-0.1	-3			0616	4.9	149			1204	0.3	9	
	1144	-0.2	-6			1241	0.2	6			0725	5.1	155			0726	4.4	134			1208	-0.5	-15			1824	4.3	131	
	1801	4.0	122			1845	3.7	113			1319	-0.9	-27			1324	-0.1	-3			1840	4.5	137						
9 F	2344	-0.8	-24		24 Sa	1946	4.4	134		9 M	1946	4.4	134		24 Tu	1939	4.1	125		9 M	2017	4.2	128		24 Tu	0017	0.2	6	
	0641	5.2	158			0033	-0.1	-3			0130	-1.3	-40			0126	-0.3	-9			0026	-0.8	-24			0648	4.4	134	
	1242	-0.5	-15			0720	4.5	137			0815	5.2	158			0803	4.5	137			0707	5.0	152			1240	0.0	0	
	1901	4.2	128			1322	0.1	3			1408	-1.1	-34			1355	-0.3	-9			1258	-0.8	-24			1906	4.5	137	
10 Sa	0044	-1.1	-34		25 Su	2038	4.6	140		10 Tu	2038	4.6	140		25 W	2017	4.2	128		10 Tu	1932	4.8	146		25 W	0059	-0.1	-3	
	0738	5.4	165			0113	-0.2	-6			0222	-1.4	-43			0202	-0.4	-12			0119	-1.0	-30			0728	4.5	137	
	1336	-0.8	-24			0758	4.5	137			0903	5.1	155			0839	4.5	137			0755	5.0	152			1315	-0.2	-6	
	1958	4.4	134			1358	-0.1	-3			1453	-1.2	-37			1425	-0.4	-12			1344	-1.0	-30			1946	4.7	143	
11 Su	0140	-1.3	-40		26 M	2007	3.9	119		11 W	2128	4.7	143		26 Th	2055	4.4	134		11 W	2020	5.0	152		26 Th	0139	-0.3	-9	
	0831	5.4	165			0149	-0.3	-9			0312	-1.3	-40			0238	-0.4	-12			0209	-1.1	-34			0807	4.5	137	
	1427	-1.0	-30			0834	4.5	137			0949	5.0	152			0915	4.4	134			0840	4.9	149			1349	-0.4	-12	
	2053	4.5	137			1431	-0.2	-6			1537	-1.2	-37			1455	-0.5	-15			1427	-1.0	-30			2027	4.9	149	
12 M	0234	-1.3	-40		27 Tu	2045	3.9	119		12 Th	2216	4.8	146		27 F	2133	4.5	137		12 Th	2106	5.0	152		27 F	0219	-0.4	-12	
	0923	5.4	165			0223	-0.3	-9			0402	-1.0	-30			0316	-0.4	-12			0256	-1.0	-30			0848	4.4	134	
	1516	-1.1	-34			0908	4.5	137			1033	4.7	143			0952	4.3	131			0924	4.7	143			1424	-0.6	-18	
	2147	4.6	140			1500	-0.2	-6			1622	-0.9	-27			1529	-0.5	-15			1507	-0.9	-27			2108	5.0	152	
13 Tu	0327	-1.2	-37		28 W	2122	4.0	122		13 F	2302	4.7	143		28 Sa	2212	4.6	140		13 F	2150	5.0	152		28 Sa	0218	-0.4	-12	
	1012	5.2	158			0256	-0.3	-9			0453	-0.6	-18			0357	-0.3	-9			0342	-0.8	-24			0300	-0.4	-12	
	1605	-1.0	-30			0942	4.4	134			1117	4.4	134			1031	4.2	128			1006	4.5	137			0930	4.4	134	
	2239	4.6	140			1528	-0.2	-6			1707	-0.6	-18			1608	-0.5	-15			1547	-0.7	-21			1503	-0.6	-18	
14 W	0421	-0.9	-27		29 Th	2200	4.1	125		14 Sa	2348	4.6	140		29 Su	2254	4.6	140		14 Sa	2232	4.9	149		29 Su	0344	-0.3	-9	
	1101	5.0	152			0332	-0.2	-6			0547	-0.2	-6			0428	-0.5	-15			0428	-0.5	-15			0344	-0.3	-9	
	1655	-0.8	-24			1016	4.4	134			1201	4.1	125			1047													

Mayport, Florida, 2009

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 W	0027	4.8	146		16 Th	0047	4.3	131		1 F	0123	4.9	149		16 Sa	0054	4.4	134		1 M	0307	4.5	137		16 Tu	0145	4.1	125		17 W	0145	4.1	125		17 Th	0752	0.3	9		18 F	0752	0.3	9		19 Sa	1430	4.4	134		20 Su	2031	0.8	24		21 M	0725	0.2	6		22 Tu	1430	4.4	134		23 W	0841	0.2	6		24 Th	1526	4.6	140		25 F	1526	4.6	140		26 Sa	2132	0.6	18		27 Su	2132	0.6	18		28 M	0240	4.0	122		29 Tu	0841	0.2	6		30 W	0841	0.2	6		31 Th	1526	4.6	140		1 F	1526	4.6	140		2 Sa	2132	0.6	18		3 Su	2132	0.6	18		4 M	0240	4.0	122		5 Tu	0841	0.2	6		6 W	0841	0.2	6		7 Th	1526	4.6	140		8 F	1526	4.6	140		9 Sa	2132	0.6	18		10 Su	2132	0.6	18		11 M	0240	4.0	122		12 Tu	0841	0.2	6		13 W	0841	0.2	6		14 Th	1526	4.6	140		15 F	1526	4.6	140		16 Sa	2132	0.6	18		17 Su	2132	0.6	18		18 M	0240	4.0	122		19 Tu	0841	0.2	6		20 W	0841	0.2	6		21 Th	1526	4.6	140		22 F	1526	4.6	140		23 Sa	2132	0.6	18		24 Su	2132	0.6	18		25 M	0240	4.0	122		26 Tu	0841	0.2	6		27 W	0841	0.2	6		28 Th	1526	4.6	140		29 F	1526	4.6	140		30 Sa	2132	0.6	18		1 Su	2132	0.6	18		2 M	0240	4.0	122		3 Tu	0841	0.2	6		4 W	0841	0.2	6		5 Th	1526	4.6	140		6 F	1526	4.6	140		7 Sa	2132	0.6	18		8 Su	2132	0.6	18		9 M	0240	4.0	122		10 Tu	0841	0.2	6		11 W	0841	0.2	6		12 Th	1526	4.6	140		13 F	1526	4.6	140		14 Sa	2132	0.6	18		15 Su	2132	0.6	18		16 M	0240	4.0	122		17 Tu	0841	0.2	6		18 W	0841	0.2	6		19 Th	1526	4.6	140		20 F	1526	4.6	140		21 Sa	2132	0.6	18		22 Su	2132	0.6	18		23 M	0240	4.0	122		24 Tu	0841	0.2	6		25 W	0841	0.2	6		26 Th	1526	4.6	140		27 F	1526	4.6	140		28 Sa	2132	0.6	18		29 Su	2132	0.6	18		30 M	0240	4.0	122		1 Tu	0841	0.2	6		2 W	0841	0.2	6		3 Th	1526	4.6	140		4 F	1526	4.6	140		5 Sa	2132	0.6	18		6 Su	2132	0.6	18		7 M	0240	4.0	122		8 Tu	0841	0.2	6		9 W	0841	0.2	6		10 Th	1526	4.6	140		11 F	1526	4.6	140		12 Sa	2132	0.6	18		13 Su	2132	0.6	18		14 M	0240	4.0	122		15 Tu	0841	0.2	6		16 W	0841	0.2	6		17 Th	1526	4.6	140		18 F	1526	4.6	140		19 Sa	2132	0.6	18		20 Su	2132	0.6	18		21 M	0240	4.0	122		22 Tu	0841	0.2	6		23 W	0841	0.2	6		24 Th	1526	4.6	140		25 F	1526	4.6	140		26 Sa	2132	0.6	18		27 Su	2132	0.6	18		28 M	0240	4.0	122		29 Tu	0841	0.2	6		30 W	0841	0.2	6		1 Th	1526	4.6	140		2 F	1526	4.6	140		3 Sa	2132	0.6	18		4 Su	2132	0.6	18		5 M	0240	4.0	122		6 Tu	0841	0.2	6		7 W	0841	0.2	6		8 Th	1526	4.6	140		9 F	1526	4.6	140		10 Sa	2132	0.6	18		11 Su	2132	0.6	18		12 M	0240	4.0	122		13 Tu	0841	0.2	6		14 W	0841	0.2	6		15 Th	1526	4.6	140		16 F	1526	4.6	140		17 Sa	2132	0.6	18		18 Su	2132	0.6	18		19 M	0240	4.0	122		20 Tu	0841	0.2	6		21 W	0841	0.2	6		22 Th	1526	4.6	140		23 F	1526	4.6	140		24 Sa	2132	0.6	18		25 Su	2132	0.6	18		26 M	0240	4.0	122		27 Tu	0841	0.2	6		28 W	0841	0.2	6		29 Th	1526	4.6	140		30 F	1526	4.6	140		1 Sa	2132	0.6	18		2 Su	2132	0.6	18		3 M	0240	4.0	122		4 Tu	0841	0.2	6		5 W	0841	0.2	6		6 Th	1526	4.6	140		7 F	1526	4.6	140		8 Sa	2132	0.6	18		9 Su	2132	0.6	18		10 M	0240	4.0	122		11 Tu	0841	0.2	6		12 W	0841	0.2	6		13 Th	1526	4.6	140		14 F	1526	4.6	140		15 Sa	2132	0.6	18		16 Su	2132	0.6	18		17 M	0240	4.0	122		18 Tu	0841	0.2	6		19 W	0841	0.2	6		20 Th	1526	4.6	140		21 F	1526	4.6	140		22 Sa	2132	0.6	18		23 Su	2132	0.6	18		24 M	0240	4.0	122		25 Tu	0841	0.2	6		26 W	0841	0.2	6		27 Th	1526	4.6	140		28 F	1526	4.6	140		29 Sa	2132	0.6	18		30 Su	2132	0.6	18		1 M	0240	4.0	122		2 Tu	0841	0.2	6		3 W	0841	0.2	6		4 Th	1526	4.6	140		5 F	1526	4.6	140		6 Sa	2132	0.6	18		7 Su	2132	0.6	18		8 M	0240	4.0	122		9 Tu	0841	0.2	6		10 W	0841	0.2	6		11 Th	1526	4.6	140		12 F	1526	4.6	140		13 Sa	2132	0.6	18		14 Su	2132	0.6	18		15 M	0240	4.0	122		16 Tu	0841	0.2	6		17 W	0841	0.2	6		18 Th	1526	4.6	140		19 F	1526	4.6	140		20 Sa	2132	0.6	18		21 Su	2132	0.6	18		22 M	0240	4.0	122		23 Tu	0841	0.2	6		24 W	0841	0.2	6		25 Th	1526	4.6	140		26 F	1526	4.6	140		27 Sa	2132	0.6	18		28 Su	2132	0.6	18		29 M	0240	4.0	122		30 Tu	0841	0.2	6		1 W	0841	0.2	6		2 Th	1526	4.6	140		3 F	1526	4.6	140		4 Sa	2132	0.6	18		5 Su	2132	0.6	18		6 M	0240	4.0	122		7 Tu	0841	0.2	6		8 W	0841	0.2	6		9 Th	1526	4.6	140		10 F	1526	4.6	140		11 Sa	2132	0.6	18		12 Su	2132	0.6	18		13 M	0240	4.0	122		14 Tu	0841	0.2	6		15 W	0841	0.2	6		16 Th	1526	4.6	140		17 F	1526	4.6	140		18 Sa	2132	0.6	18		19 Su	2132	0.6	18		20 M	0240	4.0	122		21 Tu	0841	0.2	6		22 W	0841	0.2	6		23 Th	1526	4.6	140		24 F	1526	4.6	140		25 Sa	2132	0.6	18		26 Su	2132	0.6	18		27 M	0240	4.0	122		28 Tu	0841	0.2	6		29 W	0841	0.2	6		30 Th	1526	4.6	140		1 F	1526	4.6	140		2 Sa	2132	0.6	18		3 Su	2132	0.6

Mayport, Florida, 2009

Times and Heights of High and Low Waters

July				August				September																					
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height																
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm															
1 W	0333	4.1	125		16 Th	0202	4.0	122		1 Sa	0452	3.9	119		16 Su	0400	4.2	128		1 Tu	0557	4.5	137		16 W	0604	5.2	158	
	0926	-0.1	-3			0803	0.1	3			1038	0.5	15			0949	0.1	3			1147	0.8	24			1150	0.1	3	
	1622	4.8	146			1451	4.7	143			1736	4.8	146			1649	5.3	162			1829	5.1	155			1832	5.8	177	
	2219	0.4	12			2101	0.7	21			2336	0.7	21			2252	0.5	15											
2 Th	0431	3.9	119		17 F	0305	3.9	119		2 Su	0543	4.0	122		17 M	0511	4.4	134		2 W	0031	0.8	24		17 Th	0025	0.0	0	
	1017	0.0	0			0902	0.0	0			1128	0.4	12			1055	-0.1	-3			0641	4.6	140			0659	5.5	168	
	1716	4.8	146			1557	4.9	149			1822	4.8	146			1752	5.5	168			1231	0.7	21			1247	-0.1	-3	
	2313	0.3	9			2206	0.5	15			2352	0.2	6			2352	0.2	6			1908	5.1	155			1923	5.8	177	
3 F	0524	3.9	119		18 Sa	0414	3.9	119		3 M	0023	0.6	18		18 Tu	0615	4.6	140		3 Th	0108	0.7	21		18 F	0114	-0.2	-6	
	1106	0.1	3			1003	-0.2	-6			0629	4.0	122			1158	-0.4	-12			0722	4.7	143			0751	5.7	174	
	1805	4.8	146			1703	5.0	152			1214	0.4	12			1849	5.6	171			1311	0.6	18			1340	-0.2	-6	
						2309	0.2	6			1904	4.9	149								1944	5.1	155		●	2011	5.7	174	
4 Sa	0004	0.3	9		19 Su	0522	4.0	122		4 Tu	0106	0.5	15		19 W	0047	-0.2	-6		4 F	0141	0.5	15		19 Sa	0159	-0.3	-9	
	0613	3.8	116			1106	-0.5	-15			0712	4.1	125			0713	4.9	149			0801	4.9	149			0841	5.8	177	
	1154	0.1	3			1805	5.2	158			1257	0.3	9			1257	-0.6	-18			1348	0.5	15			1430	-0.2	-6	
	1850	4.8	146								1942	4.9	149			1943	5.7	174		○	2020	5.1	155			2058	5.5	168	
5 Su	0051	0.2	6		20 M	0009	-0.1	-3		5 W	0145	0.3	9		20 Th	0137	-0.5	-15		5 Sa	0210	0.4	12		20 Su	0243	-0.3	-9	
	0658	3.8	116			0626	4.2	128			0754	4.2	128			0809	5.1	155			0839	5.0	152			0929	5.9	180	
	1239	0.0	0			1208	-0.7	-21			1336	0.2	6		●	1353	-0.7	-21			1423	0.5	15			1520	0.0	0	
	1932	4.8	146			1904	5.4	165		○	2019	4.9	149		●	2034	5.7	174			2056	5.0	152			2145	5.3	162	
6 M	0134	0.1	3		21 Tu	0106	-0.4	-12		6 Th	0219	0.3	9		21 F	0225	-0.7	-21		6 Su	0239	0.4	12		21 M	0326	-0.1	-3	
	0741	3.8	116			0727	4.4	134			0833	4.3	131			0902	5.3	162			0917	5.1	155			1016	5.8	177	
	1321	0.0	0		●	1307	-0.9	-27			1412	0.2	6			1446	-0.6	-18			1459	0.6	18			1609	0.3	9	
	2011	4.8	146			●	2000	5.5	168			2053	4.8	146			2123	5.6	171			2132	4.9	149			2230	5.1	155
7 Tu	0214	0.1	3		22 W	0158	-0.7	-21		7 F	0249	0.2	6		22 Sa	0312	-0.7	-21		7 M	0310	0.3	9		22 Tu	0410	0.2	6	
	0822	3.8	116			0825	4.6	140			0911	4.3	131			0953	5.4	165			0955	5.2	158			1102	5.6	171	
	1359	0.0	0			1404	-1.0	-30			1446	0.3	9			1538	-0.4	-12			1537	0.7	21			1700	0.6	18	
○	2048	4.7	143			2054	5.6	171			2127	4.8	146			2211	5.4	165			2211	4.8	146			2315	4.9	149	
8 W	0251	0.1	3		23 Th	0249	-0.8	-24		8 Sa	0317	0.2	6		23 Su	0358	-0.5	-15		8 Tu	0346	0.4	12		23 W	0457	0.6	18	
	0901	3.9	119			0921	4.8	146			0949	4.5	137			1043	5.4	165			1036	5.3	162			1148	5.4	165	
	1435	0.1	3			1459	-0.9	-27			1521	0.4	12			1632	-0.1	-3			1620	0.8	24			1755	1.0	30	
	2123	4.7	143			2145	5.5	168			2202	4.7	143			2258	5.1	155			2252	4.7	143						
9 Th	0324	0.1	3		24 F	0338	-0.9	-27		9 Su	0346	0.2	6		24 M	0446	-0.2	-6		9 W	0427	0.5	15		24 Th	0001	4.7	143	
	0940	3.9	119			1016	4.9	149			1026	4.6	140			1133	5.4	165			1120	5.3	162			0548	0.9	27	
	1509	0.2	6			1555	-0.7	-21			1558	0.5	15			1729	0.2	6			1711	1.0	30			1237	5.3	162	
	2158	4.6	140			2236	5.3	162			2237	4.6	140			2346	4.9	149			2337	4.6	140			1853	1.3	40	
10 F	0355	0.2	6		25 Sa	0429	-0.8	-24		10 M	0418	0.3	9		25 Tu	0536	0.1	3		10 Th	0517	0.6	18		25 F	0049	4.6	140	
	1018	4.0	122			1109	5.0	152			1104	4.7	143			1223	5.2	158			1210	5.3	162			0644	1.2	37	
	1544	0.3	9			1653	-0.4	-12			1641	0.7	21			1828	0.6	18			1811	1.2	37			1329	5.1	155	
	2232	4.6	140			2325	5.1	155			2315	4.5	137											○	1950	1.5	46		
11 Sa	0426	0.2	6		26 Su	0520	-0.6	-18		11 Tu	0457	0.3	9		26 W	0034	4.6	140		11 F	0029	4.6	140		26 Sa	0142	4.5	137	
	1056	4.1	125			1202	5.0	152			1145	4.8	146			0629	0.4	12			0615	0.7	21			0743	1.4	43	
	1622	0.5	15			1754	-0.1	-3			1731	0.8	24			1316	5.1	155			1308	5.3	162			1425	5.0	152	
	2306	4.5	137								2356	4.4	134			1927	0.9	27		○	1919	1.2	37			2045	1.6	49	
12 Su	0458	0.3	9		27 M	0015	4.8	146		12 W	0543	0.3	9		27 Th	0125	4.4	134		12 Sa	0130	4.5	137		27 Su	0239	4.5	137	
	1135	4.2	128			0613	-0.3	-9			1230	4.9	149			0725	0.7	21			0722	0.7	21			0840	1.5	46	
	1706	0.6	18			1256	5.0	152			1829	0.9	27			1412	5.0	152			1416	5.3	162			1523	5.0	152	
	2343	4.4	134			1857	0.2	6						○	2025	1.1	34			2029	1.2	37			2136	1.6	49		
13 M	0536	0.3	9		28 Tu	0107	4.5	137		13 Th	0043	4.3	131		28 F	0221	4.3	131		13 Su	0241	4.5	137		28 M	0337	4.6	140	
	1216	4.4	134			0708	-0.1	-3			0637	0.4	12			0821	0.9	27			0832	0.7	21	</					

Mayport, Florida, 2009

Times and Heights of High and Low Waters

October			November			December																	
Time	Height		Time	Height		Time	Height		Time	Height													
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm									
1 Th	0606	5.1	155	16 F	0001	0.2	6	1 Su	0014	0.6	18	16 M	0109	0.0	0								
	1200	1.1	34		0644	5.9	180		0654	5.6	171		0800	5.7	174	0713	5.5	168					
	1827	5.2	158		1235	0.2	6		1255	0.7	21		1357	0.1	3	1317	0.2	6					
				1902	5.6	171	1911	5.0	152	2012	4.8	146	1932	4.5	137	16 W	0131	-0.1	-3				
2 F	0024	0.9	27	17 Sa	0049	0.0	0	2 M	0054	0.3	9	17 Tu	0151	0.0	0		2 W	0112	-0.3	-9			
	0648	5.2	158		0733	6.0	183		0738	5.7	174		0843	5.6	171			0804	5.6	171			
	1242	0.9	27		1326	0.1	3		1337	0.5	15		1441	0.2	6	1404		0.0	0				
	1906	5.2	158	1949	5.4	165	1956	4.9	149	2055	4.7	143	2024	4.6	140	2024	4.6	140	1501	0.1	3		
3 Sa	0058	0.7	21	18 Su	0133	-0.1	-3	3 Tu	0134	0.2	6	18 W	0232	0.2	6	3 Th	0201	-0.5	-15	18 F	0249	0.0	0
	0728	5.4	165		0820	6.0	183		0822	5.8	177		0924	5.5	168		0856	5.7	174		0939	4.9	149
	1322	0.7	21		1414	0.1	3		1420	0.4	12		1523	0.4	12		1453	-0.1	-3		1539	0.2	6
	1945	5.2	158	2034	5.3	162	2042	4.9	149	2136	4.6	140	2118	4.6	140	2150	4.1	125	2150	4.1	125		
4 Su	0130	0.5	15	19 M	0216	0.0	0	4 W	0217	0.1	3	19 Th	0311	0.3	9	4 F	0251	-0.5	-15	19 Sa	0325	0.1	3
	0807	5.5	168		0905	5.9	180		0910	5.8	177		1004	5.3	162		0949	5.7	174		1014	4.8	146
	1400	0.6	18		1500	0.2	6		1505	0.4	12		1605	0.6	18		1543	-0.1	-3		1616	0.3	9
	2024	5.1	155	2119	5.1	155	2131	4.8	146	2217	4.5	137	2213	4.6	140	2229	4.1	125	2229	4.1	125		
5 M	0204	0.4	12	20 Tu	0257	0.2	6	5 Th	0303	0.1	3	20 F	0350	0.6	18	5 Sa	0344	-0.4	-12	20 Su	0401	0.3	9
	0847	5.6	171		0948	5.8	177		1000	5.8	177		1043	5.2	158		1042	5.6	171		1049	4.7	143
	1439	0.6	18		1545	0.5	15		1554	0.5	15		1649	0.8	24		1637	0.0	0		1652	0.5	15
	2105	5.0	152	2202	4.9	149	2223	4.8	146	2258	4.4	134	2309	4.7	143	2307	4.1	125	2307	4.1	125		
6 Tu	0240	0.4	12	21 W	0338	0.5	15	6 F	0353	0.2	6	21 Sa	0431	0.8	24	6 Su	0443	-0.1	-3	21 M	0439	0.6	18
	0929	5.7	174		1031	5.6	171		1054	5.7	174		1123	5.0	152		1137	5.4	165		1125	4.6	140
	1520	0.7	21		1632	0.8	24		1649	0.7	21		1734	1.0	30		1736	0.1	3		1728	0.6	18
	2149	4.9	149	2245	4.8	146	2319	4.8	146	2340	4.4	134	2340	4.4	134	2347	4.1	125	2347	4.1	125		
7 W	0320	0.4	12	22 Th	0421	0.8	24	7 Sa	0450	0.4	12	22 Su	0516	1.1	34	7 M	0008	4.7	143	22 Tu	0523	0.8	24
	1015	5.7	174		1114	5.4	165		1150	5.6	171		1203	4.9	149		1233	5.3	162		1202	4.5	137
	1606	0.8	24		1722	1.1	34		1752	0.8	24		1821	1.2	37		1837	0.1	3		1806	0.7	21
	2235	4.9	149	2329	4.7	143																	
8 Th	0406	0.5	15	23 F	0507	1.1	34	8 Su	0018	4.8	146	23 M	0024	4.4	134	8 Tu	0110	4.8	146	23 W	0029	4.2	128
	1104	5.7	174		1158	5.3	162		0557	0.7	21		0608	1.3	40		0700	0.3	9		0613	0.9	27
	1659	1.0	30		1815	1.4	43		1249	5.5	168		1245	4.8	146		1331	5.0	152		1241	4.3	131
	2326	4.8	146				1858	0.8	24	1908	1.3	40	1937	0.1	3	1847	0.7	21	1847	0.7	21		
9 F	0500	0.7	21	24 Sa	0014	4.6	140	9 M	0123	4.8	146	24 Tu	0112	4.4	134	9 W	0214	4.9	149	24 Th	0115	4.2	128
	1159	5.6	171		0600	1.4	43		0710	0.8	24		0705	1.4	43		0809	0.4	12		0709	1.0	30
	1801	1.2	37		1245	5.1	155		1353	5.4	165		1330	4.7	143		1433	4.8	146		1326	4.2	128
			1909	1.6	49	1909	1.6	49	2001	0.7	21	1953	1.2	37	2034	0.1	3	1932	0.6	18			
10 Sa	0023	4.7	143	25 Su	0102	4.5	137	10 Tu	0232	5.0	152	25 W	0203	4.5	137	10 Th	0320	5.0	152	25 F	0205	4.3	131
	0603	0.9	27		0658	1.6	49		0822	0.8	24		0803	1.5	46		0914	0.5	15		0809	1.0	30
	1300	5.5	168		1334	5.0	152		1458	5.3	162		1420	4.6	140		1535	4.6	140		1418	4.0	122
	1910	1.2	37	2002	1.6	49	2100	0.6	18	2036	1.1	34	2129	0.1	3	2020	0.5	15	2020	0.5	15		
11 Su	0128	4.7	143	26 M	0156	4.6	140	11 W	0339	5.2	158	26 Th	0258	4.6	140	11 F	0422	5.1	155	26 Sa	0302	4.4	134
	0715	1.0	30		0757	1.7	52		0928	0.7	21		0859	1.4	43		1015	0.4	12		0909	0.9	27
	1407	5.5	168		1427	5.0	152		1600	5.3	162		1513	4.5	137		1635	4.5	137		1517	3.9	119
	2018	1.2	37	2050	1.6	49	2155	0.4	12	2119	1.0	30	2222	0.0	0	2112	0.3	9	2112	0.3	9		
12 M	0239	4.8	146	27 Tu	0252	4.6	140	12 Th	0441	5.4	165	27 F	0352	4.8	146	12 Sa	0518	5.2	158	27 Su	0402	4.6	140
	0829	0.9	27		0853	1.7	52		1030	0.6	18		0954	1.2	37		1112	0.3	9		1009	0.7	21
	1516	5.5	168		1520	5.0	152		1658	5.2	158		1607	4.5	137		1730	4.4	134		1619	3.9	119
	2120	1.0	30	2135	1.5	46	2247	0.3	9	2202	0.7	21	2202	0.7	21	2313	0.0	0	2207	0.1	3		
13 Tu	0351	5.1	155	28 W	0348	4.8	146	13 F	0537	5.6	171	28 Sa	0445	5.0	152	13 Su	0610	5.3	162	28 M	0502	4.8	146
	0937	0.8	24		0946	1.6	49		1128	0.4	12		1047	1.0	30		1205	0.2	6		1108	0.4	12
	1621	5.6	171		1611	5.0	152		1751	5.1	155		1700	4.5	137		1821	4.4	134		1720	4.0	122
	2217	0.7	21	2217	1.3	40	2337	0.1	3	2348	0.5	15	2248	0.5	15	2304	-0.2	-6	2304	-0.2	-6		
14 W	0455	5.3	162	29 Th	0440	5.0	152	14 Sa	0627	5.8	177	29 Su	0535	5.2	158	14 M	0002	-0.1	-3	29 Tu	0600	5.0	152
	1041	0.6	18		1037	1.4	43		1221	0.3	9		1139	0.7	21		0657	5.3	162		1204	0.1	3
	1719	5.6	171		1659	5.0	152		1841	5.0	152		1751	4.5	137		1254	0.1	3		1818	4.0	122
	2311	0.4	12	2257	1.1	34						1908	4.3	131	1908	4.3	131	1818	4.0	122			
15 Th	0552	5.6	171	30 F	0527	5.2	158	15 Su	0024	0.0	0	30 M	0624	5.4	165	15 Tu	0048	-0.1	-3	30 W	0000	-0.6	-18
	1140	0.4	12		1125	1.2	37		0715	5.8	177		1228	0.4	12		0742	5.2	158		0655	5.2	158
	1812	5.6	171		1744	5.0	152		1311	0.2	6		1842	4.5	137		1340	0.0	0		1258	-0.2	-6
			2336	0.8	24	1928	4.9	149				1951	4.2	128	1914	4.2	128	1914	4				

Port Canaveral (Trident Pier), Florida, 2009

Times and Heights of High and Low Waters

January				February				March													
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height								
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm							
1 Th	0416	0.3	9			1 Su	0538	0.2	6			1 Su	0426	0.0	0						
	1036	3.5	107	16 F	0536		0.0	0			16 M		0701	0.5	15	16 M	0530	0.4	12		
	1658	0.2	6		1137		3.3	101	1130	2.9			88	1241	2.4		73	1115	2.7	82	
	2301	3.0	91		1800		-0.3	-9	1748	-0.2			-6	1856	0.1		3	1630	-0.3	-9	1723	0.2	6
														2257	3.8		116	2353	3.4	104	
2 F	0506	0.4	12			2 M	0013	3.4	104			2 M	0521	0.2	6	17 Tu	0623	0.6	18		
	1116	3.3	101	0021	3.4		104	0636	0.3	9	0137		3.2	98	1110		2.9	88	1203	2.5	76
	1739	0.1	3	0637	0.3		9	1222	2.7	82	1341		2.3	70	1720		-0.3	-9	1815	0.4	12
	2349	3.1	94	1228	2.9		88	1840	-0.3	-9	1950		0.3	9	2351		3.7	113			
3 Sa	0601	0.5	15			3 Tu	0113	3.5	107			3 W	0620	0.3	9	18 W	0048	3.2	98		
	1200	3.1	94	0123	3.3		101	0739	0.3	9	0900		0.7	21	1204		2.8	85	0717	0.7	21
	1824	0.1	3	0738	0.5		15	1323	2.6	79	1447		2.3	70	1818		-0.2	-6	1259	2.4	73
				1324	2.6		79	1938	-0.3	-9	2047		0.3	9	1910		0.5	15	1910	0.5	15
4 Su	0043	3.3	101			4 W	0220	3.6	110			4 Th	0053	3.7	113	19 Th	0151	3.1	94		
	0700	0.5	15	0227	3.3		101	0844	0.3	9	0958		0.7	21	0723		0.3	9	0813	0.8	24
	1252	2.9	88	0841	0.6		18	1431	2.6	79	1547		2.3	70	1307		2.7	82	1404	2.4	73
	1913	-0.1	-3	1426	2.4		73	2040	-0.4	-12	2144		0.2	6	1920		-0.2	-6	2008	0.5	15
5 M	0143	3.5	107			5 Th	0328	3.8	116			5 F	0202	3.7	113	20 F	0254	3.1	94		
	0802	0.5	15	0327	3.3		101	0950	0.2	6	1050		0.6	18	0828		0.3	9	0909	0.8	24
	1351	2.8	85	0943	0.6		18	1539	2.7	82	1639		2.5	76	1419		2.7	82	1508	2.5	76
	2005	-0.2	-6	1527	2.3		70	2145	-0.6	-18	2237		0.1	3	2026		-0.3	-9	2106	0.5	15
6 Tu	0245	3.7	113			6 F	0431	4.0	122			6 Sa	0312	3.8	116	21 Sa	0349	3.2	98		
	0905	0.4	12	0421	3.4		104	1053	0.0	0	1134		0.4	12	0934		0.2	6	1000	0.6	18
	1454	2.8	85	1041	0.6		18	1642	3.0	91	1724		2.6	79	1529		2.9	88	1603	2.7	82
	2102	-0.4	-12	1621	2.4		73	2248	-0.8	-24	2325		0.0	0	2134		-0.4	-12	2202	0.4	12
7 W	0347	4.0	122			7 Sa	0530	4.2	128			7 Su	0416	3.9	119	22 Su	0435	3.3	101		
	1009	0.2	6	0508	3.4		104	1150	-0.2	-6	1212		0.2	6	1035		0.0	0	1046	0.5	15
	1556	2.9	88	1129	0.5		15	1742	3.2	98	1807		2.8	85	1634		3.2	98	1651	2.9	88
	2201	-0.6	-18	1709	2.4		73	2348	-0.9	-27	0600		3.4	104	2239		-0.5	-15	2254	0.2	6
8 Th	0446	4.3	131			8 Su	0624	4.3	131			8 M	0514	4.0	122	23 M	0517	3.4	104		
	1110	0.0	0	0551	3.5		107	1242	-0.4	-12	0638		3.5	107	1130		-0.2	-6	1127	0.3	9
	1656	3.0	91	1210	0.4		12	1840	3.5	107	1247		0.1	3	1733		3.5	107	1734	3.2	98
	2301	-0.8	-24	1753	2.6		79				1848		3.0	91	2339		-0.6	-18	2341	0.1	3
9 F	0543	4.5	137			9 M	0044	-1.0	-30			9 Tu	0606	4.0	122	24 Tu	0557	3.4	104		
	1207	-0.2	-6	0631	3.6		110	0716	4.3	131	0714		3.6	110	1219		-0.4	-12	1204	0.0	0
	1754	3.2	98	1247	0.3		9	1330	-0.6	-18	1321		-0.1	-3	1827		3.7	113	1816	3.4	104
	2359	-1.0	-30	1835	2.7		82	1934	3.7	113	1928		3.2	98							
10 Sa	0639	4.6	140			10 Tu	0137	-1.0	-30			10 W	0129	-0.3	-9	10 Th	0025	0.0	0		
	1300	-0.4	-12	0032	-0.2		-6	0805	4.2	128	0751		3.6	110	0655		4.0	122	0637	3.5	107
	1852	3.4	104	0709	3.7		113	1415	-0.7	-21	1354		-0.2	-6	1304		-0.5	-15	1240	-0.1	-3
				1322	0.1		3	2026	3.8	116	2008		3.4	104	1918		4.0	122	1858	3.7	113
11 Su	0054	-1.1	-34			11 W	0229	-0.8	-24			11 Th	0125	-0.6	-18	26 Th	0107	-0.1	-3		
	0733	4.6	140	0111	-0.2		-6	0851	4.0	122	0827		3.5	107	0742		3.9	119	0716	3.5	107
	1351	-0.5	-15	0746	3.7		113	1500	-0.7	-21	1429		-0.3	-9	1346		-0.6	-18	1317	-0.3	-9
	1948	3.5	107	1356	0.0		0	2116	3.9	119	2047		3.6	110	2007		4.1	125	1939	3.9	119
12 M	0148	-1.0	-30			12 Th	0320	-0.6	-18			12 F	0214	-0.5	-15	27 F	0150	-0.2	-6		
	0825	4.6	140	0150	-0.2		-6	0935	3.7	113	0904		3.4	104	0826		3.7	113	0757	3.4	104
	1440	-0.6	-18	0822	3.7		113	1545	-0.6	-18	1505		-0.3	-9	1427		-0.6	-18	1354	-0.4	-12
	2043	3.6	110	1430	0.0		0	2205	3.8	116	2128		3.7	113	2053		4.1	125	2021	4.1	125
13 Tu	0243	-0.9	-27			13 F	0413	-0.3	-9			13 Sa	0302	-0.3	-9	28 Sa	0235	-0.2	-6		
	0914	4.4	134	0229	-0.2		-6	1019	3.4	104	0943		3.3	101	0908		3.4	104	0839	3.4	104
	1530	-0.6	-18	0856	3.6		110	1630	-0.4	-12	1545		-0.3	-9	1508		-0.4	-12	1434	-0.4	-12
	2137	3.7	113	1505	-0.1		-3	2253	3.7	113	2210		3.8	116	2137		4.0	122	2105	4.2	128
14 W	0338	-0.6	-18			14 Sa	0508	0.0	0			14 Su	0350	-0.1	-3	29 Su	0322	-0.1	-3		
	1002	4.1	125	0310	-0.1		-3	1103	3.0	91	0950		3.2	98	0922		3.2	98	0922	3.2	98
	1620	-0.5	-15	0931	3.5		107	1716	-0.2	-6	1550		-0.2	-6	1550		-0.2	-6	1518	-0.4	-12
	2230	3.6	110	1541	-0.1		-3	2342	3.5	107	2221		3.9	119	2221		3.9	119	2151	4.2	128
15 Th	0436	-0.3	-9			15 Su	0604	0.3	9			15 Su	0439	0.2	6	30 M	0413	0.0	0		
	1049	3.7	113	0355	0.0		0	1149	2.7	82	1031		2.9	88	1031		2.9	88	1008	3.1	94
	1710	-0.4	-12	1008	3.3		101	1805	0.0	0	1635		0.0	0	1635		0.0	0	1607	-0.3	-9
	2324	3.5	107	1619	-0.2		-6				2305		3.6	110	2305		3.6	110	2241	4.2	128
			2234	3.3	101																
			31 Sa	0444	0.1	3															
				1047	3.1	94															
				1701	-0.2	-6															
				2320	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.

Port Canaveral (Trident Pier), Florida, 2009

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 W	0609	0.3	9		16 Th	0006	3.3	101		1 F	0024	4.0	122		16 Sa	0016	3.3	101		1 M	0205	3.3	101		16 Tu	0107	3.0	91	
	1154	2.9	88			0639	0.7	21			0658	0.1	3			0649	0.5	15			0823	-0.3	-9			0730	0.0	0	
	1805	-0.1	-3			1223	2.5	76		○	1255	3.1	94			1246	2.6	79			1458	3.6	110			1355	3.2	98	
						1832	0.6	18			1902	0.0	0			1851	0.6	18			2102	0.3	9			2006	0.5	15	
2 Th	0038	3.9	119		17 F	0101	3.2	98		2 Sa	0129	3.8	116		17 Su	0105	3.1	94		2 Tu	0304	3.1	94		17 W	0159	2.9	88	
	0711	0.3	9			0730	0.7	21			0756	0.1	3			0733	0.4	12			0914	-0.3	-9			0815	-0.1	-3	
○	1300	2.9	88		○	1323	2.5	76			1407	3.2	98		○	1343	2.8	85			1556	3.8	116			1450	3.5	107	
	1910	-0.1	-3			1929	0.7	21			2009	0.1	3			1946	0.7	21			2206	0.3	9			2103	0.5	15	
3 F	0147	3.8	116		18 Sa	0158	3.1	94		3 Su	0233	3.6	110		18 M	0157	3.1	94		3 W	0359	2.9	88		18 Th	0254	2.8	85	
	0814	0.3	9			0819	0.7	21			0852	0.0	0			0817	0.3	9			1002	-0.2	-6			0903	-0.3	-9	
	1413	3.0	91			1426	2.6	79			1514	3.5	107			1438	3.0	91			1647	3.9	119			1637	4.2	116	
	2018	0.0	0			2026	0.6	18			2116	0.1	3			2042	0.6	18			2305	0.3	9			2202	0.3	9	
4 Sa	0255	3.7	113		19 Su	0253	3.1	94		4 M	0333	3.5	107		19 Tu	0248	3.0	91		4 Th	0450	2.8	85		19 F	0349	2.8	85	
	0915	0.2	6			0907	0.5	15			0945	-0.1	-3			0901	0.1	3			1049	-0.2	-6			0955	-0.4	-12	
	1523	3.2	98			1522	2.9	88			1614	3.7	113			1530	3.3	101			1734	4.0	122			1637	4.1	125	
	2126	-0.1	-3			2122	0.6	18			2221	0.1	3			2139	0.5	15			2357	0.3	9			2300	0.1	3	
5 Su	0358	3.7	113		20 M	0343	3.2	98		5 Tu	0427	3.4	104		20 W	0338	3.0	91		5 F	0538	2.7	82		20 Sa	0444	2.9	88	
	1013	0.0	0			0953	0.4	12			1035	-0.2	-6			0946	-0.1	-3			1134	-0.2	-6			1049	-0.6	-18	
	1626	3.5	107			1612	3.2	98			1707	3.9	119			1619	3.7	113			1819	4.0	122			1731	4.3	131	
	2231	-0.1	-3			2217	0.4	12			2320	0.1	3			2234	0.3	9			2356	0.0	0			2356	0.0	0	
6 M	0453	3.7	113		21 Tu	0428	3.2	98		6 W	0517	3.2	98		21 Th	0428	3.0	91		6 Sa	0042	0.2	6		21 Su	0540	3.0	91	
	1105	-0.2	-6			1036	0.2	6			1121	-0.3	-9			1033	-0.3	-9			0624	2.7	82			1144	-0.8	-24	
	1722	3.8	116			1657	3.5	107			1755	4.1	125			1707	4.0	122			1217	-0.2	-6			1825	4.5	137	
	2331	-0.2	-6			2308	0.3	9								2328	0.1	3			1901	4.0	122						
7 Tu	0543	3.7	113		22 W	0512	3.3	101		7 Th	0012	0.1	3		22 F	0517	3.0	91		7 Su	0123	0.2	6		22 M	0050	-0.2	-6	
	1152	-0.3	-9			1117	-0.1	-3			0604	3.1	94			1120	-0.5	-15			0708	2.7	82			0637	3.1	94	
	1812	4.0	122			1741	3.8	116			1203	-0.3	-9			1756	4.3	131			1258	-0.1	-3			1238	-0.9	-27	
						2357	0.1	3			1840	4.2	128							○	1942	3.9	119		○	1920	4.7	143	
8 W	0024	-0.2	-6		23 Th	0556	3.3	101		8 F	0059	0.1	3		23 Sa	0020	-0.1	-3		8 M	0202	0.2	6		23 Tu	0143	-0.3	-9	
	0631	3.6	110			1159	-0.3	-9			0650	3.0	91			0608	3.1	94			0751	2.6	79			0735	3.2	98	
	1234	-0.4	-12			1826	4.1	125		○	1244	-0.3	-9			1208	-0.6	-18			1338	-0.1	-3			1333	-0.9	-27	
	1900	4.2	128								1923	4.2	128			1846	4.5	137			2023	3.9	119			2015	4.7	143	
9 Th	0113	-0.2	-6		24 F	0044	-0.1	-3		9 Sa	0142	0.1	3		24 Su	0110	-0.2	-6		9 Tu	0241	0.3	9		24 W	0235	-0.4	-12	
	0716	3.5	107			0641	3.3	101			0733	2.9	88			0700	3.1	94			0833	2.6	79			0832	3.3	101	
	1315	-0.4	-12		●	1240	-0.4	-12			1324	-0.2	-6			1258	-0.7	-21			1419	0.0	0			1429	-0.9	-27	
○	1945	4.3	131			1911	4.3	131			2004	4.1	125		●	1938	4.6	140			2102	3.8	116			2108	4.6	140	
10 F	0158	-0.2	-6		25 Sa	0130	-0.2	-6		10 Su	0223	0.2	6		25 M	0201	-0.3	-9		10 W	0321	0.3	9		25 Th	0329	-0.4	-12	
	0759	3.3	101			0727	3.3	101			0816	2.9	88			0754	3.2	98			0914	2.6	79			0929	3.4	104	
	1354	-0.3	-9			1323	-0.5	-15			1403	-0.1	-3			1348	-0.8	-24			1501	0.1	3			1527	-0.7	-21	
	2028	4.2	128			1958	4.5	137			2045	4.0	122			2030	4.7	143			2141	3.7	113			2200	4.4	134	
11 Sa	0242	0.0	0		26 Su	0218	-0.2	-6		11 M	0304	0.2	6		26 Tu	0253	-0.3	-9		11 Th	0402	0.3	9		26 F	0423	-0.5	-15	
	0841	3.2	98			0815	3.3	101			0857	2.8	85			0848	3.2	98			0956	2.6	79			1026	3.5	107	
	1433	-0.2	-6			1408	-0.5	-15			1444	0.1	3			1442	-0.7	-21			1546	0.3	9			1628	-0.4	-12	
	2110	4.1	125			2046	4.6	140			2125	3.9	119			2123	4.6	140			2219	3.6	110			2251	4.1	125	
12 Su	0326	0.1	3		27 M	0308	-0.2	-6		12 Tu	0346	0.3	9		27 W	0348	-0.2	-6		12 F	0444	0.3	9		27 Sa	0518	-0.4	-12	
	0922	3.0	91			0904	3.2	98			0938	2.7	82			0943	3.2	98			1038	2.6	79			1125	3.5	107	
	1514	0.0	0			1457	-0.5	-15			1527	0.2	6			1539	-0.6	-18			1633	0.4	12			1732	-0.2	-6	
	2151	4.0	122			2137	4.5	137			2206	3.7	113			2216	4.4	134			2257	3.4	104			2343	3.8	116	
13 M	0412	0.3	9		28 Tu	0401	-0.1	-3		13 W	0431	0.4	12		28 Th	0445	-0.2	-6		13 Sa	0526	0							

Port Canaveral (Trident Pier), Florida, 2009

Times and Heights of High and Low Waters

July				August				September											
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height						
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm					
1 W	0233	2.8	85	16 Th	0120	2.9	88	1 Sa	0357	2.6	79	16 Su	0301	3.1	94				
	0841	-0.2	-6		0737	-0.1	-3		0954	0.3	9		0909	-0.1	-3	0507	3.2	98	
	1532	3.7	113		1415	3.7	113		1648	3.7	113		1555	4.3	131	1741	4.0	122	
	2146	0.5	15		2034	0.5	15		2309	0.8	24		2216	0.5	15	2354	0.8	24	
2 Th	0330	2.7	82	17 F	0219	2.8	85	2 Su	0447	2.7	82	17 M	0405	3.3	101	2 W	0550	3.4	104
	0931	-0.1	-3		0830	-0.3	-9		1044	0.3	9		1012	-0.3	-9		1151	0.5	15
	1625	3.7	113		1514	3.9	119		1733	3.8	116		1654	4.5	137		1819	4.0	122
	2245	0.5	15		2135	0.4	12		2353	0.7	21		2315	0.3	9		1819	4.0	122
3 F	0424	2.6	79	18 Sa	0320	2.9	88	3 M	0534	2.8	85	18 Tu	0506	3.6	110	3 Th	0029	0.7	21
	1020	-0.1	-3		0927	-0.4	-12		1132	0.2	6		1113	-0.4	-12		0632	3.5	107
	1712	3.8	116		1613	4.2	128		1814	3.8	116		1750	4.7	143		1233	0.5	15
	2337	0.5	15		2236	0.3	9		2009	0.1	3		1935	-0.1	-3		1856	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.

Port Canaveral (Trident Pier), Florida, 2009

Times and Heights of High and Low Waters

October				November				December																					
Time	Height		Time	Height		Time	Height		Time	Height																			
	h	m	ft	cm	h	m	ft	cm	h	m	ft	cm																	
1 Th	0519	3.8	116	16 F	0541	4.7	143	1 Su	0608	4.5	137	16 M	0024	0.1	3	1 Tu	0625	4.7	143	16 W	0046	0.0	0						
	1124	0.8	24		1154	0.4	12		1225	0.6	18		0702	4.8	146		0728	4.2	128										
	1739	4.0	122		1800	4.3	131		1820	3.8	116		1321	0.5	15		1346	0.4	12		1836	3.4	104	1935	3.0	91			
	2346	0.7	21										1911	3.5	107														
2 F	0600	4.1	125	17 Sa	0005	0.1	3	2 M	0020	0.3	9	17 Tu	0106	0.1	3	2 W	0036	-0.3	-9	17 Th	0126	0.0	0						
	1208	0.7	21		0632	4.9	149		0651	4.8	146		0746	4.7	143		0714	4.8	146		0808	4.2	128						
	1817	4.0	122		1246	0.3	9		1309	0.5	15		1403	0.5	15		1335	0.2	6		1424	0.4	12	1927	3.5	107	2016	3.0	91
			1847		4.2	128	1904		3.8	116	1956		3.4	104															
3 Sa	0022	0.6	18	18 Su	0049	0.1	3	3 Tu	0101	0.1	3	18 W	0147	0.2	6	3 Th	0124	-0.4	-12	18 F	0206	0.1	3						
	0640	4.3	131		0720	5.0	152		0735	4.9	149		0828	4.6	140		0804	4.9	149		0847	4.0	122						
	1250	0.7	21		1334	0.4	12		1354	0.5	15		1446	0.6	18		1424	0.1	3		1502	0.4	12	1927	3.5	107	2018	3.5	107
	1856	4.0	122		1934	4.0	122		1950	3.7	113		2039	3.3	101		2018	3.5	107		2057	3.0	91						
4 Su	0057	0.5	15	19 M	0131	0.2	6	4 W	0144	0.1	3	19 Th	0229	0.4	12	4 F	0214	-0.4	-12	19 Sa	0247	0.2	6						
	0720	4.5	137		0806	5.0	152		0822	5.0	152		0910	4.4	134		0855	4.9	149		0925	3.9	119						
	1331	0.6	18		1421	0.5	15		1441	0.5	15		1528	0.7	21		1515	0.1	3		1541	0.4	12	1927	3.5	107	2011	3.6	110
	1936	4.0	122		2019	3.9	119		2036	3.7	113		2121	3.2	98		2111	3.6	110		2137	2.9	88						
5 M	0133	0.4	12	20 Tu	0213	0.3	9	5 Th	0230	0.1	3	20 F	0312	0.5	15	5 Sa	0308	-0.3	-9	20 Su	0329	0.3	9						
	0801	4.6	140		0851	4.9	149		0910	5.0	152		0952	4.2	128		0946	4.7	143		1002	3.8	116						
	1414	0.6	18		1508	0.7	21		1531	0.6	18		1613	0.8	24		1609	0.1	3		1622	0.5	15	1927	3.5	107	2016	3.0	91
	2016	3.9	119		2104	3.7	113		2125	3.7	113		2203	3.2	98		2205	3.6	110		2218	2.9	88						
6 Tu	0212	0.4	12	21 W	0257	0.5	15	6 F	0321	0.2	6	21 Sa	0358	0.7	21	6 Su	0406	-0.2	-6	21 M	0415	0.5	15						
	0844	4.7	143		0936	4.7	143		1001	4.9	149		1033	4.0	122		1038	4.5	137		1039	3.6	110						
	1459	0.7	21		1555	0.9	27		1626	0.6	18		1700	0.9	27		1705	0.1	3		1703	0.5	15	1927	3.5	107	2011	3.6	110
	2058	3.8	116		2147	3.5	107		2217	3.6	110		2248	3.1	94		2303	3.6	110		2302	2.9	88						
7 W	0253	0.4	12	22 Th	0342	0.7	21	7 Sa	0418	0.3	9	22 Su	0448	0.8	24	7 M	0509	0.0	0	22 Tu	0503	0.6	18						
	0928	4.8	146		1020	4.5	137		1054	4.7	143		1116	3.8	116		1132	4.2	128		1118	3.4	104						
	1547	0.8	24		1645	1.1	34		1725	0.7	21		1747	1.0	30		1802	0.1	3		1745	0.4	12	1927	3.5	107	2011	3.6	110
	2142	3.7	113		2232	3.4	104		2314	3.6	110		2336	3.0	91														
8 Th	0340	0.4	12	23 F	0432	0.9	27	8 Su	0521	0.4	12	23 M	0541	1.0	30	8 Tu	0005	3.6	110	23 W	0555	0.7	21						
	1016	4.7	143		1106	4.2	128		1151	4.5	137		1201	3.6	110		0615	0.2	6		1159	3.2	98						
	1641	0.9	27		1737	1.2	37		1824	0.7	21		1833	0.9	27		1229	3.9	119		1827	0.4	12	1927	3.5	107			
	2230	3.6	110		2319	3.2	98										1857	0.1	3		2302	2.9	88						
9 F	0433	0.5	15	24 Sa	0525	1.1	34	9 M	0018	3.6	110	24 Tu	0029	3.0	91	9 W	0113	3.7	113	24 Th	0039	3.0	91						
	1108	4.6	140		1156	4.0	122		1252	4.3	131		0636	1.1	34		0722	0.4	12		0650	0.8	24						
	1739	1.0	30		1829	1.3	40		1922	0.6	18		1250	3.5	107		1330	3.6	110		1246	3.0	91	1927	3.5	107			
	2324	3.5	107										1918	0.9	27		1951	0.0	0		1910	0.3	9						
10 Sa	0533	0.6	18	25 Su	0012	3.1	94	10 Tu	0127	3.7	113	25 W	0127	3.1	94	10 Th	0222	3.8	116	25 F	0134	3.1	94						
	1207	4.5	137		0621	1.2	37		0734	0.6	18		0732	1.1	34		0830	0.5	15		0746	0.8	24						
	1840	1.0	30		1250	3.8	116		1356	4.1	125		1431	3.4	104		1432	3.4	104		1338	2.8	85	1927	3.5	107			
					1920	1.3	40		2019	0.5	15		2002	0.8	24		2045	0.0	0		1956	0.2	6						
11 Su	0026	3.5	107	26 M	0112	3.1	94	11 W	0238	3.9	119	26 Th	0225	3.3	101	11 F	0326	4.0	122	26 Sa	0230	3.4	104						
	0637	0.6	18		0718	1.2	37		0841	0.6	18		0828	1.1	34		0937	0.5	15		0844	0.7	21						
	1311	4.4	134		1346	3.7	113		1459	4.0	122		1433	3.3	101		1533	3.2	98		1435	2.8	85	1927	3.5	107			
	1941	1.0	30		2009	1.3	40		2113	0.4	12		2046	0.6	18		2138	0.0	0		2044	0.1	3						
12 M	0135	3.6	110	27 Tu	0215	3.2	98	12 Th	0341	4.2	128	27 F	0317	3.6	110	12 Sa	0423	4.1	125	27 Su	0325	3.6	110						
	0743	0.6	18		0814	1.2	37		0947	0.6	18		0924	1.0	30		1040	0.5	15		0943	0.6	18						
	1418	4.4	134		1440	3.7	113		1556	3.9	119		1523	3.3	101		1629	3.1	94		1531	2.8	85	1927	3.5	107			
	2040	0.8	24		2055	1.1	34		2205	0.2	6		2130	0.4	12		2229	0.0	0		2136	-0.1	-3						
13 Tu	0246	3.8	116	28 W	0312	3.4	104	13 F	0437	4.5	137	28 Sa	0405	3.9	119	13 Su	0514	4.2	128	28 M	0419	3.9	119						
	0850	0.6	18		0910	1.2	37		1050	0.5	15		1019	0.8	24		1136	0.4	12		1041	0.4	12						
	1521	4.4	134		1529	3.7	113		1649	3.8	116		1612	3.3	101		1720	3.0	91		1626	2.9	88	1927	3.5	107			
	2137	0.7	21		2138	1.0	30		2254	0.1	3		2216	0.2	6		2318	-0.1	-3		2230	-0.3	-9						
14 W	0350	4.1	125	29 Th	0400	3.7	113	14 Sa	0528	4.7	143	29 Su	0451	4.2	128	14 M	0601	4.3	131	29 Tu	0511	4.2	128						
	0955	0.5	15		1003	1.1	34		1145	0.5	15		1111	0.6	18		1224	0.4	12		1135	0.2	6						
	1618	4.4	134		1613	3.7	113		1738	3.7	113		1700	3.3	101		1807	3.0	91		1720	3.0	91	1927	3.5	107			
	2231	0.4	12		2220	0.8	24		2340	0.1	3		2302	0.0	0						2323	-0.6	-18						
15 Th	0448	4.4	134	30 F	0444	4.0	122	15 Su	0616	4.8	146	30 M	0538	4.5	137	15 Tu	0003	-0.1	-3	30 W									

Miami, Government Cut, Florida, 2009

Times and Heights of High and Low Waters

January				February				March																										
Time	Height			Time	Height			Time	Height			Time	Height																					
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm		h	m	ft	cm															
1 Th	0446	0.1	3		16 F	0014	2.3	70		1 Su	0016	2.1	64		16 M	0120	1.9	58		1 Su	0445	0.0	0		16 M	0542	0.3	9						
	1131	2.2	67			0605	-0.1	-3			0552	0.1	3			0713	0.3	9			1114	2.2	67			1156	2.0	61						
	1715	0.2	6			1229	2.3	70			1220	2.0	61			1322	1.8	55			1706	-0.4	-12			1803	0.0	0						
	2353	2.1	64			1834	-0.3	-9			1820	-0.2	-6			1941	0.0	0			2357	2.2	67											
2 F	0530	0.2	6		17 Sa	0108	2.2	67		2 M	0110	2.0	61		17 Tu	0216	1.8	55		2 M	0533	0.1	3		17 Tu	0039	2.0	61		17 Tu	0631	0.4	12	
	1209	2.1	64			0700	0.1	3			0648	0.2	6			0812	0.4	12			1159	2.1	64			1241	1.9	58						
	1800	0.1	3			1318	2.1	64			1310	1.9	58			1416	1.7	52			1758	-0.3	-9			1856	0.2	6						
						1929	-0.2	-6			1919	-0.2	-6			2041	0.1	3																
3 Sa	0042	2.1	64		18 Su	0204	2.0	61		3 Tu	0212	2.0	61		18 W	0318	1.7	52		3 Tu	0052	2.2	67		18 W	0131	1.9	58		18 W	0727	0.6	18	
	0620	0.3	9			0757	0.3	9			0753	0.3	9			0914	0.5	15			0629	0.2	6			1333	1.8	55						
	1252	2.1	64			1409	1.9	58			1411	1.9	58			1518	1.7	52			1253	2.0	61			1955	0.3	9						
	1851	0.0	0			2026	-0.1	-3			2026	-0.3	-9			2142	0.1	3			1859	-0.2	-6											
4 Su	0137	2.1	64		19 M	0303	1.9	58		4 W	0322	2.0	61		19 Th	0423	1.7	52		4 W	0155	2.1	64		19 Th	0229	1.8	55		19 Th	0831	0.6	18	
	0718	0.3	9			0857	0.4	12			0904	0.3	9			1015	0.5	15			0736	0.3	9			1435	1.7	52						
	1342	2.0	61			1504	1.8	55			1523	1.9	58			1623	1.7	52			1358	2.0	61			2059	0.3	9						
	1950	0.0	0			2123	0.0	0			2135	-0.3	-9			2239	0.1	3			2009	-0.2	-6											
5 M	0239	2.1	64		20 Tu	0405	1.9	58		5 Th	0433	2.1	64		20 F	0521	1.8	55		5 Th	0305	2.1	64		20 F	0333	1.8	55		20 F	0935	0.6	18	
	0822	0.4	12			0955	0.4	12			1013	0.2	6			1110	0.4	12			0849	0.3	9			1543	1.8	55						
	1439	2.0	61			1603	1.8	55			1637	2.0	61			1723	1.8	55			1514	2.0	61			2200	0.3	9						
	2052	-0.1	-3			2218	0.0	0			2242	-0.4	-12			2330	0.0	0			2122	-0.2	-6											
6 Tu	0345	2.2	67		21 W	0504	1.9	58		6 F	0538	2.2	67		21 Sa	0610	1.9	58		6 F	0416	2.1	64		21 Sa	0434	1.9	58		21 Sa	1032	0.5	15	
	0928	0.3	9			1050	0.4	12			1117	0.0	0			1158	0.3	9			1000	0.2	6			1647	1.8	55						
	1545	2.1	64			1701	1.8	55			1746	2.2	67			1816	1.9	58			1629	2.1	64			2253	0.3	9						
	2156	-0.3	-9			2310	0.0	0			2343	-0.6	-18								2230	-0.3	-9											
7 W	0452	2.3	70		22 Th	0557	1.9	58		7 Sa	0636	2.4	73		22 Su	0015	-0.1	-3		7 Sa	0521	2.3	70		22 Su	0527	2.0	61		22 Su	1121	0.4	12	
	1032	0.2	6			1140	0.4	12			1215	-0.2	-6			0653	2.0	61			1104	0.0	0			1743	2.0	61						
	1652	2.1	64			1754	1.8	55			1847	2.4	73			1240	0.2	6			1737	2.3	70			2340	0.2	6						
	2257	-0.4	-12			2358	-0.1	-3								1902	2.0	61			2331	-0.4	-12											
8 Th	0554	2.4	73		23 F	0643	2.0	61		8 Su	0039	-0.7	-21		23 M	0055	-0.1	-3		8 Su	0617	2.4	73		23 M	0613	2.1	64		23 M	1203	0.2	6	
	1132	0.1	3			1226	0.3	9			0728	2.5	76			0732	2.2	67			1200	-0.2	-6			1832	2.2	67						
	1756	2.3	70			1842	1.9	58			1309	-0.4	-12			1319	0.0	0			1836	2.5	76											
	2355	-0.6	-18								1942	2.5	76			1944	2.1	64																
9 F	0651	2.6	79		24 Sa	0041	-0.2	-6		9 M	0132	-0.7	-21		24 Tu	0133	-0.2	-6		9 M	0026	-0.4	-12		24 Tu	0023	0.1	3		24 Tu	0654	2.2	67	
	1229	0.0	0			0724	2.1	64			0816	2.6	79			0810	2.2	67			0707	2.5	76			1242	0.0	0						
	1857	2.4	73			1308	0.2	6			1400	-0.5	-15			1354	-0.1	-3			1252	-0.4	-12			1916	2.3	70						
						1926	2.0	61			2034	2.6	79			2025	2.2	67			1929	2.6	79											
10 Sa	0051	-0.7	-21		25 Su	0121	-0.2	-6		10 Tu	0222	-0.7	-21		25 W	0210	-0.2	-6		10 Tu	0116	-0.5	-15		25 W	0103	0.0	0		25 W	0734	2.3	70	
	0745	2.7	82			0803	2.2	67			0901	2.7	82			0846	2.3	70			0753	2.6	79			1319	-0.1	-3						
	1323	-0.2	-6			1347	0.1	3			1448	-0.6	-18			1429	-0.2	-6			1339	-0.5	-15			1959	2.5	76						
	1953	2.6	79			2007	2.1	64			2123	2.6	79			2105	2.3	70			2017	2.7	82											
11 Su	0145	-0.8	-24		26 M	0158	-0.2	-6		11 W	0310	-0.6	-18		26 Th	0246	-0.2	-6		11 W	0204	-0.5	-15		26 Th	0142	-0.1	-3		26 Th	0813	2.4	73	
	0835	2.8	85			0840	2.2	67			0945	2.6	79			0921	2.3	70			0836	2.6	79			1357	-0.3	-9						
	1416	-0.3	-9			1423	0.0	0			1535	-0.6	-18			1504	-0.3	-9			1424	-0.6	-18			2041	2.6	79						
	2047	2.6	79			2048	2.1	64			2210	2.6	79			2145	2.4	73			2103	2.7	82											
12 M	0238	-0.7	-21		27 Tu	0234	-0.3	-9		12 Th	0357	-0.5	-15		27 F	0323	-0.2	-6		12 Th	0249	-0.4	-12		27 F	0221	-0.1	-3		27 F	0851	2.4	73	
	0923	2.8	85			0915	2.3	70			1028	2.5	76			0957	2.3	70			0918	2.6	79			1435	-0.4	-12						
	1508	-0.4	-12			1458	-0.1	-3			1621	-0.6	-18			1540	-0.4	-12			1508	-0.6	-18			2123	2.6	79						
	2140	2.7	82			2127	2.1	64			2256	2.5	76			2226	2.4	73			2147	2.7	82											
13 Tu	0329	-0.7	-21		28 W	0309	-0.2	-6		13 F	0444	-0.3	-9		28 Sa	0402	-0.1	-3		13 F	0332	-0.3	-9		28 Sa	0301	-0.1	-3		28 Sa	0931	2.4	73	
	1010	2.7	82			0951	2.2	67			1109	2.4	73			1034	2.2	67			0957	2.5	76			1516	-0.4	-12						
	1559	-0.5	-15			1532	-0.1	-3			1707	-0.5	-15			1620	-0.4	-12			1550	-0.5	-15			2207	2.6	79						
	2231	2.6	79			2206	2.1	64			2343																							

Miami, Government Cut, Florida, 2009

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 W	0040	2.4	73		16 Th	0052	2.0	61		1 F	0127	2.5	76		16 Sa	0105	2.1	64		1 M	0259	2.3	70		16 Tu	0156	2.0	61	
	0620	0.3	9			0648	0.6	18			0719	0.2	6			0705	0.5	15			0905	-0.1	-3			0802	0.2	6	
	1247	2.2	67			1259	1.9	58			1349	2.3	70			1324	1.9	58			1543	2.3	70			1442	2.0	61	
	1848	-0.1	-3			1909	0.4	12			1947	0.0	0			1921	0.5	15			2134	0.2	6			2029	0.4	12	
2 Th	0142	2.3	70		17 F	0145	2.0	61		2 Sa	0228	2.4	73		17 Su	0154	2.0	61		2 Tu	0356	2.3	70		17 W	0247	2.0	61	
	0727	0.3	9			0748	0.7	21			0826	0.2	6			0759	0.5	15			1000	-0.1	-3			0857	0.1	3	
	1355	2.2	67			1358	1.9	58			1458	2.3	70			1422	1.9	58			1643	2.4	73			1542	2.1	64	
	1959	0.0	0			2011	0.5	15			2055	0.1	3			2019	0.5	15			2230	0.3	9			2128	0.4	12	
3 F	0249	2.3	70		18 Sa	0242	1.9	58		3 Su	0330	2.4	73		18 M	0245	2.0	61		3 W	0451	2.2	67		18 Th	0343	2.1	64	
	0839	0.3	9			0849	0.6	18			0929	0.1	3			0853	0.4	12			1052	-0.2	-6			0953	-0.1	-3	
	1508	2.2	67			1502	1.9	58			1605	2.4	73			1522	2.0	61			1739	2.4	73			1643	2.2	67	
	2110	0.0	0			2112	0.5	15			2158	0.1	3			2117	0.5	15			2322	0.3	9			2226	0.3	9	
4 Sa	0356	2.3	70		19 Su	0339	2.0	61		4 M	0429	2.4	73		19 Tu	0338	2.0	61		4 Th	0543	2.2	67		19 F	0443	2.1	64	
	0947	0.2	6			0945	0.5	15			1026	-0.1	-3			0944	0.2	6			1140	-0.2	-6			1048	-0.3	-9	
	1620	2.3	70			1606	2.0	61			1707	2.5	76			1622	2.1	64			1829	2.4	73			1743	2.4	73	
	2216	0.0	0			2208	0.4	12			2255	0.1	3			2212	0.4	12								2322	0.2	6	
5 Su	0457	2.4	73		20 M	0434	2.0	61		5 Tu	0523	2.4	73		20 W	0432	2.1	64		5 F	0010	0.3	9		20 Sa	0543	2.2	67	
	1048	0.0	0			1035	0.4	12			1118	-0.2	-6			1034	0.1	3			0630	2.2	67			1143	-0.4	-12	
	1725	2.4	73			1704	2.1	64			1802	2.6	79			1718	2.3	70			1225	-0.2	-6			1840	2.5	76	
	2315	-0.1	-3			2258	0.4	12			2347	0.1	3			2304	0.3	9			1915	2.4	73						
6 M	0552	2.5	76		21 Tu	0524	2.1	64		6 W	0613	2.4	73		21 Th	0524	2.2	67		6 Sa	0055	0.3	9		21 Su	0017	0.1	3	
	1141	-0.2	-6			1119	0.2	6			1206	-0.2	-6			1122	-0.1	-3			0715	2.2	67			0641	2.4	73	
	1821	2.6	79			1756	2.3	70			1852	2.6	79			1812	2.5	76			1308	-0.2	-6			1237	-0.5	-15	
						2344	0.3	9								2354	0.2	6			1957	2.4	73			1935	2.7	82	
7 Tu	0008	-0.1	-3		22 W	0610	2.2	67		7 Th	0034	0.1	3		22 F	0616	2.3	70		7 Su	0137	0.3	9		22 M	0111	0.0	0	
	0642	2.5	76			1202	0.0	0			0659	2.4	73			1210	-0.3	-9			0757	2.2	67			0739	2.5	76	
	1230	-0.3	-9			1844	2.5	76			1250	-0.3	-9			1904	2.6	79			1350	-0.2	-6			1331	-0.6	-18	
	1912	2.7	82								1937	2.6	79								2037	2.4	73			2027	2.8	85	
8 W	0057	-0.1	-3		23 Th	0028	0.2	6		8 F	0119	0.1	3		23 Sa	0042	0.1	3		8 M	0218	0.3	9		23 Tu	0204	-0.1	-3	
	0727	2.6	79			0655	2.4	73			0742	2.4	73			0707	2.4	73			0837	2.2	67			0834	2.6	79	
	1315	-0.4	-12			1243	-0.2	-6			1333	-0.3	-9			1259	-0.5	-15			1430	-0.1	-3			1425	-0.7	-21	
	1958	2.8	85			1931	2.6	79			2019	2.6	79			1954	2.7	82			2116	2.4	73			2118	2.8	85	
9 Th	0142	-0.1	-3		24 F	0112	0.1	3		9 Sa	0201	0.2	6		24 Su	0131	0.1	3		9 Tu	0259	0.3	9		24 W	0258	-0.2	-6	
	0809	2.6	79			0739	2.4	73			0822	2.4	73			0758	2.5	76			0917	2.2	67			0930	2.6	79	
	1358	-0.4	-12			1326	-0.3	-9			1414	-0.2	-6			1348	-0.6	-18			1509	-0.1	-3			1519	-0.6	-18	
	2041	2.7	82			2017	2.7	82			2059	2.6	79			2045	2.8	85			2154	2.3	70			2209	2.8	85	
10 F	0225	-0.1	-3		25 Sa	0155	0.0	0		10 Su	0241	0.2	6		25 M	0221	0.0	0		10 W	0338	0.3	9		25 Th	0352	-0.2	-6	
	0849	2.5	76			0823	2.5	76			0901	2.3	70			0849	2.5	76			0957	2.1	64			1025	2.6	79	
	1440	-0.4	-12			1410	-0.4	-12			1454	-0.2	-6			1439	-0.6	-18			1548	0.0	0			1614	-0.5	-15	
	2122	2.7	82			2103	2.8	85			2138	2.5	76			2135	2.8	85			2232	2.3	70			2258	2.8	85	
11 Sa	0306	0.0	0		26 Su	0240	0.0	0		11 M	0321	0.3	9		26 Tu	0313	0.0	0		11 Th	0418	0.3	9		26 F	0447	-0.3	-9	
	0928	2.5	76			0908	2.5	76			0940	2.3	70			0942	2.6	79			1038	2.1	64			1120	2.6	79	
	1521	-0.3	-9			1456	-0.5	-15			1533	-0.1	-3			1532	-0.5	-15			1626	0.1	3			1710	-0.3	-9	
	2202	2.6	79			2150	2.8	85			2217	2.4	73			2226	2.8	85			2310	2.2	67			2348	2.7	82	
12 Su	0347	0.1	3		27 M	0327	0.0	0		12 Tu	0401	0.3	9		27 W	0406	0.0	0		12 F	0457	0.3	9		27 Sa	0543	-0.3	-9	
	1006	2.4	73			0956	2.5	76			1019	2.2	67			1037	2.6	79			1120	2.0	61			1216	2.5	76	
	1601	-0.2	-6			1545	-0.5	-15			1613	0.0	0			1627	-0.4	-12			1706	0.2	6			1807	-0.2	-6	
	2242	2.4	73			2240	2.7	82			2256	2.3	70			2318	2.7	82			2349	2.2	67						
13 M	0427	0.3	9		28 Tu	0417	0.1	3		13 W	0442	0.4	12		28 Th	0503	0.0	0		13 Sa	0539	0.3	9		28 Su	0039	2.5	76	
	1044	2.2	67			1047	2.5	76			1059	2.1	64			1134	2.5	76			1205	2.0	61			0640	-0.2	-6	
	1642	0.0	0			1638	-0.4	-12			1654	0.2	6			1725	-0.3	-9			1749	0.3	9			1314	2.4	73	
	2322	2.3	70			2332	2.6	79			2337	2.2	67										1906	0.0		0			
14 Tu	0509	0.4	12		29 W	0512	0.2	6		14 Th	0526	0.5	15		29 F	0011	2.6	79		14 Su	0029	2.1	64		29 M	0131	2.4	73	
	1124	2.1	64			1142	2.4	73																					

Miami, Government Cut, Florida, 2009

Times and Heights of High and Low Waters

July				August				September															
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height										
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm									
1 W	0320	2.2	67	16 Th	0206	2.1	64	1 Sa	0441	2.1	64	16 Su	0358	2.3	70	1 Tu	0558	2.4	73	16 W	0603	3.0	91
	0931	-0.1	-3		0819	0.0	0		1050	0.2	6		1007	0.0	0		1158	0.5	15		1154	0.1	3
	1615	2.2	67		1509	2.2	67		1737	2.2	67		1702	2.5	76		1834	2.5	76		1834	3.1	94
	2202	0.4	12		2052	0.5	15		2320	0.6	18		2242	0.5	15								
2 Th	0417	2.1	64	17 F	0306	2.1	64	2 Su	0536	2.1	64	17 M	0509	2.5	76	2 W	0023	0.6	18	17 Th	0020	0.2	6
	1024	-0.1	-3		0921	-0.1	-3		1139	0.2	6		1109	-0.1	-3		0644	2.5	76		0658	3.2	98
	1712	2.2	67		1615	2.2	67		1825	2.2	67		1802	2.7	82		1239	0.4	12		1246	0.1	3
	2255	0.4	12		2156	0.4	12						2342	0.3	9		1913	2.6	79		1922	3.2	98
3 F	0512	2.1	64	18 Sa	0413	2.2	67	3 M	0008	0.5	15	18 Tu	0613	2.7	82	3 Th	0101	0.5	15	18 F	0109	0.0	0
	1115	-0.1	-3		1023	-0.2	-6		0625	2.2	67		1208	-0.2	-6		0726	2.6	79		0749	3.3	101
	1805	2.2	67		1720	2.4	73		1224	0.1	3		1856	2.9	88		1317	0.4	12		1335	0.1	3
	2345	0.4	12		2258	0.3	9		1908	2.3	70						1950	2.7	82		● 2008	3.2	98
4 Sa	0603	2.1	64	19 Su	0521	2.3	70	4 Tu	0051	0.5	15	19 W	0037	0.1	3	4 F	0137	0.4	12	19 Sa	0156	-0.1	-3
	1202	-0.1	-3		1123	-0.4	-12		0710	2.2	67		0712	2.9	88		0807	2.7	82		0838	3.3	101
	1852	2.2	67		1821	2.5	76		1306	0.1	3		1302	-0.3	-9		1353	0.4	12		1422	0.2	6
					2357	0.2	6		1947	2.4	73		1947	3.0	91		○ 2026	2.7	82		2052	3.2	98
5 Su	0032	0.4	12	20 M	0625	2.4	73	5 W	0132	0.4	12	20 Th	0129	-0.1	-3	5 Sa	0211	0.3	9	20 Su	0242	-0.1	-3
	0650	2.1	64		1221	-0.5	-15		0753	2.3	70		0806	3.0	91		0846	2.8	85		0924	3.3	101
	1247	-0.1	-3		1916	2.7	82		1345	0.1	3		1354	-0.3	-9		1428	0.4	12		1508	0.3	9
	1935	2.3	70		○ 2024	2.5	76		● 2034	3.1	94		● 2034	3.1	94		2101	2.8	85		2135	3.1	94
6 M	0115	0.3	9	21 Tu	0054	0.0	0	6 Th	0209	0.3	9	21 F	0219	-0.2	-6	6 Su	0244	0.3	9	21 M	0327	0.0	0
	0734	2.1	64		0724	2.6	79		0833	2.4	73		0857	3.1	94		0925	2.8	85		1009	3.2	98
	1328	-0.1	-3		1317	-0.6	-18		1421	0.1	3		1444	-0.2	-6		1504	0.4	12		1554	0.4	12
	2014	2.3	70		● 2008	2.8	85		2100	2.5	76		2120	3.1	94		2137	2.7	82		2218	3.0	91
7 Tu	0156	0.3	9	22 W	0148	-0.1	-3	7 F	0244	0.3	9	22 Sa	0308	-0.3	-9	7 M	0319	0.2	6	22 Tu	0413	0.1	3
	0815	2.1	64		0821	2.7	82		0912	2.4	73		0947	3.1	94		1005	2.8	85		1055	3.0	91
	1408	-0.1	-3		1410	-0.6	-18		1456	0.1	3		1533	-0.1	-3		1541	0.5	15		1640	0.6	18
	2052	2.3	70		2058	2.9	88		2135	2.5	76		2205	3.0	91		2213	2.7	82		2301	2.8	85
8 W	0236	0.3	9	23 Th	0240	-0.3	-9	8 Sa	0318	0.2	6	23 Su	0356	-0.2	-6	8 Tu	0357	0.2	6	23 W	0500	0.3	9
	0856	2.2	67		0915	2.8	85		0951	2.4	73		1036	3.0	91		1047	2.8	85		1141	2.9	88
	1446	-0.1	-3		1503	-0.5	-15		1531	0.2	6		1622	0.1	3		1621	0.6	18		1728	0.8	24
	2129	2.3	70		2146	2.9	88		2209	2.5	76		2250	2.9	88		2251	2.6	79		2346	2.7	82
9 Th	0314	0.2	6	24 F	0332	-0.3	-9	9 Su	0352	0.2	6	24 M	0445	-0.1	-3	9 W	0439	0.2	6	24 Th	0550	0.5	15
	0936	2.2	67		1008	2.8	85		1031	2.4	73		1124	2.9	88		1133	2.7	82		1230	2.7	82
	1523	0.0	0		1555	-0.4	-12		1607	0.3	9		1712	0.3	9		1706	0.7	21		1821	1.0	30
	2205	2.3	70		2233	2.9	88		2244	2.4	73		2335	2.7	82		2334	2.6	79				
10 F	0350	0.2	6	25 Sa	0424	-0.4	-12	10 M	0428	0.2	6	25 Tu	0535	0.0	0	10 Th	0528	0.3	9	25 F	0034	2.5	76
	1016	2.2	67		1100	2.8	85		1111	2.4	73		1214	2.7	82		1225	2.7	82		0646	0.7	21
	1559	0.1	3		1648	-0.2	-6		1646	0.4	12		1803	0.5	15		1759	0.8	24		1323	2.5	76
	2241	2.3	70		2321	2.8	85		2320	2.4	73								○ 1920		1.1	34	
11 Sa	0426	0.2	6	26 Su	0517	-0.3	-9	11 Tu	0508	0.1	3	26 W	0022	2.5	76	11 F	0025	2.5	76	26 Sa	0129	2.4	73
	1056	2.1	64		1153	2.7	82		1155	2.4	73		0628	0.2	6		0627	0.4	12		0747	0.8	24
	1636	0.1	3		1741	0.0	0		1729	0.5	15		1306	2.5	76		1325	2.6	79		1421	2.4	73
	2317	2.2	67						2359	2.3	70		1858	0.7	21		○ 1902	0.9	27		2024	1.1	34
12 Su	0503	0.2	6	27 M	0008	2.6	79	12 W	0554	0.1	3	27 Th	0111	2.4	73	12 Sa	0127	2.5	76	27 Su	0230	2.4	73
	1138	2.1	64		0610	-0.2	-6		1245	2.4	73		0725	0.4	12		0734	0.4	12		0850	0.9	27
	1715	0.2	6		1246	2.5	76		1820	0.6	18		1403	2.4	73		1431	2.6	79		1521	2.4	73
	2353	2.2	67		1837	0.2	6						○ 1958	0.8	24		2014	0.9	27		2126	1.1	34
13 M	0543	0.1	3	28 Tu	0057	2.4	73	13 Th	0044	2.3	70	28 F	0206	2.3	70	13 Su	0239	2.5	76	28 M	0334	2.4	73
	1222	2.1	64		0705	-0.1	-3		0648	0.2	6		0826	0.5	15		0846	0.4	12		0949	0.9	27
	1800	0.3	9		1342	2.4	73		1342	2.3	70		1504	2.3	70		1540	2.7	82		1618	2.5	76
					○ 1934	0.4	12		○ 1920	0.6	18		2100	0.9	27		2125	0.8	24		2220	1.0	30
14 Tu	0032	2.1	64	29 W	0149	2.3	70	14 F	0139	2.3	70	29 Sa	0307	2.2	67	14 M	0353	2.6	79	29 Tu	0434	2.5	76
	0628	0.1	3		0802	0.0	0		0751	0.1	3		0926	0.5	15		0955	0.3	9		1040	0.8	24
	1312	2.1	64		1440	2.3	70		1447	2.3	70		1606	2.3	70		1644	2.8	85		1708	2.6	79
	1850	0.4	12		2033	0.5	15		2028	0.7	21		2159	0.9	27		2230	0.6	18		2306	0.9	27
15 W	0115	2.1	64	30 Th	0244	2.1	64	15 Sa	0245	2.3	70	30 Su	0409	2.2	67	15 Tu	0502	2.8	85	30 W	0526	2.6	79
	0720	0.1	3		0900	0.1	3		0900	0.1	3		1023	0.5	15		1057	0.2	6		1126	0.8	24
	1407	2.1	64		1541	2.2	67		1556	2.4	73		1702	2.3	70		1742	2.9	88		1752	2.7	82
	○ 1949	0.5	15		2132	0.6	18		2137	0.6	18		2253	0.8	24		2327	0.4	12		2347	0.7	21
			31 F	0342	2.1	64				31 M	0507	2.3	70										
				0956	0.2	6					1113	0.5	15										
				1642	2.2	67	</																

Miami, Government Cut, Florida, 2009

Times and Heights of High and Low Waters

October				November				December														
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height									
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm								
1 Th	0613	2.7	82		16 F	0000	0.2	6		1 Su	0024	0.3	9									
	1207	0.7	21	0643		3.3	101	0709	3.0		91	0758	3.1	94	0731	2.9	88					
	1833	2.8	85	1228		0.4	12	1251	0.6		18	1339	0.5	15	1308	0.4	12					
				1857	3.2	98	1915	2.8	85	●	2001	2.8	85	1932	2.7	82	16 W	0134	-0.1	-3		
																0822		2.6	79			
																1402		0.3	9			
2 F	0025	0.6	18		17 Sa	0047	0.1	3		2 M	0104	0.2	6		2 W	0124	-0.2	-6	17 Th	0215	-0.1	-3
	0657	2.9	88	0731		3.4	104	0753	3.1		94	0840	3.0	91		0819	3.0	91		0901	2.6	79
	1245	0.6	18	1315		0.4	12	1332	0.6		18	1422	0.5	15		1355	0.3	9		1443	0.3	9
	1912	2.9	88	1942	3.2	98	1957	2.9	88	○	2043	2.8	85	2022	2.7	82	2102	2.3	70			
3 Sa	0101	0.5	15		18 Su	0132	0.0	0		3 Tu	0145	0.1	3		3 Th	0212	-0.3	-9	18 F	0255	0.0	0
	0738	3.0	91	0817		3.4	104	0838	3.2		98	0921	2.9	88		0908	3.0	91		0938	2.5	76
	1323	0.6	18	1400		0.4	12	1415	0.6		18	1503	0.6	18		1444	0.2	6		1523	0.3	9
	1950	2.9	88	●	2025	3.1	94	2041	2.9	88	2123	2.7	82	2113	2.8	85	2142	2.3	70			
4 Su	0136	0.4	12		19 M	0216	0.0	0		4 W	0229	0.1	3		4 F	0302	-0.3	-9	19 Sa	0334	0.0	0
	0819	3.1	94	0901		3.3	101	0924	3.2		98	1001	2.8	85		0958	3.0	91		1015	2.4	73
	1400	0.6	18	1444		0.5	15	1459	0.6		18	1545	0.6	18		1535	0.2	6		1602	0.4	12
	2028	2.9	88	2107	3.0	91	2127	2.9	88	2204	2.6	79	2206	2.8	85	2222	2.2	67				
5 M	0213	0.3	9		20 Tu	0259	0.1	3		5 Th	0315	0.1	3		5 Sa	0355	-0.2	-6	20 Su	0412	0.1	3
	0900	3.1	94	0944		3.2	98	1012	3.1		94	1042	2.7	82		1048	2.9	88		1052	2.4	73
	1438	0.6	18	1527		0.6	18	1547	0.6		18	1628	0.7	21		1629	0.2	6		1641	0.4	12
	2106	2.9	88	2148	2.9	88	2217	2.9	88	2245	2.5	76	2302	2.7	82	2303	2.2	67				
6 Tu	0251	0.2	6		21 W	0342	0.3	9		6 F	0406	0.1	3		6 Su	0451	-0.1	-3	21 M	0451	0.2	6
	0943	3.1	94	1026		3.0	91	1103	3.0		91	1123	2.6	79		1140	2.8	85		1130	2.3	70
	1518	0.6	18	1611		0.8	24	1640	0.6		18	1713	0.8	24		1727	0.2	6		1722	0.4	12
	2147	2.9	88	2230	2.8	85	2311	2.8	85	2330	2.4	73	2330	2.4	73	2346	2.1	64				
7 W	0333	0.2	6		22 Th	0427	0.5	15		7 Sa	0501	0.2	6		7 M	0526	0.6	18	22 Tu	0532	0.4	12
	1028	3.1	94	1110		2.9	88	1158	3.0		91	1205	2.5	76		1233	2.7	82		1208	2.2	67
	1601	0.7	21	1656		0.9	27	1739	0.7		21	1801	0.8	24		1828	0.2	6		1804	0.4	12
	2230	2.8	85	2313	2.7	82																
8 Th	0419	0.3	9		23 F	0513	0.6	18		8 Su	0011	2.7	82		8 Tu	0102	2.6	79	23 W	0033	2.0	61
	1117	3.0	91	1155		2.7	82	0604	0.4		12	0615	0.7	21		0654	0.2	6		0617	0.5	15
	1650	0.8	24	1745		1.0	30	1255	2.9		88	1250	2.4	73		1329	2.6	79		1249	2.1	64
	2320	2.8	85				1844	0.7	21	1854	0.8	24	1931	0.1	3	1850	0.4	12				
9 F	0512	0.4	12		24 Sa	0000	2.5	76		9 M	0116	2.7	82		9 W	0207	2.6	79	24 Th	0124	2.0	61
	1211	2.9	88	0605		0.8	24	0711	0.5		15	0709	0.8	24		0759	0.3	9		0708	0.5	15
	1747	0.9	27	1243		2.6	79	1355	2.8		85	1338	2.3	70		1427	2.5	76		1334	2.0	61
				1841	1.1	34	●	1952	0.6	18	●	1948	0.8	24	2033	0.1	3	1941	0.3	9		
10 Sa	0017	2.7	82		25 Su	0052	2.4	73		10 Tu	0225	2.7	82		10 Th	0312	2.5	76	25 F	0219	2.0	61
	0614	0.5	15	0702		0.9	27	0821	0.5		15	0807	0.8	24		0903	0.4	12		0806	0.6	18
	1311	2.8	85	1335		2.5	76	1456	2.8		85	1428	2.3	70		1526	2.5	76		1424	2.0	61
	1853	0.9	27	○	1942	1.1	34	2057	0.5	15	2041	0.7	21	2132	0.0	0	2036	0.2	6			
11 Su	0123	2.7	82		26 M	0151	2.4	73		11 W	0333	2.8	85		11 F	0415	2.6	79	26 Sa	0320	2.1	64
	0723	0.6	18	0804		1.0	30	0926	0.5		15	0904	0.8	24		1004	0.4	12		0906	0.6	18
	1416	2.8	85	1430		2.5	76	1556	2.8		85	1520	2.3	70		1624	2.4	73		1520	2.0	61
	2005	0.9	27	2042	1.1	34	2156	0.3	9	2132	0.6	18	2227	0.0	0	2132	0.1	3				
12 M	0235	2.7	82		27 Tu	0253	2.4	73		12 Th	0436	2.9	88		12 Sa	0514	2.6	79	27 Su	0421	2.2	67
	0835	0.6	18	0904		1.0	30	1026	0.5		15	0958	0.8	24		1059	0.4	12		1005	0.5	15
	1521	2.8	85	1525		2.5	76	1652	2.8		85	1613	2.3	70		1719	2.4	73		1619	2.1	64
	2114	0.7	21	2136	1.0	30	2250	0.2	6	2219	0.4	12	2318	-0.1	-3	2228	-0.1	-3				
13 Tu	0346	2.8	85		28 W	0353	2.5	76		13 F	0534	3.0	91		13 Su	0608	2.6	79	28 M	0521	2.3	70
	0943	0.5	15	0958		0.9	27	1120	0.5		15	1048	0.7	21		1150	0.4	12		1102	0.4	12
	1622	2.9	88	1617		2.5	76	1744	2.9		88	1704	2.4	73		1810	2.4	73		1720	2.2	67
	2215	0.6	18	2223	0.8	24	2339	0.1	3	2305	0.2	6				2322	-0.2	-6				
14 W	0452	3.0	91		29 Th	0448	2.6	79		14 Sa	0626	3.1	94		14 M	0006	-0.1	-3	29 Tu	0618	2.4	73
	1044	0.5	15	1046		0.9	27	1209	0.5		15	1135	0.6	18		0656	2.6	79		1155	0.3	9
	1719	3.0	91	1705		2.6	79	1833	2.9		88	1754	2.5	76		1236	0.4	12		1818	2.3	70
	2310	0.4	12	2306	0.7	21				2351	0.0	0	1857	2.4	73							
15 Th	0550	3.1	94		30 F	0538	2.7	82		15 Su	0026	0.0	0		15 Tu	0051	-0.1	-3	30 W	0015	-0.4	-12
	1138	0.4	12	1129		0.8	24	0714	3.1		94	1222	0.5	15		0741	2.6	79		0711	2.6	79
	1810	3.1	94	1749		2.7	82	1255	0.5		15	1843	2.6	79		1320	0.3	9		1247	0.1	3
				2345	0.5	15	1918	2.9	88				1941	2.4	73	1914	2.4	73				
				31 Sa	0625	2.9	88										31 Th	0107	-0.5	-15		
					1211	0.7	21											0802	2.7	82		
				1833	2.8	85										○	1339	0.0	0			
																	2008	2.5	76			

Time meridian 75° W. 0000 is midnight. 1

Vaca Key, Florida Bay, Florida, 2009

Times and Heights of High and Low Waters

January				February				March																		
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height													
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm												
1 Th	0406	1.0	30	16 F	0511	0.7	21	1 Su	0619	0.5	15	16 M	0850	0.2	6	1 Su	0540	0.6	18	16 M	0707	0.4	12			
	0945	0.1	3		1001	0.2	6		1030	0.2	6		1050	0.1	3		0913	0.3	9		0930	0.3	9			
	1736	0.8	24		1713	0.8	24		1736	0.7	21		1738	0.7	21		1618	0.8	24		1622	0.8	24	1622	0.8	24
	2151	0.4	12		2256	0.1	3		2331	-0.2	-6		○				2208	-0.3	-9		2243	-0.3	-9			
2 F	0500	0.9	27	17 Sa	0633	0.5	15	2 M	0856	0.3	9	17 Tu	0025	-0.3	-9	2 M	0711	0.4	12	17 Tu	1709	0.7	21			
	1028	0.2	6		1044	0.2	6		1109	0.2	6		1826	0.6	18		0950	0.3	9		2339	-0.3	-9			
	1756	0.8	24		1737	0.8	24		1811	0.7	21		○				1655	0.8	24		1655	0.8	24			
	2253	0.3	9		○				○				2306	-0.4	-12		2306	-0.4	-12							
3 Sa	0600	0.7	21	18 Su	0007	0.0	0	3 Tu	0037	-0.4	-12	18 W	0134	-0.3	-9	3 Tu	1737	0.8	24	18 W	1759	0.7	21			
	1112	0.2	6		0859	0.3	9		1851	0.7	21		1917	0.5	15		○				○					
	1824	0.8	24		1130	0.2	6		○				○				○				○					
					1813	0.8	24																			
4 Su	0000	0.1	3	19 M	0126	-0.2	-6	4 W	0144	-0.4	-12	19 Th	0455	-0.4	-12	4 W	0009	-0.5	-15	19 Th	0042	-0.3	-9			
	0733	0.5	15		1855	0.7	21		1936	0.7	21		2014	0.5	15		1823	0.8	24		1852	0.6	18			
	1157	0.3	9		○				○				○				○				○					
	1855	0.8	24																							
5 M	0109	0.0	0	20 Tu	0411	-0.3	-9	5 Th	0251	-0.5	-15	20 F	0605	-0.4	-12	5 Th	0116	-0.5	-15	20 F	0412	-0.3	-9			
	1930	0.8	24		1944	0.7	21		2030	0.7	21		2118	0.5	15		1916	0.7	21		1948	0.5	15			
					○				○				○				○				○					
6 Tu	0215	-0.2	-6	21 W	0522	-0.3	-9	6 F	0704	-0.5	-15	21 Sa	0707	-0.3	-9	6 F	0523	-0.4	-12	21 Sa	0514	-0.3	-9			
	2007	0.8	24		2038	0.6	18		2141	0.8	24		1344	0.3	9		2019	0.7	21		1230	0.3	9			
					○				○				1548	0.2	6		○				1439	0.2	6			
													2236	0.5	15						2054	0.5	15			
7 W	0316	-0.3	-9	22 Th	0634	-0.4	-12	7 Sa	0810	-0.4	-12	22 Su	0758	-0.3	-9	7 Sa	0634	-0.3	-9	22 Su	0609	-0.2	-6			
	2051	0.9	27		2139	0.6	18		2321	0.8	24		1415	0.3	9		1257	0.4	12		1259	0.3	9			
					○				○				1635	0.2	6		1453	0.3	9		1537	0.2	6			
																	2158	0.6	18		2236	0.5	15			
8 Th	0412	-0.4	-12	23 F	0741	-0.3	-9	8 Su	0531	-0.3	-9	23 M	0003	0.6	18	8 Su	0734	-0.2	-6	23 M	0659	-0.1	-3			
	2147	0.9	27		2248	0.7	21		1444	0.5	15		0841	-0.1	-3		1328	0.4	12		1324	0.4	12			
					○				1657	0.3	9		1440	0.4	12		1600	0.2	6		1625	0.2	6			
													1719	0.2	6											
9 F	0503	-0.4	-12	24 Sa	0835	-0.3	-9	9 M	0052	0.9	27	24 Tu	0106	0.7	21	9 M	0012	0.7	21	24 Tu	0029	0.5	15			
	1447	0.6	18		1453	0.4	12		0611	-0.2	-6		0612	-0.1	-3		0500	-0.2	-6		0502	0.0	0			
	1609	0.6	18		1649	0.3	9		1511	0.5	15		1459	0.5	15		1356	0.5	15		1343	0.5	15			
	2300	1.0	30		2354	0.7	21		1754	0.3	9		1803	0.2	6		1659	0.2	6		1708	0.1	3			
10 Sa	0550	-0.3	-9	25 Su	0917	-0.2	-6	10 Tu	0157	0.9	27	25 W	0158	0.7	21	10 Tu	0123	0.7	21	25 W	0130	0.6	18			
	1523	0.6	18		1525	0.5	15		0650	0.0	0		0646	0.0	0		0539	0.0	0		0535	0.1	3			
	1702	0.6	18		1731	0.4	12		1535	0.6	18		1507	0.6	18		1421	0.6	18		1352	0.5	15			
	○				○				1849	0.2	6		1849	0.2	6		1753	0.1	3		1751	0.1	3			
11 Su	0018	1.1	34	26 M	0050	0.8	24	11 W	0254	0.9	27	26 Th	0248	0.8	24	11 W	0222	0.7	21	26 Th	0224	0.7	21			
	0635	-0.2	-6		0641	-0.2	-6		0728	0.1	3		0722	0.1	3		0616	0.1	3		0610	0.2	6			
	1555	0.7	21		1551	0.5	15		1552	0.7	21		1509	0.6	18		1439	0.6	18		1352	0.7	21			
	1756	0.5	15		1815	0.4	12		1943	0.1	3		1935	0.1	3		1844	0.0	0		1834	0.0	0			
12 M	0126	1.1	34	27 Tu	0140	0.9	27	12 Th	0348	0.8	24	27 F	0339	0.7	21	12 Th	0317	0.7	21	27 F	0317	0.7	21			
	0717	-0.1	-3		0717	-0.1	-3		0806	0.2	6		0758	0.2	6		0654	0.2	6		0645	0.4	12			
	1624	0.7	21		1609	0.6	18		1554	0.7	21		1521	0.7	21		1443	0.7	21		1402	0.8	24			
	1852	0.5	15		1901	0.4	12		2037	0.0	0		2023	-0.1	-3		1931	-0.1	-3		1919	-0.1	-3			
13 Tu	0225	1.1	34	28 W	0228	0.9	27	13 F	0443	0.7	21	28 Sa	0435	0.7	21	13 F	0410	0.7	21	28 Sa	0409	0.7	21			
	0758	0.0	0		0754	0.0	0		0845	0.2	6		0836	0.3	9		0732	0.3	9		0721	0.4	12			
	1649	0.7	21		1617	0.6	18		1556	0.8	24		1546	0.8	24		1440	0.8	24		1427	0.9	27			
	1949	0.4	12		1949	0.3	9		2130	-0.1	-3		2114	-0.2	-6		2018	-0.2	-6		2006	-0.3	-9			
14 W	0320	1.0	30	29 Th	0317	0.9	27	14 Sa	0544	0.5	15	14 Sa	0503	0.6	18	14 Sa	0503	0.6	18	29 Su	0506	0.7	21			
	0839	0.1	3		0832	0.1	3		0925	0.2	6		0811	0.3	9		0811	0.3	9		0758	0.5	15			
	1706	0.8	24		1621	0.7	21		1619	0.8	24		1502	0.9	27		1502	0.9	27		1500	0.9	27			
	2048	0.3	9		2040	0.2	6		2225	-0.2	-6		2104	-0.2	-6		2104	-0.2	-6		2055	-0.3	-9			
15 Th	0414	0.9	27	30 F	0409	0.8	24	15 Su	0707	0.3	9	15 Su	0559	0.5	15	15 Su	0559	0.5	15	30 M	0609	0.6	18			
	0919	0.2	6		0911	0.1	3		1006	0.2	6		0850	0.3	9		0850	0.3	9		0835	0.5	15			
	1709	0.8	24		1638	0.7	21		1656	0.8	24		1539	0.9	27		1539	0.9	27		1539	1.0	30			
	2150	0.2	6		2133	0.1	3		2323	-0.2	-6		2152	-0.3	-9		2152	-0.3	-9		2147	-0.4	-12			
			31 Sa	0506	0.6	18																				
				0951	0.2	6																				
				1704	0.7	21																				
				2230	-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, 2009

Times and Heights of High and Low Waters

January				February				March																														
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height																									
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm																								
1 Th	0003	1.6	49		16 F	0121	1.3	40		1 Su	0131	1.0	30		16 M	0251	0.7	21		1 Su	0033	1.1	34		16 M	0122	0.9	27										
	0632	0.0	0			0710	0.1	3			0651	0.2	6			0732	0.3	9			0538	0.1	3			0608	0.3	9										
	1307	1.2	37			1344	1.5	46			1323	1.4	43			1416	1.4	43			1204	1.6	49			1241	1.6	49		1958	-0.1	-3						
	1822	0.4	12			2004	0.0	0			2008	-0.2	-6			2152	-0.1	-3			1848	-0.4	-12															
2 F	0050	1.5	46		17 Sa	0221	1.0	30		2 M	0238	0.8	24		17 Tu	0424	0.5	15		2 M	0127	0.9	27		17 Tu	0216	0.7	21		17 Tu	0643	0.4	12					
	0705	0.1	3			0749	0.2	6			0730	0.3	9			0820	0.4	12			0612	0.2	6			0643	0.4	12			1328	1.5	46					
	1342	1.3	40			1428	1.5	46			1408	1.5	46			1517	1.3	40			1244	1.6	49			1244	1.6	49			2108	0.0	0		1951	-0.3	-9	
	1924	0.3	9			2119	0.0	0			2124	-0.2	-6			2312	-0.1	-3			1951	-0.3	-9															
3 Sa	0145	1.3	40		18 Su	0335	0.8	24		3 Tu	0410	0.6	18		18 W	0620	0.5	15		3 Tu	0235	0.7	21		18 W	0334	0.6	18		18 W	0726	0.5	15					
	0741	0.2	6			0832	0.3	9			0817	0.3	9			0928	0.4	12			0652	0.3	9			0726	0.5	15			1335	1.6	49		1428	1.4	43	
	1419	1.4	43			1518	1.5	46			1507	1.5	46			1634	1.3	40			1335	1.6	49			2227	0.1	3			2106	-0.3	-9		2227	0.1	3	
	2035	0.2	6			2235	0.0	0			2245	-0.3	-9								2106	-0.3	-9															
4 Su	0255	1.1	34		19 M	0511	0.7	21		4 W	0557	0.6	18		19 Th	0023	-0.1	-3		4 W	0408	0.6	18		19 Th	0527	0.6	18		19 Th	0841	0.5	15					
	0822	0.4	12			0922	0.4	12			0921	0.4	12			0727	0.6	18			0744	0.4	12			0841	0.5	15			1444	1.6	49		1547	1.3	40	
	1501	1.5	46			1616	1.5	46			1622	1.6	49			1048	0.4	12			1444	1.6	49			1547	1.3	40			2231	-0.3	-9		2340	0.1	3	
	2151	0.1	3			2347	-0.1	-3								1752	1.4	43			2231	-0.3	-9															
5 M	0424	0.9	27		20 Tu	0644	0.6	18		5 Th	0002	-0.4	-12		20 F	0119	-0.1	-3		5 Th	0549	0.6	18		20 F	0639	0.7	21		20 F	1019	0.6	18					
	0910	0.4	12			1020	0.4	12			0715	0.6	18			0804	0.7	21			0901	0.4	12			1614	1.6	49			1712	1.4	43					
	1551	1.6	49			1720	1.5	46			1037	0.4	12			1156	0.4	12			1614	1.6	49			2350	-0.3	-9										
	2306	-0.1	-3								1745	1.7	52			1854	1.4	43			2350	-0.3	-9															
6 Tu	0601	0.8	24		21 W	0050	-0.1	-3		6 F	0108	-0.5	-15		21 Sa	0200	-0.2	-6		6 F	0657	0.7	21		21 Sa	0035	0.1	3		21 Sa	0715	0.8	24					
	1006	0.5	15			0747	0.6	18			0808	0.7	21			0831	0.8	24			1032	0.4	12			1746	1.7	52			1137	0.5	15					
	1651	1.7	52			1121	0.4	12			1151	0.3	9			1252	0.3	9			1746	1.7	52								1822	1.4	43					
						1821	1.5	46			1859	1.8	55			1943	1.5	46																				
7 W	0014	-0.3	-9		22 Th	0142	-0.2	-6		7 Sa	0203	-0.5	-15		22 Su	0233	-0.2	-6		7 Sa	0052	-0.3	-9		22 Su	0115	0.1	3		22 Su	0742	1.0	30					
	0720	0.8	24			0830	0.7	21			0849	0.8	24			0856	0.9	27			0742	0.8	24			0742	1.0	30			1236	0.4	12					
	1105	0.5	15			1217	0.4	12			1258	0.2	6			1339	0.2	6			1154	0.3	9			1236	0.4	12			1917	1.5	46					
	1756	1.8	55			1915	1.5	46			2003	1.9	58			2025	1.6	49			1901	1.8	55			1917	1.5	46										
8 Th	0116	-0.5	-15		23 F	0225	-0.3	-9		8 Su	0249	-0.5	-15		23 M	0301	-0.2	-6		8 Su	0140	-0.3	-9		23 M	0145	0.1	3		23 M	0807	1.1	34					
	0819	0.8	24			0902	0.7	21			0926	0.9	27			0921	1.0	30			0820	1.0	30			0807	1.1	34			1325	0.2	6					
	1205	0.4	12			1306	0.3	9			1359	0.0	0			1422	0.1	3			1303	0.1	3			1325	0.2	6			2004	1.5	46					
	1900	2.0	61			2000	1.6	49			2059	2.0	61			2105	1.6	49			2003	1.8	55			2004	1.5	46										
9 F	0212	-0.6	-18		24 Sa	0301	-0.3	-9		9 M	0329	-0.5	-15		24 Tu	0325	-0.2	-6		9 M	0220	-0.2	-6		24 Tu	0211	0.1	3		24 Tu	0832	1.3	40					
	0907	0.9	27			0931	0.8	24			1001	1.1	34			0946	1.2	37			0853	1.2	37			1408	0.1	3			2047	1.6	49					
	1303	0.3	9			1350	0.3	9			1457	-0.1	-3			1503	0.0	0			1403	-0.1	-3			2047	1.6	49										
	2001	2.1	64			2041	1.7	52			2150	1.9	58			2143	1.6	49			2057	1.8	55															
10 Sa	0303	-0.7	-21		25 Su	0333	-0.3	-9		10 Tu	0406	-0.4	-12		25 W	0349	-0.1	-3		10 Tu	0255	-0.2	-6		25 W	0236	0.1	3		25 W	0858	1.5	46					
	0950	0.9	27			0958	0.9	27			1034	1.3	40			1011	1.3	40			0925	1.4	43			1448	-0.1	-3			2130	1.5	46					
	1400	0.2	6			1432	0.2	6			1552	-0.2	-6			1543	-0.1	-3			1457	-0.2	-6			2130	1.5	46										
	2058	2.2	67			2119	1.7	52			2238	1.8	55			2222	1.6	49			2145	1.7	52															
11 Su	0350	-0.6	-18		26 M	0402	-0.3	-9		11 W	0441	-0.3	-9		26 Th	0413	-0.1	-3		11 W	0328	-0.1	-3		26 Th	0302	0.1	3		26 Th	0924	1.6	49					
	1030	1.0	30			1025	1.0	30			1107	1.4	43			1037	1.4	43			0956	1.6	49			1529	-0.3	-9			2212	1.5	46					
	1456	0.1	3			1512	0.2	6			1645	-0.3	-9			1624	-0.2	-6			1547	-0.3	-9			2212	1.5	46										
	2153	2.2	67			2156	1.7	52			2325	1.6	49			2302	1.5	46			2230	1.6	49															
12 M	0434	-0.6	-18		27 Tu	0429	-0.3	-9		12 Th	0514	-0.2	-6		27 F	0439	0.0	0		12 Th	0401	0.0	0		27 F	0329	0.2	6		27 F	0952	1.7	52					
	1108	1.1	34			1053	1.1	34			1140	1.5	46			1103	1.5	46			1026	1.7	52			1611	-0.4	-12			2256	1.4	43					
	1552	0.0	0			1552	0.1	3			1739	-0.3	-9			1707	-0.3	-9			1635</																	

Key West, Florida, 2009

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 W	0238	0.8	24		16 Th	0258	0.8	24		1 F	0336	0.9	27		16 Sa	0316	1.0	30		1 M	0441	1.5	46		16 Tu	0339	1.4	43	
	0632	0.4	12			0655	0.6	18			0749	0.5	15			0753	0.7	21			1049	0.2	6			1000	0.3	9	
	1323	1.8	55			1351	1.5	46			1441	1.7	52			1420	1.4	43			1722	1.2	37			1608	1.1	34	
	2056	-0.2	-6			2135	0.1	3			2143	0.0	0			2127	0.2	6			2236	0.3	9			2138	0.4	12	
2 Th	0401	0.7	21		17 F	0416	0.8	24		2 Sa	0439	1.1	34		17 Su	0406	1.1	34		2 Tu	0529	1.7	52		17 W	0420	1.5	46	
	0737	0.5	15			0812	0.7	21			0922	0.5	15			0920	0.6	18			1201	0.1	3			1107	0.1	3	
	1440	1.7	52			1501	1.4	43			1609	1.5	46			1531	1.3	40			1841	1.1	34			1734	1.0	30	
	2214	-0.1	-3			2238	0.2	6			2241	0.1	3			2211	0.3	9			2321	0.4	12			2223	0.5	15	
3 F	0521	0.8	24		18 Sa	0522	0.9	27		3 Su	0533	1.3	40		18 M	0449	1.2	37		3 W	0614	1.8	55		18 Th	0504	1.6	49	
	0908	0.5	15			0951	0.7	21			1052	0.4	12			1039	0.5	15			1301	-0.1	-3			1208	-0.1	-3	
	1614	1.6	49			1621	1.4	43			1737	1.4	43			1650	1.2	37			1946	1.0	30			1854	0.9	27	
	2323	-0.1	-3			2329	0.2	6			2329	0.2	6			2252	0.4	12			2310	0.5	15			2310	0.5	15	
4 Sa	0620	1.0	30		19 Su	0605	1.1	34		4 M	0618	1.5	46		19 Tu	0528	1.4	43		4 Th	0004	0.4	12		19 F	0553	1.8	55	
	1043	0.4	12			1112	0.6	18			1207	0.2	6			1143	0.3	9			0657	1.8	55			1304	-0.3	-9	
	1745	1.6	49			1738	1.4	43			1851	1.4	43			1807	1.2	37			1351	-0.2	-6			2001	0.9	27	
																2330	0.4	12			2040	1.0	30						
5 Su	0018	0.0	0		20 M	0009	0.3	9		5 Tu	0012	0.3	9		20 W	0604	1.5	46		5 F	0047	0.5	15		20 Sa	0000	0.5	15	
	0704	1.1	34			0639	1.2	37			0658	1.6	49			1236	0.0	0			0737	1.9	58			0645	1.9	58	
	1203	0.3	9			1214	0.4	12			1308	0.0	0			1914	1.2	37			1435	-0.3	-9			1358	-0.5	-15	
	1859	1.6	49			1843	1.4	43			1954	1.3	40								2124	0.9	27			2057	0.9	27	
6 M	0101	0.1	3		21 Tu	0041	0.3	9		6 W	0051	0.4	12		21 Th	0008	0.4	12		6 Sa	0128	0.4	12		21 Su	0050	0.4	12	
	0741	1.4	43			0708	1.4	43			0734	1.8	55			0641	1.7	52			0815	1.9	58			0739	2.1	64	
	1308	0.1	3			1303	0.2	6			1400	-0.2	-6			1325	-0.2	-6			1516	-0.3	-9			1450	-0.6	-18	
	2000	1.6	49			1939	1.4	43			2046	1.2	37			2013	1.2	37			2203	0.9	27			2146	0.9	27	
7 Tu	0139	0.1	3		22 W	0111	0.3	9		7 Th	0128	0.4	12		22 F	0047	0.4	12		7 Su	0208	0.4	12		22 M	0141	0.4	12	
	0814	1.6	49			0737	1.5	46			0808	1.9	58			0720	1.9	58			0853	1.9	58			0834	2.2	67	
	1404	-0.1	-3			1348	0.0	0			1445	-0.3	-9			1412	-0.4	-12			1556	-0.3	-9			1540	-0.7	-21	
	2052	1.5	46			2029	1.4	43			2132	1.2	37			2107	1.1	34			2239	0.9	27			2232	1.0	30	
8 W	0213	0.2	6		23 Th	0141	0.3	9		8 F	0205	0.4	12		23 Sa	0127	0.4	12		8 M	0247	0.4	12		23 Tu	0234	0.3	9	
	0846	1.7	52			0807	1.7	52			0841	1.9	58			0802	2.0	61			0930	1.9	58			0930	2.3	70	
	1453	-0.3	-9			1430	-0.3	-9			1527	-0.4	-12			1500	-0.6	-18			1635	-0.3	-9			1630	-0.6	-18	
	2138	1.5	46			2117	1.4	43			2213	1.1	34			2157	1.1	34			2313	0.9	27			2316	1.0	30	
9 Th	0246	0.2	6		24 F	0213	0.3	9		9 Sa	0241	0.4	12		24 Su	0209	0.4	12		9 Tu	0326	0.4	12		24 W	0329	0.3	9	
	0917	1.8	55			0839	1.8	55			0914	1.9	58			0847	2.1	64			1008	1.8	55			1025	2.3	70	
	1538	-0.4	-12			1513	-0.5	-15			1607	-0.4	-12			1549	-0.7	-21			1713	-0.3	-9			1718	-0.5	-15	
	2221	1.3	40			2204	1.3	40			2251	1.1	34			2245	1.0	30			2348	0.9	27			2359	1.1	34	
10 F	0319	0.2	6		25 Sa	0247	0.4	12		10 Su	0316	0.4	12		25 M	0252	0.4	12		10 W	0404	0.5	15		25 Th	0427	0.2	6	
	0947	1.9	58			0913	2.0	61			0948	1.9	58			0935	2.2	67			1047	1.8	55			1120	2.1	64	
	1621	-0.4	-12			1558	-0.6	-18			1648	-0.4	-12			1639	-0.7	-21			1752	-0.2	-6			1804	-0.4	-12	
	2301	1.2	37			2251	1.2	37			2327	1.0	30			2333	1.0	30											
11 Sa	0352	0.3	9		26 Su	0322	0.4	12		11 M	0351	0.4	12		26 Tu	0339	0.3	9		11 Th	0025	1.0	30		26 F	0042	1.2	37	
	1018	1.9	58			0952	2.0	61			1024	1.9	58			1027	2.2	67			0446	0.5	15			0530	0.2	6	
	1704	-0.4	-12			1646	-0.6	-18			1729	-0.3	-9			1731	-0.6	-18			1127	1.8	55			1216	2.0	61	
	2340	1.1	34			2340	1.1	34													1829	-0.1	-3			1848	-0.2	-6	
12 Su	0425	0.3	9		27 M	0400	0.4	12		12 Tu	0005	1.0	30		27 W	0022	1.0	30		12 F	0103	1.0	30		27 Sa	0126	1.3	40	
	1051	1.8	55			1035	2.1	64			0426	0.5	15			0430	0.3	9			0532	0.5	15			0639	0.2	6	
	1747	-0.3	-9			1737	-0.6	-18			1103	1.8	55			1121	2.1	64			1209	1.7	52			1316	1.7	52	
											1813	-0.2	-6			1824	-0.5	-15			1906	0.0	0			1931	0.0	0	
13 M	0019	1.0	30		28 Tu	0032	1.0	30		13 W	0047	0.9	27		28 Th	0113	1.0	30		13 Sa	0142	1.1	34		28 Su	0212	1.5	46	
	0458	0.4	12			0442	0.4	12			0503	0.5	15			0528	0.4	12			0627	0.6	18			0755	0.2	6	
	1127	1.7	52			1124	2.1	64			1144	1.7	52			1220	2.0	61			1255	1.5	46			1420	1.4	43	
	1834	-0.2	-6			1833	-0.5	-15			1859	-0.1	-3			1918	-0.3	-9			1942	0.1	3			2013	0.2	6	
14 Tu	0102	0.9	27		29 W	0128	0.9	27		14 Th	0133	0.9	27		29 F	0204	1.1	34		14 Su	0221	1.2	37		29 M	0259	1.6	49	
	0531	0.4	12			0531																							

Key West, Florida, 2009

Times and Heights of High and Low Waters

July				August				September																					
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height																
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm															
1 W	0441	1.7	52		16 Th	0322	1.7	52		1 Sa	0602	1.8	55		16 Su	0508	2.1	64		1 Tu	0036	0.8	24		16 W	0030	0.7	21	
	1145	0.0	0			1035	0.1	3			1325	0.1	3			1237	0.0	0			0728	2.0	61			0731	2.3	70	
	1828	0.9	27			1712	0.9	27			2014	0.9	27			1936	1.0	30			1415	0.3	9			1349	0.3	9	
	2232	0.5	15			2126	0.5	15			2352	0.6	18			2313	0.7	21			2038	1.4	43			2021	1.7	52	
2 Th	0534	1.8	55		17 F	0417	1.8	55		2 Su	0659	1.8	55		17 M	0624	2.2	67		2 W	0125	0.7	21		17 Th	0132	0.5	15	
	1247	-0.1	-3			1145	-0.1	-3			1411	0.0	0			1333	-0.1	-3			0810	2.1	64			0828	2.3	70	
	1938	0.8	24			1843	0.8	24			2050	1.0	30			2020	1.1	34			1443	0.4	12			1426	0.4	12	
	2323	0.5	15			2224	0.6	18													2102	1.5	46			2055	1.9	58	
3 F	0626	1.8	55		18 Sa	0521	1.9	58		3 M	0045	0.6	18		18 Tu	0024	0.6	18		3 Th	0208	0.6	18		18 F	0228	0.3	9	
	1340	-0.2	-6			1249	-0.3	-9			0746	1.9	58			0731	2.3	70			0849	2.1	64			0919	2.3	70	
	2031	0.8	24			1951	0.9	27			1448	0.0	0			1420	-0.1	-3			1508	0.4	12			1500	0.5	15	
						2327	0.5	15			2119	1.0	30			2058	1.3	40			2126	1.7	52			2127	2.1	64	
4 Sa	0013	0.5	15		19 Su	0627	2.1	64		4 Tu	0134	0.6	18		19 W	0128	0.4	12		4 F	0248	0.5	15		19 Sa	0321	0.2	6	
	0714	1.8	55			1347	-0.4	-12			0828	2.0	61			0830	2.4	73			0927	2.1	64			1008	2.1	64	
	1426	-0.2	-6			2043	0.9	27			1521	0.0	0			1502	-0.1	-3			1531	0.4	12			1534	0.5	15	
	2113	0.8	24								2146	1.1	34			2133	1.5	46			2151	1.8	55			2200	2.3	70	
5 Su	0101	0.5	15		20 M	0028	0.5	15		5 W	0218	0.5	15		20 Th	0228	0.3	9		5 Sa	0328	0.4	12		20 Su	0412	0.1	3	
	0759	1.8	55			0732	2.2	67			0906	2.0	61			0924	2.4	73			1005	2.0	61			1054	1.9	58	
	1506	-0.2	-6			1439	-0.4	-12			1550	0.0	0			1539	0.0	0			1555	0.5	15			1607	0.6	18	
	2147	0.9	27			2127	1.0	30			2213	1.3	40			2208	1.7	52			2217	1.9	58			2234	2.3	70	
6 M	0146	0.5	15		21 Tu	0129	0.4	12		6 Th	0300	0.5	15		21 F	0325	0.2	6		6 Su	0407	0.3	9		21 M	0501	0.1	3	
	0840	1.9	58			0831	2.3	70			0942	2.0	61			1016	2.2	67			1044	1.9	58			1139	1.8	55	
	1543	-0.2	-6			1527	-0.4	-12			1616	0.1	3			1615	0.2	6			1619	0.5	15			1641	0.7	21	
	2219	0.9	27			2208	1.1	34			2239	1.4	43			2242	1.8	55			2244	2.0	61			2309	2.3	70	
7 Tu	0228	0.4	12		22 W	0227	0.3	9		7 F	0341	0.5	15		22 Sa	0421	0.1	3		7 M	0448	0.3	9		22 Tu	0551	0.2	6	
	0918	1.9	58			0928	2.3	70			1019	2.0	61			1105	2.1	64			1125	1.8	55			1225	1.6	49	
	1618	-0.2	-6			1611	-0.4	-12			1641	0.1	3			1650	0.3	9			1646	0.6	18			1716	0.8	24	
	2249	1.0	30			2246	1.2	37			2306	1.5	46			2317	2.0	61			2312	2.0	61			2347	2.3	70	
8 W	0310	0.4	12		23 Th	0326	0.2	6		8 Sa	0422	0.4	12		23 Su	0517	0.1	3		8 Tu	0532	0.2	6		23 W	0645	0.3	9	
	0956	1.9	58			1022	2.3	70			1057	1.9	58			1154	1.8	55			1210	1.6	49			1313	1.4	43	
	1651	-0.2	-6			1652	-0.3	-9			1706	0.2	6			1724	0.4	12			1716	0.7	21			1752	0.8	24	
	2320	1.1	34			2324	1.4	43			2333	1.6	49			2353	2.0	61			2343	2.1	64						
9 Th	0351	0.4	12		24 F	0426	0.1	3		9 Su	0505	0.4	12		24 M	0613	0.1	3		9 W	0622	0.2	6		24 Th	0030	2.2	67	
	1033	1.9	58			1114	2.1	64			1136	1.7	52			1244	1.6	49			1301	1.4	43			0745	0.4	12	
	1722	-0.1	-3			1731	-0.1	-3			1731	0.3	9			1759	0.5	15			1748	0.7	21			1411	1.3	40	
	2351	1.2	37																				1831	0.9		27			
10 F	0434	0.5	15		25 Sa	0002	1.5	46		10 M	0001	1.7	52		25 Tu	0032	2.1	64		10 Th	0022	2.1	64		25 F	0121	2.0	61	
	1111	1.8	55			0527	0.1	3			0551	0.3	9			0713	0.2	6			0722	0.2	6			0856	0.5	15	
	1751	0.0	0			1207	1.9	58			1220	1.6	49			1338	1.3	40			1403	1.3	40			1530	1.2	37	
						1808	0.1	3			1759	0.4	12			1836	0.6	18			1826	0.8	24			1922	1.0	30	
11 Sa	0022	1.2	37		26 Su	0041	1.7	52		11 Tu	0031	1.7	52		26 W	0115	2.0	61		11 F	0110	2.1	64		26 Sa	0224	2.0	61	
	0520	0.5	15			0631	0.1	3			0642	0.3	9			0819	0.3	9			0834	0.3	9			1014	0.6	18	
	1151	1.7	52			1302	1.6	49			1309	1.4	43			1441	1.1	34			1526	1.1	34			1708	1.2	37	
	1819	0.1	3			1846	0.2	6			1829	0.5	15			1916	0.7	21			1914	0.9	27			2041	1.1	34	
12 Su	0054	1.3	40		27 M	0122	1.8	55		12 W	0104	1.8	55		27 Th	0205	1.9	58		12 Sa	0215	2.1	64		27 Su	0342	1.9	58	
	0611	0.4	12			0739	0.1	3			0742	0.2	6			0934	0.3	9			0956	0.3	9			1124	0.6	18	
	1235	1.5	46			1401	1.3	40			1408	1.2	37			1606	1.0	30			1703	1.1	34			1816	1.3	40	
	1848	0.2	6			1924	0.4	12			1904	0.6	18			2005	0.8	24			2025	0.9	27			2212	1.1	34	
13 M	0126	1.4	43		28 Tu	0206	1.8	55		13 Th	0146	1.8	55		28 F	0307	1.9	58		13 Su	0338	2.1	64		28 M	0502	1.9	58	
	0707	0.4	12			0851	0.2	6			0852	0.2	6			1053	0.4	12			1115	0.3	9			1217	0.6	18	
	1324	1.4	43			1510	1.1	34			1525	1.0	30			1749	1.0	30			1818	1.2	37			1854	1.4	43	
	1919	0.3	9			2005	0.5	15			1947	0.7	21			2113	0.9	27			2154	0.9	27			2327	1.0	30	
14 Tu	0159	1.5	46		29 W	0256	1.8	55		14 F	0239	1.9	58		29 Sa	0423	1.8	55		14 M	0507	2.2	67		29 Tu	0609	2.0	61	
	0811	0.3	9			1008	0.2																						

Key West, Florida, 2009

Times and Heights of High and Low Waters

October				November				December																					
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height																
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm															
1 Th	0112	0.8	24		16 F	0135	0.4	12		1 Su	0214	0.2	6		16 M	0306	-0.1	-3		1 Tu	0240	-0.3	-9		16 W	0340	-0.2	-6	
	0748	2.1	64			0825	2.1	64			0856	1.8	55			0954	1.5	46			0932	1.3	40			1022	1.1	34	
	1353	0.7	21			1344	0.7	21			1353	0.8	24			1419	0.7	21			1348	0.6	18			1435	0.5	15	
	2011	1.9	58			2016	2.3	70			2018	2.2	67			2056	2.3	70			2027	2.3	70			2120	2.0	61	
2 F	0154	0.6	18		17 Sa	0226	0.2	6		2 M	0254	0.1	3		17 Tu	0348	-0.1	-3		2 W	0325	-0.4	-12		17 Th	0418	-0.2	-6	
	0830	2.1	64			0915	2.0	61			0941	1.7	52			1033	1.4	43			1018	1.3	40			1055	1.1	34	
	1417	0.7	21			1419	0.7	21			1425	0.8	24			1457	0.7	21			1430	0.6	18			1515	0.5	15	
	2036	2.0	61			2050	2.4	73			2052	2.3	70			2133	2.3	70			2113	2.4	73			2158	2.0	61	
3 Sa	0233	0.5	15		18 Su	0314	0.1	3		3 Tu	0336	-0.1	-3		18 W	0430	-0.1	-3		3 Th	0413	-0.4	-12		18 F	0456	-0.2	-6	
	0911	2.0	61			1000	1.9	58			1026	1.6	49			1111	1.3	40			1104	1.2	37			1128	1.1	34	
	1442	0.7	21			1454	0.8	24			1458	0.8	24			1534	0.7	21			1515	0.5	15			1555	0.5	15	
	2102	2.1	64			2123	2.4	73			2129	2.4	73			2211	2.2	67			2202	2.4	73			2236	1.9	58	
4 Su	0311	0.3	9		19 M	0359	0.0	0		4 W	0421	-0.1	-3		19 Th	0512	0.0	0		4 F	0502	-0.4	-12		19 Sa	0534	-0.1	-3	
	0952	2.0	61			1043	1.7	52			1112	1.5	46			1149	1.3	40			1150	1.2	37			1202	1.1	34	
	1508	0.7	21			1528	0.8	24			1535	0.8	24			1611	0.7	21			1604	0.5	15			1637	0.5	15	
	2130	2.2	67			2157	2.4	73			2210	2.5	76			2250	2.2	67			2255	2.3	70			2315	1.9	58	
5 M	0350	0.2	6		20 Tu	0444	0.1	3		5 Th	0509	-0.1	-3		20 F	0557	0.1	3		5 Sa	0553	-0.2	-6		20 Su	0610	0.0	0	
	1034	1.9	58			1125	1.6	49			1201	1.4	43			1229	1.2	37			1237	1.2	37			1237	1.1	34	
	1536	0.8	24			1603	0.8	24			1615	0.8	24			1651	0.8	24			1659	0.5	15			1721	0.5	15	
	2200	2.3	70			2234	2.4	73			2257	2.4	73			2332	2.1	64			2351	2.2	67			2356	1.8	55	
6 Tu	0432	0.1	3		21 W	0530	0.1	3		6 F	0603	0.0	0		21 Sa	0644	0.2	6		6 Su	0644	-0.1	-3		21 M	0646	0.1	3	
	1118	1.7	52			1206	1.5	46			1255	1.3	40			1313	1.2	37			1326	1.3	40			1314	1.2	37	
	1606	0.8	24			1639	0.9	27			1701	0.8	24			1734	0.8	24			1803	0.5	15			1813	0.6	18	
	2233	2.3	70			2312	2.3	70			2350	2.4	73																
7 W	0518	0.1	3		22 Th	0619	0.3	9		7 Sa	0701	0.1	3		22 Su	0017	2.0	61		7 M	0052	2.0	61		22 Tu	0040	1.6	49	
	1205	1.6	49			1251	1.4	43			1354	1.3	40			0733	0.3	9			0735	0.1	3			0721	0.2	6	
	1640	0.8	24			1715	0.9	27			1758	0.9	27			1402	1.3	40			1417	1.4	43			1351	1.3	40	
	2311	2.3	70			2355	2.2	67								1829	0.9	27			1919	0.5	15			1913	0.6	18	
8 Th	0610	0.1	3		23 F	0713	0.4	12		8 Su	0052	2.3	70		23 M	0108	1.8	55		8 Tu	0201	1.8	55		23 W	0131	1.4	43	
	1259	1.4	43			1343	1.3	40			0805	0.3	9			0823	0.4	12			0826	0.3	9			0756	0.3	9	
	1717	0.9	27			1756	1.0	30			1458	1.3	40			1454	1.3	40			1510	1.5	46			1430	1.3	40	
	2357	2.3	70								1911	0.9	27			1942	0.9	27			2045	0.5	15			2023	0.5	15	
9 F	0711	0.2	6		24 Sa	0045	2.1	64		9 M	0206	2.1	64		24 Tu	0208	1.7	52		9 W	0321	1.6	49		24 Th	0231	1.2	37	
	1404	1.3	40			0816	0.5	15			0908	0.4	12			0912	0.5	15			0916	0.4	12			0832	0.4	12	
	1802	0.9	27			1448	1.3	40			1600	1.5	46			1543	1.4	43			1602	1.7	52			1510	1.4	43	
						1850	1.1	34			2042	0.9	27			2109	0.9	27			2212	0.4	12			2138	0.4	12	
10 Sa	0054	2.3	70		25 Su	0143	2.0	61		10 Tu	0332	2.0	61		25 W	0318	1.6	49		10 Th	0449	1.4	43		25 F	0346	1.1	34	
	0822	0.3	9			0924	0.6	18			1007	0.5	15			0957	0.6	18			1005	0.5	15			0913	0.5	15	
	1522	1.3	40			1603	1.3	40			1655	1.6	49			1628	1.5	46			1654	1.8	55			1554	1.5	46	
	1903	1.0	30			2011	1.1	34			2215	0.8	24			2229	0.8	24			2330	0.2	6			2249	0.2	6	
11 Su	0208	2.2	67		26 M	0254	1.9	58		11 W	0501	1.8	55		26 Th	0436	1.5	46		11 F	0614	1.2	37		26 Sa	0513	1.0	30	
	0939	0.4	12			1026	0.7	21			1058	0.6	18			1038	0.7	21			1053	0.6	18			0959	0.5	15	
	1641	1.3	40			1705	1.4	43			1743	1.8	55			1708	1.6	49			1745	1.9	58			1641	1.6	49	
	2030	1.0	30			2147	1.1	34			2334	0.6	18			2332	0.6	18								2351	0.0	0	
12 M	0336	2.2	67		27 Tu	0412	1.8	55		12 Th	0620	1.8	55		27 F	0552	1.4	43		12 Sa	0035	0.0	0		27 Su	0636	0.9	27	
	1049	0.5	15			1116	0.7	21			1143	0.7	21			1116	0.7	21			0724	1.2	37			1049	0.6	18	
	1742	1.5	46			1747	1.5	46			1826	2.0	61			1746	1.8	55			1140	0.6	18			1732	1.7	52	
	2206	1.0	30			2305	1.0	30													1833	2.0	61						
13 Tu	0507	2.2	67		28 W	0526	1.8	55		13 F	0039	0.3	9		28 Sa	0024	0.3	9		13 Su	0129	-0.1	-3		28 M	0047	-0.2	-6	
	1145	0.5	15			1155	0.8	24			0726	1.7	52			0658	1.4	43			0821	1.1	34			0742	0.9	27	
	1828	1.7	52			1819	1.7	52			1224	0.7	21			1153	0.7	21			1227	0.6	18			1141	0.5	15	
	2329	0.8	24								1905	2.2	67			1823	1.9	58			1918	2.0	61			1826	1.8	55	
14 W	0624	2.2	67		29 Th	0004	0.8	24		14 Sa	0134	0.1	3		29 Su	0110	0.1	3		14 M	0217	-0.2	-6		29 Tu	0139	-0.4	-12	
	1230	0.6	18			0629																							

Naples, Florida, 2009

Times and Heights of High and Low Waters

January				February				March																										
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height																					
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm																				
1 Th	0156	2.5	76		16 F	0352	2.2	67		1 Su	0356	1.8	55		16 M	0550	1.5	46		1 Su	0249	2.1	64		16 M	0404	1.8	55						
	0905	0.0	0			0954	0.5	15			0920	0.8	24			0835	1.4	43			0819	0.8	24			0831	1.3	40						
	1549	2.4	73			1612	2.5	76			1530	2.6	79			1641	2.4	73			1401	2.8	85			1443	2.6	79						
	2128	0.9	27			2253	0.3	9			2308	0.0	0			0		2137	-0.3		-9		2137	-0.3		-9		2236	0.0	0				
2 F	0253	2.2	67		17 Sa	0503	1.8	55		2 M	0529	1.6	49		17 Tu	0034	0.1	3		2 M	0402	1.8	55		17 Tu	0516	1.6	49		17 Tu	0756	1.5	46	
	0939	0.3	9			1040	0.9	27			0945	1.1	34			1754	2.3	70			0841	1.1	34			1535	2.4	73						
	1621	2.4	73			1655	2.5	76			1609	2.6	79			0		2243	-0.3		-9		1436	2.8		85		1535	2.4		73			
	2232	0.8	24			0		0			0		0			0535	1.6	49			1523	2.7	82			2348	0.2	6						
3 Sa	0410	2.0	61		18 Su	0005	0.2	6		3 Tu	0024	-0.2	-6		18 W	0145	0.0	0		3 Tu	0535	1.6	49		18 W	1708	2.3	70		18 W	0			
	1016	0.7	21			0630	1.6	49			0724	1.5	46			1130	1.8	55			0859	1.4	43			0								
	1652	2.5	76			1136	1.3	40			1010	1.4	43			1334	1.7	52			1523	2.7	82			0								
	2344	0.5	15			1743	2.5	76			1706	2.6	79			1917	2.3	70			0					0								
4 Su	0546	1.8	55		19 M	0116	0.1	3		4 W	0136	-0.4	-12		19 Th	0246	-0.1	-3		4 W	0000	-0.3	-9		19 Th	0102	0.2	6		19 Th	1103	1.8	55	
	1101	1.0	30			1031	1.6	49			1011	1.7	52			1145	1.8	55			1633	2.6	79			1305	1.7	52						
	1726	2.5	76			1248	1.5	46			1251	1.6	49			1445	1.6	49			0					1844	2.2	67						
	0					1842	2.4	73			1833	2.7	82			2028	2.4	73			0					0								
5 M	0055	0.2	6		20 Tu	0219	-0.1	-3		5 Th	0241	-0.7	-21		20 F	0336	-0.2	-6		5 Th	0116	-0.4	-12		20 F	0205	0.1	3		20 F	1052	1.9	58	
	0729	1.7	52			1128	1.8	55			1050	1.9	58			1142	1.9	58			1031	1.8	55			1052	1.9	58						
	1206	1.3	40			1400	1.6	49			1422	1.6	49			1536	1.4	43			1256	1.7	52			1419	1.6	49						
	1811	2.7	82			1946	2.5	76			2008	2.8	85			2123	2.5	76			1835	2.6	79			2000	2.3	70						
6 Tu	0159	-0.2	-6		21 W	0314	-0.2	-6		6 F	0339	-0.9	-27		21 Sa	0418	-0.3	-9		6 F	0223	-0.6	-18		21 Sa	0257	0.0	0		21 Sa	1010	2.0	61	
	0907	1.8	55			1203	1.9	58			1115	2.0	61			1120	1.9	58			1028	2.0	61			1010	2.0	61						
	1324	1.5	46			1503	1.6	49			1529	1.4	43			1618	1.2	37			1421	1.5	46			1510	1.3	40						
	1910	2.8	85			2046	2.5	76			2119	3.0	91			2207	2.6	79			2015	2.7	82			2059	2.4	73						
7 W	0258	-0.6	-18		22 Th	0402	-0.4	-12		7 Sa	0432	-1.1	-34		22 Su	0455	-0.4	-12		7 Sa	0321	-0.7	-21		22 Su	0340	0.0	0		22 Su	1020	2.1	64	
	1022	2.0	61			1222	1.9	58			1140	2.1	64			1130	2.1	64			1042	2.1	64			1020	2.1	64						
	1434	1.6	49			1554	1.5	46			1626	1.1	34			1655	1.0	30			1524	1.2	37			1551	1.0	30						
	2016	3.0	91			2136	2.6	79			2217	3.1	94			2245	2.7	82			2124	2.9	88			2147	2.6	79						
8 Th	0353	-0.9	-27		23 F	0444	-0.5	-15		8 Su	0520	-1.1	-34		23 M	0528	-0.4	-12		8 Su	0412	-0.7	-21		23 M	0417	0.0	0		23 M	1040	2.3	70	
	1117	2.1	64			1209	1.9	58			1206	2.2	67			1150	2.2	67			1102	2.2	67			1040	2.3	70						
	1537	1.6	49			1637	1.4	43			1718	0.8	24			1730	0.7	21			1618	0.8	24			1628	0.7	21						
	2116	3.2	98			2218	2.7	82			2309	3.2	98			2321	2.7	82			2220	3.0	91			2229	2.7	82						
9 F	0446	-1.2	-37		24 Sa	0522	-0.6	-18		9 M	0604	-1.0	-30		24 Tu	0600	-0.4	-12		9 M	0457	-0.6	-18		24 Tu	0451	0.0	0		24 Tu	1103	2.5	76	
	1157	2.2	67			1211	2.0	61			1232	2.3	70			1214	2.4	73			1124	2.4	73			1103	2.5	76						
	1634	1.4	43			1715	1.3	40			1806	0.5	15			1804	0.5	15			1706	0.4	12			1704	0.4	12						
	2212	3.3	101			2256	2.8	85			2358	3.1	94			2355	2.7	82			2309	3.0	91			2307	2.7	82						
10 Sa	0535	-1.3	-40		25 Su	0557	-0.6	-18		10 Tu	0644	-0.8	-24		25 W	0630	-0.3	-9		10 Tu	0538	-0.4	-12		25 W	0523	0.1	3		25 W	1126	2.6	79	
	1235	2.3	70			1230	2.1	64			1300	2.4	73			1237	2.5	76			1147	2.5	76			1126	2.6	79						
	1727	1.2	37			1750	1.1	34			1853	0.2	6			1840	0.2	6			1752	0.0	0			1741	0.1	3						
	2304	3.4	104			2330	2.8	85			0		0			0		0			2355	2.9	88			2346	2.7	82						
11 Su	0622	-1.3	-40		26 M	0629	-0.6	-18		11 W	0047	2.9	88		26 Th	0030	2.6	79		11 W	0617	-0.2	-6		26 Th	0555	0.3	9						
	1310	2.3	70			1256	2.2	67			0723	-0.5	-15			0658	-0.1	-3			1212	2.7	82			1146	2.8	85						
	1817	1.0	30			1825	0.9	27			1329	2.5	76			1258	2.6	79			1836	-0.2	-6			1819	-0.2	-6						
	2355	3.4	104			0		0			1939	0.0	0			1917	0.0	0			0					0								
12 M	0707	-1.2	-37		27 Tu	0003	2.8	85		12 Th	0136	2.7	82		27 F	0109	2.5	76		12 Th	0040	2.7	82		27 F	0025	2.6	79						
	1346	2.4	73			0701	-0.6	-18			0800	-0.1	-3			0726	0.1	3			0653	0.1	3			0626	0.5	15						
	1907	0.8	24			1324	2.3	70			1400	2.6	79			1317	2.6	79			1238	2.8	85			1205	2.9	88						
	0					1900	0.7	21			2026	-0.1	-3			1958	-0.1	-3			1918	-0.4	-12			1859	-0.4	-12						
13 Tu	0049	3.2	98		28 W	0035	2.7	82		13 F	0229	2.3	70		28 Sa	0153	2.3	70		13 F	0125	2.5	76		28 Sa	0109	2.5	76						
	0750	-0.9	-27			0730	-0.4	-12			0834	0.3	9			0753	0.4	12			0726	0.5	15			0656	0.7	21						
	1421	2.4	73			1352	2.4	73			1432	2.6	79			1336	2.7	82			1305	2.8	85			1225	3.0	91						
	1957	0.6	18			1937	0.6	18			2116	-0.1	-3																					

Naples, Florida, 2009

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 W	0102	1.4	43		16 Th	0547	2.8	85		1 Sa	0240	1.9	58		16 Su	0145	2.0	61		1 Tu	0400	1.5	46		16 W	0346	1.2	37					
	0707	2.8	85			1329	0.3	9			0835	2.9	88			0743	3.2	98			0959	3.1	94			0958	3.5	107					
	1419	0.2	6			2016	2.0	61			1546	0.1	3			1511	-0.2	-6			1641	0.3	9			1630	0.1	3		2250	2.8	85	
	2213	2.0	61													2234	2.3	70			2305	2.5	76										
2 Th	0201	1.6	49		17 F	0035	1.7	52		2 Su	0005	2.2	67		17 M	0256	1.8	55		2 W	0437	1.3	40		17 Th	0436	0.8	24					
	0759	2.9	88			0645	2.9	88			0334	1.8	55			0857	3.4	104			1037	3.2	98			1049	3.6	110					
	1515	0.0	0			1432	0.0	0			0928	3.0	91			1606	-0.4	-12			1715	0.3	9			1714	0.2	6					
	2329	2.1	64			2143	2.1	64			1631	0.0	0			2305	2.5	76			2325	2.6	79			2315	3.0	91					
3 F	0256	1.7	52		18 Sa	0154	1.8	55		3 M	0001	2.2	67		18 Tu	0354	1.5	46		3 Th	0512	1.1	34		18 F	0524	0.4	12					
	0850	3.0	91			0753	3.1	94			0419	1.7	52			0956	3.6	110			1112	3.3	101			1137	3.5	107					
	1605	-0.1	-3			1529	-0.4	-12			1011	3.1	94			1655	-0.5	-15			1746	0.3	9			1754	0.5	15					
						2244	2.2	67			1710	0.0	0			2333	2.6	79			2348	2.8	85			●	2342	3.2	98				
4 Sa	0013	2.1	64		19 Su	0301	1.8	55		4 Tu	0058	1.5	46		19 W	0447	1.2	37		4 F	0546	0.9	27		19 Sa	0609	0.1	3					
	0348	1.7	52			0857	3.3	101			1049	3.2	98			1049	3.7	113			1146	3.3	101			1223	3.4	104					
	0936	3.0	91			1623	-0.7	-21			1746	-0.1	-3			1740	-0.5	-15			1816	0.4	12			1833	0.8	24					
	1650	-0.2	-6			2329	2.3	70																									
5 Su	0031	2.1	64		20 M	0401	1.7	52		5 W	0011	2.4	73		20 Th	0002	2.7	82		5 Sa	0012	2.9	88		20 Su	0009	3.3	101					
	0433	1.7	52			0953	3.6	110			0534	1.4	43			0537	0.8	24			0621	0.7	21			0654	-0.1	-3					
	1017	3.1	94			1714	-0.9	-27			1124	3.2	98			1138	3.7	113			1220	3.2	98			1310	3.2	98					
	1730	-0.3	-9								1819	-0.1	-3			●	1823	-0.3	-9			1844	0.6	18			1909	1.1	34				
6 M	0031	2.1	64		21 Tu	0008	2.4	73		6 Th	0035	2.5	76		21 F	0031	2.8	85		6 Su	0033	3.0	91		21 M	0037	3.3	101					
	0514	1.6	49			0457	1.5	46			0608	1.2	37			0625	0.5	15			0656	0.5	15			0739	-0.1	-3					
	1055	3.2	98			1046	3.7	113			1157	3.2	98			1228	3.6	110			1256	3.1	94			1359	2.9	88					
	1808	-0.3	-9			●	1801	-0.9	-27			1850	0.0	0			1903	0.0	0			1912	0.8	24			1945	1.3	40				
7 Tu	0048	2.2	67		22 W	0044	2.5	76		7 F	0102	2.6	79		22 Sa	0101	3.0	91		7 M	0051	3.0	91		22 Tu	0108	3.3	101					
	0551	1.5	46			0549	1.2	37			0643	1.1	34			0713	0.3	9			0734	0.4	12			0825	0.0	0					
	1130	3.2	98			1137	3.7	113			1230	3.2	98			1318	3.3	101			1337	2.9	88			1453	2.6	79					
	1844	-0.3	-9			1847	-0.8	-24			1919	0.1	3			1941	0.4	12			1938	1.1	34			2018	1.6	49					
8 W	0114	2.3	70		23 Th	0119	2.6	79		8 Sa	0129	2.6	79		23 Su	0132	3.0	91		8 Tu	0108	3.1	94		23 W	0142	3.2	98					
	0627	1.5	46			0639	1.0	30			0718	0.9	27			0801	0.2	6			0816	0.3	9			0915	0.2	6					
	1204	3.2	98			1229	3.6	110			1305	3.0	91			1412	3.0	91			1427	2.7	82			1553	2.4	73					
	1918	-0.3	-9			1930	-0.6	-18			1947	0.3	9			2019	0.8	24			2003	1.3	40			2050	1.8	55					
9 Th	0146	2.3	70		24 F	0155	2.6	79		9 Su	0156	2.7	82		24 M	0206	3.1	94		9 W	0132	3.1	94		24 Th	0224	3.0	91					
	0702	1.4	43			0730	0.8	24			0756	0.8	24			0851	0.2	6			0906	0.3	9			1014	0.5	15					
	1238	3.1	94			1324	3.4	104			1343	2.9	88			1510	2.7	82			1531	2.5	76			1702	2.2	67					
	1951	-0.2	-6			2012	-0.2	-6			2014	0.6	18			2055	1.2	37			2028	1.6	49			2116	2.0	61					
10 F	0221	2.4	73		25 Sa	0231	2.7	82		10 M	0219	2.8	85		25 Tu	0244	3.0	91		10 Th	0205	3.1	94		25 F	0331	2.8	85					
	0738	1.3	40			0821	0.6	18			0838	0.7	21			0947	0.3	9			1007	0.3	9			1124	0.7	21					
	1314	3.0	91			1423	3.1	94			1429	2.6	79			1614	2.4	73			1654	2.3	70			2149	2.2	67					
	2023	0.0	0			2053	0.2	6			2040	0.9	27			2133	1.5	46			2053	1.8	55			●	2311	2.2	67				
11 Sa	0256	2.5	76		26 Su	0309	2.8	85		11 Tu	0240	2.8	85		26 W	0330	3.0	91		11 F	0251	3.1	94		26 Sa	0510	2.7	82					
	0818	1.2	37			0917	0.5	15			0928	0.6	18			1051	0.5	15			1121	0.3	9			1239	0.7	21					
	1354	2.8	85			1527	2.7	82			1529	2.4	73			1728	2.1	64			1831	2.2	67			2205	2.3	70					
	2054	0.2	6			2135	0.7	21			2105	1.2	37			2217	1.8	55			2127	2.0	61										
12 Su	0330	2.5	76		27 M	0348	2.8	85		12 W	0306	2.9	88		27 Th	0429	2.8	85		12 Sa	0400	3.0	91		27 Su	0058	2.1	64					
	0904	1.1	34			1019	0.5	15			1031	0.6	18			1206	0.6	18			1240	0.3	9			0639	2.7	82					
	1443	2.6	79			1635	2.3	70			1648	2.2	67			●					2021	2.2	67			1345	0.7	21					
	2125	0.5	15			2220	1.1	34			2130	1.5	46											2151		2.3	70						
13 M	0403	2.6	79		28 Tu	0432	2.8	85		13 Th	0343	2.9	88		28 F	0547	2.8	85		13 Su	0018	2.1	64		28 M	0206	1.9	58					
	1000	1.0	30			1130	0.5	15			1146	0.4	12			1320	0.6	18			0602	3.0	91			0753	2.8	85					
	1545	2.3	70			1753	2.1	64			1827	2.0	61			2247	2.2	67			1350	0.2	6			1438	0.7	21					
	2156	0.8	24			●	2313	1.5	46			●	2200	1.7		52								2126		2.4	73		2132	2.4	73		
14 Tu	0433	2.6	79		29 W	0523	2.8	85		14 F	0438	2.9	88		29 Sa	0119	2.0	61		14 M	0148	1.9	58										

Naples, Florida, 2009

Times and Heights of High and Low Waters

October				November				December																									
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height																				
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm																			
1 Th	0411	1.1	34		16 F	0424	0.3	9		1 Su	0458	0.0	0		16 M	0539	-0.5	-15		1 Tu	0521	-0.7	-21		16 W	0607	-0.6	-18					
	1020	3.1	94			1050	3.2	98			1126	2.9	88			1224	2.6	79			1208	2.6	79			1301	2.2	67					
	1635	0.8	24			1644	0.9	27			1700	1.4	43			1738	1.6	49			1708	1.6	49			1800	1.6	49		1800	1.6	49	
	2237	2.9	88			2231	3.3	101			2234	3.3	101			2256	3.4	104			2231	3.4	104			2231	3.4	104		2320	3.1	94	
2 F	0447	0.8	24		17 Sa	0509	0.0	0		2 M	0538	-0.3	-9		17 Tu	0621	-0.5	-15		2 W	0606	-0.9	-27		17 Th	0646	-0.6	-18					
	1058	3.2	98			1137	3.2	98			1208	2.9	88			1302	2.5	76			1256	2.6	79			1328	2.2	67					
	1708	0.8	24			1725	1.1	34			1735	1.5	46			1816	1.7	52			1751	1.6	49			1837	1.5	46		1837	1.5	46	
	2300	3.1	94			2258	3.4	104			2257	3.4	104			2328	3.3	101			2308	3.5	107			2356	3.0	91					
3 Sa	0522	0.5	15		18 Su	0553	-0.2	-6		3 Tu	0619	-0.5	-15		18 W	0701	-0.4	-12		3 Th	0652	-1.0	-30		18 F	0723	-0.5	-15					
	1135	3.2	98			1220	3.0	91			1254	2.8	85			1341	2.5	76			1345	2.5	76			1400	2.2	67					
	1738	1.0	30			1803	1.3	40			1810	1.6	49			1853	1.7	52			1837	1.6	49			1837	1.6	49		1914	1.4	43	
	2321	3.2	98			2326	3.4	104			2323	3.5	107			2328	3.3	101			2350	3.5	107			2350	3.5	107					
4 Su	0558	0.2	6		19 M	0636	-0.3	-9		4 W	0703	-0.6	-18		19 Th	0800	3.2	98		4 F	0739	-1.0	-30		19 Sa	0800	-0.4	-12					
	1212	3.1	94			1304	2.9	88			1345	2.7	82			1423	2.4	73			1437	2.5	76			1437	2.5	76					
	1808	1.1	34			1840	1.5	46			1847	1.7	52			1928	1.8	55			1925	1.5	46			1925	1.5	46		1951	1.4	43	
	2339	3.3	101			2354	3.4	104			2355	3.5	107			2355	3.5	107			2005	1.8	55			2019	1.5	46					
5 M	0636	0.0	0		20 Tu	0718	-0.3	-9		5 Th	0750	-0.6	-18		20 F	0824	-0.1	-3		5 Sa	0827	-0.8	-24		20 Su	0836	-0.2	-6					
	1253	3.0	91			1349	2.7	82			1444	2.6	79			1510	2.4	73			1527	2.5	76			1516	2.3	70					
	1838	1.3	40			1915	1.7	52			1927	1.8	55			2005	1.8	55			2019	1.5	46			2032	1.3	40					
	2357	3.4	104			2357	3.4	104			2357	3.4	104			2357	3.4	104			2357	3.4	104			2357	3.4	104					
6 Tu	0716	-0.1	-3		21 W	0802	-0.1	-3		6 F	0840	-0.4	-12		21 Sa	0907	0.1	3		6 Su	0917	-0.5	-15		21 M	0912	0.0	0					
	1339	2.9	88			1438	2.6	79			1547	2.5	76			1615	2.5	76			1615	2.5	76			1556	2.3	70					
	1907	1.5	46			1948	1.8	55			2015	1.9	58			2051	1.8	55			2123	1.4	43			2122	1.2	37					
	0021	3.4	104			0058	3.2	98			0124	3.3	101			0212	2.7	82			0258	2.8	85			0254	2.3	70					
7 W	0801	-0.1	-3		22 Th	0848	0.1	3		7 Sa	0936	-0.2	-6		22 Su	0955	0.3	9		7 M	1010	-0.1	-3		22 Tu	0948	0.3	9					
	1435	2.7	82			1533	2.4	73			1650	2.5	76			1648	2.3	70			1701	2.5	76			1635	2.4	73					
	1937	1.7	52			2021	1.9	58			2120	1.9	58			2156	1.8	55			2237	1.2	37			2225	1.1	34					
	0052	3.4	104			0138	3.0	91			0232	3.1	94			0334	2.5	76			0431	2.5	76			0406	2.1	64					
8 Th	0851	-0.1	-3		23 F	0939	0.4	12		8 Su	1038	0.0	0		23 M	1047	0.5	15		8 Tu	1108	0.3	9		23 W	1026	0.6	18					
	1544	2.5	76			1633	2.3	70			1750	2.5	76			1736	2.4	73			1746	2.6	79			1714	2.4	73					
	2010	1.9	58			2100	2.0	61			2249	1.8	55			2321	1.6	49			2357	0.9	27			2337	0.9	27					
	0132	3.3	101			0238	2.8	85			0427	2.8	85			0501	2.3	70			0602	2.3	70			0527	1.9	58					
9 F	0951	0.1	3		24 Sa	1039	0.6	18		9 M	1145	0.3	9		24 Tu	1143	0.8	24		9 W	1208	0.7	21		24 Th	1110	0.9	27					
	1702	2.4	73			1737	2.3	70			1844	2.5	76			1822	2.5	76			1831	2.7	82			1753	2.5	76					
	2053	2.0	61			2234	2.1	64			0018	1.5	46			0038	1.4	43			0110	0.5	15			0045	0.7	21					
	0227	3.2	98			0425	2.6	79			0613	2.7	82			0621	2.2	67			0737	2.2	67			0653	1.8	55					
10 Sa	1101	0.2	6		25 Su	1146	0.7	21		10 Tu	1249	0.5	15		25 W	1238	1.0	30		10 Th	1308	1.1	34		25 F	1204	1.2	37					
	1824	2.4	73			1839	2.3	70			1931	2.7	82			1906	2.6	79			1917	2.8	85			1833	2.5	76					
	2233	2.1	64			0018	1.5	46			0131	1.1	34			0137	1.1	34			0213	0.2	6			0145	0.3	9					
	0357	3.0	91			0555	2.6	79			0743	2.6	79			0738	2.2	67			0915	2.2	67			0821	1.8	55					
11 Su	1215	0.3	9		26 M	1250	0.8	24		11 W	1348	0.8	24		26 Th	1329	1.1	34		11 F	1406	1.3	40		26 Sa	1306	1.4	43					
	1939	2.4	73			1932	2.4	73			2012	2.8	85			1946	2.7	82			2003	2.9	88			1916	2.6	79					
	0027	2.0	61			0130	1.7	52			0230	0.7	21			0226	0.7	21			0308	-0.2	-6			0239	-0.1	-3					
	0615	2.9	88			0712	2.6	79			0902	2.7	82			0847	2.3	70			1036	2.2	67			0937	1.9	58					
12 M	1323	0.3	9		27 Tu	1345	0.9	27		12 Th	1441	1.0	30		27 F	1416	1.3	40		12 Sa	1500	1.5	46		27 Su	1407	1.6	49					
	2031	2.6	79			2014	2.6	79			2048	3.0	91			2023	2.8	85			2047	3.0	91			2002	2.8	85					
	0144	1.6	49			0221	1.4	43			0323	0.2	6			0310	0.3	9			0358	-0.4	-12			0329	-0.4	-12					
	0748	3.0	91			0818	2.6	79			1006	2.7	82			0945	2.4	73			1134	2.3	70			1036	2.1	64					
13 Tu	1422	0.4	12		28 W	1432	1.0	30		13 F	1529	1.2	37		28 Sa	1500	1.4	43		13 Su	1550	1.6	49		28 M	1504	1.6	49					
	2107	2.7	82			2049	2.7	82			2122	3.1	94			2056	3.0	91			2128	3.0	91			2050	3.0	91					
	0244	1.2	37			0303	1.1	34			0411	-0.1	-3			0354	-0.1	-3			0444	-0.5	-15			0418	-0.8	-24					
	0900	3.1	94			0914	2.7	82			1059	2.7	82			1036	2.5	76			1213	2.3	70			1124	2.2	67					
14 <																																	

St. Petersburg, Florida, 2009

Times and Heights of High and Low Waters

January				February				March																						
Time	Height			Time	Height			Time	Height			Time	Height																	
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm		h	m	ft	cm											
1 Th	0345	1.8	55		16 F	0525	1.3	40		1 Su	0548	1.1	34		16 M	0121	-0.1	-3		1 Su	0448	1.2	37		16 M	0631	1.0	30		
	1103	-0.2	-6			1130	0.2	6			1059	0.4	12			1749	1.9	58			0940	0.6	18			0914	0.9	27		
	1734	1.4	43			1754	1.7	52			1726	1.9	58		☉						1557	2.2	67			1610	2.2	67		
	2302	0.7	21																		2333	-0.3	-9							
2 F	0441	1.6	49		17 Sa	0052	0.2	6		2 M	0105	-0.1	-3		17 Tu	0244	-0.2	-6		2 M	0605	1.0	30		17 Tu	0036	-0.1	-3		
	1135	0.0	0			0649	1.0	30			0729	0.8	24			1842	1.9	58			0949	0.8	24			1651	2.1	64		
	1803	1.6	49			1153	0.5	15		☉	1112	0.7	21									1634	2.2	67						
						1827	1.8	55			1808	2.0	61																	
3 Sa	0016	0.5	15		18 Su	0213	0.0	0		3 Tu	0232	-0.3	-9		18 W	0404	-0.3	-9		3 Tu	0049	-0.3	-9		18 W	0153	-0.1	-3		
	0551	1.3	40			0855	0.8	24			1900	2.1	64			1956	1.8	55			1721	2.3	70			1745	2.0	61		
	1207	0.2	6			1210	0.7	21																						
	1835	1.7	52			1907	1.9	58																						
4 Su	0136	0.3	9		19 M	0332	-0.2	-6		4 W	0401	-0.5	-15		19 Th	0510	-0.4	-12		4 W	0221	-0.4	-12		19 Th	0315	-0.1	-3		
	0724	1.1	34			1953	1.9	58			2008	2.2	67			2125	1.8	55			1824	2.2	67			1908	1.9	58		
	1239	0.5	15																											
	1912	1.9	58																		☉									
5 M	0256	0.0	0		20 Tu	0441	-0.4	-12		5 Th	0516	-0.7	-21		20 F	0600	-0.4	-12		5 Th	0352	-0.5	-15		20 F	0422	-0.1	-3		
	0934	0.9	27			2049	1.9	58			2127	2.2	67			1410	1.2	37			1953	2.2	67			2056	1.8	55		
	1309	0.8	24													1615	1.1	34												
	1955	2.0	61													2239	1.9	58												
6 Tu	0412	-0.3	-9		21 W	0538	-0.5	-15		6 F	0616	-0.9	-27		21 Sa	0640	-0.5	-15		6 F	0504	-0.6	-18		21 Sa	0513	-0.2	-6		
	2045	2.2	67			2149	1.9	58			2244	2.3	70			1409	1.2	37			2135	2.2	67			1252	1.4	43		
																1725	1.0	30								1625	1.2	37		
																2335	1.9	58								2221	1.8	55		
7 W	0519	-0.6	-18		22 Th	0627	-0.6	-18		7 Sa	0706	-1.0	-30		22 Su	0712	-0.5	-15		7 Sa	0558	-0.6	-18		22 Su	0552	-0.1	-3		
	2141	2.3	70			2246	2.0	61			1450	1.1	34			1413	1.2	37			1338	1.3	40			1254	1.4	43		
											1712	1.0	30			1814	0.9	27			1635	1.1	34			1726	1.0	30		
											2352	2.4	73								2259	2.2	67			2322	1.9	58		
8 Th	0619	-0.9	-27		23 F	0708	-0.7	-21		8 Su	0748	-0.9	-27		23 M	0021	2.0	61		8 Su	0641	-0.6	-18		23 M	0624	-0.1	-3		
	2240	2.4	73			2336	2.0	61			1454	1.1	34			0739	-0.4	-12			1338	1.3	40			1259	1.5	46		
											1825	0.8	24			1417	1.3	40			1751	0.8	24			1811	0.7	21		
																1855	0.7	21												
9 F	0714	-1.0	-30		24 Sa	0743	-0.7	-21		9 M	0050	2.3	70		24 Tu	0101	2.0	61		9 M	0005	2.2	67		24 Tu	0013	1.9	58		
	2339	2.5	76			1518	1.1	34			0823	-0.8	-24			0802	-0.3	-9			0715	-0.4	-12			0650	0.1	3		
						1758	1.0	30		☉	1503	1.2	37			1421	1.4	43			1346	1.4	43			1305	1.6	49		
											1926	0.6	18		●	1935	0.5	15			1848	0.5	15			1850	0.4	12		
10 Sa	0803	-1.1	-34		25 Su	0019	2.1	64		10 Tu	0144	2.2	67		25 W	0140	1.9	58		10 Tu	0102	2.1	64		25 W	0058	1.8	55		
						0813	-0.7	-21			0854	-0.5	-15			0823	-0.1	-3			0744	-0.2	-6			0713	0.2	6		
						1524	1.1	34			1515	1.3	40			1429	1.5	46			1356	1.6	49			1313	1.8	55		
						1844	0.9	27			2022	0.4	12			2014	0.3	9		☉	1938	0.3	9			1928	0.2	6		
11 Su	0037	2.6	79		26 M	0059	2.1	64		11 W	0234	2.0	61		26 Th	0220	1.8	55		11 W	0152	1.9	58		26 Th	0142	1.8	55		
	0848	-1.1	-34			0840	-0.6	-18			0920	-0.3	-9			0843	0.0	0			0807	0.1	3			0733	0.4	12		
	1613	1.1	34			1528	1.1	34			1530	1.5	46			1442	1.7	52			1409	1.8	55			1326	2.0	61		
	1854	0.9	27			1928	0.8	24			2116	0.2	6			2055	0.1	3			2024	0.0	0			2006	-0.1	-3		
12 M	0133	2.5	76		27 Tu	0137	2.0	61		12 Th	0324	1.7	52		27 F	0303	1.7	52		12 Th	0240	1.7	52		27 F	0227	1.7	52		
	0928	-0.9	-27			0903	-0.5	-15			0942	0.0	0			0903	0.2	6			0827	0.3	9			0753	0.6	18		
	1627	1.1	34			1534	1.2	37			1548	1.7	52			1501	1.9	58			1425	2.0	61			1345	2.1	64		
	2002	0.8	24			2013	0.6	18			2210	0.0	0			2141	-0.1	-3			2108	-0.1	-3			2047	-0.3	-9		
13 Tu	0227	2.3	70		28 W	0217	1.9	58		13 F	0416	1.4	43		28 Sa	0351	1.5	46		13 F	0327	1.5	46		28 Sa	0315	1.6	49		
	1004	-0.7	-21			0927	-0.4	-12			1002	0.3	9			0922	0.4	12			0844	0.5	15			0811	0.8	24		
	1644	1.2	37			1545	1.3	40			1611	1.8	55			1526	2.0	61			1445	2.1	64			1410	2.3	70		
	2110	0.6	18			2100	0.5	15			2307	-0.1	-3			2232	-0.2	-6			2152	-0.2	-6			2133	-0.4	-12		

St. Petersburg, Florida, 2009

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 W	0046	-0.4	-12		16 Th	0108	0.0	0		1 F	0149	-0.3	-9		16 Sa	0115	0.1	3		1 M	0238	0.5	15		16 Tu	0130	0.6	18	
	1655	2.4	73			1711	2.1	64			1818	2.2	67			0858	1.5	46			0922	1.9	58			0804	2.0	61	
																1217	1.4	43			1555	0.7	21			1452	0.7	21	
																1802	1.9	58			2154	1.5	46			2035	1.5	46	
2 Th	0212	-0.3	-9		17 F	0215	0.0	0		2 Sa	0251	-0.1	-3		17 Su	0203	0.2	6		2 Tu	0315	0.8	24		17 W	0206	0.8	24	
	1811	2.3	70			1831	1.9	58			1039	1.5	46			0918	1.6	49			0950	2.1	64			0837	2.2	67	
											1416	1.3	40			1411	1.2	37			1703	0.3	9			1603	0.4	12	
											2009	2.0	61			1932	1.7	52			2328	1.4	43			2222	1.4	43	
3 F	0331	-0.3	-9		18 Sa	0316	0.1	3		3 Su	0342	0.1	3		18 M	0247	0.4	12		3 W	0347	1.0	30		18 Th	0242	1.0	30	
	2000	2.1	64			1119	1.5	46			1046	1.7	52			0938	1.8	55			1019	2.3	70			0913	2.3	70	
						2015	1.8	55			2153	1.8	55			2108	1.6	49			1757	0.0	0			1706	0.1	3	
4 Sa	0433	-0.3	-9		19 Su	0405	0.1	3		4 M	0424	0.3	9		19 Tu	0327	0.5	15		4 Th	0049	1.4	43		19 F	0006	1.4	43	
	1218	1.4	43			1120	1.6	49			1102	1.9	58			0959	1.9	58			0417	1.2	37			0915	1.2	37	
	1541	1.2	37			1609	1.1	34			1712	0.6	18			1637	0.6	18			1048	2.5	76			0953	2.5	76	
	2147	2.0	61			2147	1.7	52			2317	1.7	52			2236	1.5	46			1844	-0.2	-6			1804	-0.2	-6	
5 Su	0520	-0.2	-6		20 M	0446	0.2	6		5 Tu	0459	0.6	18		20 W	0404	0.8	24		5 F	0159	1.4	43		20 Sa	0142	1.4	43	
	1218	1.5	46			1129	1.7	52			1120	2.1	64			1022	2.1	64			0442	1.3	40			0344	1.3	40	
	1706	0.9	27			1707	0.8	24			1806	0.2	6			1729	0.3	9			1119	2.6	79			1037	2.7	82	
	2310	2.0	61			2300	1.7	52							2354	1.5	46			1925	-0.3	-9			1859	-0.4	-12		
6 M	0558	0.0	0		21 Tu	0520	0.4	12		6 W	0027	1.6	49		21 Th	0437	1.0	30		6 Sa	0301	1.4	43		21 Su	1125	2.9	88	
	1228	1.7	52			1140	1.8	55			0527	0.8	24			1047	2.3	70			0504	1.3	40			1952	-0.6	-18	
	1806	0.6	18			1754	0.5	15			1140	2.3	70			1817	0.0	0			1150	2.6	79						
											1851	0.0	0								2004	-0.3	-9						
7 Tu	0015	1.9	58		22 W	0001	1.7	52		7 Th	0128	1.5	46		22 F	0104	1.5	46		7 Su	1223	2.7	82		22 M	1216	3.0	91	
	0628	0.2	6			0548	0.6	18			0550	1.0	30			0505	1.1	34			2041	-0.3	-9			2043	-0.7	-21	
	1240	1.9	58			1153	2.0	61			1201	2.4	73			1116	2.5	76											
	1855	0.2	6			1835	0.2	6			1932	-0.2	-6			1904	-0.3	-9											
8 W	0112	1.8	55		23 Th	0056	1.7	52		8 F	0223	1.5	46		23 Sa	0212	1.5	46		8 M	1258	2.7	82		23 Tu	1309	3.1	94	
	0652	0.5	15			0614	0.7	21			0610	1.1	34			0530	1.3	40			2117	-0.3	-9			2132	-0.6	-18	
	1255	2.1	64			1210	2.2	67			1223	2.5	76			1149	2.7	82											
	1938	0.0	0			1915	-0.1	-3			2010	-0.3	-9			1952	-0.5	-15											
9 Th	0203	1.7	52		24 F	0149	1.6	49		9 Sa	0313	1.4	43		24 Su	0321	1.4	43		9 Tu	1335	2.7	82		24 W	1404	3.0	91	
	0712	0.7	21			0636	0.9	27			0627	1.2	37			0550	1.3	40			2152	-0.3	-9			2219	-0.5	-15	
	1311	2.2	67			1231	2.4	73			1248	2.6	79			1228	2.9	88											
	2018	-0.2	-6			1957	-0.3	-9			2047	-0.4	-12			2043	-0.6	-18											
10 F	0250	1.5	46		25 Sa	0243	1.6	49		10 Su	0402	1.4	43		25 M	1311	3.0	91		10 W	1416	2.6	79		25 Th	0546	1.4	43	
	0729	0.9	27			0656	1.1	34			0643	1.2	37			2136	-0.7	-21			2228	-0.2	-6			0805	1.3	40	
	1331	2.4	73			1259	2.6	79			1317	2.6	79																
	2056	-0.3	-9			2042	-0.5	-15			2124	-0.4	-12																
11 Sa	0336	1.4	43		26 Su	0342	1.4	43		11 M	0451	1.3	40		26 Tu	1359	3.0	91		11 Th	0551	1.4	43		26 F	0605	1.4	43	
	0744	1.0	30			0713	1.2	37			0659	1.2	37			2231	-0.6	-18			0814	1.3	40			0931	1.2	37	
	1354	2.5	76			1331	2.7	82			1349	2.6	79								1459	2.5	76			1601	2.5	76	
	2135	-0.3	-9			2132	-0.6	-18			2204	-0.3	-9								2304	-0.1	-3			2342	0.0	0	
12 Su	0425	1.3	40		27 M	0453	1.3	40		12 Tu	1426	2.6	79		27 W	1452	2.9	88		12 F	0612	1.4	43		27 Sa	0627	1.6	49	
	0759	1.0	30			0723	1.2	37			2248	-0.2	-6			2326	-0.5	-15			0923	1.3	40			1102	1.1	34	
	1421	2.5	76			1410	2.8	85													1546	2.3	70			1708	2.2	67	
	2218	-0.3	-9			2229	-0.6	-18													2340	0.0	0						
13 M	0522	1.2	37		28 Tu	1454	2.8	85		13 W	1508	2.5	76		28 Th	1551	2.7	82		13 Sa	0637	1.5	46		28 Su	0018	0.3	9	
	0810	1.1	34			2332	-0.5	-15			2335	-0.1	-3								1042	1.3	40			0654	1.8	55	
	1453	2.5	76																		1638	2.1	64			1235	0.9	27	
	2306	-0.2	-6																							1826	1.8	55	
14 Tu	1530	2.4	73		29 W	1547	2.7	82																					

St. Petersburg, Florida, 2009

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 W	0154	1.1	34		16 Th	0046	1.1	34		1 Sa	0943	2.5	76		16 Su	0902	2.8	85		1 Tu	0129	1.8	55		16 W	0054	1.8	55	
	0841	2.3	70			0728	2.4	73			1815	0.1	3			1747	-0.1	-3			0514	1.5	46			0518	1.3	40	
	1643	0.2	6			1534	0.3	9													1135	2.5	76			1144	2.8	85	
	2358	1.3	40			2243	1.3	40													1858	0.3	9			1849	0.3	9	
2 Th	0222	1.2	37		17 F	0108	1.2	37		2 Su	1045	2.5	76		17 M	1022	2.9	88		2 W	0139	1.8	55		17 Th	0106	1.9	58	
	0924	2.4	73			0819	2.5	76			1859	0.0	0			1841	-0.2	-6			0601	1.3	40			0617	1.0	30	
	1742	0.0	0			1649	0.1	3													1220	2.6	79			1243	2.7	82	
3 F	1008	2.5	76		18 Sa	0917	2.7	82		3 M	0243	1.6	49		18 Tu	0213	1.6	49		3 Th	0146	1.8	55		18 F	0119	2.1	64	
	1833	-0.1	-3			1756	-0.2	-6			0449	1.5	46			0437	1.5	46			0641	1.1	34			0709	0.7	21	
4 Sa	1053	2.6	79		19 Su	1019	2.8	85		4 Tu	0253	1.6	49		19 W	0220	1.6	49		4 F	0151	1.9	58		19 Sa	0135	2.3	70	
	1917	-0.2	-6			1855	-0.4	-12			0545	1.5	46			0553	1.3	40			0718	1.0	30			0757	0.4	12	
5 Su	1136	2.6	79		20 M	1122	3.0	91		5 W	0301	1.6	49		20 Th	0231	1.7	52		5 Sa	0159	2.1	64		20 Su	0153	2.5	76	
	1956	-0.2	-6			1946	-0.5	-15			1301	2.6	79			0656	1.1	34			0755	0.8	24			0843	0.3	9	
6 M	1217	2.6	79		21 Tu	1222	3.1	94		6 Th	0306	1.6	49		21 F	0244	1.8	55		6 Su	0213	2.2	67		21 M	0215	2.6	79	
	2031	-0.2	-6			2032	-0.5	-15			0715	1.2	37			0754	0.9	27			0834	0.6	18			0930	0.2	6	
7 Tu	1257	2.7	82		22 W	0350	1.5	46		7 F	0312	1.7	52		22 Sa	0300	2.0	61		7 M	0232	2.4	73		22 Tu	0242	2.7	82	
	2102	-0.2	-6			0623	1.3	40			0758	1.1	34			0849	0.7	21			0915	0.5	15			1018	0.2	6	
8 W	0420	1.4	43		23 Th	0402	1.5	46		8 Sa	0322	1.8	55		23 Su	0320	2.2	67		8 Tu	0257	2.6	79		23 W	0312	2.7	82	
	0652	1.3	40			0734	1.2	37			0842	0.9	27			0944	0.5	15			1002	0.4	12			1111	0.3	9	
9 Th	1335	2.6	79		24 F	1414	2.9	88		9 Su	1453	2.4	73		24 M	1608	2.2	67		9 W	1629	2.0	61		24 Th	1830	1.6	49	
	2131	-0.1	-3			2149	-0.1	-3			2138	0.5	15			2151	1.0	30			2125	1.3	40			2109	1.5	46	
10 F	0426	1.5	46		25 Sa	0418	1.6	49		10 M	0338	2.0	61		25 Tu	0344	2.4	73		10 Th	0328	2.7	82		25 F	0349	2.7	82	
	0744	1.3	40			0841	1.0	30			0928	0.8	24			1041	0.5	15			1057	0.3	9			1214	0.4	12	
11 Sa	1414	2.6	79		26 Su	1509	2.7	82		11 Tu	1536	2.3	70		26 W	1707	1.9	58		11 F	1734	1.7	52		26 Sa	1450	0.5	15	
	2158	0.0	0			2222	0.1	3			2201	0.7	21			2211	1.2	37			2142	1.4	43			1505	0.3	9	
12 Su	0436	1.5	46		27 M	0436	1.8	55		12 W	0400	2.2	67		27 Th	0413	2.5	76		12 Sa	0557	2.7	82		27 Su	0714	2.3	70	
	0838	1.2	37			0949	0.9	27			1019	0.7	21			1142	0.4	12			1505	0.3	9			1558	0.5	15	
13 M	1455	2.5	76		28 Tu	1606	2.4	73		13 Th	1624	2.1	64		28 F	1821	1.7	52		13 Su	0725	2.7	82		28 M	0257	1.7	52	
	2225	0.1	3			2251	0.4	12			2224	0.8	24			2227	1.4	43			2143	1.5	46			0903	2.3	70	
14 Tu	0451	1.7	52		29 W	0500	1.9	58		14 F	0427	2.3	70		29 Sa	0449	2.5	76		14 M	0907	2.7	82		29 Tu	0002	1.9	58	
	0935	1.1	34			1059	0.8	24			1115	0.6	18			2021	1.5	46			1724	0.1	3			0420	1.5	46	
15 W	1540	2.3	70		30 Th	1708	2.0	61		15 Sa	1722	1.8	55		30 Su	2021	1.5	46		15 Tu	1034	2.7	82		30 W	1122	2.3	70	
	2252	0.2	6			2317	0.7	21			2248	1.0	30			2229	1.4	43			1811	0.2	6			1803	0.6	18	
16 Th	0512	1.8	55		31 F	0528	2.1	64		16 Su	0501	2.4	73		31 M	0532	2.5	76		16 W	0048	1.8	55		31 Th	0012	1.9	58	
	1036	1.0	30			1213	0.6	18			1223	0.5	15			1414	0.5	15			0401	1.6	49			0513	1.3	40	
17 F	1629	2.1	64		17 Sa	1822	1.7	52		17 M	1839	1.6	49		17 Tu	0631	2.5	76		17 W	1034	2.7	82		17 Th	1122	2.3	70	
	2320	0.4	12			2341	1.0	30			2308	1.2	37			1414	0.5	15			1811	0.2	6			1803	0.6	18	
18 Sa	0539	2.0	61		18 Su	0602	2.3	70		18 M	0542	2.5	76		18 Tu	0631	2.5	76		18 W	0048	1.8	55		18 Th	0012	1.9	58	
	1141	0.9	27			1333	0.5	15			1345	0.4	12			1538	0.4	12			0401	1.6	49			0513	1.3	40	
19 Su	1727	1.9	58		19 M	2004	1.4	43		19 Tu	2049	1.4	43		19 W	0755	2.4	73		19 Th	1034	2.7	82		19 F	1122	2.3	70	
	2349	0.6	18			2314	1.3	40			2314	1.3	40			1648	0.4	12			1811	0.2	6			1803	0.6	18	
20 M	0610	2.1	64		20 Th	0002	1.2	37		20 F	0634	2.6	79		20 Sa	0755	2.4	73		20 Su	0048	1.8	55		20 M	0012	1.9	58	
	1254	0.7	21			0644	2.4	73			1516	0.3	9			1648	0.4	12			0401	1.6	49			0513	1.3	40	
21 Tu	1840	1.6	49		21 W	1457	0.4	12		21 Th	0741	2.7	82		21 F	0928	2.4	73		21 Sa	0048	1.8	55		21 Su	0012	1.9	58	
						1457	0.4	12			1516	0.3	9			1648	0.4	12			1034	2.7	82			1803	0.6	18	
22 W					22 Th	0735	2.4	73		22 F	0741	2.7	82		22 Sa	0928	2.4	73		22 Su	0048	1.8	55		22 M	0012	1.9	58	
						1615	0.3	9			1640	0.1	3			1742	0.3	9			1034	2.7	82			1803	0.6	18	
23 Th					23 F	0836	2.4	73		23 Sa	0741	2.7	82		23 Su	0928	2.4	73		23 M	0048	1.8	55		2				

St. Petersburg, Florida, 2009

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 Th	0022	2.0	61		16 F	0000	2.2	67		1 Su	0655	0.0	0		16 M	0749	-0.4	-12		1 Tu	0728	-0.6	-18		16 W	0004	2.4	73	
	0556	1.0	30			0625	0.5	15			1343	1.9	58			1511	1.6	49			1508	1.4	43			0822	-0.7	-21	
	1211	2.3	70			1256	2.2	67			1812	1.3	40			1808	1.4	43			1730	1.3	40			●			
	1830	0.8	24			1827	1.0	30			●					●					2359	2.7	82			●			
2 F	0031	2.1	64		17 Sa	0018	2.4	73		2 M	0000	2.6	79		17 Tu	0022	2.7	82		2 W	0816	-0.7	-21		17 Th	0041	2.4	73	
	0634	0.8	24			0711	0.2	6			0734	-0.2	-6			0827	-0.4	-12			0857	-0.6	-18						
	1255	2.3	70			1351	2.1	64			1433	1.8	55			1601	1.5	46			●								
	1853	0.9	27			1850	1.2	37			○					1827	1.4	43			○								
3 Sa	0041	2.2	67		18 Su	0037	2.6	79		3 Tu	0028	2.7	82		18 W	0053	2.7	82		3 Th	0042	2.8	85		18 F	0120	2.3	70	
	0709	0.5	15			0753	0.0	0			0816	-0.3	-9			0905	-0.4	-12			0905	-0.8	-24			0931	-0.6	-18	
	1337	2.2	67			1443	2.0	61			1526	1.7	52			0905	-0.4	-12			1701	1.2	37						
	1913	1.1	34			●	1909	1.4	43			1850	1.5	46			●					1931	1.1	34					
4 Su	0054	2.4	73		19 M	0100	2.7	82		4 W	0100	2.9	88		19 Th	0128	2.6	79		4 F	0130	2.8	85		19 Sa	0200	2.3	70	
	0745	0.3	9			0834	-0.1	-3			0903	-0.4	-12			0945	-0.3	-9			0956	-0.7	-21			1004	-0.5	-15	
	1418	2.2	67			1533	1.8	55			1629	1.6	49			●					1717	1.2	37						
	1932	1.2	37			1926	1.5	46			1904	1.5	46			○					2028	1.1	34						
5 M	0113	2.6	79		20 Tu	0126	2.8	85		5 Th	0139	2.9	88		20 F	0206	2.6	79		5 Sa	0222	2.7	82		20 Su	0243	2.1	64	
	0823	0.2	6			0915	-0.1	-3			0955	-0.4	-12			1027	-0.2	-6			1048	-0.6	-18			1037	-0.4	-12	
	1502	2.0	61			1625	1.7	52			●					●					1736	1.3	40						
	1950	1.4	43			1941	1.5	46			○					○					2132	1.0	30						
6 Tu	0138	2.7	82		21 W	0155	2.8	85		6 F	0223	2.9	88		21 Sa	0248	2.4	73		6 Su	0321	2.5	76		21 M	0330	2.0	61	
	0905	0.1	3			0959	0.0	0			1054	-0.3	-9			1112	-0.1	-3			1139	-0.4	-12			1110	-0.2	-6	
	1552	1.9	58			1726	1.6	49			●					1914	1.3	40			1914	1.3	40			1759	1.4	43	
	2007	1.5	46			1955	1.5	46			○					2203	1.2	37			2243	0.9	27						
7 W	0208	2.8	85		22 Th	0229	2.8	85		7 Sa	0315	2.8	85		22 Su	0337	2.2	67		7 M	0428	2.2	67		22 Tu	0422	1.7	52	
	0954	0.0	0			1047	0.1	3			1159	-0.2	-6			1159	0.0	0			1229	-0.2	-6			1144	0.0	0	
	1653	1.7	52			●					●					1943	1.5	46			1938	1.4	43			1825	1.5	46	
	2021	1.5	46			○					○					2239	1.4	43			○								
8 Th	0245	2.9	88		23 F	0308	2.6	79		8 Su	0419	2.6	79		23 M	0437	2.0	61		8 Tu	0002	1.1	34		23 W	0000	0.8	24	
	1052	0.0	0			1142	0.2	6			1306	-0.1	-3			1247	0.1	3			0553	1.8	55			0526	1.5	46	
	●					●					●					2010	1.5	46			1315	0.1	3			1217	0.2	6	
	○					○					○					●	2005	1.6	49			1854	1.6	49					
9 F	0329	2.9	88		24 Sa	0356	2.5	76		9 M	0544	2.3	70		24 Tu	0031	1.3	40		9 W	0153	0.8	24		24 Th	0120	0.6	18	
	1203	0.1	3			1245	0.3	9			1409	0.1	3			0553	1.8	55			0740	1.5	46			0646	1.2	37	
	○					○					2143	1.6	49			1333	0.3	9			1358	0.4	12			1251	0.4	12	
	○					○					○					2036	1.7	52			2035	1.8	55			1925	1.7	52	
10 Sa	0425	2.8	85		25 Su	0459	2.3	70		10 Tu	0145	1.4	43		25 W	0211	1.1	34		10 Th	0324	0.4	12		25 F	0237	0.3	9	
	1325	0.2	6			1350	0.4	12			0736	2.0	61			0730	1.6	49			0937	1.3	40			0830	1.0	30	
	○					2217	1.7	52			1503	0.3	9			1417	0.5	15			1438	0.7	21			1326	0.6	18	
	○					○					2158	1.8	55			2101	1.8	55			2107	2.0	61			2000	1.9	58	
11 Su	0540	2.6	79		26 M	0042	1.6	49		11 W	0330	1.0	30		26 Th	0326	0.8	24		11 F	0435	0.0	0		26 Sa	0346	0.0	0	
	1446	0.2	6			0631	2.1	64			0927	1.9	58			0911	1.5	46			1121	1.3	40			1030	1.0	30	
	○					1450	0.4	12			1549	0.6	18			1459	0.7	21			1514	0.9	27			1400	0.8	24	
	○					2223	1.8	55			2218	2.0	61			2125	1.9	58			2140	2.2	67			2038	2.0	61	
12 M	0728	2.5	76		27 Tu	0248	1.5	46		12 Th	0441	0.6	18		27 F	0425	0.4	12		12 Sa	0532	-0.3	-9		27 Su	0448	-0.3	-9	
	1552	0.3	9			0821	2.0	61			1057	1.8	55			1040	1.4	43			1248	1.3	40			1223	1.0	30	
	2323	1.8	55			1540	0.5	15			1627	0.8	24			1536	0.9	27			1548	1.1	34			1434	0.9	27	
	○					2237	1.9	58			2240	2.2	67			2150	2.1	64			2215	2.3	70			2121	2.2	67	
13 Tu	0309	1.6	49		28 W	0403	1.2	37		13 F	0537	0.2	6		28 Sa	0514	0.1	3		13 Su	0622	-0.5	-15		28 M	0544	-0.5	-15	
	0919	2.4	73			0951	1.9	58			1212	1.7	52			1156	1.4	43			1401	1.3	40			2207	2.3	70	
	1644	0.4	12			1621	0.7	21			1659	1.0	30			1610	1.0	30			1619	1.2	37			○			
	2330	1.9	58			2251	2.0	61			2303	2.4	73			2216	2.2	67			2251	2.4	73			○			
14 W	0433	1.2	37		29 Th	0455	0.9	27		14 Sa	0625	-0.1	-3		29 Su	0559	-0.2	-6		14 M	0705	-0.6	-18		29 Tu	0636	-0.8	-24	
	1045	2.4	73			1101	1.9	58			1318	1.7	52			1303	1.4	43			2327	2.4	73			2258	2.4	73	
	1726	0.5	15			1656	0.8	24			1726	1.2	37			1640	1.2	37			○					○			
	2344	2.0	61			2305	2.1	64			2328	2.5	76			2246	2.4	73			○					○			
15 Th	0534	0.8	24		30 F	0539	0.6	18		15 Su	0708	-0.3	-9		30 M	0643	-0.4	-12		15 Tu	0745	-0.7	-21		30 W	0726	-0.9	-27	
	1155	2.3	70			1200	1.9	58			1417	1.6	49			1406	1.4	43			0745	-0.7	-21			2350	2.6	79	
	1759	0.8	24			1725	1.0	30			1748	1.3	40			1707	1.3	40			○					○			
	○					2321	2.3	70			2354	2.6	79			2320	2.6	79			○					○			
				31 Sa	0617	0.3	9																						
					1253	1.9	58																						

Cedar Key, Florida, 2009

Times and Heights of High and Low Waters

January				February				March																		
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height													
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm												
1 Th	0351	3.3	101	16 F	0510	3.0	91	1 Su	0523	2.7	82	16 M	0017	0.1	3	1 Su	0423	2.9	88	16 M	0511	2.5	76			
	1034	-0.1	-3		1118	0.4	12		1107	0.7	21		0639	2.1	64		1004	0.7	21		1021	1.2	37			
	1658	3.2	98		1727	3.4	104		1712	3.6	110		1129	1.3	40		1556	3.8	116		1616	3.7	113	1616	3.7	113
	2302	0.8	24		1802	3.4	104		1755	3.5	107		1742	3.4	104		2302	-0.3	-9		2335	0.0	0	2335	0.0	0
2 F	0440	3.1	94	17 Sa	0007	0.3	9	2 M	0020	0.0	0	17 Tu	0123	0.2	6	2 M	0516	2.6	79	17 Tu	0606	2.2	67			
	1108	0.1	3		0609	2.5	76		0634	2.3	70		0808	1.9	58		1036	1.0	30		1051	1.4	43			
	1729	3.2	98		1151	0.8	24		1146	1.1	34		1207	1.6	49		1632	3.8	116		1632	3.8	116	1655	3.5	107
	2353	0.6	18		1802	3.4	104		1755	3.5	107		1835	3.2	98		2358	-0.2	-6		2358	-0.2	-6	2358	-0.2	-6
3 Sa	0539	2.8	85	18 Su	0107	0.2	6	3 Tu	0132	0.0	0	18 W	0252	0.3	9	3 Tu	0628	2.3	70	18 W	0032	0.3	9			
	1147	0.5	15		0722	2.2	67		0813	2.1	64		1019	1.9	58		1112	1.4	43		0724	2.0	61			
	1806	3.3	101		1227	1.2	37		1237	1.5	46		1323	1.8	55		1718	3.7	113		1131	1.6	49			
					1844	3.3	101		1853	3.5	107		1950	3.1	94		1950	3.1	94		1747	3.2	98	1747	3.2	98
4 Su	0054	0.4	12	19 M	0219	0.2	6	4 W	0301	-0.2	-6	19 Th	0425	0.2	6	4 W	0113	-0.1	-3	19 Th	0152	0.5	15			
	0655	2.5	76		0856	2.0	61		1017	2.1	64		1145	2.1	64		0813	2.0	61		0916	2.0	61			
	1234	0.9	27		1316	1.5	46		1405	1.8	55		1518	1.8	55		1206	1.7	52		1251	1.8	55			
	1850	3.4	104		1937	3.3	101		2011	3.4	104		2118	3.1	94		1822	3.5	107		1906	3.0	91	1906	3.0	91
5 M	0205	0.2	6	20 Tu	0342	0.1	3	5 Th	0429	-0.5	-15	20 F	0529	0.0	0	5 Th	0247	-0.1	-3	20 F	0328	0.5	15			
	0830	2.3	70		1045	2.1	64		1153	2.4	73		1223	2.4	73		1028	2.2	67		1044	2.2	67			
	1333	1.3	40		1429	1.8	55		1551	1.9	58		1647	1.6	49		1355	1.9	58		1449	1.8	55			
	1944	3.4	104		2041	3.2	98		2138	3.5	107		2233	3.2	98		1958	3.3	101		2046	2.9	88	2046	2.9	88
6 Tu	0324	-0.1	-3	21 W	0456	-0.1	-3	6 F	0538	-0.8	-24	21 Sa	0612	-0.2	-6	6 F	0418	-0.3	-9	21 Sa	0440	0.3	9			
	1011	2.3	70		1203	2.2	67		1244	2.6	79		1250	2.6	79		1137	2.4	73		1127	2.5	76			
	1449	1.6	49		1555	1.8	55		1713	1.7	52		1747	1.3	40		1550	1.8	55		1621	1.5	46			
	2047	3.5	107		2148	3.3	101		2254	3.7	113		2331	3.3	101		2138	3.4	104		2209	3.1	94	2209	3.1	94
7 W	0439	-0.5	-15	22 Th	0552	-0.3	-9	7 Sa	0633	-1.0	-30	22 Su	0647	-0.3	-9	7 Sa	0524	-0.5	-15	22 Su	0528	0.2	6			
	1140	2.5	76		1248	2.4	73		1321	2.9	88		1315	2.8	85		1214	2.7	82		1157	2.7	82			
	1609	1.8	55		1707	1.7	52		1815	1.3	40		1833	1.0	30		1710	1.4	43		1723	1.2	37			
	2153	3.7	113		2250	3.3	101		2358	3.9	119						2258	3.6	110		2312	3.2	98	2312	3.2	98
8 Th	0544	-0.9	-27	23 F	0636	-0.4	-12	8 Su	0718	-1.1	-34	23 M	0018	3.5	107	8 Su	0614	-0.6	-18	23 M	0604	0.1	3			
	1246	2.7	82		1322	2.6	79		1352	3.0	91		0716	-0.4	-12		1244	3.0	91		1222	3.0	91			
	1720	1.8	55		1803	1.5	46		1907	0.9	27		1337	3.0	91		1808	0.9	27		1809	0.7	21			
	2257	3.9	119		2342	3.5	107						1913	0.7	21						1849	0.3	9	1849	0.3	9
9 F	0641	-1.2	-37	24 Sa	0713	-0.5	-15	9 M	0054	4.0	122	24 Tu	0100	3.5	107	9 M	0001	3.7	113	24 Tu	0003	3.4	104			
	1337	2.9	88		1351	2.7	82		0759	-1.1	-34		0744	-0.3	-9		0655	-0.6	-18		0636	0.1	3			
	1820	1.6	49		1849	1.3	40		1421	3.2	98		1359	3.2	98		1311	3.2	98		1245	3.2	98			
	2356	4.0	122						1953	0.5	15		1949	0.4	12		1856	0.4	12		1849	0.3	9	1849	0.3	9
10 Sa	0731	-1.3	-40	25 Su	0028	3.5	107	10 Tu	0145	4.0	122	25 W	0139	3.5	107	10 Tu	0053	3.8	116	25 W	0047	3.5	107			
	1419	3.0	91		0744	-0.6	-18		0835	-0.8	-24		0811	-0.3	-9		0731	-0.5	-15		0707	0.2	6			
	1914	1.4	43		1417	2.9	88		1447	3.3	101		1419	3.3	101		1336	3.4	104		1308	3.4	104			
					1929	1.1	34		2037	0.2	6		2025	0.2	6		1939	0.0	0		1926	0.0	0	1926	0.0	0
11 Su	0052	4.1	125	26 M	0109	3.6	110	11 W	0232	3.8	116	26 Th	0217	3.5	107	11 W	0140	3.8	116	26 Th	0129	3.5	107			
	0817	-1.3	-40		0813	-0.6	-18		0908	-0.5	-15		0838	-0.1	-3		0804	-0.2	-6		0737	0.3	9			
	1455	3.1	94		1441	3.0	91		1512	3.4	104		1440	3.5	107		1401	3.6	110		1331	3.6	110			
	2003	1.1	34		2007	0.9	27		2119	0.0	0		2100	-0.1	-3		2019	-0.3	-9		2002	-0.3	-9	2002	-0.3	-9
12 M	0145	4.1	125	27 Tu	0147	3.6	110	12 Th	0317	3.6	110	27 F	0256	3.4	104	12 Th	0224	3.6	110	27 F	0210	3.5	107			
	0859	-1.2	-37		0840	-0.5	-15		0938	-0.1	-3		0905	0.1	3		0834	0.1	3		0807	0.5	15			
	1528	3.1	94		1503	3.1	94		1538	3.5	107		1502	3.6	110		1425	3.7	113		1354	3.8	116			
	2051	0.8	24		2044	0.7	21		2201	-0.1	-3		2136	-0.2	-6		2057	-0.4	-12		2039	-0.5	-15	2039	-0.5	-15
13 Tu	0236	4.0	122	28 W	0224	3.5	107	13 F	0402	3.2	98	28 Sa	0337	3.2	98	13 F	0305	3.4	104	28 Sa	0252	3.4	104			
	0938	-0.9	-27		0907	-0.4	-12		1006	0.2	6		0934	0.4	12		0902	0.4	12		0837	0.7	21			
	1558	3.2	98		1524	3.2	98		1604	3.6	110		1527	3.7	113		1450	3.8	116		1421	3.9	119			
	2138	0.6	18		2120	0.5	15		2242	-0.2	-6		2216	-0.3	-9		2134	-0.5	-15		2118	-0.6	-18	2118	-0.6	-18
14 W	0327	3.7	113	29 Th	0303	3.4	104	14 Sa	0447	2.9	88	14 Sa	0345	3.1	94	14 Sa	0335	3.2	98	29 Su	0335	3.2	98			
	1013	-0.5	-15		0934	-0.3	-9		1033	0.6	18		0928	0.7	21		0909	0.9	27		0909	0.9	27			
	1627	3.2	98		1546	3.3	101		1632	3.6	110		1516	3.8	116		1451	4.0	122		1451	4.0	122			
	2225	0.4	12		2157	0.3	9		2327	-0.1	-3		2211	-0.4	-12		2201	-0.6	-18		2201	-0.6	-18	2201	-0.6	-18
15 Th	0417	3.4	104	30 F	0343	3.3	101	15 Su	0537	2.5	76	15 Su	0426	2.8	85	15 Su	0424	2.9	88	30 M	0424	2.9	88			
	1047	0.0	0		1003	0.0	0		1100	1.0	30		0955	0.9	27		0941	1.2	37		0941	1.2	37			
	1656	3.3	101		1611	3.4	104		1703	3.5																

Cedar Key, Florida, 2009

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 W	0634	2.3	70		16 Th	0648	2.3	70		1 F	0048	0.0	0		16 Sa	0011	0.5	15		1 M	0212	1.0	30		16 Tu	0101	1.1	34	
	1104	1.7	52			1122	1.7	52			0746	2.6	79			0704	2.8	85			0835	3.4	104			0731	3.5	107	
	1700	3.7	113			1715	3.3	101			1235	1.8	55			1223	1.7	52			1513	0.9	27			2018	2.9	88	
2 Th	0102	-0.1	-3		17 F	0057	0.5	15		2 Sa	0158	0.3	9		17 Su	0106	0.7	21		2 Tu	0310	1.3	40		17 W	0159	1.4	43	
	0814	2.2	67			0807	2.3	70			0851	2.8	85			0758	2.9	88			0921	3.6	110			0820	3.7	113	
	1218	1.9	58			1240	1.8	55			1409	1.6	49			1342	1.6	49			1623	0.5	15			1526	0.7	21	
3 F	0230	0.0	0		18 Sa	0212	0.6	18		3 Su	0308	0.5	15		18 M	0206	0.9	27		3 W	0406	1.5	46		18 Th	0303	1.7	52	
	0951	2.4	73			0919	2.5	76			0942	3.0	91			0849	3.1	94			1005	3.8	116			0910	3.9	119	
	1408	1.9	58			1418	1.7	52			1537	1.2	37			1501	1.3	40			1719	0.2	6			1632	0.3	9	
4 Sa	1816	3.4	104		19 Su	2002	3.2	98		4 M	0408	0.7	21		19 Tu	0308	1.1	34		4 Th	0456	1.7	52		19 F	0408	1.9	58	
	0352	0.0	0			1010	2.7	82			1646	0.7	21			0933	3.3	101			1046	4.0	122			1001	4.1	125	
	1047	2.7	82			1545	1.4	43			2253	3.2	98			2215	3.0	91			1807	-0.1	-3			1732	-0.1	-3	
5 Su	2141	3.3	101		20 M	0422	0.6	18		5 Tu	0458	0.8	24		20 W	0405	1.2	37		5 F	0039	3.1	94		20 Sa	0014	3.2	98	
	0454	0.0	0			1048	3.0	91			1059	3.6	110			1013	3.6	110			0541	1.7	52			0508	2.0	61	
	1123	3.0	91			1649	1.0	30			1739	0.2	6			1704	0.3	9			1125	4.1	125			1052	4.3	131	
6 M	1702	1.0	30		21 Tu	2245	3.1	94		6 W	0541	1.0	30		21 Th	0457	1.4	43		6 Sa	0123	3.2	98		21 Su	0112	3.3	101	
	2259	3.4	104			0508	0.7	21			1132	3.8	116			1051	3.8	116			0622	1.8	55			0603	2.0	61	
	0542	0.0	0			1119	3.3	101			1824	-0.2	-6			1754	-0.1	-3			1202	4.2	128			1142	4.5	137	
7 Tu	1756	0.5	15		22 W	2342	3.3	101		7 Th	0043	3.3	101		22 F	0020	3.3	101		7 Su	0202	3.2	98		22 M	0204	3.4	104	
	2359	3.5	107			0548	0.7	21			0618	1.1	34			0544	1.5	46			0700	1.8	55			0654	2.0	61	
	0621	0.1	3			1148	3.5	107			1203	4.0	122			1128	4.1	125			1239	4.2	128			1232	4.7	143	
8 W	1841	0.0	0		23 Th	1821	0.0	0		8 F	1904	-0.4	-12		23 Sa	0020	3.3	101		8 M	0205	-0.3	-9		23 Tu	0250	3.4	104	
	0049	3.6	110			0032	3.4	104			0127	3.3	101			0113	3.4	104			2039	-0.2	-6			0743	1.9	58	
	0656	0.3	9			0626	0.8	24			0653	1.2	37			0629	1.6	49			0737	1.8	55			0743	1.9	58	
9 Th	1249	3.7	113		24 F	1113	3.7	113		9 Sa	1234	4.1	125		24 Su	0113	3.4	104		9 Tu	0238	3.2	98		24 W	0250	3.4	104	
	1922	-0.3	-9			1215	3.7	113			1942	-0.5	-15			1206	4.3	131			1315	4.2	128			1323	4.7	143	
	0133	3.6	110			1901	-0.3	-9			2017	-0.5	-15			1927	-0.8	-24			2039	-0.2	-6			2053	-0.8	-24	
10 F	0728	0.5	15		25 Sa	0119	3.5	107		10 Su	0207	3.3	101		25 M	0204	3.4	104		9 Tu	0313	3.1	94		24 W	0333	3.4	104	
	1315	3.9	119			0701	1.0	30			0726	1.4	43			0711	1.7	52			0700	1.8	55			0832	1.8	55	
	1959	-0.5	-15			1244	4.0	122			1304	4.1	125			1246	4.4	134			1351	4.2	128			1414	4.7	143	
11 Sa	0214	3.4	104		26 Su	1942	-0.6	-18		11 M	2017	-0.5	-15		26 Tu	0204	3.4	104		11 Th	2112	-0.1	-3		24 W	2138	-0.6	-18	
	0758	0.8	24			0205	3.4	104			0830	1.5	46			0754	1.8	55			0419	3.1	94			0832	1.8	55	
	1341	4.0	122			0737	1.1	34			1408	4.1	125			1329	4.5	137			1507	4.0	122			1414	4.7	143	
12 Su	2035	-0.6	-18		27 M	2023	-0.8	-24		12 Tu	2127	-0.3	-9		27 W	2101	-0.9	-27		11 Th	2144	0.0	0		26 F	2221	-0.3	-9	
	0253	3.3	101			0251	3.3	101			0321	3.1	94			0343	3.2	98			0419	3.1	94			1603	4.2	128	
	0827	1.0	30			0813	1.3	40			0830	1.5	46			0839	1.8	55			0931	1.7	52			2303	0.1	3	
13 M	1408	4.0	122		28 Tu	2107	-0.9	-27		12 W	2127	-0.3	-9		28 Th	2149	-0.8	-24		12 F	2217	0.1	3		27 Sa	0448	3.4	104	
	2110	-0.5	-15			1349	4.3	131			0359	3.0	91			0432	3.1	94			0527	3.2	98			0525	3.5	107	
	0331	3.1	94			2107	-0.9	-27			0904	1.6	49			0926	1.8	55			1102	1.7	52			1111	1.3	40	
14 Tu	0855	1.1	34		29 W	2154	-0.8	-24		13 Th	2203	-0.1	-3		29 F	2239	-0.5	-15		13 Sa	2252	0.3	9		27 Su	1702	3.8	116	
	1437	4.0	122			0431	2.9	88			0439	2.9	88			0520	3.0	91			1549	3.8	116			2344	0.6	18	
	2145	-0.4	-12			0930	1.6	49			0940	1.7	52			1020	1.7	52			2252	0.3	9			0602	3.6	110	
15 W	0924	1.3	40		30 Th	2246	-0.6	-18		14 F	2241	0.1	3		30 Sa	2329	-0.1	-3		14 Su	2329	0.5	15		28 Su	1810	3.4	104	
	1508	3.9	119			0529	2.7	82			0522	2.8	85			0609	3.0	91			0605	3.3	101			0602	3.6	110	
	2222	-0.2	-6			1016	1.7	52			1023	1.7	52			1121	1.7	52			1158	1.5	46			1213	1.2	37	
16 Th	0955	1.4	43		31 M	2343	-0.3	-9		15 Tu	2323	0.3	9		31 W	1705	3.8	116		15 Sa	1736	3.3	101		29 M	0026	1.1	34	
	1542	3.8	116			1559	4.0	122			1603	3.7	113			1705	3.8	116			1850	3.1	94			0643	3.7	113	
	2304	0.0	0			2343	-0.3	-9			2323	0.3	9			0021	0.3	9			0011	0.8	24			1322	1.0	30	
17 F	0452	2.6	79		30 Th	0635	2.6	79		15 W	0611	2.8	85		30 F	0021	0.3	9		15 Su	1929	3.0	91		30 M	0112	1.5	46	
	0955	1.4	43			1115	1.8	55			0611	2.8	85			0658	3.1	94											

Cedar Key, Florida, 2009

Times and Heights of High and Low Waters

July				August				September																					
Time		Height		Time		Height		Time		Height		Time		Height															
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm															
1 W	0206	1.8	55		16 Th	0100	1.7	52		1 Sa	0335	2.3	70		16 Su	0312	2.4	73		1 Tu	0019	3.1	94		16 W	0005	3.4	104	
	0820	3.8	116			0715	3.9	119			0937	3.9	119			0909	4.1	125			0526	1.8	55			0534	1.3	40	
	1555	0.6	18			1449	0.7	21			1739	0.4	12			1707	0.1	3			1120	4.0	122			1133	4.3	131	
	2229	2.8	85			2127	2.8	85													1829	0.4	12			1826	0.0	0	
2 Th	0308	2.0	61		17 F	0209	2.1	64		2 Su	0023	3.0	91		17 M	0004	3.1	94		2 W	0045	3.3	101		17 Th	0035	3.6	110	
	0914	3.9	119			0818	4.0	122			0447	2.2	67			0437	2.2	67			0611	1.4	43			0625	0.8	24	
	1700	0.4	12			1608	0.3	9			1039	4.0	122			1027	4.3	131			1205	4.1	125			1228	4.4	134	
	2342	2.9	88			2301	2.9	88			1824	0.3	9			1804	-0.2	-6			1859	0.4	12			1905	0.2	6	
3 F	0412	2.1	64		18 Sa	0330	2.3	70		3 M	0058	3.1	94		18 Tu	0045	3.3	101		3 Th	0109	3.5	107		18 F	0103	3.8	116	
	1007	4.0	122			0926	4.2	128			0543	2.0	61			0541	1.9	58			0651	1.1	34			0710	0.4	12	
	1753	0.1	3			1718	-0.1	-3			1132	4.1	125			1132	4.6	140			1246	4.2	128			1318	4.4	134	
											1900	0.2	6			1852	-0.4	-12			1926	0.4	12			1940	0.4	12	
4 Sa	0036	3.0	91		19 Su	0014	3.1	94		4 Tu	0128	3.3	101		19 W	0119	3.5	107		4 F	0131	3.7	113		19 Sa	0130	4.0	122	
	0509	2.1	64			0445	2.3	70			0629	1.8	55			0635	1.5	46			0727	0.9	27			0753	0.1	3	
	1057	4.1	125			1032	4.4	134			1217	4.2	128			1229	4.7	143			1324	4.1	125			1404	4.2	128	
	1838	0.0	0			1817	-0.4	-12			1932	0.1	3			1934	-0.3	-9			1952	0.5	15			2013	0.7	21	
5 Su	0118	3.1	94		20 M	0107	3.3	101		5 W	0154	3.4	104		20 Th	0149	3.7	113		5 Sa	0153	3.8	116		20 Su	0158	4.1	125	
	0559	2.0	61			0548	2.1	64			0709	1.6	49			0724	1.1	34			0802	0.7	21			0834	-0.1	-3	
	1143	4.2	128			1132	4.6	140			1257	4.3	131			1321	4.7	143			1401	4.1	125			1448	4.0	122	
	1917	-0.1	-3			1908	-0.6	-18			2000	0.1	3			2012	-0.1	-3			2018	0.7	21			2044	1.0	30	
6 M	0153	3.2	98		21 Tu	0150	3.4	104		6 Th	0218	3.5	107		21 F	0218	3.8	116		6 Su	0214	3.9	119		21 M	0225	4.2	128	
	0643	1.9	58			0643	1.9	58			0747	1.4	43			0809	0.7	21			0836	0.5	15			0914	-0.1	-3	
	1225	4.3	131			1229	4.8	146			1334	4.3	131			1411	4.6	140			1438	4.0	122			1531	3.7	113	
	1952	-0.1	-3			1954	-0.7	-21			2026	0.2	6			2047	0.2	6			2045	0.8	24			2114	1.3	40	
7 Tu	0225	3.3	101		22 W	0228	3.5	107		7 F	0241	3.6	110		22 Sa	0245	3.9	119		7 M	0236	4.0	122		22 Tu	0254	4.2	128	
	0723	1.8	55			0734	1.6	49			0823	1.2	37			0854	0.5	15			0911	0.4	12			0954	0.0	0	
	1305	4.3	131			1322	4.8	146			1411	4.2	128			1458	4.3	131			1517	3.8	116			1615	3.4	104	
	2024	0.0	0			2037	-0.6	-18			2051	0.3	9			2120	0.5	15			2114	1.1	34			2144	1.5	46	
8 W	0254	3.3	101		23 Th	0301	3.6	110		8 Sa	0302	3.7	113		23 Su	0313	4.1	125		8 Tu	0301	4.1	125		23 W	0325	4.1	125	
	0802	1.7	52			0823	1.4	43			0859	1.1	34			0938	0.4	12			0949	0.3	9			1036	0.2	6	
	1342	4.3	131			1414	4.7	143			1447	4.1	125			1545	4.0	122			1559	3.5	107			1703	3.0	91	
	2053	0.0	0			2117	-0.3	-9			2118	0.5	15			2151	0.9	27			2144	1.3	40			2215	1.7	52	
9 Th	0321	3.4	104		24 F	0333	3.7	113		9 Su	0324	3.8	116		24 M	0341	4.1	125		9 W	0330	4.2	128		24 Th	0400	4.0	122	
	0839	1.6	49			0911	1.1	34			0935	0.9	27			1022	0.4	12			1033	0.3	9			1124	0.5	15	
	1419	4.2	128			1505	4.5	137			1525	3.9	119			1633	3.6	110			1649	3.2	98			1759	2.8	85	
	2121	0.1	3			2154	0.1	3			2145	0.7	21			2221	1.3	40			2217	1.6	49			2251	1.9	58	
10 F	0346	3.5	107		25 Sa	0403	3.8	116		10 M	0347	4.0	122		25 Tu	0412	4.1	125		10 Th	0405	4.2	128		25 F	0443	3.8	116	
	0918	1.5	46			1000	0.9	27			1013	0.8	24			1109	0.5	15			1126	0.4	12			1223	0.7	21	
	1457	4.1	125			1557	4.2	128			1608	3.7	113			1725	3.2	98			1755	2.9	88			1915	2.6	79	
	2149	0.2	6			2229	0.5	15			2215	1.0	30			2251	1.6	49			2256	1.9	58			2341	2.1	64	
11 Sa	0412	3.5	107		26 Su	0433	3.9	119		11 Tu	0414	4.0	122		26 W	0446	4.1	125		11 F	0451	4.1	125		26 Sa	0542	3.6	110	
	0957	1.4	43			1050	0.8	24			1056	0.7	21			1202	0.7	21			1236	0.5	15			1341	0.9	27	
	1537	3.9	119			1650	3.7	113			1657	3.4	104			1828	2.8	85			1927	2.7	82			2050	2.5	76	
	2219	0.4	12			2302	1.0	30			2247	1.3	40			2325	1.9	58			2352	2.2	67						
12 Su	0438	3.7	113		27 M	0505	3.9	119		12 W	0447	4.1	125		27 Th	0529	3.9	119		12 Sa	0554	3.9	119		27 Su	0102	2.2	67	
	1039	1.3	40			1143	0.8	24			1148	0.7	21			1309	0.8	24			1405	0.5	15			0707	3.4	104	
	1621	3.7	113			1749	3.3	101			1800	3.1	94			1953	2.6	79			2122	2.7	82			1510	0.9	27	
	2250	0.7	21			2337	1.4	43			2325	1.6	49			2325	1.6	49			2352	2.2	67			2205	2.7	82	
13 M	0507	3.7	113		28 Tu	0542	4.0	122		13 Th	0529	4.1	125		28 F	0011	2.1	64		13 Su	0126	2.3	70		28 M	0241	2.1	64	
	1127	1.2	37			1244	0.8	24			1256	0.7	21			0626	3.8	116			0727	3.8	116			0842	3.4	104	
	1714	3.4	104			1859	2.9	88			1929	2.8	85			1437	0.9	27			1537	0.4	12			1619	0.8	24	
	2326	1.0	30													2146	2.6	79			2244	2.9	88			2250	2.9	88	
14 Tu	0541	3.8	116		29 W	0014	1.8	55		14 F	0015																		

Cedar Key, Florida, 2009

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 Th	0547	1.0	30		16 F	0611	0.1	3	1 Su	0639	-0.2	-6	16 M	0009	4.0	122	1 Tu	0705	-0.9	-27	16 W	0023	3.8	116		
	1148	3.8	116	1226		3.9	119	1302		3.5	107	0722		-0.7	-21	1347		3.1	94	0752		-0.7	-21			
	1815	0.7	21	1830		0.7	21	1839		1.3	40	1355		3.3	101	1851		1.6	49	1432		2.9	88			
2 F	0016	3.6	110		17 Sa	0017	4.0	122	2 M	0017	4.0	122	17 Tu	0043	4.0	122	2 W	0022	4.1	125	17 Th	0103	3.8	116		
	0627	0.6	18	0655		-0.2	-6	0719		-0.5	-15	0801		-0.7	-21	0751		-1.0	-30	0828		-0.7	-21			
	1231	3.9	119	1313		3.9	119	1346		3.5	107	1435		3.2	98	1435		3.1	94	1505		2.9	88			
3 Sa	1845	0.8	24	1906	0.9	27	3 Tu	1915	1.4	43	3 Th	0048	4.1	125	18 W	0118	4.0	122	3 Th	0105	4.2	128	18 F	0142	3.8	116
	0040	3.8	116	0046	4.1	125		0759	-0.6	-18		0838	-0.6	-18		0837	-1.1	-34		0901	-0.6	-18				
	0703	0.3	9	0736	-0.4	-12		1431	3.4	104		1514	3.1	94		1522	3.1	94		1536	2.9	88				
4 Su	1312	3.9	119	1939	1.2	37	4 W	1951	1.5	46	4 Th	0122	4.2	128	19 Th	0153	4.0	122	4 F	0152	4.2	128	19 Sa	0220	3.7	113
	1431	3.8	116	0815	-0.5	-15		0842	-0.7	-21		0915	-0.4	-12		0924	-1.0	-30		0932	-0.4	-12				
	1945	1.0	30	1439	3.6	110		1517	3.2	98		1551	3.0	91		1607	3.0	91		1606	2.9	88				
5 M	2016	1.2	37	2011	1.3	40	5 Th	2029	1.6	49	5 F	0200	4.2	128	20 F	0230	3.9	119	5 Sa	0242	4.1	125	20 Su	0300	3.6	110
	0815	-0.1	-3	0853	-0.4	-12		0927	-0.6	-18		0951	-0.3	-9		1011	-0.8	-24		1003	-0.3	-9				
	1431	3.7	113	1520	3.4	104		1607	3.1	94		1630	2.9	88		1651	2.9	88		1635	3.0	91				
6 Tu	2016	1.2	37	2043	1.5	46	6 F	2110	1.7	52	6 Sa	0243	4.2	128	21 Sa	0310	3.7	113	6 Su	0242	4.1	125	21 M	0341	3.4	104
	0153	4.2	128	0217	4.1	125		1017	-0.5	-15		1028	-0.1	-3		1058	-0.5	-15		1034	-0.1	-3				
	0853	-0.2	-6	0931	-0.2	-6		1700	2.9	88		1709	2.8	85		1734	2.9	88		1705	3.0	91				
7 W	1513	3.5	107	2115	1.6	49	7 Sa	2158	1.8	55	7 Su	0332	4.0	122	22 Su	0355	3.5	107	7 M	0439	3.5	107	22 Tu	0427	3.2	98
	2047	1.4	43	0251	4.0	122		1111	-0.3	-9		1108	0.2	6		1146	-0.1	-3		1107	0.1	3				
	0223	4.2	128	1010	0.0	0		1759	2.8	85		1752	2.8	85		1818	3.0	91		1737	3.1	94				
8 Th	1600	3.3	101	2150	1.7	52	8 Su	2256	1.8	55	8 M	0432	3.7	113	23 M	0447	3.3	101	8 Tu	0003	1.1	34	23 W	0521	2.9	88
	2121	1.6	49	1645	2.9	88		1211	0.0	0		1211	0.0	0		1257	0.3	9		1143	0.4	12				
	0258	4.2	128	1736	2.7	82		1902	2.8	85		1837	2.8	85		1903	3.1	94		1812	3.1	94				
9 F	1653	3.0	91	2232	1.8	55	9 M	0008	1.7	52	9 Tu	0133	1.5	46	24 Tu	0013	1.4	43	9 W	0116	0.9	27	24 Th	0037	0.8	24
	2159	1.8	55	0328	3.9	119		0550	3.4	104		0552	3.0	91		0715	2.8	85		0627	2.6	79				
	0340	4.1	125	1053	0.2	6		1317	0.3	9		1240	0.6	18		1331	0.8	24		1225	0.7	21				
10 Sa	1801	2.8	85	2326	1.9	58	10 W	2003	2.9	88	10 Th	0133	1.5	46	25 W	0123	1.3	40	10 Th	0234	0.5	15	25 F	0142	0.6	18
	2248	2.0	61	0413	3.7	113		0726	3.2	98		0712	2.8	85		0848	2.6	79		0749	2.4	73				
	0432	4.0	122	1835	2.6	79		1425	0.6	18		1335	0.9	27		1429	1.1	34		1317	1.1	34				
11 Su	2358	2.1	64	1943	2.6	79	11 Th	2056	3.1	94	11 F	0259	1.1	34	26 Th	0236	1.0	30	11 F	0234	0.5	15	26 Sa	0142	0.6	18
	0545	3.7	113	0040	1.9	58		0903	3.1	94		0838	2.7	82		1017	2.6	79		0920	2.3	70				
	1347	0.4	12	1351	0.9	27		1528	0.8	24		1434	1.1	34		1530	1.4	43		1420	1.4	43				
12 M	2055	2.7	82	2046	2.7	82	12 W	2142	3.3	101	12 Th	0259	1.1	34	27 Th	0236	1.0	30	12 Sa	0348	0.2	6	27 Su	0253	0.3	9
	0135	2.1	64	0206	1.7	52		2142	3.3	101		1434	1.1	34		2128	3.5	107		2031	3.4	104				
	0727	3.5	107	0801	3.0	91		0410	0.6	18		0957	2.7	82		1017	2.6	79		0920	2.3	70				
13 Tu	1509	0.5	15	1459	0.9	27	13 F	2222	3.5	107	13 Sa	0410	0.6	18	28 Sa	0343	0.6	18	13 Su	0452	-0.2	-6	28 M	0404	0.0	0
	2157	3.0	91	0206	1.7	52		1024	3.2	98		0957	2.7	82		1131	2.7	82		1047	2.4	73				
	0312	1.7	52	0801	3.0	91		1624	1.0	30		1534	1.2	37		1628	1.5	46		1532	1.6	49				
14 W	2315	3.5	107	2135	2.9	88	14 Th	2222	3.5	107	14 F	0410	0.6	18	29 Su	0532	-0.3	-9	14 M	0632	-0.7	-21	29 Tu	0604	-0.8	-24
	0909	3.5	107	1459	0.9	27		0508	0.1	3		0957	2.7	82		1131	2.7	82		1259	2.8	85				
	1616	0.4	12	1459	0.9	27		1130	3.3	101		1534	1.2	37		1629	1.4	43		1641	1.7	52				
15 Th	2240	3.2	98	2215	3.2	98	15 F	2259	3.8	116	15 Sa	0558	-0.3	-9	30 Su	0532	-0.3	-9	15 Tu	0632	-0.7	-21	30 W	0656	-1.1	-34
	0909	3.5	107	0924	3.1	94		1712	1.1	34		1204	3.0	91		1229	2.8	85		1200	2.6	79				
	1616	0.4	12	1556	1.0	30		2259	3.8	116		1720	1.5	46		1721	1.6	49		1641	1.7	52				
16 F	2240	3.2	98	2215	3.2	98	16 Sa	2259	3.8	116	16 Su	0558	-0.3	-9	31 M	0619	-0.6	-18	31 Th	0632	-0.7	-21	31 F	0656	-1.1	-34
	0909	3.5	107	0924	3.1	94		1712	1.1	34		1204	3.0	91		1229	2.8	85		1200	2.6	79				
	1616	0.4	12	1556	1.0	30		2259	3.8	116		1720	1.5	46		1721	1.6	49		1641	1.7	52				
17 Sa	2240	3.2	98	2215	3.2	98	17 Su	2259	3.8	116	17 M	0558	-0.3	-9	31 Tu	0619	-0.6	-18	31 W	0656	-1.1	-34				
	0909	3.5	107	0924	3.1	94		1712	1.1	34		1204	3.0	91		1229	2.8	85		1200	2.6	79				
	1616	0.4	12	1556	1.0	30		2259	3.8	116		1720	1.5	46		1721	1.6	49		1641	1.7	52				
18 Su	2240	3.2	98	2215	3.2	98	18 M	2259	3.8	116	18 Th	0558	-0.3	-9	31 F	0619	-0.6	-18	31 Sa	0656	-1.1	-34				
	0909	3.5	107	0924	3.1	94		1712	1.1	34		1204	3.0	91		1229	2.8	85		1200	2.6	79				
	1616	0.4	12	1556	1.0	30		2259	3.8	116		1720	1.5	46		1721	1.6	49		1641	1.7	52				
19 Th	2315	3.5	107	2248	3.4	104	19 F	2335	3.9	119	19 Sa	0558	-0.3	-9	31 Su	0619	-0.6	-18	31 M	0656	-1.1	-34				
	0909	3.5	107	0924	3.1	94		1712	1.1	34		1204	3.0	91		1229										

St. Marks River Entrance, Florida, 2009

Times and Heights of High and Low Waters

January				February				March																										
Time	Height			Time	Height			Time	Height			Time	Height																					
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm		h	m	ft	cm															
1 Th	0405	3.0	91		16 F	0522	2.4	73		1 Su	0545	2.5	76		16 M	0048	0.1	3		1 Su	0441	2.9	88		16 M	0528	2.3	70						
	1043	-0.2	-6			1111	0.6	18			1114	0.6	18			0712	1.7	52			1006	0.6	18			1002	1.3	40						
	1707	3.0	91			1728	2.9	88			1716	3.2	98			1050	1.4	43			1601	3.6	110			1605	3.3	101						
	2305	0.6	18													1711	2.8	85			2305	-0.5	-15											
2 F	0455	2.7	82		17 Sa	0026	0.2	6		2 M	0029	-0.2	-6		17 Tu	0215	0.2	6		2 M	0538	2.6	79		17 Tu	0004	0.1	3		17 Tu	0628	2.0	61	
	1118	0.1	3			0630	2.0	61			0705	2.2	67			1746	2.6	79			1039	1.0	30			1024	1.5	46						
	1739	3.0	91			1133	1.1	34			1159	1.1	34								1633	3.6	110			1631	3.1	94						
						1755	2.8	85			1755	3.1	94																					
3 Sa	0000	0.5	15		18 Su	0139	0.2	6		3 Tu	0150	-0.2	-6		18 W	0355	0.2	6		3 Tu	0005	-0.4	-12		18 W	0119	0.4	12		18 W	0816	1.8	55	
	0559	2.5	76			0810	1.7	52			0857	2.1	64			1925	2.4	73			0655	2.2	67			1120	1.4	43			1047	1.7	52	
	1200	0.5	15			1156	1.4	43			1300	1.5	46								1714	3.4	104			1704	2.8	85						
	1814	2.9	88			1830	2.7	82			1849	3.0	91																					
4 Su	0107	0.3	9		19 M	0306	0.1	3		4 W	0324	-0.4	-12		19 Th	0508	0.0	0		4 W	0127	-0.3	-9		19 Th	0259	0.5	15		19 Th	1809	2.5	76	
	0726	2.2	67			1032	1.7	52			1046	2.2	67			1222	2.1	64			0849	2.1	64											
	1252	0.9	27			1234	1.6	49			1430	1.8	55			1608	1.9	58			1220	1.8	55											
	1857	2.9	88			1928	2.6	79			2011	2.9	88			2232	2.5	76			1811	3.2	98											
5 M	0225	0.1	3		20 Tu	0427	-0.1	-3		5 Th	0448	-0.8	-24		20 F	0557	-0.2	-6		5 Th	0308	-0.3	-9		20 F	0421	0.4	12		20 F	1134	2.3	70	
	0913	2.2	67			1158	1.9	58			1156	2.5	76			1240	2.4	73			1037	2.3	70			1154	2.0	61						
	1358	1.3	40			1423	1.8	55			1610	1.8	55			1737	1.6	49			1408	2.0	61			1544	2.0	61						
	1950	2.9	88			2117	2.5	76			2153	3.0	91			2334	2.7	82			1950	2.9	88			2154	2.4	73						
6 Tu	0346	-0.3	-9		21 W	0530	-0.3	-9		6 F	0552	-1.1	-34		21 Sa	0634	-0.4	-12		6 F	0434	-0.5	-15		21 Sa	0515	0.2	6		21 Sa	1159	2.5	76	
	1048	2.4	73			1232	2.1	64			1245	2.8	85			1303	2.6	79			1139	2.6	79			1178	1.6	49						
	1514	1.6	49			1625	1.8	55			1730	1.5	46			1821	1.3	40			1609	1.8	55			2309	2.7	82						
	2056	3.0	91			2246	2.6	79			2316	3.2	98								2158	3.0	91											
7 W	0458	-0.7	-21		22 Th	0617	-0.5	-15		7 Sa	0645	-1.3	-40		22 Su	0017	2.9	88		7 Sa	0537	-0.6	-18		22 Su	0554	0.1	3		22 Su	1222	2.8	85	
	1200	2.7	82			1300	2.3	70			1325	3.0	91			0705	-0.5	-15			1220	2.9	88			1801	1.2	37						
	1629	1.7	52			1738	1.6	49			1830	1.2	37			1326	2.8	85			1730	1.3	40			2356	2.9	88						
	2208	3.1	94			2343	2.8	85								1856	1.0	30			2324	3.2	98											
8 Th	0600	-1.1	-34		23 F	0657	-0.6	-18		8 Su	0021	3.4	104		23 M	0053	3.1	94		8 Su	0626	-0.7	-21		23 M	0626	0.0	0		23 M	1245	3.0	91	
	1255	2.9	88			1327	2.5	76			0730	-1.3	-40			0732	-0.5	-15			1254	3.1	94			1836	0.8	24						
	1735	1.6	49			1825	1.4	43			1400	3.1	94			1349	3.0	91			1826	0.8	24											
	2314	3.3	101								1920	0.8	24			1929	0.6	18																
9 F	0654	-1.4	-43		24 Sa	0026	2.9	88		9 M	0115	3.6	110		24 Tu	0127	3.2	98		9 M	0025	3.4	104		24 Tu	0036	3.1	94		24 Tu	0654	0.0	0	
	1342	3.0	91			0730	-0.7	-21			0810	-1.1	-34			0756	-0.5	-15			0707	-0.6	-18			1307	3.2	98						
	1832	1.4	43			1354	2.7	82			1431	3.2	98			1410	3.2	98			1325	3.3	101			1909	0.4	12						
						1905	1.1	34			2006	0.4	12			2001	0.3	9			1913	0.3	9											
10 Sa	0015	3.5	107		25 Su	0102	3.1	94		10 Tu	0204	3.6	110		25 W	0200	3.3	101		10 Tu	0116	3.5	107		25 W	0114	3.3	101		25 W	0720	0.1	3	
	0743	-1.5	-46			0800	-0.8	-24			0844	-0.8	-24			0819	-0.4	-12			0742	-0.4	-12			1327	3.4	104						
	1424	3.1	94			1420	2.8	85			1500	3.3	101			1431	3.3	101			1353	3.5	107			1941	0.0	0						
	1923	1.2	37			1941	0.9	27			2049	0.0	0			2032	0.0	0			1955	-0.1	-3											
11 Su	0109	3.7	113		26 M	0135	3.1	94		11 W	0250	3.4	104		26 Th	0235	3.3	101		11 W	0202	3.5	107		26 Th	0151	3.4	104		26 Th	0746	0.2	6	
	0828	-1.5	-46			0826	-0.8	-24			0915	-0.4	-12			0843	-0.2	-6			0812	-0.1	-3			1347	3.6	110						
	1502	3.1	94			1445	3.0	91			1526	3.3	101			1450	3.4	104			1419	3.6	110			2013	-0.3	-9						
	2011	0.9	27			2015	0.7	21			2131	-0.2	-6			2105	-0.2	-6			2035	-0.4	-12											
12 M	0201	3.7	113		27 Tu	0208	3.2	98		12 Th	0334	3.2	98		27 F	0313	3.3	101		12 Th	0244	3.4	104		27 F	0230	3.4	104		27 F	0812	0.4	12	
	0909	-1.2	-37			0850	-0.7	-21			0940	0.0	0			0908	0.0	0			0839	0.2	6			1408	3.7	113						
	1536	3.1	94			1509	3.1	94			1549	3.3	101			1511	3.5	107			1443	3.6	110			2048	-0.6	-18						
	2058	0.7	21			2049	0.5	15			2213	-0.3	-9			2140	-0.4	-12			2113	-0.5	-15											
13 Tu	0250	3.5	107		28 W	0242	3.2	98		13 F	0417	2.8	85		28 Sa	0354	3.1	94		13 F	0324	3.2	98		28 Sa	0310	3.4	104		28 Sa	0840	0.6	18	
	0946	-0.9	-27			0914	-0.6	-18			1001	0.4	12			0936	0.3	9			0901	0.6	18			1432	3.9	119						
	1608	3.0	91			1532	3.2	98			1609	3.2	98			1534	3.6	110			1504	3.6	110			2125	-0.7	-21						
	2144	0.4	12			2123	0.3	9			2257	-0.2	-6			2219	-0.5																	

St. Marks River Entrance, Florida, 2009

Times and Heights of High and Low Waters

April				May				June																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
1 W	0653	2.4	73		16 Th	0030	0.4	12		1 F	0056	0.0	0		16 Sa	0038	0.5	15		1 M	0215	1.2	37		16 Tu	0117	1.0	30		16 Sa	0726	2.7	82		1 M	0855	3.2	98		16 Tu	0745	3.2	98		16 Sa	1225	1.9	58		1 M	1533	1.0	30		16 Tu	1429	1.2	37		16 Sa	1753	2.9	88		1 M	2152	2.6	79		16 Tu	2040	2.7	82		16 Sa	0215	1.2	37		1 M	0314	1.5	46		16 Tu	0214	1.3	40		16 Sa	0827	2.8	85		1 M	0947	3.3	101		16 Tu	0833	3.2	98		16 Sa	1400	1.8	55		1 M	1646	0.5	15		16 Tu	1547	0.8	24		16 Sa	1935	2.6	79		1 M	2317	2.7	82		16 Tu	2218	2.7	82		16 Sa	0411	1.7	52		1 M	1035	3.5	107		16 Tu	0924	3.4	104		16 Sa	1531	1.5	46		1 M	1744	0.2	6		16 Tu	1655	0.3	9		16 Sa	2129	2.6	79		1 M	2129	2.6	79		16 Tu	2337	3.0	91		16 Sa	0420	1.8	55		1 M	0017	2.8	85		16 Tu	1017	3.6	110		16 Sa	0332	1.1	34		1 M	0502	1.9	58		16 Tu	1119	3.6	110		16 Sa	1638	1.0	30		1 M	1832	-0.1	-3		16 Tu	2251	2.8	85		16 Sa	0426	1.2	37		1 M	0103	2.9	88		16 Tu	0546	1.9	58		16 Sa	1041	3.3	101		1 M	1159	3.7	113		16 Tu	1346	3.9	119		16 Sa	1915	-0.3	-9		1 M	1915	-0.3	-9		16 Tu	2039	3.2	98		16 Sa	0142	3.0	91		1 M	0627	1.8	55		16 Tu	1237	3.8	116		16 Sa	1954	-0.4	-12		1 M	1954	-0.4	-12		16 Tu	0133	3.3	101		16 Sa	0613	2.0	61		16 Tu	1200	4.1	125		16 Sa	1938	-0.9	-27		16 Tu	2133	3.3	101		16 Sa	0217	3.1	94		1 M	0705	1.8	55		16 Tu	1313	3.9	119		16 Sa	2031	-0.4	-12		1 M	2031	-0.4	-12		16 Tu	0221	3.4	104		16 Sa	0702	1.9	58		16 Tu	1251	4.3	131		16 Sa	2026	-1.0	-30		16 Tu	0226	-1.0	-30		16 Sa	0305	3.4	104		16 Tu	0750	1.8	55		16 Tu	1341	4.4	134		16 Sa	2111	-1.0	-30		16 Tu	2111	-1.0	-30		16 Tu	0346	3.4	104		16 Tu	0838	1.6	49		16 Tu	1430	4.4	134		16 Tu	2154	-0.8	-24		16 Tu	2154	-0.8	-24		16 Tu	0424	3.4	104		16 Tu	0926	1.5	46		16 Tu	1520	4.2	128		16 Tu	2234	-0.4	-12		16 Tu	2234	-0.4	-12		16 Tu	0500	3.3	101		16 Tu	1018	1.3	40		16 Tu	1612	3.9	119		16 Tu	2311	0.1	3		16 Tu	2311	0.1	3		16 Tu	0536	3.3	101		16 Tu	1115	1.2	37		16 Tu	1707	3.5	107		16 Tu	2347	0.6	18		16 Tu	2347	0.6	18		16 Tu	0611	3.3	101		16 Tu	1220	1.1	34		16 Tu	1813	3.0	91		16 Tu	1813	3.0	91		16 Tu	0021	1.1	34		16 Tu	0650	3.3	101		16 Tu	1336	1.0	30		16 Tu	1940	2.6	79		16 Tu	1940	2.6	79		16 Tu	0058	1.6	49		16 Tu	0735	3.3	101		16 Tu	1501	0.8	24		16 Tu	2132	2.4	73		16 Tu	2132	2.4	73		16 Tu	0058	1.6	49		16 Tu	0735	3.3	101		16 Tu	1501	0.8	24		16 Tu	2132	2.4	73		16 Tu	2132	2.4	73		16 Tu	0058	1.6	49		16 Tu	0735	3.3	101		16 Tu	1501	0.8	24		16 Tu	2132	2.4	73		16 Tu	2132	2.4	73		16 Tu	0058	1.6	49		16 Tu	0735	3.3	101		16 Tu	1501	0.8	24		16 Tu	2132	2.4	73		16 Tu	2132	2.4	73		16 Tu	0058	1.6	49		16 Tu	0735	3.3	101		16 Tu	1501	0.8	24		16 Tu	2132	2.4	73		16 Tu	2132	2.4	73		16 Tu	0058	1.6	49		16 Tu	0735	3.3	101		16 Tu	1501	0.8	24		16 Tu	2132	2.4	73		16 Tu	2132	2.4	73		16 Tu	0058	1.6	49		16 Tu	0735	3.3	101		16 Tu	1501	0.8	24		16 Tu	2132	2.4	73		16 Tu	2132	2.4	73		16 Tu	0058	1.6	49		16 Tu	0735	3.3	101		16 Tu	1501	0.8	24		16 Tu	2132	2.4	73		16 Tu	2132	2.4	73		16 Tu	0058	1.6	49		16 Tu	0735	3.3	101		16 Tu	1501	0.8	24		16 Tu	2132	2.4	73		16 Tu	2132	2.4	73		16 Tu	0058	1.6	49		16 Tu	0735	3.3	101		16 Tu	1501	0.8	24		16 Tu	2132	2.4	73		16 Tu	2132	2.4	73		16 Tu	0058	1.6	49		16 Tu	0735	3.3	101		16 Tu	1501	0.8	24		16 Tu	2132	2.4	73		16 Tu	2132	2.4	73		16 Tu	0058	1.6	49		16 Tu	0735	3.3	101		16 Tu	1501	0.8	24		16 Tu	2132	2.4	73		16 Tu	2132	2.4	73		16 Tu	0058	1.6	49		16 Tu	0735	3.3	101		16 Tu	1501	0.8	24		16 Tu	2132	2.4	73		16 Tu	2132	2.4	73		16 Tu	0058	1.6	49		16 Tu	0735	3.3	101		16 Tu	1501	0.8	24		16 Tu	2132	2.4	73		16 Tu	2132	2.4	73		16 Tu	0058	1.6	49		16 Tu	0735	3.3	101		16 Tu	1501	0.8	24		16 Tu	2132	2.4	73		16 Tu	2132	2.4	73		16 Tu	0058	1.6	49		16 Tu	0735	3.3	101		16 Tu	1501	0.8	24		16 Tu	2132	2.4	73		16 Tu	2132	2.4	73		16 Tu	0058	1.6	49		16 Tu	0735	3.3	101		16 Tu	1501	0.8	24		16 Tu	2132	2.4	73		16 Tu	2132	2.4	73		16 Tu	0058	1.6	49		16 Tu	0735	3.3	101		16 Tu	1501	0.8	24		16 Tu	2132	2.4	73		16 Tu	2132	2.4	73		16 Tu	0058	1.6	49		16 Tu	0735	3.3	101		16 Tu	1501	0.8	24		16 Tu	2132	2.4	73		16 Tu	2132	2.4	73		16 Tu	0058	1.6	49		16 Tu	0735	3.3	101		16 Tu	1501	0.8	24		16 Tu	2132	2.4	73		16 Tu	2132	2.4	73		16 Tu	0058	1.6	49		16 Tu	0735	3.3	101		16 Tu	1501	0.8	24		16 Tu	2132	2.4	73		16 Tu	2132	2.4	73		16 Tu	0058	1.6	49		16 Tu	0735	3.3	101		16 Tu	1501	0.8	24		16 Tu	2132	2.4	73		16 Tu	2132	2.4	73		16 Tu	0058	1.6	49		16 Tu	0735	3.3	101		16 Tu	1501	0.8	24		16 Tu	2132	2.4	73		16 Tu	2132	2.4	73		16 Tu	0058	1.6	49		16 Tu	0735	3.3	101		16 Tu	1501	0.8	24		16 Tu	2132	2.4	73		16 Tu	2132	2.4	73		16 Tu	0058	1.6	49		16 Tu	0735	3.3	101		16 Tu	1501	0.8	24		16 Tu	2132	2.4	73		16 Tu	2132	2.4	73		16 Tu	0058	1.6	49		1

St. Marks River Entrance, Florida, 2009

Times and Heights of High and Low Waters

July				August				September															
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height										
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm									
1 W	0144	1.9	58	16 Th	0115	1.6	49	1 Sa	0012	2.5	76	16 Su	0316	2.3	70	1 Tu	0039	3.0	91	16 W	0019	3.5	107
	0833	3.3	101		0717	3.5	107		0317	2.4	73		0915	3.7	113		0551	1.8	55		0546	1.3	40
	1622	0.5	15		1504	0.6	18		1030	3.3	101		1724	0.0	0		1208	3.6	110		1157	4.0	122
	2312	2.4	73		2154	2.7	82		1808	0.4	12						1855	0.4	12		1842	0.2	6
2 Th	0248	2.1	64	17 F	0221	1.9	58	2 Su	0045	2.7	82	17 M	0012	3.2	98	2 W	0105	3.2	98	17 Th	0054	3.7	113
	0941	3.4	104		0818	3.5	107		0457	2.2	67		0443	2.1	64		0632	1.5	46		0638	0.8	24
	1728	0.3	9		1628	0.3	9		1135	3.5	107		1045	3.9	119		1245	3.8	116		1252	4.2	128
			2324		2.9	88	1851		0.2	6	1821		-0.3	-9	1922		0.4	12	1921		0.3	9	
3 F	0016	2.6	79	18 Sa	0337	2.1	64	3 M	0114	2.9	88	18 Tu	0057	3.4	104	3 Th	0129	3.4	104	18 F	0125	3.8	116
	0404	2.2	67		0933	3.6	110		0559	2.0	61		0552	1.8	55		0708	1.2	37		0724	0.4	12
	1046	3.5	107		1738	-0.2	-6		1221	3.7	113		1155	4.2	128		1318	3.9	119		1341	4.2	128
	1821	0.1	3						1926	0.1	3		1910	-0.4	-12		1946	0.4	12		1955	0.6	18
4 Sa	0059	2.7	82	19 Su	0030	3.1	94	4 Tu	0142	3.1	94	19 W	0135	3.5	107	4 F	0152	3.6	110	19 Sa	0154	3.9	119
	0512	2.1	64		0452	2.2	67		0645	1.7	52		0648	1.4	43		0742	0.9	27		0808	0.1	3
	1141	3.6	110		1047	3.9	119		1259	3.8	116		1253	4.3	131		1351	3.9	119		1427	4.1	125
	1906	-0.1	-3		1837	-0.5	-15		1956	0.0	0		1952	-0.3	-9		2010	0.5	15		2025	0.9	27
5 Su	0134	2.9	88	20 M	0122	3.3	101	5 W	0208	3.3	101	20 Th	0208	3.7	113	5 Sa	0213	3.7	113	20 Su	0220	4.0	122
	0606	2.0	61		0558	2.0	61		0724	1.5	46		0737	1.0	30		0814	0.7	21		0850	-0.1	-3
	1226	3.7	113		1153	4.1	125		1332	3.9	119		1345	4.4	134		1425	4.0	122		1510	3.9	119
	1944	-0.1	-3		1928	-0.8	-24		2023	0.0	0		2029	-0.1	-3		2033	0.6	18		2052	1.2	37
6 M	0205	3.0	91	21 Tu	0205	3.4	104	6 Th	0234	3.4	104	21 F	0239	3.7	113	6 Su	0233	3.8	116	21 M	0245	4.0	122
	0652	1.8	55		0654	1.8	55		0800	1.3	40		0824	0.7	21		0846	0.5	15		0931	-0.1	-3
	1305	3.8	116		1251	4.3	131		1404	3.9	119		1433	4.3	131		1500	4.0	122		1552	3.6	110
	2019	-0.2	-6		2014	-0.8	-24		2046	0.1	3		2102	0.3	9		2058	0.7	21		2116	1.5	46
7 Tu	0236	3.1	94	22 W	0244	3.5	107	7 F	0258	3.6	110	22 Sa	0307	3.8	116	7 M	0254	3.9	119	22 Tu	0309	3.9	119
	0733	1.7	52		0745	1.5	46		0835	1.1	34		0908	0.4	12		0919	0.3	9		1012	0.1	3
	1340	3.9	119		1344	4.4	134		1436	3.9	119		1520	4.1	125		1538	3.9	119		1634	3.3	101
	2049	-0.2	-6		2056	-0.7	-21		2109	0.1	3		2131	0.7	21		2125	0.9	27		2140	1.7	52
8 W	0305	3.2	98	23 Th	0319	3.6	110	8 Sa	0321	3.7	113	23 Su	0332	3.8	116	8 Tu	0318	4.0	122	23 W	0332	3.8	116
	0812	1.5	46		0834	1.2	37		0908	0.9	27		0952	0.3	9		0955	0.2	6		1057	0.3	9
	1413	3.9	119		1435	4.4	134		1510	3.9	119		1605	3.8	116		1621	3.7	113		1719	3.0	91
	2117	-0.2	-6		2133	-0.4	-12		2133	0.3	9		2156	1.1	34		2155	1.2	37		2204	1.9	58
9 Th	0334	3.4	104	24 F	0350	3.6	110	9 Su	0343	3.7	113	24 M	0356	3.8	116	9 W	0345	4.0	122	24 Th	0358	3.7	113
	0849	1.4	43		0922	1.0	30		0943	0.8	24		1037	0.3	9		1038	0.2	6		1151	0.6	18
	1445	3.9	119		1524	4.2	128		1547	3.8	116		1650	3.4	104		1711	3.4	104		1815	2.7	82
	2142	-0.1	-3		2207	0.1	3		2159	0.5	15		2218	1.4	43		2230	1.5	46		2232	2.0	61
10 F	0401	3.4	104	25 Sa	0420	3.6	110	10 M	0405	3.8	116	25 Tu	0418	3.8	116	10 Th	0417	4.0	122	25 F	0430	3.4	104
	0926	1.3	40		1010	0.8	24		1019	0.7	21		1126	0.5	15		1132	0.3	9		1304	0.9	27
	1519	3.8	116		1612	3.8	116		1628	3.6	110		1740	3.0	91		1815	3.1	94		1938	2.5	76
	2208	0.0	0		2236	0.6	18		2228	0.7	21		2239	1.7	52		2311	1.8	55		2313	2.2	67
11 Sa	0428	3.5	107	26 Su	0447	3.6	110	11 Tu	0430	3.8	116	26 W	0442	3.6	110	11 F	0458	3.9	119	26 Sa	0515	3.2	98
	1004	1.2	37		1100	0.7	21		1102	0.6	18		1225	0.7	21		1245	0.4	12		1436	1.1	34
	1556	3.7	113		1703	3.4	104		1717	3.4	104		1843	2.6	79		1943	2.8	85		2130	2.5	76
	2235	0.2	6		2302	1.0	30		2302	1.1	34		2300	2.0	61		2300	2.0	61				
12 Su	0455	3.5	107	27 M	0513	3.6	110	12 W	0459	3.8	116	27 Th	0511	3.5	107	12 Sa	0007	2.1	64	27 Su	0040	2.3	70
	1045	1.2	37		1156	0.7	21		1154	0.6	18		1346	0.9	27		0554	3.7	113		0705	2.9	88
	1638	3.5	107		1800	2.9	88		1821	3.1	94		2023	2.3	70		1419	0.5	15		1558	1.0	30
	2305	0.4	12		2326	1.5	46		2341	1.5	46		2327	2.2	67		2128	2.8	85		2241	2.7	82
13 M	0522	3.5	107	28 Tu	0541	3.5	107	13 Th	0536	3.7	113	28 F	0554	3.3	101	13 Su	0131	2.3	70	28 M	0309	2.2	67
	1132	1.1	34		1302	0.8	24		1304	0.6	18		1525	1.0	30		0721	3.6	110		0953	3.0	91
	1729	3.2	98		1913	2.5	76		1949	2.8	85						1551	0.4	12		1655	0.9	27
	2340	0.8	24		2349	1.8	55										2247	3.0	91		2320	2.9	88
14 Tu	0553	3.5	107	29 W	0614	3.4	104	14 F	0032	1.9	58	29 Sa	0749	3.1	94	14 M	0316	2.2	67	29 Tu	0440	1.9	58
	1228	1.0	30		1425	0.8	24		0625	3.7	113		1647	0.8	24		0919	3.6	110		1100	3.2	98
	1836	2.9	88		2103	2.3	70		1436	0.5	15		2341	2.6	79		1702	0.2	6		1737	0.8	24
									2140	2.7	82						2339	3.2	98		2350	3.1	94
15 W	0022	1.2	37	30 Th	0019	2.1	64	15 Sa	0144	2.2	67	30 Su	0308	2.4	73	15 Tu	0442	1.8	55	30 W	0531	1.5	46
	0630	3.5	107		0705	3.3	101		0737	3.6	110		1021	3.2	98		1050	3.8	116		1146	3.4	104
	1339	0.8	24		1557	0.7	21		1610	0.3	9		1742	0.7	21		1757	0.1	3		1810	0.8	24
	2007	2.7	82		2308	2.4	73		2311	2.9	88												
			31 F	0119	2.3	70				31 M	0012	2.8	85										
				0845	3.2	98																	

St. Marks River Entrance, Florida, 2009

Times and Heights of High and Low Waters

October			November			December																	
Time	Height		Time	Height		Time	Height		Time	Height													
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm									
1 Th	0016	3.3	101	16 F	0008	3.7	113	1 Su	0010	3.5	107	16 M	0033	3.7	113	1 Tu	0718	-0.9	-27	16 W	0052	3.4	104
	0610	1.1	34		0625	0.2	6		0654	-0.1	-3		0738	-0.7	-21		1403	3.3	101		0809	-0.8	-24
	1225	3.6	110		1249	3.8	116		1325	3.6	110		1410	3.3	101		1900	1.5	46		1436	2.9	88
	1838	0.8	24		1844	1.0	30		1852	1.3	40		1915	1.6	49		●	1935	1.4		43	●	1935	1.4	43
2 F	0040	3.5	107	17 Sa	0040	3.8	116	2 M	0036	3.7	113	17 Tu	0107	3.7	113	2 W	0036	3.7	113	17 Th	0130	3.4	104
	0645	0.8	24		0710	-0.2	-6		0731	-0.4	-12		0818	-0.7	-21		0802	-1.1	-34		0844	-0.7	-21
	1301	3.7	113		1335	3.8	116		1406	3.6	110		1447	3.2	98		1446	3.3	101		1508	2.9	88
	1904	0.8	24		1917	1.2	37		1924	1.4	43		1948	1.6	49		○	1940	1.5		46	2012	1.2
3 Sa	0102	3.6	110	18 Su	0109	3.9	119	3 Tu	0104	3.8	116	18 W	0139	3.7	113	3 Th	0118	3.8	116	18 F	0205	3.3	101
	0718	0.5	15		0751	-0.4	-12		0809	-0.6	-18		0857	-0.5	-15		0846	-1.1	-34		0917	-0.6	-18
	1337	3.8	116		1418	3.8	116		1448	3.6	110		1524	3.1	94		1530	3.2	98		1540	2.9	88
	1930	0.9	27		●	1947	1.4		43	1958	1.5		46	2021	1.5		46	2022	1.5		46	2050	1.1	34
4 Su	0123	3.8	116	19 M	0138	3.9	119	4 W	0135	4.0	122	19 Th	0211	3.6	110	4 F	0202	3.9	119	19 Sa	0240	3.3	101
	0750	0.2	6		0832	-0.4	-12		0850	-0.7	-21		0935	-0.4	-12		0931	-1.0	-30		0948	-0.5	-15
	1414	3.9	119		1459	3.6	110		1532	3.5	107		1600	3.0	91		1612	3.1	94		1612	2.9	88
	1957	1.0	30		2015	1.5	46		2033	1.6	49		2056	1.5	46		2107	1.4	43		2129	1.1	34
5 M	0145	3.9	119	20 Tu	0205	3.9	119	5 Th	0211	4.0	122	20 F	0245	3.5	107	5 Sa	0250	3.8	116	20 Su	0315	3.1	94
	0824	0.0	0		0911	-0.3	-9		0934	-0.6	-18		1012	-0.2	-6		1016	-0.8	-24		1018	-0.3	-9
	1452	3.9	119		1537	3.4	104		1618	3.3	101		1638	2.9	88		1655	3.0	91		1643	2.9	88
	2025	1.2	37		2043	1.6	49		2112	1.6	49		2135	1.5	46		2157	1.3	40		2211	1.0	30
6 Tu	0210	4.0	122	21 W	0232	3.8	116	6 F	0251	4.0	122	21 Sa	0320	3.3	101	6 Su	0342	3.6	110	21 M	0354	2.9	88
	0900	-0.2	-6		0951	-0.1	-3		1022	-0.5	-15		1051	0.1	3		1102	-0.4	-12		1048	-0.1	-3
	1533	3.7	113		1617	3.2	98		1709	3.1	94		1719	2.8	85		1739	2.9	88		1716	2.9	88
	2055	1.3	40		2112	1.7	52		2157	1.7	52		2219	1.6	49		2256	1.2	37		2257	1.0	30
7 W	0237	4.1	125	22 Th	0300	3.7	113	7 Sa	0338	3.9	119	22 Su	0400	3.1	94	7 M	0441	3.2	98	22 Tu	0438	2.7	82
	0940	-0.2	-6		1033	0.1	3		1116	-0.2	-6		1132	0.3	9		1149	0.0	0		1121	0.2	6
	1618	3.5	107		1659	2.9	88		1805	2.9	88		1805	2.7	82		1824	2.8	85		1749	2.8	85
	2129	1.5	46		2143	1.8	55		2253	1.7	52		2314	1.6	49		2314	1.6	49		2351	0.9	27
8 Th	0310	4.1	125	23 F	0331	3.5	107	8 Su	0433	3.6	110	23 M	0450	2.8	85	8 Tu	0007	1.0	30	23 W	0534	2.4	73
	1026	-0.1	-3		1121	0.4	12		1218	0.1	3		1219	0.6	18		0555	2.8	85		1159	0.5	15
	1710	3.3	101		1749	2.7	82		1908	2.8	85		1856	2.7	82		1240	0.5	15		1825	2.8	85
	2207	1.7	52		2222	1.9	58		●	2014	2.9		88	●	1951		2.7	82	○		1912	2.8	85
9 F	0349	4.0	122	24 Sa	0409	3.3	101	9 M	0008	1.7	52	24 Tu	0026	1.6	49	9 W	0129	0.8	24	24 Th	0055	0.8	24
	1122	0.1	3		1218	0.7	21		0548	3.2	98		0601	2.6	79		0734	2.5	76		0651	2.2	67
	1814	3.0	91		1852	2.6	79		1327	0.5	15		1312	0.8	24		1336	1.0	30		1246	0.8	24
	2254	1.9	58		2317	2.0	61		●	2014	2.9		88	○	1951		2.7	82	○		1905	2.7	82
10 Sa	0437	3.9	119	25 Su	0459	3.0	91	10 Tu	0141	1.5	46	25 W	0152	1.4	43	10 Th	0254	0.4	12	25 F	0210	0.6	18
	1234	0.3	9		1328	0.9	27		0736	2.9	88		0745	2.4	73		0926	2.3	70		0833	2.1	64
	1935	2.8	85		2011	2.6	79		1438	0.7	21		1411	1.0	30		1438	1.4	43		1344	1.1	34
	●				○				2113	3.0	91		2043	2.7	82		2059	3.0	91		1951	2.7	82
11 Su	0001	2.1	64	26 M	0046	2.1	64	11 W	0313	1.1	34	26 Th	0313	1.1	34	11 F	0409	0.0	0	26 Sa	0325	0.3	9
	0543	3.6	110		0631	2.7	82		0930	2.9	88		0929	2.4	73		1056	2.4	73		1011	2.2	67
	1400	0.5	15		1441	1.0	30		1543	1.0	30		1510	1.1	34		1542	1.6	49		1452	1.4	43
	2101	2.9	88		2122	2.7	82		2202	3.2	98		2129	2.9	88		2152	3.1	94		2045	2.8	85
12 M	0138	2.1	64	27 Tu	0242	1.9	58	12 Th	0426	0.5	15	27 F	0416	0.7	21	12 Sa	0511	-0.4	-12	27 Su	0432	-0.1	-3
	0727	3.3	101		0856	2.7	82		1054	3.0	91		1044	2.6	79		1159	2.6	79		1125	2.5	76
	1522	0.5	15		1544	1.0	30		1638	1.2	37		1605	1.3	40		1641	1.7	52		1601	1.6	49
	2207	3.1	94		2212	2.9	88		2245	3.4	104		2208	3.0	91		2243	3.2	98		2143	2.9	88
13 Tu	0320	1.7	52	28 W	0406	1.5	46	13 F	0523	0.0	0	28 Sa	0507	0.2	6	13 Su	0603	-0.6	-18	28 M	0530	-0.6	-18
	0928	3.3	101		1021	2.9	88		1156	3.2	98		1142	2.9	88		1247	2.7	82		1223	2.7	82
	1629	0.6	18		1633	1.1	34		1725	1.4	43		1654	1.4	43		1732	1.7	52		1703	1.6	49
	2255	3.3	101		2249	3.0	91		2323	3.5	107		2244	3.1	94		2330	3.3	101		2239	3.1	94
14 W	0437	1.2	37	29 Th	0459	1.1	34	14 Sa	0612	-0.4	-12	29 Su	0552	-0.2	-6	14 M	0649	-0.8	-24	29 Tu	0622	-0.9	-27
	1053	3.5	107		1117	3.1	94		1246	3.3	101		1232	3.1	94		1327	2.8	85		1313	2.9	88
	1722	0.7	21		1713	1.1	34		1806	1.5	46		1739	1.4	43		1816	1.6	49		1757	1.6	49
	2334	3.5	107		2318	3.2	98		2359	3.7	113		2320	3.3	101		2320	3.3	101		2334	3.3	101
15 Th	0536	0.7	21	30 F	0540	0.7	21	15 Su	0657	-0.6	-18	30 M	0635	-0.6	-18	15 Tu	0013	3.3	101	30 W	0710	-1.3	-40
	1156	3.7	113		1202	3.3	101		1330	3.3	101		1318	3.2	98		0730	-0.8	-24		1357	3.1	94
	1806	0.8	24		1748	1.1	34		1842	1.5	46		1820	1.5	46		1402	2.9	88		1846	1.5	46
					2345	3.4	104						2357	3.5	107		1856	1.5	46				
			31 Sa	0618	0.3	9										31 Th	0026	3.6					

Apalachicola, Florida, 2009

Times and Heights of High and Low Waters

January					February					March																			
Time		Height			Time		Height			Time		Height			Time		Height												
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm		h	m	ft	cm										
1 Th	0031	0.6	18		16 F	0140	0.2	6		1 Su	0143	0.0	0		16 M	0313	-0.1	-3		1 Su	0020	-0.1	-3		16 M	0120	-0.1	-3	
	0535	1.1	34			0717	0.9	27			0811	0.8	24			1917	1.4	43			0717	1.0	30			0844	1.1	34	
	1233	-0.2	-6			1320	0.2	6			1237	0.5	15			0313	-0.1	-3			1142	0.7	21			1203	1.0	30	
	1932	1.2	37			1932	1.2	37			1905	1.4	43			1917	1.4	43			1738	1.5	46			1748	1.5	46	
2 F	0125	0.5	15		17 Sa	0250	0.1	3		2 M	0253	-0.1	-3		17 Tu	0435	-0.2	-6		2 M	0114	-0.2	-6		17 Tu	0221	-0.1	-3	
	0636	1.0	30			0845	0.7	21			1013	0.7	21			2000	1.3	40			0847	1.0	30			1016	1.1	34	
	1259	0.0	0			1335	0.4	12			1243	0.6	18			0435	-0.2	-6			1156	0.9	27			1228	1.0	30	
	1952	1.2	37			1954	1.3	40			1935	1.4	43			1917	1.4	43			1808	1.6	49			1828	1.5	46	
3 Sa	0227	0.3	9		18 Su	0406	-0.1	-3		3 Tu	0426	-0.3	-9		18 W	0553	-0.2	-6		3 Tu	0228	-0.2	-6		18 W	0339	0.0	0	
	0754	0.8	24			1055	0.7	21			2014	1.4	43			2059	1.3	40			1847	1.6	49			1921	1.4	43	
	1327	0.2	6			1333	0.6	18			0426	-0.3	-9			0553	-0.2	-6			0228	-0.2	-6			0339	0.0	0	
	2015	1.3	40			2021	1.3	40			2014	1.4	43			2059	1.3	40			1847	1.6	49			1921	1.4	43	
4 Su	0340	0.1	3		19 M	0522	-0.2	-6		4 W	0559	-0.4	-12		19 Th	0658	-0.3	-9		4 W	0409	-0.2	-6		19 Th	0501	0.0	0	
	0941	0.7	21			2056	1.3	40			2109	1.4	43			1518	1.1	34			1939	1.5	46			1312	1.1	34	
	1353	0.5	15			0522	-0.2	-6			0559	-0.4	-12			1738	1.0	30			0409	-0.2	-6			1540	1.0	30	
	2041	1.3	40			2056	1.3	40			2109	1.4	43			2217	1.2	37			1939	1.5	46			2032	1.3	40	
5 M	0459	-0.1	-3		20 Tu	0630	-0.4	-12		5 Th	0713	-0.6	-18		20 F	0751	-0.3	-9		5 Th	0545	-0.3	-9		20 F	0609	0.0	0	
	2112	1.4	43			2141	1.3	40			2224	1.4	43			1526	1.1	34			2055	1.5	46			1340	1.2	37	
	0459	-0.1	-3			2141	1.3	40			0713	-0.6	-18			1905	0.9	27			0545	-0.3	-9			1737	1.0	30	
	2112	1.4	43			2141	1.3	40			2224	1.4	43			2341	1.2	37			2055	1.5	46			2202	1.3	40	
6 Tu	0613	-0.3	-9		21 W	0729	-0.5	-15		6 F	0813	-0.7	-21		21 Sa	0834	-0.3	-9		6 F	0657	-0.4	-12		21 Sa	0702	0.0	0	
	2151	1.4	43			2238	1.3	40			1642	1.2	37			1543	1.1	34			1528	1.2	37			1404	1.2	37	
	0613	-0.3	-9			2238	1.3	40			1900	1.1	34			2000	0.8	24			1752	1.1	34			1849	0.9	27	
	2151	1.4	43			2238	1.3	40			2351	1.5	46			0834	-0.3	-9			2236	1.4	43			2334	1.3	40	
7 W	0719	-0.6	-18		22 Th	0820	-0.5	-15		7 Sa	0904	-0.7	-21		22 Su	0052	1.3	40		7 Sa	0755	-0.4	-12		22 Su	0746	0.0	0	
	2243	1.5	46			1629	1.1	34			1648	1.1	34			0910	-0.3	-9			1526	1.2	37			1423	1.2	37	
	0719	-0.6	-18			1913	1.0	30			2010	1.0	30			1559	1.1	34			1917	1.0	30			1941	0.8	24	
	2243	1.5	46			2344	1.3	40			0904	-0.7	-21			2044	0.7	21			0755	-0.4	-12			1423	1.2	37	
8 Th	0818	-0.8	-24		23 F	0904	-0.6	-18		8 Su	0111	1.5	46		23 M	0151	1.3	40		8 Su	0016	1.4	43		23 M	0051	1.3	40	
	2345	1.5	46			1644	1.1	34			0949	-0.7	-21			0940	-0.2	-6			0843	-0.3	-9			0822	0.1	3	
	0818	-0.8	-24			2013	0.9	27			1700	1.1	34			1611	1.1	34			1536	1.2	37			1439	1.2	37	
	2345	1.5	46			2013	0.9	27			2104	0.8	24			2121	0.6	18			2014	0.8	24			2023	0.6	18	
9 F	0912	-0.9	-27		24 Sa	0047	1.3	40		9 M	0221	1.5	46		24 Tu	0242	1.3	40		9 M	0138	1.4	43		24 Tu	0155	1.3	40	
	1734	1.2	37			0941	-0.6	-18			1027	-0.6	-18			1004	-0.1	-3			0923	-0.2	-6			0852	0.2	6	
	2003	1.1	34			1701	1.1	34			1711	1.1	34			1621	1.2	37			1546	1.2	37			1452	1.3	40	
	0912	-0.9	-27			2058	0.9	27			2152	0.6	18			2156	0.5	15			2102	0.5	15			2100	0.4	12	
10 Sa	0053	1.6	49		25 Su	0143	1.3	40		10 Tu	0323	1.5	46		25 W	0330	1.3	40		10 Tu	0246	1.4	43		25 W	0252	1.3	40	
	1001	-0.9	-27			1013	-0.5	-15			1100	-0.4	-12			1024	0.0	0			0956	0.0	0			0919	0.3	9	
	1755	1.2	37			1717	1.1	34			1722	1.1	34			1630	1.2	37			1556	1.2	37			1502	1.3	40	
	2101	1.1	34			2137	0.8	24			2239	0.4	12			2228	0.3	9			2146	0.3	9			2134	0.2	6	
11 Su	0200	1.6	49		26 M	0232	1.3	40		11 W	0421	1.4	43		26 Th	0419	1.3	40		11 W	0345	1.4	43		26 Th	0346	1.4	43	
	1046	-0.9	-27			1039	-0.5	-15			1127	-0.2	-6			1042	0.1	3			1024	0.2	6			0943	0.5	15	
	1815	1.1	34			1730	1.1	34			1732	1.1	34			1641	1.3	40			1605	1.2	37			1514	1.4	43	
	2153	0.9	27			2213	0.7	21			2326	0.2	6			2302	0.2	6			2228	0.1	3			2207	0.0	0	
12 M	0304	1.5	46		27 Tu	0318	1.3	40		12 Th	0518	1.2	37		27 F	0511	1.2	37		12 Th	0441	1.4	43		27 F	0441	1.4	43	
	1126	-0.8	-24			1059	-0.4	-12			1150	0.1	3			1101	0.3	9			1046	0.4	12			1006	0.7	21	
	1832	1.1	34			1741	1.1	34			1743	1.2	37			1655	1.3	40			1616	1.3	40			1530	1.5	46	
	2245	0.7	21			2248	0.6	18			0518	1.2	37			2338	0.0	0			2309	0.0	0			2242	-0.1	-3	
13 Tu	0404	1.5	46		28 W	0404	1.2	37		13 F	0014	0.1	3		28 Sa	0609	1.1	34		13 F	0535	1.3	40		28 Sa	0539	1.3	40	
	1202	-0.6	-18			1117	-0.3	-9			0617	1.1	34			1121	0.5	15			1105	0.6	18			1029	0.9	27	
	1846	1.0	30			1752	1.1	34			1208	0.3	9			1714	1.4	43			1630	1.4	43			1550	1.6	49	
	2339	0.6	18			2325	0.4	12			1758	1.3	40			0609	1.1	34			2349	-0.1	-3			2321	-0.2	-6	
14 W	0504	1.3	40		29 Th	0452	1.1	34		14 Sa	0105	0.0	0		14 Sa	0631	1.2	37		14									

Apalachicola, Florida, 2009

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 W	0224	-0.2	-6		16 Th	0242	0.1	3	1 F	0329	-0.1	-3	16 Sa	0234	0.2	6	1 M	0422	0.6	18	16 Tu	0236	0.6	18				
	1820	1.7	52			1035	1.3	40			1120	1.3		40		1001		1.4	43			1035	1.5	46		0931	1.6	49
						1408	1.2	37			1511	1.2		37		1533		1.0	30			1757	0.4	12		1712	0.4	12
						1854	1.4	43		☉	1943	1.5		46		1948		1.3	40							2301	1.0	30
2 Th	0355	-0.2	-6		17 F	0350	0.1	3	2 Sa	0435	0.1	3	17 Su	0320	0.3	9	2 Tu	0008	1.1	34	17 W	0312	0.8	24				
	1930	1.6	49			1124	1.3	40			1146	1.3		40		1030		1.4	43			0506	0.8	24		0957	1.6	49
						1551	1.1	34		☉	1656	1.0		30		1651		0.8	24			1058	1.5	46		1813	0.2	6
						2009	1.3	40			2133	1.3		40		2120		1.1	34			1857	0.1	3				
3 F	0518	-0.1	-3		18 Sa	0453	0.2	6	3 Su	0534	0.3	9	18 M	0407	0.4	12	3 W	0215	1.2	37	18 Th	0120	1.1	34				
	1336	1.3	40			1201	1.3	40			1207	1.3		40		1056		1.5	46			0550	1.1	34		0352	1.0	30
	1636	1.2	37			1721	1.0	30			1812	0.7		21		1754		0.6	18			1121	1.6	49		1025	1.7	52
	2108	1.4	43			2142	1.2	37			2335	1.2		37		2305		1.1	34			1950	-0.1	-3		1908	0.0	0
4 Sa	0625	-0.1	-3		19 Su	0547	0.3	9	4 M	0625	0.5	15	19 Tu	0456	0.6	18	4 Th	0345	1.3	40	19 F	1059	1.8	55				
	1345	1.3	40			1229	1.3	40			1226	1.4		43		0636		1.2	37			2001	-0.3	-9				
	1815	1.0	30			1826	0.8	24			1912	0.4		12		1148		1.7	52									
	2305	1.4	43			2320	1.2	37			2003	0.2		6		1932		0.1	3			2037	-0.2	-6				
5 Su	0720	0.0	0		20 M	0634	0.4	12	5 Tu	0124	1.2	37	20 W	0051	1.1	34	5 F	0447	1.4	43	20 Sa	1141	1.8	55				
	1359	1.3	40			1252	1.4	43			0710	0.7		21		0546		0.8	24			0724	1.3	40		2053	-0.4	-12
	1919	0.7	21			1917	0.6	18			1244	1.4		43		1142		1.6	49			1218	1.7	52				
											2003	0.2		6		1932		0.1	3			2120	-0.3	-9				
6 M	0048	1.4	43		21 Tu	0047	1.2	37	6 W	0249	1.3	40	21 Th	0224	1.2	37	6 Sa	0530	1.4	43	21 Su	1231	1.9	58				
	0805	0.2	6			0715	0.5	15			0748	0.9		27		0636		1.0	30			0811	1.3	40		2143	-0.6	-18
	1412	1.3	40			1310	1.4	43			1301	1.5		46		1205		1.6	49			1253	1.7	52				
	2011	0.5	15			1959	0.4	12			2048	0.0		0		2015		-0.1	-3			2200	-0.3	-9				
7 Tu	0209	1.4	43		22 W	0203	1.3	40	7 Th	0357	1.4	43	22 F	0344	1.4	43	7 Su	0603	1.5	46	22 M	0613	1.6	49				
	0843	0.4	12			0752	0.7	21			0823	1.1		34		0725		1.2	37			0854	1.4	43		0826	1.5	46
	1424	1.3	40			1326	1.5	46			1319	1.6		49		1232		1.7	52			1332	1.7	52		1327	2.0	61
	2057	0.2	6			2037	0.2	6			2129	-0.2		-6		2059		-0.3	-9			2237	-0.3	-9	☉	2232	-0.6	-18
8 W	0316	1.4	43		23 Th	0310	1.4	43	8 F	0454	1.4	43	23 Sa	0452	1.5	46	8 M	0630	1.5	46	23 Tu	0646	1.6	49				
	0914	0.6	18			0826	0.8	24			0853	1.2		37		0811		1.4	43			0935	1.4	43		0922	1.5	46
	1435	1.4	43			1342	1.5	46			1340	1.6		49		1304		1.8	55			1415	1.7	52		1426	2.0	61
	2138	0.0	0			2114	-0.1	-3		☉	2207	-0.3		-9		2144		-0.5	-15			2310	-0.3	-9		2320	-0.6	-18
9 Th	0414	1.4	43		24 F	0412	1.4	43	9 Sa	0542	1.4	43	24 Su	0553	1.6	49	9 Tu	0653	1.4	43	24 W	0712	1.5	46				
	0941	0.8	24			0858	1.0	30			0922	1.3		40		0852		1.5	46			1016	1.3	40		1017	1.4	43
	1448	1.5	46			1402	1.6	49			1407	1.7		52		1343		1.9	58			1500	1.7	52		1527	1.9	58
	2216	-0.1	-3	☉		2151	-0.2	-6			2243	-0.3		-9		2232		-0.6	-18			2341	-0.2	-6				
10 F	0508	1.4	43		25 Sa	0514	1.5	46	10 Su	0624	1.4	43	25 M	0650	1.6	49	10 W	0715	1.4	43	25 Th	0005	-0.4	-12				
	1003	0.9	27			0929	1.2	37			0951	1.3		40		0932		1.5	46			1100	1.3	40		0734	1.5	46
	1505	1.6	49			1427	1.7	52			1438	1.7		52		1429		1.9	58			1546	1.6	49		1118	1.3	40
	2253	-0.2	-6			2232	-0.4	-12			2318	-0.2		-6		2322		-0.6	-18						1630	1.8	55	
11 Sa	0559	1.4	43		26 Su	0616	1.5	46	11 M	0703	1.4	43	26 Tu	0741	1.5	46	11 Th	0009	-0.1	-3	26 F	0046	-0.2	-6				
	1024	1.0	30			0958	1.3	40			1025	1.3		40		1016		1.4	43			0737	1.4	43		0753	1.4	43
	1526	1.6	49			1458	1.8	55			1515	1.7		52		1520		1.9	58			1148	1.2	37		1224	1.1	34
	2329	-0.2	-6			2318	-0.4	-12			2353	-0.2		-6								1634	1.6	49		1735	1.7	52
12 Su	0649	1.3	40		27 M	0722	1.5	46	12 Tu	0739	1.4	43	27 W	0014	-0.5	-15	12 F	0036	-0.1	-3	27 Sa	0124	0.0	0				
	1047	1.1	34			1027	1.4	43			1105	1.3		40		0825		1.5	46			0759	1.4	43		0810	1.4	43
	1554	1.6	49			1536	1.8	55			1557	1.7		52		1110		1.4	43			1243	1.1	34		1338	0.9	27
																1617		1.9	58			1725	1.5	46		1847	1.4	43
13 M	0006	-0.2	-6		28 Tu	0010	-0.4	-12	13 W	0030	-0.1	-3	28 Th	0107	-0.4	-12	13 Sa	0103	0.1	3	28 Su	0158	0.3	9				
	0741	1.3	40			0833	1.4	43			0816	1.4		43		0859		1.4	43			0821	1.5	46		0829	1.5	46
	1115	1.2	37			1059	1.3	40			1154	1.2		37		1219		1.3	40			1346	1.0	30		1457	0.7	21
	1628	1.6	49			1621	1.8	55			1644	1.6		49		1720		1.7	52			1824	1.3	40		2014	1.2	37
14 Tu	0049	-0.1	-3		29 W	0111	-0.3	-9	14 Th	0109	0.0	0	29 F	0159	-0.2	-6	14 Su	0131	0.2	6	29 M	0227	0.6	18				
	0837	1.3	40			1714	1.8	55			0853	1.4		43		0927		1.4	43			0844	1.5	46		0849	1.6	49
	1153	1.2	37								1254	1.2		37		1345		1.2	37			1454	0.9	27		1618	0.4	12
	1708	1.6	49								1735	1.5		46		1833		1.5	46			1934	1.2	37	☉	2209	1.1	34
15 W	0140	0.0	0		30 Th	0219	-0.2	-6	15 F	0150	0.0	0	30 Sa	024														

Apalachicola, Florida, 2009

Times and Heights of High and Low Waters

July				August				September																					
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height																
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm															
1 W	0940	1.7	52		16 Th	0141	1.0	30		1 Sa	1023	1.8	55		16 Su	0957	2.0	61		1 Tu	0315	1.6	49		16 W	0302	1.6	49	
	1837	0.0	0			0847	1.8	55			2005	0.0	0			1944	-0.1	-3			0740	1.3	40			0742	1.2	37	
						1742	0.1	3														1247	1.8	55			1311	1.9	58
																						2054	0.3	9			2054	0.3	9
2 Th	1013	1.7	52		17 F	0925	1.9	58		2 Su	0416	1.5	46		17 M	1122	2.0	61		2 W	0331	1.6	49		17 Th	0313	1.6	49	
	1934	-0.1	-3			1852	-0.1	-3			0643	1.4	43			2037	-0.2	-6			0825	1.2	37			0833	1.0	30	
											1133	1.8	55									1345	1.8	55			1423	1.9	58
											2050	-0.1	-3									2124	0.3	9			2130	0.5	15
3 F	1054	1.7	52		18 Sa	1015	1.9	58		3 M	0428	1.5	46		18 Tu	0421	1.6	49		3 Th	0344	1.6	49		18 F	0324	1.6	49	
	2024	-0.2	-6			1954	-0.3	-9			0749	1.4	43			0733	1.5	46			0904	1.0	30			0920	0.7	21	
											1239	1.8	55			1244	2.0	61			1435	1.8	55			1526	1.9	58	
											2129	0.0	0			2122	-0.1	-3			2148	0.5	15		●	2201	0.7	21	
4 Sa	1142	1.7	52		19 Su	1117	1.9	58		4 Tu	0444	1.5	46		19 W	0433	1.6	49		4 F	0354	1.6	49		19 Sa	0334	1.7	52	
	2109	-0.3	-9			2049	-0.4	-12			0838	1.3	40			0832	1.3	40			0939	0.9	27			1004	0.5	15	
											1336	1.8	55			1357	2.0	61			1521	1.8	55			1625	1.8	55	
											2201	0.0	0			2203	0.0	0		○	2207	0.6	18			2226	0.9	27	
5 Su	0522	1.5	46		20 M	1227	2.0	61		5 W	0458	1.5	46		20 Th	0444	1.5	46		5 Sa	0403	1.7	52		20 Su	0347	1.8	55	
	0753	1.4	43			2138	-0.5	-15			0919	1.2	37			0923	1.1	34			1011	0.8	24			1047	0.4	12	
	1234	1.7	52								1425	1.8	55		●	1502	2.0	61			1608	1.7	52			1723	1.8	55	
	2150	-0.3	-9								2227	0.1	3			2238	0.2	6			2224	0.7	21			2248	1.1	34	
6 M	0540	1.5	46		21 Tu	0540	1.6	49		6 Th	0510	1.5	46		21 F	0454	1.6	49		6 Su	0414	1.7	52		21 M	0403	1.9	58	
	0845	1.4	43			0826	1.5	46			0957	1.1	34			1012	0.9	27			1043	0.6	18			1130	0.3	9	
	1326	1.7	52		●	1336	2.0	61			1511	1.8	55			1603	1.9	58			1657	1.7	52			1822	1.7	52	
	2225	-0.2	-6			●	2224	-0.4	-12			2248	0.2	6			2307	0.4	12			2241	0.9	27			2307	1.3	40
7 Tu	0557	1.5	46		22 W	0556	1.5	46		7 F	0520	1.6	49		22 Sa	0505	1.6	49		7 M	0428	1.8	55		22 Tu	0424	1.9	58	
	0929	1.3	40			0923	1.4	43			1033	1.0	30			1101	0.7	21			1116	0.5	15			1215	0.2	6	
	1415	1.7	52			1441	2.0	61			1555	1.7	52			1702	1.8	55			1752	1.6	49			1925	1.6	49	
	2255	-0.2	-6			2305	-0.3	-9			2304	0.3	9			2332	0.6	18			2300	1.0	30			2326	1.4	43	
8 W	0613	1.5	46		23 Th	0611	1.5	46		8 Sa	0529	1.6	49		23 Su	0517	1.7	52		8 Tu	0447	1.9	58		23 W	0452	2.0	61	
	1010	1.2	37			1017	1.2	37			1109	0.9	27			1151	0.5	15			1154	0.4	12			1306	0.3	9	
	1502	1.7	52			1544	1.9	58			1642	1.6	49			1804	1.7	52			1855	1.6	49			2038	1.5	46	
	2320	-0.1	-3			2341	-0.1	-3			2319	0.4	12			2352	0.9	27			2321	1.2	37			2349	1.4	43	
9 Th	0626	1.5	46		24 F	0624	1.5	46		9 Su	0541	1.7	52		24 M	0533	1.8	55		9 W	0511	2.0	61		24 Th	0526	1.9	58	
	1050	1.2	37			1113	1.0	30			1145	0.8	24			1244	0.4	12			1241	0.3	9			1409	0.3	9	
	1548	1.7	52			1645	1.8	55			1733	1.5	46			1912	1.5	46			2016	1.5	46			2208	1.5	46	
	2341	0.0	0								2337	0.6	18								2340	1.3	40						
10 F	0640	1.5	46		25 Sa	0013	0.1	3		10 M	0557	1.7	52		25 Tu	0009	1.1	34		10 Th	0542	2.0	61		25 F	0020	1.4	43	
	1132	1.1	34			0636	1.5	46			1226	0.6	18			0554	1.9	58			1347	0.3	9			0609	1.9	58	
	1634	1.6	49			1211	0.8	24			1832	1.4	43			1344	0.4	12						○		1527	0.4	12	
	2359	0.1	3			1749	1.6	49			2358	0.8	24			2034	1.4	43											
11 Sa	0654	1.5	46		26 Su	0040	0.4	12		11 Tu	0616	1.8	55		26 W	0023	1.2	37		11 F	0621	2.0	61		26 Sa	0706	1.8	55	
	1218	1.0	30			0651	1.6	49			1314	0.5	15			0622	1.9	58			1522	0.3	9			1645	0.4	12	
	1724	1.5	46			1314	0.6	18			1946	1.3	40			1455	0.4	12			○								
						1900	1.4	43																					
12 Su	0018	0.2	6		27 M	0102	0.7	21		12 W	0019	1.0	30		27 Th	0657	1.9	58		12 Sa	0712	2.0	61		27 Su	0037	1.5	46	
	0710	1.6	49			0708	1.7	52			0641	1.9	58			1617	0.3	9			1704	0.2	6			0340	1.4	43	
	1307	0.8	24			1424	0.5	15			1416	0.4	12		○											0822	1.7	52	
	1822	1.3	40			2025	1.3	40			2129	1.3	40													1750	0.4	12	
13 M	0041	0.4	12		28 Tu	0118	0.9	27		13 Th	0034	1.2	37		28 F	0743	1.9	58		13 Su	0826	1.9	58		28 M	0107	1.6	49	
	0729	1.6	49			0730	1.7	52			0711	1.9	58			1735	0.3	9			1821	0.2	6			0523	1.4	43	
	1403	0.7	21		○	1540	0.4	12			1543	0.3	9													0957	1.6	49	
	1933	1.2	37			2226	1.2	37																		1844	0.4	12	
14 Tu	0105	0.6	18		29 W																								

Apalachicola, Florida, 2009

Times and Heights of High and Low Waters

October				November				December																					
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height																
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm															
1 Th	0209	1.6	49		16 F	0150	1.6	49		1 Su	0116	1.7	52		16 M	0117	1.7	52		1 Tu	0042	1.6	49		16 W	0120	1.5	46	
	0807	0.9	27			0831	0.5	15			0858	0.0	0			0951	-0.3	-9			0926	-0.6	-18			1025	-0.6	-18	
	1349	1.7	52			1456	1.7	52			1601	1.5	46			1732	1.5	46			1732	1.4	43			1811	1.2	37	
	2033	0.7	21			2049	0.9	27			2036	1.2	37			2108	1.3	40			2036	1.3	40			2131	1.1	34	
2 F	0222	1.7	52		17 Sa	0204	1.7	52		2 M	0137	1.7	52		17 Tu	0147	1.7	52		2 W	0122	1.7	52		17 Th	0207	1.5	46	
	0844	0.7	21			0915	0.2	6			0933	-0.1	-3			1029	-0.3	-9			1011	-0.6	-18			1100	-0.5	-15	
	1444	1.7	52			1559	1.7	52			1658	1.6	49			1814	1.4	43			1822	1.4	43			1833	1.2	37	
	2059	0.8	24			2118	1.1	34			2107	1.3	40			2140	1.3	40			2116	1.3	40			2210	1.0	30	
3 Sa	0234	1.7	52		18 Su	0219	1.7	52		3 Tu	0202	1.8	55		18 W	0221	1.7	52		3 Th	0208	1.8	55		18 F	0253	1.4	43	
	0918	0.5	15			0956	0.1	3			1011	-0.2	-6			1107	-0.3	-9			1058	-0.7	-21			1131	-0.5	-15	
	1537	1.7	52			1656	1.7	52			1756	1.6	49			1851	1.4	43			1907	1.4	43			1852	1.2	37	
	2122	1.0	30			2144	1.2	37			2136	1.4	43			2214	1.3	40			2157	1.3	40			2251	1.0	30	
4 Su	0246	1.8	55		19 M	0238	1.8	55		4 W	0233	1.9	58		19 Th	0300	1.7	52		4 F	0259	1.8	55		19 Sa	0340	1.4	43	
	0950	0.4	12			1035	0.0	0			1053	-0.3	-9			1143	-0.3	-9			1146	-0.6	-18			1158	-0.4	-12	
	1629	1.7	52			1750	1.6	49			1856	1.6	49			1925	1.4	43			1947	1.3	40			1911	1.2	37	
	2144	1.1	34			2207	1.3	40			2205	1.5	46			2253	1.2	37			2246	1.2	37			2335	0.9	27	
5 M	0302	1.8	55		20 Tu	0302	1.9	58		5 Th	0311	1.9	58		20 F	0344	1.6	49		5 Sa	0355	1.7	52		20 Su	0428	1.3	40	
	1022	0.2	6			1114	0.0	0			1142	-0.3	-9			1220	-0.2	-6			1235	-0.5	-15			1223	-0.3	-9	
	1723	1.7	52			1842	1.6	49			1959	1.5	46			1957	1.3	40			2020	1.3	40			1930	1.2	37	
	2206	1.2	37			2231	1.4	43			2237	1.4	43			2340	1.2	37			2346	1.1	34						
6 Tu	0323	1.9	58		21 W	0331	1.9	58		6 F	0355	1.9	58		21 Sa	0431	1.6	49		6 Su	0456	1.6	49		21 M	0024	0.8	24	
	1057	0.1	3			1154	0.0	0			1238	-0.3	-9			1258	-0.1	-3			1324	-0.4	-12			1218	1.2	37	
	1822	1.7	52			1934	1.6	49			2104	1.5	46			2030	1.3	40			2048	1.2	37			1546	-0.2	-6	
	2228	1.4	43			2300	1.4	43			2320	1.4	43											1950		1.2	37		
7 W	0349	2.0	61		22 Th	0407	1.9	58		7 Sa	0447	1.9	58		22 Su	0038	1.1	34		7 M	0103	1.0	30		22 Tu	0121	0.7	21	
	1139	0.1	3			1239	0.1	3			1341	-0.2	-6			0524	1.5	46			0605	1.4	43			0614	1.1	34	
	1930	1.6	49			2027	1.5	46			2200	1.4	43			1336	0.0	0			1411	-0.1	-3			1310	0.0	0	
	2251	1.5	46			2339	1.4	43								2101	1.3	40			2112	1.2	37			2011	1.2	37	
8 Th	0422	2.0	61		23 F	0449	1.8	55		8 Su	0033	1.3	40		23 M	0149	1.0	30		8 Tu	0232	0.8	24		23 W	0224	0.5	15	
	1232	0.1	3			1331	0.2	6			0549	1.7	52			0623	1.3	40			0727	1.2	37			0721	0.9	27	
	2056	1.6	49			2122	1.5	46			1448	0.0	0			1416	0.1	3			1457	0.1	3			1336	0.1	3	
	2311	1.5	46								2239	1.4	43			2131	1.3	40			2134	1.2	37			2034	1.3	40	
9 F	0502	2.0	61		24 Sa	0036	1.4	43		9 M	0225	1.3	40		24 Tu	0310	0.9	27		9 W	0403	0.5	15		24 Th	0334	0.3	9	
	1342	0.1	3			0539	1.7	52			0708	1.5	46			0736	1.2	37			0914	1.0	30			0846	0.8	24	
						1431	0.3	9			1553	0.1	3			1457	0.3	9			1541	0.4	12			1405	0.3	9	
						2214	1.5	46			2307	1.4	43			2159	1.4	43			2157	1.3	40			2058	1.3	40	
10 Sa	0552	2.0	61		25 Su	0159	1.3	40		10 Tu	0416	1.1	34		25 W	0429	0.7	21		10 Th	0524	0.2	6		25 F	0444	0.1	3	
	1511	0.2	6			0640	1.6	49			0853	1.4	43			0907	1.0	30			1133	0.9	27			1041	0.7	21	
						1535	0.3	9			1654	0.3	9			1540	0.4	12			1626	0.7	21			1435	0.5	15	
						2257	1.5	46			2330	1.4	43			2225	1.4	43			2221	1.3	40			2124	1.3	40	
11 Su	0658	1.9	58		26 M	0339	1.3	40		11 W	0540	0.8	24		26 Th	0535	0.5	15		11 F	0631	-0.1	-3		26 Sa	0550	-0.1	-3	
	1636	0.2	6			0759	1.5	46			1057	1.3	40			1054	1.0	30			1402	1.0	30			2155	1.4	43	
						1634	0.4	12			1749	0.6	18			1627	0.6	18			1715	0.9	27						
						2332	1.5	46			2350	1.4	43			2250	1.4	43			2248	1.4	43						
12 M	0053	1.6	49		27 Tu	0505	1.1	34		12 Th	0644	0.5	15		27 F	0630	0.3	9		12 Sa	0728	-0.3	-9		27 Su	0649	-0.3	-9	
	0353	1.5	46			0934	1.4	43			1256	1.3	40			1243	1.0	30			1539	1.1	34			2231	1.4	43	
	0833	1.7	52			1727	0.5	15			1838	0.8	24			1717	0.8	24			1811	1.0	30						
	1747	0.3	9			2359	1.5	46								2314	1.5	46			2319	1.4	43						
13 Tu	0106	1.5	46		28 W	0610	0.9	27		13 F	0010	1.5	46		28 Sa	0717	0.0	0		13 Su	0819	-0.5	-15		28 M	0743	-0.5	-15	
	0541	1.3	40			1114	1.3	40			0738	0.2	6			1419	1.1	34			1637	1.2	37			2316	1.5	46	
	1028	1.6	49			1813	0.6	18			1430	1.3	40			1811	1.0	30			1910	1.1	34						
	1845	0.4	12								1921	1.0	30			2339	1.5	46			2355	1.5	46						
14 W	0122	1.5	46		29 Th	0022	1.5	46		14 Sa	0030	1.5	46		29 Su	0800	-0.2	-6		14 M	0904	-0.6	-18		29 Tu	0834	-0.7	-21	
	0649	1.0	30			0701	0.7	21			0826	-0.1	-3			1535	1.2	37			1716	1.							

Pensacola, Florida, 2009

Times and Heights of High and Low Waters

January				February				March																									
Time		Height		Time		Height		Time		Height		Time		Height																			
h	m	ft	cm	h	m	ft	cm	h	m	ft	cm	h	m	ft	cm																		
1	0013	0.9	27	16	0225	0.2	6	1	0010	-0.1	-3	16	0222	-0.4	-12	1	1311	1.0	30	16	0008	-0.3	-9										
Th	1022	-0.3	-9	F	0750	0.1	3	Su	1506	0.8	24	M	1526	1.1	34	Su	2352	-0.3	-9	M	1334	1.3	40										
					1600	0.6	18																										
2	0032	0.6	18	17	0220	-0.1	-3	2	0150	-0.3	-9	17	0342	-0.4	-12	2	1402	1.2	37	17	0144	-0.3	-9										
F	1004	-0.1	-3	Sa	1606	0.8	24	M	1546	1.0	30	Tu	1630	1.1	34	M				Tu	1434	1.2	37										
	1824	0.4	12																														
3	0906	0.1	3	18	0317	-0.4	-12	3	0316	-0.5	-15	18	0449	-0.5	-15	3	0143	-0.4	-12	18	0305	-0.3	-9										
Sa	1714	0.6	18	Su	1635	1.0	30	Tu	1645	1.2	37	W	1742	1.1	34	Tu	1508	1.3	40	W	1542	1.2	37										
4	0257	0.0	0	19	0411	-0.5	-15	4	0433	-0.7	-21	19	0542	-0.5	-15	4	0317	-0.6	-18	19	0402	-0.3	-9										
Su	1704	0.8	24	M	1718	1.0	30	W	1756	1.3	40	Th	1851	1.1	34	W	1625	1.4	43	Th	1653	1.2	37										
5	0328	-0.3	-9	20	0506	-0.6	-18	5	0542	-0.9	-27	20	0624	-0.6	-18	5	0428	-0.7	-21	20	0443	-0.3	-9										
M	1726	1.0	30	Tu	1811	1.1	34	Th	1908	1.4	43	F	1948	1.2	37	Th	1746	1.5	46	F	1800	1.2	37										
6	0424	-0.6	-18	21	0602	-0.7	-21	6	0641	-1.0	-30	21	0654	-0.6	-18	6	0525	-0.7	-21	21	0511	-0.3	-9										
Tu	1810	1.2	37	W	1910	1.1	34	F	2015	1.5	46	Sa	2035	1.2	37	F	1901	1.5	46	Sa	1900	1.2	37										
7	0528	-0.8	-24	22	0653	-0.7	-21	7	0731	-1.0	-30	22	0714	-0.5	-15	7	0611	-0.7	-21	22	0530	-0.2	-6										
W	1907	1.4	43	Th	2006	1.2	37	Sa	2116	1.5	46	Su	2118	1.1	34	Sa	2011	1.4	43	Su	2001	1.0	30										
8	0635	-0.9	-27	23	0737	-0.7	-21	8	0812	-0.9	-27	23	0727	-0.4	-12	8	0646	-0.5	-15	23	0539	0.0	0										
Th	2010	1.5	46	F	2054	1.2	37	Su	2212	1.3	40	M	2202	1.0	30	Su	2118	1.2	37	M	2112	0.9	27										
9	0739	-1.1	-34	24	0811	-0.7	-21	9	0843	-0.7	-21	24	0731	-0.2	-6	9	0708	-0.2	-6	24	0536	0.2	6										
F	2112	1.6	49	Sa	2135	1.2	37	M	2308	1.1	34	Tu	2255	0.8	24	M	2230	1.0	30	Tu	1212	0.5	15										
																					1601	0.4	12										
10	0836	-1.1	-34	25	0835	-0.7	-21	10	0858	-0.4	-12	25	0724	0.0	0	10	0707	0.1	3	25	0514	0.4	12										
Sa	2209	1.6	49	Su	2209	1.2	37	Tu				W	1405	0.3	9	Tu	1254	0.3	9	W	1057	0.6	18										
																					1744	0.2	6										
11	0924	-1.1	-34	26	0851	-0.7	-21	11	0008	0.8	24	26	0004	0.6	18	11	0625	0.4	12	26	0048	0.6	18										
Su	2301	1.5	46	M	2241	1.1	34	W	0843	-0.1	-3	Th	0659	0.2	6	W	1134	0.5	15	Th	0410	0.5	15										
																					1033	0.9	27										
12	1002	-0.9	-27	27	0859	-0.5	-15	12	0125	0.5	15	27	0148	0.4	12	12	1123	0.8	24	27	1037	1.1	34										
M	2350	1.3	40	Tu	2315	0.9	27	Th	0741	0.2	6	F	0558	0.3	9	Th	2012	-0.1	-3	F	1955	-0.1	-3										
13	1025	-0.6	-18	28	0900	-0.4	-12	13	1334	0.7	21	28	1239	0.9	27	13	1138	1.0	30	28	1100	1.3	40										
Tu				W	2357	0.7	21	F	2311	-0.2	-6	Sa	2211	-0.2	-6	F	2126	-0.2	-6	Sa	2105	-0.3	-9										
14	0036	0.9	27	29	0849	-0.2	-6	14	1357	0.9	27					14	1207	1.2	37	29	1141	1.4	43										
W	1025	-0.3	-9	Th				Sa								Sa	2241	-0.2	-6	Su	2230	-0.3	-9										
15	0123	0.6	18	30	0055	0.4	12	15	0052	-0.3	-9	15	1246	1.2	37	15	1246	1.2	37	30	1234	1.5	46										
Th	0943	0.0	0	F	0818	0.0	0	Su	1435	1.0	30					Su				M													
	1649	0.3	9		1509	0.4	12																										
	2307	0.1	3		2201	0.1	3																										
				31	0247	0.2	6														31	0012	-0.4	-12									
				Sa	0654	0.1	3														Tu	1338	1.6	49									
					1450	0.6	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.

Pensacola, Florida, 2009

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	W	0551	1.5	46	16	Th	0504	1.4	43	1	Sa	0700	1.7	52	16	Su	0642	2.0	61	1	Tu	0825	1.7	52	16	W	0855	1.7	52
		1704	-0.1	-3			1611	0.0	0			1847	-0.2	-6			1817	-0.3	-9			1853	0.2	6			1838	0.4	12
2	Th	0627	1.6	49	17	F	0550	1.6	49	2	Su	0759	1.7	52	17	M	0750	2.1	64	2	W	0909	1.6	49	17	Th	1017	1.5	46
		1754	-0.2	-6			1716	-0.2	-6			1930	-0.2	-6			1906	-0.4	-12			1901	0.3	9			1840	0.7	21
																						2346	0.9	27					
3	F	0711	1.7	52	18	Sa	0648	1.8	55	3	M	0847	1.8	55	18	Tu	0853	2.1	64	3	Th	0956	1.5	46	18	F	0423	0.7	21
		1848	-0.3	-9			1822	-0.4	-12			2001	-0.2	-6			1948	-0.3	-9			1859	0.5	15			1200	1.2	37
																						1753	1.0	30					
																						● 2242	1.1	34					
4	Sa	0801	1.7	52	19	Su	0751	2.0	61	4	Tu	0927	1.7	52	19	W	0953	1.9	58	4	F	1052	1.3	40	19	Sa	0625	0.5	15
		1940	-0.3	-9			1923	-0.6	-18			2022	-0.1	-3			2020	0.0	0			1844	0.7	21			2239	1.4	43
																						○							
5	Su	0851	1.7	52	20	M	0852	2.1	64	5	W	1001	1.7	52	20	Th	1054	1.7	52	5	Sa	0042	0.9	27	20	Su	0750	0.4	12
		2027	-0.3	-9			2017	-0.6	-18			2034	0.0	0			2039	0.3	9			0532	0.8	24			2301	1.7	52
																	1209	1.1	34			1809	0.9	27					
																	2359	1.1	34			0709	0.7	21					
6	M	0936	1.7	52	21	Tu	0949	2.1	64	6	Th	1033	1.5	46	21	F	1205	1.4	43	6	Su	1413	1.0	30	21	M	0904	0.2	6
		2103	-0.3	-9			2103	-0.6	-18			2037	0.1	3			2027	0.6	18			1646	0.9	27					
							●										2351	1.3	40			2336	1.8	55					
7	Tu	1013	1.7	52	22	W	1043	2.0	61	7	F	1108	1.4	43	22	Sa	0129	0.8	24	7	M	0824	0.5	15	22	Tu	1021	0.2	6
		2130	-0.3	-9			2140	-0.4	-12			2033	0.3	9			0609	0.7	21										
																	1341	1.1	34										
																	1916	0.9	27										
8	W	1045	1.7	52	23	Th	1135	1.8	55	8	Sa	1152	1.2	37	23	Su	0040	1.1	34	8	Tu	0005	1.5	46	23	W	0020	1.8	55
		2147	-0.3	-9			2205	-0.1	-3			2017	0.5	15			0839	0.5	15			0941	0.4	12			1150	0.2	6
9	Th	1112	1.6	49	24	F	1229	1.5	46	9	Su	0326	0.8	24	24	M	0049	1.4	43	9	W	0039	1.6	49	24	Th	0113	1.8	55
		2157	-0.1	-3			2208	0.2	6			0702	0.7	21			1031	0.4	12			1116	0.3	9			1325	0.2	6
												1257	1.0	30															
												1941	0.7	21															
10	F	1137	1.4	43	25	Sa	1331	1.1	34	10	M	0224	1.0	30	25	Tu	0121	1.6	49	10	Th	0130	1.7	52	25	F	0215	1.8	55
		2159	0.0	0			2128	0.5	15			0933	0.7	21			1213	0.3	9			1307	0.2	6			1444	0.2	6
												1455	0.8	24															
												1814	0.7	21															
11	Sa	1201	1.2	37	26	Su	0350	0.8	24	11	Tu	0215	1.2	37	26	W	0206	1.7	52	11	F	0236	1.9	58	26	Sa	0325	1.8	55
		2152	0.2	6			0959	0.6	18			1125	0.5	15			1351	0.2	6			1444	0.1	3			1540	0.2	6
							1521	0.7	21																				
							1924	0.6	18																				
12	Su	1223	1.0	30	27	M	0316	1.1	34	12	W	0235	1.4	43	27	Th	0303	1.7	52	12	Sa	0352	1.9	58	27	Su	0436	1.7	52
		2130	0.4	12			1300	0.4	12			1311	0.3	9			1520	0.1	3			1557	-0.1	-3			1619	0.2	6
13	M	0536	0.9	27	28	Tu	0330	1.3	40	13	Th	0317	1.5	46	28	F	0412	1.7	52	13	Su	0512	2.0	61	28	M	0542	1.7	52
		2033	0.5	15			1435	0.2	6			1449	0.1	3			1632	0.1	3			1653	-0.1	-3			1644	0.3	9
							○																						
14	Tu	0443	1.0	30	29	W	0406	1.5	46	14	F	0418	1.7	52	29	Sa	0529	1.7	52	14	M	0629	2.0	61	29	Tu	0644	1.6	49
		1440	0.4	12			1546	0.0	0			1611	-0.1	-3			1727	0.1	3			1738	-0.1	-3			1658	0.4	12
15	W	0439	1.2	37	30	Th	0456	1.6	49	15	Sa	0530	1.9	58	30	Su	0639	1.7	52	15	Tu	0741	1.9	58	30	W	0750	1.4	43
		1513	0.2	6			1652	-0.1	-3			1719	-0.2	-6			1808	0.1	3			1814	0.1	3			1700	0.6	18
					31	F	0556	1.7	52	31	M	0737	1.7	52															
							1754	-0.1	-3			1836	0.1	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.

Dauphin Island, Alabama, 2009

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 W	0149	-0.4	-12	46	16 Th	0210	-0.1	-3	37	1 F	0233	-0.3	-9	43	16 Sa	0118	0.0	0	0	1 M	0732	0.8	24	24	16 Tu	0649	0.9	27	9								
2 Th	0304	-0.4	-12	43	17 F	0254	0.0	0	34	2 Sa	0313	-0.1	-3	34	17 Su	0120	0.2	6	27	2 Tu	0647	1.0	30	3	17 W	0616	1.1	34	0								
3 F	0409	-0.4	-12	40	18 Sa	0323	0.0	0	30	3 Su	0324	0.2	6	24	18 M	0059	0.3	9	12	3 W	0656	1.3	40	-3	18 Th	0620	1.3	40	-6								
4 Sa	0503	-0.2	-6	37	19 Su	0337	0.1	3	27	4 M	0230	0.5	15	18	19 Tu	0806	0.8	24	12	4 Th	0721	1.5	46	-6	19 F	0645	1.5	46	-12								
5 Su	0544	0.0	0	30	20 M	0330	0.3	9	21	5 Tu	0914	0.6	15	15	20 W	0728	1.0	30	3	5 F	0753	1.6	49	-9	20 Sa	0724	1.7	52	-15								
6 M	0557	0.2	6	21	21 Tu	0250	0.5	15	12	6 W	1543	0.5	15	0	21 Th	0727	1.3	40	-3	6 Sa	0829	1.6	49	-9	21 Su	0812	1.8	55	-18								
7 Tu	0431	0.5	15	18	22 W	0834	0.9	27	6	7 Th	0819	1.4	43	-3	22 F	0747	1.5	46	-9	7 Su	0908	1.6	49	-9	22 M	0905	1.9	58	-18								
8 W	0850	0.8	24	3	23 Th	0830	1.1	34	0	8 F	1909	-0.1	-3	46	23 Sa	0822	1.7	52	-12	8 M	0948	1.6	49	-9	23 Tu	0959	1.9	58	-18								
9 Th	0916	1.1	34	0	24 F	0849	1.3	40	-6	9 Sa	0848	1.5	46	-6	24 Su	0907	1.8	55	-15	9 Tu	1028	1.5	46	-6	24 W	1051	1.8	55	-15								
10 F	0948	1.2	37	-3	25 Sa	0922	1.5	46	-9	10 Su	0922	1.6	49	-6	25 M	0958	1.9	58	-18	10 W	1103	1.4	43	-6	25 Th	1139	1.6	49	-9								
11 Sa	1024	1.3	40	-6	26 Su	1006	1.6	49	-12	11 M	1000	1.6	49	-6	26 Tu	1053	1.9	58	-15	11 Th	1133	1.4	43	-3	26 F	1219	1.3	40	0								
12 Su	1104	1.4	43	-6	27 M	1057	1.7	52	-12	12 Tu	1040	1.5	46	-6	27 W	1147	1.8	55	0	12 F	1155	1.2	37	0	27 Sa	0012	0.0	0	30								
13 M	1149	1.4	43	-3	28 Tu	1155	1.7	52	52	13 W	1123	1.5	46	-3	28 Th	0021	-0.4	-12	49	13 Sa	1202	1.1	34	3	28 Su	1041	0.7	21	12								
14 Tu	1240	1.3	40	40	29 W	0027	-0.4	-12	52	14 Th	1205	1.4	43	40	29 F	0107	-0.3	-9	43	14 Su	1120	0.9	27	9	29 M	0543	0.8	24	9								
15 W	0110	-0.1	-3	40	30 Th	0137	-0.4	-12	46	15 F	0028	-0.1	-3	40	30 Sa	0132	0.0	0	34	15 M	2259	0.3	27	9	30 Tu	0521	1.1	34	0								

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, 2009

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 W	0541	1.3	40	-3	16 Th	0456	1.3	40	-6	1 Sa	0631	1.6	49	-3	16 Su	0606	1.8	55	-9	1 Tu	0754	1.5	46	9	16 W	0807	1.6	49	12	
2 Th	0613	1.5	46	-6	17 F	0532	1.5	46	-9	2 Su	0724	1.6	49	-3	17 M	0710	1.9	58	-9	2 W	0837	1.4	43	12	17 Th	0919	1.4	43	18	21
3 F	0653	1.5	46	-9	18 Sa	0620	1.7	52	-15	3 M	0813	1.6	49	-3	18 Tu	0811	1.8	55	-6	3 Th	0918	1.3	40	15	18 F	0101	0.6	18	27	34
4 Sa	0735	1.6	49	-9	19 Su	0715	1.8	55	-15	4 Tu	0855	1.5	46	0	19 W	0909	1.7	52	0	4 F	1003	1.1	34	21	19 Sa	0546	0.6	18	27	40
5 Su	0820	1.6	49	-9	20 M	0812	1.9	58	-18	5 W	0930	1.4	43	3	20 Th	1004	1.5	46	9	5 Sa	0031	0.8	24	21	20 Su	0803	0.5	15	21	46
6 M	0903	1.6	49	-9	21 Tu	0908	1.9	58	-15	6 Th	1000	1.3	40	6	21 F	1103	1.2	37	18	6 Su	0359	0.7	21	30	21 M	0938	0.3	9	9	52
7 Tu	0942	1.5	46	-6	22 W	1001	1.8	55	-9	7 F	1026	1.2	37	9	22 Sa	1219	0.9	27	24	7 M	0922	0.5	15	43	22 Tu	1057	0.2	6	6	6
8 W	1015	1.4	43	-3	23 Th	1050	1.6	49	-3	8 Sa	1048	1.0	30	15	23 Su	0832	0.6	18	27	8 Tu	1045	0.4	12	27	23 W	0009	1.7	52	6	6
9 Th	1042	1.3	40	-3	24 F	1133	1.3	40	6	9 Su	1056	0.8	24	18	24 M	0023	1.2	37	12	9 W	0026	1.5	46	6	24 Th	0101	1.7	52	6	6
10 F	1102	1.2	37	3	25 Sa	1207	0.9	27	15	10 M	0237	0.8	24	18	25 Tu	0109	1.4	43	6	10 Th	0115	1.7	52	3	25 F	0200	1.7	52	6	6
11 Sa	1109	1.0	30	6	26 Su	1057	0.6	18	15	11 Tu	0215	1.0	30	12	26 W	0159	1.5	46	3	11 F	0215	1.8	55	0	26 Sa	0306	1.7	52	9	9
12 Su	1031	0.8	24	9	27 M	0302	0.9	27	9	12 W	0231	1.2	37	6	27 Th	0255	1.6	49	3	12 Sa	0324	1.8	55	-3	27 Su	0414	1.6	49	9	9
13 M	0634	0.8	24	12	28 Tu	0322	1.2	37	3	13 Th	0309	1.4	43	0	28 F	0357	1.6	49	3	13 Su	0437	1.9	58	-3	28 M	0519	1.5	46	12	12
14 Tu	0458	0.9	27	9	29 W	0401	1.4	43	0	14 F	0401	1.6	49	-6	29 Sa	0503	1.6	49	3	14 M	0550	1.9	58	0	29 Tu	0619	1.4	43	15	15
15 W	0440	1.1	34	3	30 Th	0447	1.5	46	-3	15 Sa	0501	1.7	52	-9	30 Su	0607	1.6	49	3	15 Tu	0659	1.8	55	6	30 W	0716	1.3	40	18	18
31 F	0537	1.5	46	-3	31 M	0705	1.6	49	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.

Mobile, Alabama, 2009

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 W	0404	-0.4	-12	64	16 Th	0431	-0.1	-3	55	1 F	0421	-0.3	-9	58	16 Sa	0345	0.1	3	46	1 M	0109	0.5	15	34	16 Tu	0034	0.6	18	34	0905	1.1	34	18	2013	0.6	18
2 Th	0505	-0.5	-15	61	17 F	0514	-0.1	-3	52	2 Sa	0456	0.0	0	49	17 Su	0340	0.3	9	40	2 Tu	0927	1.3	40	12	17 W	0801	1.2	37	9	1930	0.3	9				
3 F	0556	-0.5	-15	58	18 Sa	0546	0.0	0	46	3 Su	0506	0.3	9	37	18 M	0305	0.5	15	34	3 W	0912	1.5	46	6	18 Th	0800	1.5	46	0	1954	0.0	0				
4 Sa	0637	-0.3	-9	49	19 Su	0604	0.2	6	40	4 M	0403	0.6	18	34	19 Tu	0234	0.6	18	21	4 Th	0926	1.7	52	0	19 F	0832	1.7	52	-6	2038	-0.2	-6				
5 Su	0706	0.0	0	40	20 M	0554	0.4	12	30	5 Tu	0242	0.7	21	15	20 W	1005	1.3	40	12	5 F	0957	1.8	55	-3	20 Sa	0921	1.9	58	-12	2129	-0.4	-12				
6 M	0706	0.3	9	27	21 Tu	0513	0.6	18	24	6 W	1055	1.5	46	9	21 Th	0938	1.5	46	6	6 Sa	1037	1.8	55	-6	21 Su	1018	2.1	64	-18	2229	-0.2	-18				
7 Tu	0605	0.6	18	30	22 W	0021	0.9	27	24	7 Th	1051	1.6	49	3	22 F	0956	1.7	52	-3	7 Su	1124	1.9	58	-6	22 M	1118	2.2	67	-21	2316	-0.7	-21				
8 W	0112	0.8	24	37	23 Th	1120	1.4	43	9	8 F	1110	1.8	55	0	23 Sa	1034	2.0	61	-9	8 M	1214	1.9	58		23 Tu	1217	2.3	70								
9 Th	1222	1.4	43	6	24 F	1121	1.6	49	3	9 Sa	1142	1.8	55	0	24 Su	1123	2.1	64	-15	9 Tu	0002	-0.2	-6	58	24 W	0006	-0.7	-21	67	1301	1.9	58				
10 F	1229	1.6	49	3	25 Sa	1148	1.8	55	-3	10 Su	1222	1.9	58		25 M	1217	2.3	70		10 W	0044	-0.2	-6	58	25 Th	0048	-0.5	-15	61	1345	1.9	58				
11 Sa	1253	1.7	52	3	26 Su	1229	2.0	61		11 M	0006	-0.1	-3	58	26 Tu	0017	-0.6	-18	70	11 Th	0118	-0.2	-6	55	26 F	0119	-0.3	-9	52	1424	1.8	55				
12 Su	1329	1.8	55		27 M	0007	-0.3	-9	67	12 Tu	0106	-0.1	-3	58	27 W	0115	-0.6	-18	70	12 F	0142	-0.1	-3	52	27 Sa	0119	0.1	3	40	1457	1.7	52				
13 M	0111	0.0	0	55	28 Tu	0125	-0.4	-12	70	13 W	0201	-0.1	-3	58	28 Th	0205	-0.5	-15	64	13 Sa	0145	0.1	3	43	28 Su	0017	0.4	12	27	1523	1.4	43				
14 Tu	0230	0.0	0	55	29 W	0234	-0.4	-12	70	14 Th	0248	-0.1	-3	55	29 F	0245	-0.3	-9	55	14 Su	0123	0.2	6	37	29 M	0854	0.9	27	15	1516	1.0	30				
15 W	0337	-0.1	-3	55	30 Th	0333	-0.4	-12	64	15 F	0324	0.0	0	52	30 Sa	0305	0.0	0	46	15 M	0059	0.4	12	30	30 Tu	0716	1.3	40	9	2136	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.

Mobile, Alabama, 2009

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 W	0724	1.5	46		16 Th	0619	1.5	46	1 Sa	0812	1.7	52	16 Su	0745	2.1	64	1 Tu	1020	1.8	55	16 W	1020	1.8	55					
	1946	0.1	3			1855	0.1	3		2042	-0.1	-3		2017	-0.4	-12		2116	0.3	9		2055	0.5	15					
2 Th	0755	1.6	49		17 F	0703	1.7	52	2 Su	0923	1.8	55	17 M	0902	2.1	64	2 W	1124	1.7	52	17 Th	1204	1.6	49		2053	0.8	24	
	2019	0.0	0			1943	-0.2	-6		2123	-0.1	-3		2104	-0.4	-12		2137	0.4	12									
3 F	0839	1.7	52		18 Sa	0802	1.9	58	3 M	1029	1.8	55	18 Tu	1016	2.1	64	3 Th	1225	1.6	49	18 F	0217	1.1	34		0635	0.9	27	
	2059	-0.1	-3			2034	-0.4	-12		2200	-0.1	-3		2147	-0.3	-9		2138	0.6	18		●	1402	1.3	40		1922	1.1	34
4 Sa	0932	1.7	52		19 Su	0909	2.1	64	4 Tu	1125	1.8	55	19 W	1127	2.0	61	4 F	0346	1.0	30	19 Sa	0107	1.3	40		0809	0.7	21	
	2141	-0.2	-6			2125	-0.6	-18		2231	-0.1	-3		2222	0.0	0		0622	0.9	27									
5 Su	1029	1.8	55		20 M	1016	2.2	67	5 W	1213	1.8	55	20 Th	1235	1.8	55	5 Sa	0306	1.1	34	20 Su	0035	1.6	49		0921	0.5	15	
	2224	-0.3	-9			2214	-0.7	-21		2254	0.0	0		2241	0.4	12		0746	0.8	24									
6 M	1124	1.8	55		21 Tu	1121	2.2	67	6 Th	1256	1.6	49	21 F	1347	1.5	46	6 Su	0206	1.2	37	21 M	0052	1.8	55		1026	0.4	12	
	2303	-0.3	-9			2258	-0.6	-18		2302	0.2	6		2200	0.7	21		0851	0.7	21									
7 Tu	1214	1.9	58		22 W	1220	2.1	64	7 F	1338	1.5	46	22 Sa	0355	0.9	27	7 M	0138	1.4	43	22 Tu	0125	1.9	58		1138	0.4	12	
	2337	-0.3	-9			2336	-0.4	-12		2243	0.4	12		0815	0.7	21		0949	0.6	18									
8 W	1257	1.8	55		23 Th	1315	1.9	58	8 Sa	1423	1.3	40	23 Su	0248	1.2	37	8 Tu	0150	1.6	49	23 W	0205	2.0	61		1331	0.4	12	
										2215	0.6	18		0952	0.6	18		1052	0.5	15									
9 Th	0004	-0.2	-6		24 F	0001	-0.1	-3	9 Su	0522	0.9	27	24 M	0238	1.4	43	9 W	0220	1.7	52	24 Th	0251	2.0	61		1525	0.4	12	
	1335	1.7	52			1405	1.6	49		0917	0.8	24		1122	0.5	15		1226	0.4	12									
10 F	0018	0.0	0		25 Sa	1451	1.2	37	10 M	0411	1.0	30	25 Tu	0303	1.6	49	10 Th	0303	1.9	58	25 F	0345	2.0	61		1644	0.4	12	
	1409	1.6	49			2236	0.6	18		1037	0.7	21		1342	0.5	15		1519	0.3	9		●							
11 Sa	0009	0.1	3		26 Su	0549	0.9	27	11 Tu	0345	1.2	37	26 W	0340	1.7	52	11 F	0356	2.0	61	26 Sa	0445	1.9	58		1744	0.3	9	
	1439	1.4	43			1035	0.7	21		1204	0.6	18		1617	0.4	12		1652	0.1	3									
12 Su	1506	1.1	34		27 M	0459	1.2	37	12 W	0401	1.4	43	27 Th	0426	1.8	55	12 Sa	0459	2.1	64	27 Su	0552	1.9	58		1832	0.4	12	
	2327	0.4	12			1756	0.6	18		1548	0.4	12		1733	0.3	9		1758	0.0	0									
13 M	0737	0.9	27		28 Tu	0500	1.4	43	13 Th	0437	1.6	49	28 F	0523	1.8	55	13 Su	0610	2.2	67	28 M	0706	1.8	55		1912	0.4	12	
	1154	0.8	24			1742	0.4	12		1725	0.2	6		1833	0.2	6		1854	-0.1	-3									
14 Tu	0616	1.1	34		29 W	0529	1.5	46	14 F	0528	1.8	55	29 Sa	0631	1.8	55	14 M	0726	2.1	64	29 Tu	0829	1.7	52		1942	0.6	18	
	1839	0.6	18			1824	0.2	6		1828	0.0	0		1924	0.2	6		1942	0.0	0									
15 W	0556	1.3	40		30 Th	0612	1.6	49	15 Sa	0632	2.0	61	30 Su	0748	1.8	55	15 Tu	0849	2.0	61	30 W	1006	1.5	46		1957	0.8	24	
	1819	0.3	9			1911	0.1	3		1925	-0.2	-6		2008	0.1	3		2024	0.2	6									
16 Th	0706	1.7	52		31 F	0706	1.7	52				31 M	0908	1.8	55														
	1957	0.0	0			1957	0.0	0					2045	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.

Mobile, Alabama, 2009

Times and Heights of High and Low Waters

October				November				December																					
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height																
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm															
1 Th	0154	1.1	34		16 F	0702	0.7	21		1 Su	0814	0.3	9		16 M	0941	-0.1	-3		1 Tu	0935	-0.4	-12		16 W	1037	-0.5	-15	
	0453	1.0	30			2301	1.6	49			2226	1.8	55		●	2256	2.0	61			2240	2.0	61		●	2332	1.7	52	
	1155	1.4	43																										
	1923	1.0	30																										
2 F	0117	1.2	37		17 Sa	0813	0.5	15		2 M	0901	0.1	3		17 Tu	1028	-0.1	-3		2 W	1031	-0.6	-18		17 Th	1118	-0.5	-15	
	0628	0.9	27			2302	1.8	55			2300	2.0	61			2340	2.0	61			2334	2.1	64		○				
	1347	1.3	40		●					○																			
	1825	1.1	34																										
3 Sa	0025	1.3	40		18 Su	0908	0.3	9		3 Tu	0957	0.0	0		18 W	1120	-0.1	-3		3 Th	1127	-0.7	-21		18 F	0020	1.7	52	
	0734	0.7	21			2329	2.0	61			2344	2.1	64																
	2343	1.5	46																										
4 Su	0827	0.6	18		19 M	0959	0.2	6		4 W	1106	-0.1	-3		19 Th	0027	2.0	61		4 F	0028	2.2	67		19 Sa	0105	1.6	49	
	2350	1.7	52													1214	-0.1	-3			1220	-0.7	-21			1224	-0.4	-12	
○																													
5 M	0917	0.4	12		20 Tu	0004	2.1	64		5 Th	0034	2.2	67		20 F	0116	1.9	58		5 Sa	0121	2.1	64		20 Su	0145	1.5	46	
						1055	0.2	6			1220	-0.2	-6			1306	-0.1	-3			1307	-0.6	-18			1237	-0.3	-9	
6 Tu	0017	1.9	58		21 W	0045	2.1	64		6 F	0128	2.3	70		21 Sa	0203	1.9	58		6 Su	0210	1.9	58		21 M	0218	1.3	40	
	1015	0.3	9			1206	0.2	6			1331	-0.2	-6			1350	-0.1	-3			1341	-0.4	-12			1225	-0.1	-3	
7 W	0055	2.0	61		22 Th	0132	2.1	64		7 Sa	0222	2.3	70		22 Su	0247	1.7	52		7 M	0252	1.6	49		22 Tu	0242	1.0	30	
	1135	0.2	6			1328	0.2	6			1433	-0.2	-6			1422	0.1	3			1345	0.0	0			1201	0.1	3	
8 Th	0142	2.2	67		23 F	0222	2.0	61		8 Su	0315	2.1	64		23 M	0325	1.5	46		8 Tu	0320	1.2	37		23 W	0017	0.7	21	
	1326	0.2	6			1443	0.3	9			1523	-0.1	-3			1429	0.2	6			1252	0.2	6			0240	0.8	24	
9 F	0235	2.2	67		24 Sa	0315	2.0	61		9 M	0404	1.9	58		24 Tu	0355	1.3	40		9 W	1142	0.4	12		24 Th	1032	0.3	9	
	1503	0.1	3			1544	0.3	9			1558	0.2	6			1357	0.4	12			2046	1.1	34			1930	1.0	30	
																2307	1.0	30											
10 Sa	0334	2.3	70		25 Su	0408	1.9	58		10 Tu	0447	1.6	49		25 W	0150	0.9	27		10 Th	0817	0.3	9		25 F	0709	0.1	3	
	1616	0.0	0			1633	0.3	9			1549	0.5	15			0355	1.0	30			2006	1.3	40			1906	1.1	34	
																1320	0.5	15											
																2215	1.1	34											
11 Su	0435	2.2	67		26 M	0500	1.7	52		11 W	0505	1.2	37		26 Th	1158	0.6	18		11 F	0738	0.0	0		26 Sa	0703	-0.1	-3	
	1714	0.1	3			1708	0.5	15			1418	0.7	21			2123	1.2	37			2008	1.5	46			1921	1.3	40	
											2248	1.2	37																
○																													
12 M	0539	2.1	64		27 Tu	0554	1.5	46		12 Th	0815	0.7	21		27 F	0727	0.4	12		12 Sa	0759	-0.2	-6		27 Su	0729	-0.4	-12	
	1802	0.2	6			1723	0.6	18			2153	1.4	43			2039	1.4	43			2034	1.7	52			1955	1.5	46	
13 Tu	0648	1.8	55		28 W	0702	1.3	40		13 F	0751	0.4	12		28 Sa	0732	0.2	6		13 Su	0832	-0.4	-12		28 M	0809	-0.6	-18	
	1837	0.5	15			1635	0.8	24			2131	1.7	52			2043	1.5	46			2111	1.7	52			2041	1.7	52	
						2356	1.2	37																					
14 W	0824	1.5	46		29 Th	0513	1.0	30		14 Sa	0821	0.1	3		29 Su	0802	-0.1	-3		14 M	0912	-0.5	-15		29 Tu	0856	-0.8	-24	
	1841	0.8	24			1118	1.1	34			2147	1.8	55			2111	1.7	52			2154	1.7	52			2136	1.8	55	
						1530	1.0	30																					
						2314	1.3	40																					
15 Th	0056	1.2	37		30 F	0641	0.7	21		15 Su	0859	0.0	0		30 M	0844	-0.3	-9		15 Tu	0954	-0.5	-15		30 W	0944	-0.9	-27	
	0505	1.0	30			2216	1.5	46			2218	1.9	58			2151	1.9	58			2243	1.7	52			2234	1.9	58	
	1153	1.2	37																										
	1657	1.1	34																										
	2354	1.3	40		31 Sa	0731	0.5	15																					
						2205	1.7	52																					

South Pass, Louisiana, 2009

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 W	0357	1.3	40	-6	16 Th	0305	1.2	37	-6	1 Sa	0445	1.5	46	-9	16 Su	0413	1.8	55	-12	1 Tu	0616	1.5	46	9	16 W	0649	1.7	52									
2 Th	0432	1.4	43	-9	17 F	0343	1.4	43	-12	2 Su	0537	1.5	46	-6	17 M	0523	1.8	55	-9	2 W	0708	1.5	46	12	17 Th	0817	1.5	46	24								
3 F	0511	1.5	46	-12	18 Sa	0432	1.6	49	-15	3 M	0626	1.5	46	-6	18 Tu	0632	1.8	55	-6	3 Th	0756	1.4	43	18	18 F	0144	0.8	24	40								
4 Sa	0552	1.5	46	-12	19 Su	0528	1.7	52	-18	4 Tu	0710	1.5	46	-3	19 W	0739	1.7	52	0	4 F	0845	1.3	40	21	19 Sa	0415	0.7	21	43								
5 Su	0634	1.5	46	-12	20 M	0627	1.8	55	-21	5 W	0749	1.4	43	0	20 Th	0846	1.5	46	9	5 Sa	0209	0.8	24	34	20 Su	0559	0.6	18	49								
6 M	0713	1.5	46	-9	21 Tu	0726	1.8	55	-18	6 Th	0825	1.3	40	3	21 F	0957	1.3	40	18	6 Su	0428	0.8	24	30	21 M	0731	0.4	12	55								
7 Tu	0751	1.5	46	-9	22 W	0824	1.7	52	-12	7 F	0900	1.2	37	9	22 Sa	0316	0.6	18	30	7 M	0621	0.7	21	43	22 Tu	0856	0.4	12	55								
8 W	0826	1.4	43	-6	23 Th	0920	1.5	46	-3	8 Sa	0933	1.1	34	12	23 Su	0639	0.6	18	37	8 Tu	0812	0.5	15	46	23 W	1014	0.3	9	58								
9 Th	0859	1.3	40	-3	24 F	1013	1.2	37	6	9 Su	1008	0.9	27	15	24 M	0923	0.4	12	43	9 W	0952	0.4	12	52	24 Th	1124	0.3	9	55								
10 F	0928	1.2	37	0	25 Sa	1105	0.9	27	15	10 M	0034	0.8	24	18	25 Tu	1113	0.2	6	6	10 Th	1114	0.2	6	6	25 F	1226	0.3	9	9								
11 Sa	0952	1.1	34	6	26 Su	0204	0.6	18	15	11 Tu	0021	1.0	30	15	26 W	0008	1.5	46	3	11 F	0017	1.8	55	3	26 Sa	0056	1.8	55	12								
12 Su	1004	0.9	27	9	27 M	0112	0.9	27	9	12 W	0038	1.2	37	6	27 Th	0100	1.6	49	3	12 Sa	0121	1.9	58	0	27 Su	0204	1.7	52	12								
13 M	0539	0.7	21	12	28 Tu	0131	1.1	34	0	13 Th	0114	1.4	43	0	28 F	0159	1.6	49	3	13 Su	0236	1.9	58	0	28 M	0322	1.6	49	15								
14 Tu	0259	0.8	24	9	29 W	0211	1.3	40	-3	14 F	0204	1.5	46	-6	29 Sa	0305	1.6	49	3	14 M	0359	1.9	58	3	29 Tu	0443	1.6	49	18								
15 W	0246	1.0	30	3	30 Th	0259	1.4	43	-6	15 Sa	0305	1.7	52	-9	30 Su	0414	1.6	49	3	15 Tu	0524	1.8	55	6	30 W	0602	1.5	46	24								
31 F	0351	1.5	46	-9						31 M	0518	1.6	49	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.

Grand Isle (East Point), Louisiana, 2009

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	0510	1.1	34	16	0414	1.1	34	1	0608	1.4	43	16	0535	1.6	49	1	0731	1.4	43	16	0807	1.4	43
W	1641	-0.1	-3	Th	1540	-0.1	-3	Sa	1749	-0.1	-3	Su	1708	-0.2	-6	Tu	1828	0.3	9	W	1818	0.5	15
2	0545	1.3	40	17	0455	1.3	40	2	0700	1.4	43	17	0644	1.6	49	2	0820	1.3	40	17	0944	1.3	40
Th	1722	-0.2	-6	F	1626	-0.2	-6	Su	1831	-0.1	-3	M	1803	-0.2	-6	W	1850	0.4	12	Th	1847	0.7	21
3	0626	1.3	40	18	0547	1.4	43	3	0747	1.4	43	18	0751	1.6	49	3	0908	1.2	37	18	0320	0.7	21
F	1803	-0.2	-6	Sa	1718	-0.4	-12	M	1907	-0.1	-3	Tu	1853	-0.1	-3	Th	1859	0.5	15	F	1152	1.1	34
4	0710	1.3	40	19	0646	1.6	49	4	0828	1.3	40	19	0858	1.5	46	4	1003	1.1	34	●	1818	0.9	27
Sa	1844	-0.3	-9	Su	1813	-0.4	-12	Tu	1937	0.0	0	W	1939	0.1	3	F	1846	0.7	21	Sa	0559	0.6	18
5	0754	1.4	43	20	0746	1.6	49	5	0905	1.3	40	20	1006	1.3	40	5	0044	0.8	24	19	2141	1.2	37
Su	1924	-0.2	-6	M	1906	-0.4	-12	W	1959	0.1	3	Th	2016	0.3	9	Sa	0329	0.7	21	20	0738	0.5	15
6	0834	1.3	40	21	0845	1.6	49	○				●				○				Su	2212	1.4	43
M	2000	-0.2	-6	Tu	1958	-0.4	-12	Th	0938	1.2	37	21	1125	1.1	34	6	0618	0.7	21	21	0900	0.4	12
7	0911	1.3	40	●				○				F	2027	0.6	18	Su	2301	1.1	34	M	2254	1.5	46
Tu	2031	-0.2	-6	22	0943	1.5	46	7	1011	1.1	34	22	0141	0.7	21	7	0806	0.6	18	22	1016	0.3	9
○				W	2044	-0.2	-6	F	2011	0.3	9	Sa	0503	0.6	18	M	2319	1.2	37	Tu	2340	1.6	49
8	0944	1.3	40	23	1038	1.3	40	8	1046	1.0	30	23	0834	0.5	15	8	0940	0.5	15	23	1131	0.3	9
W	2056	-0.1	-3	Th	2122	0.0	0	Sa	1950	0.5	15	Su				Tu	2354	1.4	43	W			
9	1013	1.2	37	24	1133	1.1	34	9	1129	0.8	24	24	0006	1.1	34	9	1106	0.4	12	24	0032	1.6	49
Th	2113	0.0	0	F	2139	0.3	9	Su	1854	0.6	18	M	1048	0.4	12	W				Th	1244	0.3	9
10	1039	1.1	34	25	1230	0.8	24	10	0152	0.8	24	25	0042	1.3	40	10	0042	1.5	46	25	0130	1.6	49
F	2120	0.1	3	Sa	2059	0.5	15	M	0931	0.5	15	Tu	1222	0.3	9	Th	1227	0.2	6	F	1351	0.3	9
11	1059	1.0	30	26	0345	0.7	21	11	0133	0.9	27	26	0130	1.4	43	11	0140	1.6	49	○			
Sa	2111	0.2	6	Su	1112	0.5	15	Tu	1212	0.4	12	W	1337	0.2	6	F	1341	0.1	3	Sa	0232	1.5	46
12	1101	0.8	24	27	0242	0.9	27	12	0151	1.1	34	27	0226	1.4	43	○				Sa	1449	0.3	9
Su	2036	0.4	12	M	1338	0.3	9	W	1316	0.3	9	Th	1442	0.2	6	12	0247	1.6	49	27	0338	1.5	46
13	0543	0.7	21	28	0254	1.0	30	13	0230	1.3	40	28	0328	1.4	43	Sa	1448	0.1	3	Su	1538	0.4	12
M	1904	0.4	12	Tu	1434	0.1	3	Th	1415	0.1	3	F	1540	0.1	3	13	0402	1.7	52	28	0445	1.4	43
14	0403	0.8	24	○				○				Su	1549	0.1	3	M	1618	0.4	12				
Tu	1536	0.3	9	29	0331	1.2	37	14	0323	1.4	43	29	0435	1.4	43	14	0520	1.6	49	29	0553	1.3	40
15	0352	1.0	30	W	1526	0.0	0	F	1513	0.0	0	Sa	1633	0.1	3	M	1644	0.1	3	Tu	1649	0.5	15
W	1508	0.1	3	30	0418	1.3	40	15	0426	1.5	46	30	0540	1.4	43	15	0641	1.6	49	30	0707	1.2	37
○				Th	1615	-0.1	-3	Sa	1612	-0.1	-3	Su	1718	0.2	6	Tu	1734	0.3	9	W	1708	0.7	21
31	0512	1.3	40	31	0512	1.3	40	31	0639	1.4	43	31	0639	1.4	43								
F	1704	-0.1	-3	F	1704	-0.1	-3	M	1757	0.2	6	M	1757	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.

Galveston (Galveston Channel), Texas, 2009

Times and Heights of High and Low Waters

January				February				March																					
Time	Height			Time	Height			Time	Height			Time	Height																
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm		h	m	ft	cm										
1 Th	0106	0.6	18		16 F	0244	0.1	3		1 Su	0158	-0.1	-3		16 M	0332	-0.4	-12		1 Su	0022	-0.2	-6		16 M	0124	-0.2	-6	
	0319	0.7	21			0857	0.6	18			0953	0.6	18			1350	1.0	30			0823	1.0	30			1030	1.3	40	
	1223	-0.2	-6			1416	0.3	9			1313	0.5	15			●					1234	0.8	24						
	2034	0.9	27			2024	0.7	21			1835	0.8	24			○					1658	1.0	30						
2 F	0228	0.5	15		17 Sa	0349	-0.2	-6		2 M	0254	-0.4	-12		17 Tu	0435	-0.4	-12		2 M	0113	-0.3	-9		17 Tu	0219	-0.1	-3	
	0544	0.6	18			1117	0.7	21			1801	0.8	24			1505	1.0	30			1001	1.1	34			1304	1.3	40	
	1258	0.1	3			1552	0.6	18			●					1315	1.0	30			1315	1.0	30						
	2045	0.8	24			2035	0.7	21			○					1640	1.1	34			1640	1.1	34						
3 Sa	0319	0.3	9		18 Su	0445	-0.4	-12		3 Tu	0356	-0.6	-18		18 W	0537	-0.4	-12		3 Tu	0213	-0.4	-12		18 W	0325	-0.1	-3	
	0916	0.5	15			1346	0.8	24			1714	1.0	30			1555	1.1	34			1155	1.2	37			1455	1.3	40	
	1339	0.3	9			●					●					1355	1.1	34			1355	1.1	34			○			
	2046	0.8	24													1627	1.2	37			1627	1.2	37						
4 Su	0402	0.0	0		19 M	0536	-0.5	-15		4 W	0501	-0.7	-21		19 Th	0634	-0.4	-12		4 W	0323	-0.5	-15		19 Th	0439	0.0	0	
	1144	0.6	18			1505	1.0	30			1452	1.1	34			1633	1.0	30			1400	1.2	37			1532	1.3	40	
	1436	0.5	15			○					○					●					●								
	2034	0.8	24																										
5 M	0446	-0.3	-9		20 Tu	0622	-0.6	-18		5 Th	0606	-0.9	-27		20 F	0723	-0.4	-12		5 Th	0440	-0.5	-15		20 F	0549	0.0	0	
	1330	0.9	27			1554	1.0	30			1533	1.1	34			1648	1.0	30			1444	1.3	40			1533	1.2	37	
	1627	0.8	24			●					●					●					●								
	1955	0.9	27																										
6 Tu	0533	-0.6	-18		21 W	0706	-0.7	-21		6 F	0709	-1.0	-30		21 Sa	0805	-0.4	-12		6 F	0556	-0.5	-15		21 Sa	0646	0.0	0	
	1435	1.1	34			1635	1.0	30			1608	1.1	34			1642	1.0	30			1507	1.3	40			1518	1.2	37	
						○					2003	1.0	30			2034	0.9	27			2039	1.0	30			2039	1.0	30	
											2306	1.1	34								2323	1.1	34			2323	1.1	34	
7 W	0624	-0.8	-24		22 Th	0746	-0.7	-21		7 Sa	0808	-1.0	-30		22 Su	0019	1.0	30		7 Sa	0705	-0.5	-15		22 Su	0733	0.1	3	
	1526	1.2	37			1708	1.0	30			1638	1.1	34			0840	-0.4	-12			1526	1.2	37			1514	1.1	34	
						○					2026	0.9	27			1641	0.9	27			1950	1.0	30			2018	1.0	30	
																2038	0.8	24											
8 Th	0717	-1.0	-30		23 F	0824	-0.7	-21		8 Su	0043	1.1	34		23 M	0122	1.0	30		8 Su	0002	1.2	37		23 M	0048	1.1	34	
	1613	1.3	40			1728	0.9	27			0903	-0.9	-27			0911	-0.3	-9			0805	-0.4	-12			0812	0.2	6	
						2119	0.8	24			1704	1.0	30			1544	1.1	34			1544	1.1	34			1518	1.1	34	
						2355	0.9	27			2109	0.8	24			2109	0.7	21			2024	0.9	27			2027	0.8	24	
9 F	0811	-1.1	-34		24 Sa	0858	-0.7	-21		9 M	0203	1.1	34		24 Tu	0222	1.0	30		9 M	0131	1.2	37		24 Tu	0158	1.2	37	
	1658	1.3	40			1740	0.9	27			0954	-0.8	-24			0940	-0.2	-6			0900	-0.2	-6			0848	0.3	9	
	2102	1.1	34			2042	0.8	24			1727	0.9	27			1656	0.9	27			1600	1.1	34			1524	1.1	34	
						○					2158	0.6	18			2144	0.6	18			2105	0.6	18			2049	0.6	18	
10 Sa	0006	1.2	37		25 Su	0052	0.9	27		10 Tu	0320	1.0	30		25 W	0323	0.9	27		10 Tu	0250	1.2	37		25 W	0303	1.2	37	
	0905	-1.2	-37			0929	-0.7	-21			1042	-0.5	-15			1011	-0.1	-3			0949	0.0	0			0924	0.4	12	
	1740	1.2	37			1752	0.9	27			1747	0.9	27			1706	0.9	27			1616	1.0	30			1531	1.1	34	
	2127	1.0	30			2109	0.8	24			2252	0.4	12			2220	0.4	12			2147	0.4	12			2117	0.4	12	
11 Su	0124	1.2	37		26 M	0139	0.9	27		11 W	0438	1.0	30		26 Th	0429	0.9	27		11 W	0404	1.3	40		26 Th	0406	1.3	40	
	0958	-1.1	-34			0959	-0.6	-18			1129	-0.2	-6			1043	0.1	3			1037	0.2	6			1002	0.6	18	
	1818	1.1	34			1807	0.8	24			1807	0.8	24			1714	0.9	27			1631	1.0	30			1535	1.1	34	
	2209	0.9	27			●	2153	0.7	21			2346	0.2	6			2258	0.2	6			2230	0.2	6			2149	0.2	6
12 M	0237	1.1	34		27 Tu	0227	0.8	24		12 Th	0600	0.9	27		27 F	0539	0.9	27		12 Th	0516	1.3	40		27 F	0508	1.4	43	
	1050	-0.9	-27			1028	-0.5	-15			1215	0.1	3			1117	0.3	9			1123	0.5	15			1043	0.8	24	
	1851	1.0	30			1823	0.8	24			1824	0.8	24			1717	0.9	27			1645	1.0	30			1537	1.1	34	
	2306	0.7	21			2241	0.6	18								2338	0.0	0			2311	0.0	0			2225	0.0	0	
13 Tu	0352	1.0	30		28 W	0322	0.8	24		13 F	0041	0.0	0		28 Sa	0657	1.0	30		13 F	0627	1.3	40		28 Sa	0611	1.5	46	
	1140	-0.7	-21			1057	-0.4	-12			0729	0.8	24			1155	0.6	18			1211	0.7	21			1125	1.0	30	
	1920	0.9	27			1838	0.8	24			1303	0.4	12			1713	0.9	27			1655	1.0	30			1534	1.2	37	
						2330	0.5	15			1837	0.8	24								2353	-0.1	-3			2306	-0.2	-6	
14 W	0015	0.5	15		29 Th	0432	0.7	21		14 Sa	0136	-0.2	-6		14 Sa	0740	1.3	40		14 Sa	0718	1.5	46						
	0516	0.8	24			1127	-0.2	-6			0911	0.8	24			1304	0.9	27			1209	1.2	37						
	1230	-0.4	-12			1850	0.7	21			1400	0.6	18			1656	1.0	30			1525	1.3	40						
	1945	0.8	24								1842	0.8	24								2352	-0.3	-9						
15 Th	0130	0.3	9		30 F	0019	0.3	9		15 Su	0232	-0.3	-9		15 Su	0036	-0.2	-6		15 Su	0831	1.5	46						
	0657	0.7	21			0602	0.6	18			1113	0.9	27			0858	1.3	40			1252	1.3	40						
	1320	0.0	0			1159	0.0	0													1518	1.4	43						
	2006	0.8	24			1857	0.7	21																					
				31 Sa	0107	0.1	3														31 Tu	0046	-0.3	-9					
					0751	0.6	18															0955	1.5	46					
					1234	0.3	9																						

Galveston (Galveston Channel), Texas, 2009

Times and Heights of High and Low Waters

April			May			June												
Time	Height		Time	Height		Time	Height		Time	Height								
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm				
1 W	0149	-0.3	-9		16 Th	0219	0.2	6		1 F	0246	0.0	0					
	1132	1.5	46			1301	1.4	43			1140	1.5	46		16 Sa	0212	0.3	9
2 Th	0302	-0.2	-6		17 F	0325	0.3	9		2 Sa	0406	0.2	6		1 M	0514	0.8	24
	1255	1.5	46			1319	1.4	43			1212	1.4	43			0657	1.0	30
3 F	0424	-0.1	-3		18 Sa	0436	0.4	12		3 Su	1838	1.1	34		2 Tu	1123	1.2	37
	1334	1.4	43			1324	1.4	43			1929	0.9	27			1904	0.0	0
4 Sa	0546	0.0	0		19 Su	0543	0.5	15		4 M	0029	1.3	40		3 W	0833	1.1	34
	1356	1.4	43			1331	1.3	40			0652	0.7	21			1131	1.2	37
5 Su	0659	0.2	6		20 M	0642	0.6	18		5 Tu	0203	1.4	43		4 Th	0359	1.6	49
	1413	1.3	40			1338	1.3	40			0806	0.9	27			2010	-0.3	-9
6 M	0102	1.3	40		21 Tu	0122	1.2	37		6 W	0318	1.6	49		5 F	0445	1.6	49
	0802	0.3	9			0736	0.7	21			0913	1.1	34			2041	-0.4	-12
7 Tu	1428	1.3	40		22 W	1344	1.2	37		7 Th	0913	1.1	34		6 Sa	0524	1.6	49
	2019	0.7	21			1953	0.6	18			1315	1.3	40			2112	-0.4	-12
8 W	0225	1.4	43		23 Th	0233	1.4	43		8 F	2033	0.0	0		7 Su	0559	1.6	49
	0859	0.5	15			0827	0.9	27			0418	1.7	52			2144	-0.4	-12
9 Th	1442	1.2	37		24 F	1348	1.2	37		9 Sa	0509	1.7	52		8 M	0632	1.5	46
	2054	0.4	12			2015	0.4	12			1122	1.3	40			2217	-0.3	-9
10 F	0337	1.5	46		25 Sa	0335	1.5	46		10 Su	1322	1.4	43		9 Tu	0708	1.5	46
	0952	0.8	24			2044	0.1	3			0554	1.8	55			2252	-0.3	-9
11 Sa	1455	1.2	37		26 Su	1350	1.3	40		11 M	1322	1.4	43		10 W	0745	1.4	43
	2128	0.2	6			2119	-0.1	-3			2206	-0.2	-6			2327	-0.2	-6
12 Su	0442	1.6	49		27 M	0432	1.7	52		12 Tu	0637	1.7	52		11 Th	0822	1.4	43
	1043	1.0	30			1010	1.2	37			0721	1.7	52			0002	-0.1	-3
13 M	1506	1.2	37		28 Tu	1349	1.3	40		13 W	2240	-0.2	-6		12 F	0855	1.3	40
	2202	0.0	0			2159	-0.3	-9			0809	1.6	49			0822	1.4	43
14 Tu	0541	1.6	49		29 W	0527	1.8	55		14 Th	0637	1.7	52		13 Sa	0036	0.1	3
	1135	1.1	34			1100	1.3	40			0721	1.7	52			0923	1.3	40
15 W	1513	1.3	40		30 Th	1346	1.4	43		15 F	2240	-0.2	-6		14 Su	0112	0.3	9
	2236	-0.1	-3			2159	-0.3	-9			0809	1.6	49			0943	1.2	37
16 Th	0638	1.6	49		31 F	0623	1.8	55		16 Sa	0123	0.2	6		15 M	0150	0.5	15
	1232	1.2	37			2245	-0.4	-12			0227	0.2	6			0956	1.2	37
17 Fr	1509	1.3	40		1 Sa	0724	1.8	55		17 Su	1047	1.4	43		16 Tu	1731	0.6	18
	2312	-0.1	-3			2316	-0.1	-3			1025	1.4	43			2311	0.8	24
18 Sa	0734	1.6	49		2 Su	0809	1.6	49		18 M	0227	0.2	6		17 W	0240	0.7	21
	2350	-0.1	-3			2355	0.0	0			1712	0.9	27			0402	0.9	27
19 Su	0833	1.6	49		3 M	0809	1.6	49		19 Tu	2110	1.0	30		18 Th	0952	1.1	34
	0032	0.0	0			0903	1.5	46			0341	0.5	15			1755	0.0	0
20 M	0942	1.5	46		4 Th	0903	1.5	46		20 W	1049	1.3	40		19 Fr	0223	1.3	40
	0121	0.1	3			1000	1.5	46			1751	0.6	18			0639	1.1	34
21 Tu	0942	1.5	46		5 Fr	1000	1.5	46		21 Th	2337	1.1	34		20 Sa	0913	1.2	37
	0121	0.1	3			0123	0.2	6			0259	1.5	46			1828	-0.3	-9
22 W	0942	1.5	46		6 Sa	0123	0.2	6		22 F	0259	1.5	46		21 Su	0240	0.7	21
	0121	0.1	3			1047	1.4	43			0825	1.2	37			1000	1.1	34
23 Th	0121	0.1	3		7 Su	1047	1.4	43		23 M	1150	1.3	40		22 Tu	0952	1.1	34
	0121	0.1	3			0210	-0.1	-3			1939	-0.1	-3			1755	0.0	0
24 Fr	0121	0.1	3		8 M	0210	-0.1	-3		24 Th	0215	-0.3	-9		23 W	0223	1.3	40
	0121	0.1	3			0509	1.7	52			0353	1.7	52			0639	1.1	34
25 Sa	0121	0.1	3		9 Tu	0509	1.7	52		25 F	2015	-0.3	-9		24 Th	0913	1.2	37
	0121	0.1	3			1122	1.3	40			0443	1.8	55			1828	-0.3	-9
26 Su	0121	0.1	3		10 W	1122	1.3	40		26 Sa	0443	1.8	55		25 Su	0621	1.6	49
	0121	0.1	3			2104	-0.1	-3			2057	-0.5	-15			1029	1.4	43
27 M	0121	0.1	3		11 Th	2104	-0.1	-3		27 M	0534	1.9	58		26 Tu	1317	1.5	46
	0121	0.1	3			0418	1.7	52			0534	1.9	58			2227	-0.8	-24
28 Tu	0121	0.1	3		12 Fr	0418	1.7	52		28 Th	2143	-0.6	-18		27 W	0705	1.5	46
	0121	0.1	3			1017	1.2	37			0745	1.4	43			1110	1.3	40
29 W	0121	0.1	3		13 Sa	1017	1.2	37		29 F	0534	1.9	58		28 Th	1431	1.4	43
	0121	0.1	3			1323	1.3	40			2143	-0.6	-18			2320	-0.6	-18
30 Th	0121	0.1	3		14 Su	1323	1.3	40		30 M	0627	1.9	58		29 F	0744	1.4	43
	0121	0.1	3			2104	-0.1	-3			0627	1.9	58			1215	1.2	37
31 Fr	0121	0.1	3		15 M	2104	-0.1	-3		31 Tu	2233	-0.6	-18		30 W	1553	1.3	40
	0121	0.1	3			0318	1.6	49			0722	1.8	55			0013	-0.4	-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.
 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, 2009

Times and Heights of High and Low Waters

October				November				December																					
Time		Height		Time		Height		Time		Height		Time		Height															
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm															
1 Th	0253	1.6	49		16 F	0210	1.6	49		1 Su	0131	1.5	46		16 Tu	0842	-0.5	-15		16 W	0940	-0.6	-18						
	0834	1.2	37			0830	0.7	21			0836	0.3	9			0921	-0.2	-6			1717	1.7	52		1824	1.3	40		
	1353	1.6	49			1514	1.8	55			1620	1.8	55			1740	1.8	55			2200	1.3	40		●				
	2026	0.8	24			2117	1.1	34			2132	1.4	43			●					●								
2 F	0258	1.6	49		17 Sa	0224	1.6	49		2 M	0130	1.5	46		17 Tu	0956	-0.3	-9		2 W	0013	1.4	43		17 Th	1014	-0.6	-18	
	0850	1.0	30			0906	0.4	12			0907	0.1	3			1827	1.8	55			0926	-0.7	-21			1901	1.2	37	
	1458	1.6	49			1623	1.9	58			1713	1.9	58			1902	1.6	49			1808	1.7	52			1938	1.2	37	
	2059	1.0	30			2211	1.3	40			2212	1.5	46			2214	1.4	43			2214	1.4	43			2235	1.1	34	
3 Sa	0304	1.6	49		18 Su	0236	1.6	49		3 Tu	0130	1.6	49		18 W	1032	-0.2	-6		3 Th	0058	1.5	46		18 F	0125	1.2	37	
	0912	0.8	24			0943	0.2	6			0943	-0.1	-3			1916	1.7	52			1013	-0.7	-21			1049	-0.5	-15	
	1558	1.7	52			1726	2.0	61			1806	1.9	58			2246	1.6	49			1902	1.6	49			1938	1.2	37	
	2133	1.1	34			2304	1.5	46			2246	1.6	49			●					2235	1.4	43			2245	1.0	30	
4 Su	0309	1.6	49		19 M	0246	1.6	49		4 W	0135	1.7	52		19 Th	1110	-0.2	-6		4 F	0148	1.5	46		19 Sa	0155	1.1	34	
	0940	0.6	18			1020	0.1	3			1025	-0.2	-6			2009	1.6	49			1103	-0.7	-21			1123	-0.4	-12	
	1658	1.7	52			1826	2.0	61			1905	1.9	58			2310	1.4	43			1957	1.5	46			2012	1.1	34	
	2209	1.3	40			●					2312	1.7	52			●					2310	1.4	43			2331	1.0	30	
5 M	0311	1.6	49		20 Tu	0001	1.6	49		5 Th	0153	1.8	55		20 F	1150	-0.1	-3		5 Sa	0239	1.5	46		20 Su	0211	1.1	34	
	1011	0.4	12			0246	1.7	52			1112	-0.2	-6			2110	1.5	46			1157	-0.5	-15			1156	-0.3	-9	
	1758	1.8	55			1059	0.1	3			2011	1.9	58			2350	1.4	43			2048	1.4	43			2041	1.1	34	
	2246	1.5	46			1926	1.9	58			2336	1.7	52			●					●					●			
6 Tu	0307	1.6	49		21 W	1140	0.1	3		6 F	0221	1.8	55		21 Sa	0137	1.5	46		6 Su	0014	1.3	40		21 M	1229	-0.1	-3	
	1048	0.2	6			2031	1.9	58			1205	-0.2	-6			1232	0.0	0			0333	1.4	43			2105	1.0	30	
	1901	1.9	58			●					2126	1.8	55			2211	1.5	46			1252	-0.3	-9			●			
	2322	1.6	49								●					●					2128	1.3	40			2128	1.3	40	
7 W	0300	1.7	52		22 Th	1225	0.2	6		7 Sa	0008	1.7	52		22 Su	1316	0.2	6		7 M	0218	1.0	30		22 Tu	1302	0.0	0	
	1130	0.1	3			2152	1.8	55			0250	1.8	55			2249	1.4	43			0501	1.1	34			2125	1.0	30	
	2013	1.9	58			●					1303	-0.1	-3			2158	1.2	37			1352	-0.1	-3			●			
	2354	1.7	52								2238	1.7	52			●					2158	1.2	37			2158	1.2	37	
8 Th	0259	1.8	55		23 F	1315	0.3	9		8 Su	0127	1.6	49		23 M	1402	0.3	9		8 Tu	0418	0.8	24		23 W	1336	0.2	6	
	1220	0.1	3			0255	1.7	52			2309	1.4	43			0806	0.9	27			1500	0.3	9			2139	0.9	27	
	2138	1.9	58			1409	0.1	3			2322	1.7	52			2221	1.1	34			●					●			
	●					●					●					●					●					●			
9 F	0019	1.8	55		24 Sa	0111	1.8	55		9 M	1523	0.3	9		24 Tu	1453	0.5	15		9 W	0512	0.5	15		24 Th	0516	0.3	9	
	0310	1.9	58			1413	0.4	12			2347	1.6	49			2323	1.3	40			1045	0.9	27			1046	0.6	18	
	1318	0.1	3			●					●					●					1626	0.6	18			1418	0.5	15	
	●					●					●					●					2241	1.1	34			2145	0.9	27	
10 Sa	0326	1.9	58		25 Su	0136	1.7	52		10 Tu	0626	1.2	37		25 W	0723	0.8	24		10 Th	0557	0.2	6		25 F	0523	0.1	3	
	1426	0.2	6			1517	0.5	15			0919	1.3	40			1012	0.9	27			1255	1.0	30			1257	0.7	21	
	●					●					1644	0.5	15			1553	0.6	18			1814	0.8	24			1527	0.6	18	
	●					●					●					2333	1.2	37			2258	1.1	34			2141	0.9	27	
11 Su	0308	1.9	58		26 M	0118	1.7	52		11 W	0006	1.5	46		26 Th	0653	0.7	21		11 F	0637	-0.1	-3		26 Sa	0545	-0.2	-6	
	1542	0.2	6			1625	0.6	18			0636	1.0	30			1224	1.0	30			1428	1.2	37			1415	0.9	27	
	●					●					1146	1.3	40			1709	0.8	24			1954	1.0	30			1801	0.8	24	
	●					●					1806	0.8	24			2341	1.2	37			2312	1.1	34			2108	0.9	27	
12 M	0118	1.8	55		27 Tu	0112	1.6	49		12 Th	0022	1.4	43		27 F	0653	0.4	12		12 Sa	0716	-0.4	-12		27 Su	0617	-0.4	-12	
	1702	0.3	9			1729	0.7	21			0705	0.6	18			1350	1.2	37			1534	1.4	43			1505	1.1	34	
	●					●					1331	1.4	43			1835	1.0	30			2120	1.0	30			●			
	●					●					1924	1.0	30			2344	1.2	37			2323	1.1	34			●			
13 Tu	0130	1.8	55		28 W	0113	1.6	49		13 F	0037	1.4	43		28 Sa	0707	0.2	6		13 Su	0753	-0.5	-15		28 M	0656	-0.7	-21	
	0715	1.5	46			0758	1.2	37			0738	0.3	9			1452	1.3	40			1624	1.4	43			1548	1.2	37	
	1023	1.6	49			1149	1.3	40			1451	1.6	49			1955	1.1	34			●					●			
	1816	0.5	15			1824	0.8	24			2034	1.2	37			2342	1.2	37			●					●			
14 W	0143	1.7	52		29 Th	0118	1.5	46		14 Sa	0050	1.4	43		29 Su	0732	-0.1	-3		14 M	0829	-0.6	-18		29 Tu	0739	-0.9	-27	
	0724	1.3	40			0749	1.0	30			0812	0.1	3			1542	1.5	46			1707	1.4	43			1632	1.3	40	
	1225	1.6	49			1318	1.4	43			1556	1.7	52			2059	1.2	37			●					●			
	1921	0.7	21			1915	1.0	30			2139	1.3	40			2337	1.3	40			●					●			
15 Th	0157	1.6																											

Port O'Connor, Texas, 2009

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				16				1				16											
W	0843	0.5	15	Th	0714	0.5	15	Sa	2138	-0.5	-15	Su	2049	-0.4	-12	Tu	0914	0.9	27	W	2233	0.3	9
	2007	-0.5	-15		1859	-0.4	-12		0819	0.7	21		0819	1.0	30		2302	0.0	0		1144	1.1	34
2	0828	0.6	18	17	0745	0.6	18	2	0900	0.7	21	17	0922	1.0	30	2	1003	0.9	27	17	1514	1.0	30
Th	2057	-0.5	-15	F	1958	-0.6	-18	Su	2230	-0.5	-15	M	2151	-0.4	-12	W	2342	0.1	3	Th	2324	0.5	15
									0946	0.7	21		1039	0.9	27		1454	0.8	24		0550	0.8	24
3	0841	0.6	18	18	0831	0.7	21	3	0946	0.7	21	18	1039	0.9	27	3	1454	0.8	24	18	1021	0.7	21
F	2146	-0.6	-18	Sa	2058	-0.7	-21	M	2316	-0.5	-15	Tu	2245	-0.4	-12	Th				F	1722	1.0	30
									1037	0.6	18		1234	0.8	24		0018	0.2	6	●			
4	0911	0.6	18	19	0928	0.8	24	4	1037	0.6	18	19	1234	0.8	24	4	0018	0.2	6	19	0011	0.7	21
Sa	2234	-0.6	-18	Su	2155	-0.8	-24	Tu	2356	-0.4	-12	W	2333	-0.3	-9	F	1638	0.8	24	Sa	0450	0.8	24
																○				Sa	1118	0.5	15
5	0952	0.6	18	20	1033	0.8	24	5	1134	0.6	18	20	1459	0.7	21	5	0053	0.3	9	20	0056	0.8	24
Su	2319	-0.6	-18	M	2250	-0.8	-24	W				Th				Sa	0758	0.6	18	Su	0406	0.9	27
								○					●			Sa	1119	0.5	15	Su	1208	0.4	12
6	1041	0.6	18	21	1147	0.8	24	6	0030	-0.4	-12	21	0016	-0.1	-3	6	0129	0.5	15	21	1256	0.3	9
M				Tu	2340	-0.8	-24	Th	1254	0.5	15	F	1703	0.7	21	Su	0628	0.6	18	M			
				●									1158	0.5	15		1944	0.8	24		0235	1.2	37
7	0001	-0.6	-18	22	1314	0.7	21	7	0100	-0.3	-9	22	0053	0.1	3	7	0209	0.6	18	22	0235	1.2	37
Tu	1134	0.6	18	W				F	1506	0.5	15	Sa	0715	0.4	12	M	0442	0.7	21	Tu	1345	0.2	6
○												Sa	1211	0.3	9		1238	0.3	9		0313	1.2	37
8	0040	-0.6	-18	23	0026	-0.7	-21	8	0126	-0.2	-6	23	0121	0.3	9	8	1322	0.2	6	23	0313	1.2	37
W	1226	0.6	18	Th	1455	0.6	18	Sa	1658	0.4	12	Su	0631	0.5	15	Tu				W	1437	0.3	9
												Su	1318	0.1	3								
9	0113	-0.5	-15	24	0107	-0.5	-15	9	0147	0.0	0	24	0129	0.5	15	9	0328	1.0	30	24	0358	1.3	40
Th	1316	0.5	15	F	1647	0.4	12	Su	0931	0.3	9	M	0602	0.6	18	W	1414	0.2	6	Th	1537	0.3	9
								Su	1252	0.2	6		1418	0.0	0								
10	0142	-0.5	-15	25	0140	-0.3	-9	10	0153	0.1	3	25	0543	0.7	21	10	0417	1.1	34	25	0444	1.3	40
F	1400	0.4	12	Sa	0931	0.2	6	M	0738	0.3	9	Tu	1518	-0.1	-3	Th	1516	0.1	3	F	1650	0.3	9
				Sa	1321	0.1	3	M	1353	0.1	3										○		
				Sa	1848	0.3	9	M	2134	0.3	9												
11	0206	-0.4	-12	26	0203	-0.1	-3	11	0048	0.2	6	26	0539	0.8	24	11	0509	1.2	37	26	0529	1.3	40
Sa	1438	0.3	9	Su	0834	0.2	6	Tu	0610	0.4	12	W	1623	-0.1	-3	F	1630	0.1	3	Sa	1816	0.4	12
				Su	1454	0.0	0	Tu	1450	0.0	0						○						
				Su	2124	0.2	6																
12	0222	-0.2	-6	27	0155	0.1	3	12	0538	0.5	15	27	0555	0.9	27	12	0602	1.3	40	27	0612	1.3	40
Su	1324	0.2	6	M	0802	0.3	9	W	1552	-0.1	-3	Th	1737	-0.1	-3	Sa	1754	0.1	3	Su	1940	0.4	12
				M	1608	-0.2	-6						○										
13	0218	-0.1	-3	28	0739	0.4	12	13	0556	0.7	21	28	0625	0.9	27	13	0658	1.3	40	28	0651	1.3	40
M	1005	0.1	3	Tu	1718	-0.3	-9	Th	1704	-0.2	-6	F	1859	-0.1	-3	Su	1918	0.1	3	M	2050	0.5	15
	1631	0.0	0																				
	2016	0.1	3	○																			
14	0041	0.0	0	29	0725	0.5	15	14	0634	0.8	24	29	0703	1.0	30	14	0756	1.3	40	29	0721	1.2	37
Tu	0809	0.2	6	W	1826	-0.4	-12	F	1822	-0.3	-9	Sa	2017	0.0	0	M	2033	0.1	3	Tu	2149	0.5	15
	1712	-0.1	-3																				
15	0713	0.3	9	30	0727	0.6	18	15	0723	0.9	27	30	0745	1.0	30	15	0903	1.2	37	30	0735	1.1	34
W	1803	-0.3	-9	Th	1934	-0.4	-12	Sa	1939	-0.4	-12	Su	2123	0.0	0	Tu	2137	0.2	6	W	2240	0.6	18
○																							
				31	0746	0.6	18	31	0829	0.9	27	31	0829	0.9	27								
				F	2038	-0.5	-15	M	2217	0.0	0	M	2217	0.0	0								

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, 2009

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 W	0200	1.2	37	-18	16 Th	0128	1.0	30	-15	1 Sa	0347	1.5	46	-15	16 Su	0256	1.8	55	-21	1 Tu	0356	1.7	52	16 W	0239	1.9	58	0710	1.6	49	1100	1.8	55	1908	0.4	12		
2 Th	0301	1.3	40	-21	17 F	0214	1.3	40	-24	2 Su	0427	1.5	46	-15	17 M	0339	1.9	58	-21	2 W	0400	1.7	52	17 Th	0236	1.7	52	0722	1.3	40	1254	1.8	55	2009	0.7	21		
3 F	0349	1.4	43	-24	18 Sa	0304	1.5	46	-30	3 M	0503	1.5	46	-12	18 Tu	0410	1.8	55	-15	3 Th	0355	1.6	49	18 F	0228	1.5	46	0752	1.0	30	1428	1.9	58	2109	1.0	30		
4 Sa	0435	1.4	43	-24	19 Su	0355	1.6	49	-37	4 Tu	0529	1.5	46	-9	19 W	0427	1.7	52	-9	4 F	0345	1.5	46	19 Sa	0215	1.4	43	0829	0.6	18	1553	1.9	58	2213	1.2	37		
5 Su	0520	1.4	43	-24	20 M	0444	1.7	52	-37	5 W	0543	1.5	46	-3	20 Th	0429	1.5	46	0	5 Sa	0333	1.4	43	20 Su	0158	1.4	43	0910	0.3	9	1715	1.9	58					
6 M	0602	1.4	43	-21	21 Tu	0525	1.7	52	-34	6 Th	0545	1.4	43	0	21 F	0424	1.3	40	9	6 Su	0319	1.3	40	21 M	0954	0.1	3	1839	1.9	58								
7 Tu	0638	1.4	43	-18	22 W	0554	1.6	49	-27	7 F	0538	1.3	40	6	22 Sa	0414	1.2	37	21	7 M	0302	1.2	37	22 Tu	1040	0.0	0	2011	1.9	58								
8 W	0705	1.4	43	-12	23 Th	0607	1.4	43	-15	8 Sa	0527	1.2	37	9	23 Su	0402	1.1	34	30	8 Tu	0234	1.2	37	23 W	1131	0.0	0	2155	1.9	58								
9 Th	0717	1.4	43	-9	24 F	0608	1.2	37	-3	9 Su	0514	1.1	34	15	24 M	0345	1.1	34	43	9 W	1115	0.1	3	24 Th	1229	0.2	6	2333	2.0	61								
10 F	0717	1.3	40	-3	25 Sa	0602	1.1	34	9	10 M	0459	1.0	30	21	25 Tu	0051	1.1	34	46	10 Th	1211	-0.1	-3	25 F	1334	0.3	9											
11 Sa	0709	1.2	37	3	26 Su	0552	1.0	30	30	11 Tu	0439	1.0	30	6	26 W	1316	-0.2	-6		11 F	1317	-0.1	-3	26 Sa	0042	2.0	61	1445	0.5	15								
12 Su	0657	1.1	34	9	27 M	0018	0.6	18	30	12 W	0021	0.9	27	3	27 Th	0021	1.6	49	-3	12 Sa	0029	2.0	61	27 Su	0126	2.0	61	1554	0.6	18								
13 M	0643	1.0	30	21	28 Tu	0108	0.9	27	-9	13 Th	1352	-0.3	-9	28 F	0139	1.7	52	-3	13 Su	0127	2.1	64	28 M	0151	2.0	61	1656	0.8	24									
14 Tu	0001	0.5	15	24	29 W	0054	1.2	37	-12	14 F	0105	1.5	46	29 Sa	0230	1.7	52	0	14 M	0208	2.1	64	29 Tu	0202	2.0	61	1749	0.9	27									
15 W	0040	0.7	21	-6	30 Th	0214	1.3	40	-15	15 Sa	0205	1.7	52	30 Su	0311	1.7	52	3	15 Tu	0232	2.0	61	30 W	0200	1.9	58	0718	1.7	52	1101	1.8	55	1837	1.0	30			
15 O	0554	0.9	27	-2	31 F	0302	1.4	43	-18				31 M	0340	1.8	55	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.

Padre Island (south end), Texas, 2009

Times and Heights of High and Low Waters

October				November				December																
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height											
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm										
1 Th	0152	1.8	55	16 F	0022	1.6	49	1 Su	0705	0.4	12	16 M	0747	-0.3	-9	1 Tu	0716	-0.5	-15	16 W	0820	-0.6	-18	
	0715	1.5	46		0651	0.8	24		1537	2.0	61		1723	2.2	67		1703	2.1	64		1832	1.8	55	
	1233	1.8	55		1416	2.1	64		●															
	1924	1.1	34		2028	1.5	46																	
2 F	0141	1.7	52	17 Sa	0002	1.6	49	2 M	0737	0.1	3	17 Tu	0828	-0.3	-9	2 W	0802	-0.7	-21	17 Th	0901	-0.5	-15	
	0727	1.3	40		0726	0.5	15		1636	2.1	64		1820	2.1	64		1801	2.1	64		1916	1.8	55	
	1347	1.8	55		1534	2.2	67		○															
	2013	1.2	37		●																			
3 Sa	0127	1.6	49	18 Su	0804	0.2	6	3 Tu	0814	-0.1	-3	18 W	0910	-0.3	-9	3 Th	0851	-0.8	-24	18 F	0938	-0.3	-9	
	0745	1.0	30		1646	2.2	67		1739	2.2	67		1918	2.1	64		1859	2.2	67		1952	1.7	52	
	1453	1.9	58																					
	2109	1.3	40																					
4 Su	0110	1.5	46	19 M	0844	0.0	0	4 W	0857	-0.3	-9	19 Th	0952	-0.2	-6	4 F	0942	-0.7	-21	19 Sa	1013	-0.2	-6	
	0809	0.7	21		1754	2.2	67		1847	2.3	70		2016	2.1	64		1950	2.1	64		2015	1.7	52	
	1557	1.9	58																					
	2221	1.4	43																					
5 M	0039	1.5	46	20 Tu	0926	0.0	0	5 Th	0946	-0.3	-9	20 F	1034	0.0	0	5 Sa	1034	-0.5	-15	20 Su	1044	0.0	0	
	0839	0.4	12		1904	2.2	67		1958	2.3	70		2106	2.1	64		2028	2.0	61		2022	1.6	49	
	1704	2.0	61																					
6 Tu	0915	0.2	6	21 W	1011	0.0	0	6 F	1039	-0.3	-9	21 Sa	1115	0.2	6	6 Su	1127	-0.2	-6	21 M	1112	0.2	6	
	1817	2.1	64		2019	2.2	67		2105	2.4	73		2142	2.0	61		2048	1.9	58		2018	1.5	46	
7 W	0958	0.0	0	22 Th	1058	0.1	3	7 Sa	1137	-0.1	-3	22 Su	1155	0.4	12	7 M	1220	0.1	3	22 Tu	1140	0.4	12	
	1941	2.1	64		2136	2.2	67		2157	2.3	70		2159	2.0	61		2053	1.7	52		2006	1.4	43	
8 Th	1050	0.0	0	23 F	1149	0.3	9	8 Su	1237	0.1	3	23 M	1234	0.7	21	8 Tu	1316	0.5	15	23 W	1207	0.6	18	
	2113	2.2	67		2243	2.2	67		2228	2.2	67		2201	1.9	58		2047	1.5	46		1951	1.3	40	
9 F	1148	0.0	0	24 Sa	1244	0.5	15	9 M	1342	0.5	15	24 Tu	1315	0.9	27	9 W	0332	0.8	24	24 Th	0329	0.7	21	
	2238	2.3	70		2328	2.2	67		2241	2.0	61		2153	1.8	55		0910	1.2	37		0910	0.9	27	
10 Sa	1255	0.1	3	25 Su	1341	0.7	21	10 Tu	1454	0.8	24	25 W	1404	1.1	34	10 Th	0404	0.4	12	25 F	0340	0.4	12	
	2340	2.3	70		2352	2.1	64		2240	1.8	55		2140	1.7	52		1205	1.3	40		1901	1.2	37	
11 Su	1407	0.2	6	26 M	1441	1.0	30	11 W	0503	1.3	40	26 Th	0507	1.1	34	11 F	0443	0.0	0	26 Sa	0408	0.0	0	
	●				2358	2.1	64		1012	1.6	49		1123	1.3	40		1358	1.6	49		1413	1.2	37	
12 M	0019	2.3	70	27 Tu	1542	1.1	34	12 Th	0520	0.9	27	27 F	0511	0.7	21	12 Sa	0525	-0.3	-9	27 Su	0444	-0.3	-9	
	1523	0.4	12		2354	2.0	61		1231	1.7	52		1312	1.5	46		1509	1.7	52		1450	1.4	43	
13 Tu	0037	2.1	64	28 W	0632	1.6	49	13 F	0551	0.5	15	28 Sa	0531	0.4	12	13 Su	0609	-0.5	-15	28 M	0527	-0.6	-18	
	1638	0.7	21		1007	1.7	52		1407	1.9	58		1418	1.7	52		1604	1.8	55		1536	1.6	49	
14 W	0040	2.0	61	29 Th	0613	1.4	43	14 Sa	0628	0.1	3	29 Su	0559	0.1	3	14 M	0654	-0.6	-18	29 Tu	0615	-0.9	-27	
	0610	1.6	49		1210	1.7	52		1522	2.1	64		1513	1.8	55		1655	1.8	55		1626	1.7	52	
	1043	1.8	55		1753	1.4	43																	
	1753	1.0	30		2330	1.7	52																	
15 Th	0034	1.8	55	30 F	0621	1.1	34	15 Su	0706	-0.1	-3	30 M	0635	-0.3	-9	15 Tu	0737	-0.7	-21	30 W	0705	-1.0	-30	
	0622	1.2	37		1331	1.8	55		1625	2.1	64		1607	1.9	58		1744	1.8	55		1716	1.8	55	
	1243	1.9	58		1909	1.5	46																	
	1908	1.2	37		2311	1.6	49																	
				31 Sa	0640	0.8	24									31 Th	0756	-1.1	-34					
					1437	1.9	58										1804	1.8	55					
																○								

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, 2009

Times and Heights of High and Low Waters

October				November				December																	
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height												
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm											
1 Th	0111	1.4	43	16 F	0011	1.3	40	1 Su	0653	0.3	9	16 M	0734	-0.4	-12	1 Tu	0700	-0.5	-15	16 W	0756	-0.6	-18		
	0650	1.1	34		0646	0.6	18		1519	1.7	52		1645	1.6	49		1636	1.7	52		1739	1.3	40		
	1224	1.5	46		1348	1.7	52																		
	1913	0.9	27		2014	1.0	30																		
2 F	0107	1.4	43	17 Sa	0011	1.2	37	2 M	0726	0.0	0	17 Tu	0809	-0.4	-12	2 W	0744	-0.7	-21	17 Th	0831	-0.6	-18		
	0709	0.9	27		0720	0.3	9		1611	1.8	55		1735	1.6	49		1727	1.7	52		1808	1.3	40		
	1338	1.6	49		1502	1.7	52																		
	1957	1.0	30		2113	1.1	34																		
3 Sa	0105	1.4	43	18 Su	0006	1.2	37	3 Tu	0800	-0.2	-6	18 W	0843	-0.4	-12	3 Th	0828	-0.8	-24	18 F	0905	-0.5	-15		
	0732	0.7	21		0754	0.1	3		1709	1.8	55		1820	1.5	46		1816	1.7	52		1830	1.2	37		
	1439	1.6	49		1606	1.7	52																		
	2038	1.1	34																						
4 Su	0103	1.4	43	19 M	0828	-0.1	-3	4 W	0838	-0.3	-9	19 Th	0919	-0.4	-12	4 F	0915	-0.7	-21	19 Sa	0940	-0.3	-9		
	0758	0.5	15		1711	1.7	52		1812	1.8	55		1903	1.4	43		1902	1.7	52		1846	1.2	37		
	1534	1.7	52																						
	2121	1.2	37																						
5 M	0057	1.3	40	20 Tu	0903	-0.2	-6	5 Th	0921	-0.4	-12	20 F	0959	-0.2	-6	5 Sa	1007	-0.6	-18	20 Su	1017	-0.1	-3		
	0826	0.3	9		1814	1.6	49		1917	1.8	55		1947	1.4	43		1942	1.6	49		1858	1.2	37		
	1633	1.7	52																						
6 Tu	0858	0.1	3	21 W	0941	-0.2	-6	6 F	1012	-0.4	-12	21 Sa	1045	-0.1	-3	6 Su	1108	-0.3	-9	21 M	1058	0.1	3		
	1744	1.7	52		1918	1.6	49		2044	1.8	55		2034	1.4	43		2008	1.4	43		1907	1.2	37		
7 W	0936	0.0	0	22 Th	1025	-0.1	-3	7 Sa	1115	-0.2	-6	22 Su	1139	0.1	3	7 M	1212	0.0	0	22 Tu	1141	0.3	9		
	1903	1.8	55		2100	1.6	49		2158	1.8	55		2106	1.4	43		2017	1.3	40		1912	1.2	37		
8 Th	1025	-0.1	-3	23 F	1120	0.0	0	8 Su	1222	0.0	0	23 M	1229	0.4	12	8 Tu	0229	0.9	27	23 W	0203	0.7	21		
	2127	1.8	55		2222	1.5	46		2226	1.7	52		2117	1.3	40		0552	1.0	30		0600	0.8	24		
																	1312	0.4	12		1219	0.6	18		
																	2017	1.2	37		1914	1.1	34		
9 F	1128	-0.1	-3	24 Sa	1220	0.2	6	9 M	1328	0.2	6	24 Tu	1315	0.6	18	9 W	0301	0.7	21	24 Th	0230	0.5	15		
	2243	1.9	58		2254	1.5	46		2233	1.5	46		2121	1.3	40		0841	1.0	30		1014	0.8	24		
																	1418	0.7	21		1247	0.7	21		
																	2014	1.1	34		1908	1.1	34		
10 Sa	1235	0.0	0	25 Su	1316	0.4	12	10 Tu	1442	0.5	15	25 W	0420	0.9	27	10 Th	0345	0.4	12	25 F	0304	0.3	9		
	2327	1.9	58		2309	1.5	46		2230	1.4	43		0822	1.0	30		1124	1.1	34		1843	1.1	34		
													1404	0.8	24		1615	1.0	30						
													2121	1.3	40		1959	1.1	34						
11 Su	1343	0.1	3	26 M	1414	0.6	18	11 W	0443	1.0	30	26 Th	0423	0.7	21	11 F	0429	0.0	0	26 Sa	0342	0.1	3		
					2314	1.5	46		1002	1.2	37		1114	1.1	34		1337	1.3	40		1443	1.2	37		
									1615	0.8	24		1526	1.0	30										
									2225	1.3	40		2118	1.2	37										
12 M	0000	1.8	55	27 Tu	1526	0.8	24	12 Th	0507	0.7	21	27 F	0443	0.5	15	12 Sa	0512	-0.2	-6	27 Su	0422	-0.2	-6		
	1502	0.3	9		2314	1.5	46		1152	1.4	43		1258	1.2	37		1453	1.4	43		1457	1.4	43		
									1754	1.0	30		1726	1.1	34										
									2223	1.2	37		2108	1.2	37										
13 Tu	0018	1.7	52	28 W	0535	1.1	34	13 F	0541	0.3	9	28 Sa	0510	0.3	9	13 Su	0556	-0.4	-12	28 M	0505	-0.4	-12		
	1627	0.5	15		1033	1.3	40		1339	1.5	46		1421	1.4	43		1542	1.4	43		1527	1.5	46		
					1638	0.9	27		1950	1.1	34														
					2313	1.4	43		2218	1.2	37														
14 W	0019	1.5	46	29 Th	0539	1.0	30	14 Sa	0619	0.0	0	29 Su	0542	0.0	0	14 M	0639	-0.6	-18	29 Tu	0553	-0.7	-21		
	0600	1.2	37		1153	1.4	43		1455	1.6	49		1507	1.5	46		1624	1.4	43		1602	1.6	49		
	1041	1.5	46		1748	1.1	34																		
	1746	0.7	21		2312	1.4	43																		
15 Th	0014	1.4	43	30 F	0558	0.8	24	15 Su	0657	-0.2	-6	30 M	0619	-0.3	-9	15 Tu	0719	-0.6	-18	30 W	0644	-0.8	-24		
	0616	0.9	27		1317	1.5	46		1552	1.6	49		1550	1.6	49		1704	1.4	43		1642	1.6	49		
	1215	1.6	49		1906	1.2	37																		
	1906	0.9	27		2310	1.3	40																		
			31 Sa	0624	0.5	15																			
				1426	1.6	49																			
				2015	1.2	37																			
				2305	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 the chart datum of soundings.

Cristobal (Colon), Panama, 2009

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 W	0322	-0.1	-3		16 Th	0246	0.0	0		1 Sa	0451	-0.2	-6		16 Su	0343	-0.2	-6		1 Tu	0523	0.0	0		16 W	0414	-0.1	-3		
	0800	0.2	6			0638	0.2	6			0956	0.1	3			0826	0.2	6			1053	0.3	9			1010	0.6	18		
	1259	-0.1	-3			1146	-0.1	-3			1314	0.0	0			1248	-0.1	-3			1404	0.2	6			1522	0.2	6		
	2038	1.3	40			1941	1.3	40			2125	1.2	37			2038	1.4	43			2159	1.0	30			2200	1.0	30		
2 Th	0429	-0.2	-6		17 F	0339	-0.1	-3		2 Su	0548	-0.1	-3		17 M	0429	-0.2	-6		2 W	0604	0.1	3		17 Th	0453	0.0	0		
	0912	0.1	3			0734	0.1	3			1104	0.1	3			0922	0.2	6			1150	0.3	9			1108	0.7	21		
	1319	-0.1	-3			1215	-0.2	-6			1320	0.0	0			1342	-0.1	-3			1447	0.2	6			1653	0.2	6		
	2118	1.3	40			2021	1.4	43			2204	1.2	37			2128	1.4	43			2240	0.9	27			2305	0.8	24		
3 F	0534	-0.2	-6		18 Sa	0431	-0.1	-3		3 M	0645	-0.1	-3		18 Tu	0515	-0.2	-6		3 Th	0638	0.1	3		18 F	0534	0.1	3		
	1036	0.0	0			0833	0.0	0			2241	1.1	34			1025	0.2	6			1245	0.4	12			1207	0.8	24		
	1328	-0.1	-3			1251	-0.2	-6			0738	-0.1	-3			1444	0.0	0			1602	0.3	9			1832	0.1	3		
	2158	1.3	40			2105	1.5	46			2241	1.1	34			2220	1.3	40			2327	0.8	24			●				
4 Sa	0637	-0.2	-6		19 Su	0522	-0.2	-6		4 Tu	0738	-0.1	-3		19 W	0600	-0.1	-3		4 F	0705	0.2	6		19 Sa	0023	0.6	18		
	2237	1.2	37			0939	0.0	0			2318	1.0	30			1135	0.3	9			1326	0.5	15			0616	0.1	3		
						1333	-0.2	-6			0821	-0.1	-3			1601	0.1	3			1800	0.4	12			1305	1.0	30		
						2152	1.5	46			2356	1.0	30			2317	1.1	34			○					2007	0.1	3		
5 Su	0736	-0.3	-9		20 M	0612	-0.3	-9		5 W	0821	-0.1	-3		20 Th	0645	-0.1	-3		5 Sa	0026	0.6	18		20 Su	0153	0.5	15		
	2316	1.2	37			1054	0.0	0			2356	1.0	30			1246	0.5	15			0724	0.2	6			0700	0.2	6		
						1423	-0.1	-3			0852	-0.1	-3			1736	0.2	6			1359	0.6	18			1400	1.1	34		
						2243	1.5	46			○				●						2004	0.3	9			2127	0.0	0		
6 M	0829	-0.3	-9		21 Tu	0659	-0.3	-9		6 Th	0852	-0.1	-3		21 F	0020	1.0	30		6 Su	0142	0.5	15		21 M	0322	0.5	15		
	2353	1.1	34			1217	0.1	3			0038	0.8	24			0728	-0.1	-3			0738	0.3	9			0747	0.2	6		
						1524	0.0	0			0913	0.0	0			1351	0.6	18			1430	0.7	21			1453	1.2	37		
						●	2336	1.4	43			○				1922	0.2	6			2137	0.2	6			2231	-0.1	-3		
7 Tu	0913	-0.3	-9		22 W	0744	-0.3	-9		7 F	0038	0.8	24		22 Sa	0130	0.8	24		7 M	0305	0.4	12		22 Tu	0439	0.4	12		
						1338	0.2	6			0913	0.0	0			0811	0.0	0			0752	0.3	9			0837	0.3	9		
						1647	0.1	3			0125	0.7	21			1449	0.8	24			1503	0.9	27			1543	1.2	37		
											2104	0.1	3			2104	0.1	3			2241	0.1	3			2325	-0.2	-6		
8 W	0030	1.1	34		23 Th	0033	1.3	40		8 Sa	0125	0.7	21		23 Su	0247	0.6	18		8 Tu	0416	0.4	12		23 W	0540	0.4	12		
	0947	-0.3	-9			0826	-0.3	-9			0926	0.0	0			0853	0.0	0			0812	0.3	9			0926	0.3	9		
						1446	0.3	9			1637	0.5	15			1542	1.0	30			1540	1.0	30			1630	1.2	37		
						1833	0.2	6			2039	0.4	12			2229	0.0	0			2330	0.0	0							
9 Th	0107	1.0	30		24 F	0133	1.1	34		9 Su	0220	0.6	18		24 M	0403	0.5	15		9 W	0510	0.3	9		24 Th	0012	-0.2	-6		
	1012	-0.2	-6			0906	-0.3	-9			0934	0.1	3			0934	0.0	0			0843	0.2	6			0628	0.4	12		
						1542	0.5	15			1636	0.6	18			1631	1.1	34			1620	1.1	34			1013	0.3	9		
						2026	0.2	6			2229	0.3	9			2026	0.2	6								1715	1.2	37		
10 F	0144	0.9	27		25 Sa	0236	0.9	27		10 M	0321	0.5	15		25 Tu	0513	0.5	15		10 Th	0014	-0.1	-3		25 F	0056	-0.2	-6		
	1029	-0.2	-6			0944	-0.3	-9			0942	0.1	3			1015	0.1	3			0550	0.3	9			0708	0.4	12		
						1631	0.7	21			1651	0.8	24			1717	1.2	37			0924	0.2	6			1056	0.3	9		
						2210	0.2	6			2342	0.2	6			●					1703	1.3	40			●	1758	1.2	37	
11 Sa	0223	0.8	24		26 Su	0343	0.7	21		11 Tu	0421	0.4	12		26 W	0037	-0.1	-3		11 F	0055	-0.1	-3		26 Sa	0136	-0.1	-3		
	1040	-0.2	-6			1020	-0.2	-6			0954	0.1	3			0614	0.4	12			0625	0.3	9			0744	0.4	12		
	1826	0.5	15			1717	0.9	27			1716	0.9	27			1055	0.1	3			1011	0.1	3			1137	0.3	9		
	2129	0.4	12			2338	0.1	3							1802	1.2	37			○	1748	1.3	40			1838	1.2	37		
12 Su	0307	0.7	21		27 M	0451	0.6	18		12 W	0038	0.1	3		27 Th	0130	-0.2	-6		12 Sa	0135	-0.2	-6		27 Su	0213	-0.1	-3		
	1048	-0.1	-3			1056	-0.2	-6			0516	0.3	9			0707	0.4	12			0700	0.3	9			0818	0.5	15		
	1810	0.6	18			1800	1.1	34			1014	0.0	0			1132	0.1	3			1103	0.1	3			1216	0.3	9		
	2323	0.4	12								1748	1.1	34			○	1845	1.2	37			1834	1.4	43			1916	1.1	34	
13 M	0355	0.5	15		28 Tu	0053	0.0	0		13 Th	0127	0.0	0		28 F	0219	-0.1	-3		13 Su	0215	-0.2	-6		28 M	0248	0.0	0		
	1056	-0.1	-3			0558	0.4	12			0605	0.2	6			0753	0.3	9			0740	0.3	9			0852	0.5	15		
	1818	0.8	24			1130	-0.1	-3			1042	0.0	0			1206	0.1	3												

Cristobal (Colon), Panama, 2009

Times and Heights of High and Low Waters

October				November				December																					
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height																
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm															
1 Th	0412	0.2	6		16 F	0345	0.1	3		1 Su	0240	0.2	6		16 M	1154	1.4	43		1 Tu	1108	1.5	46		16 W	1210	1.3	40	
	1036	0.6	18			1045	1.1	34			1059	1.1	34			2035	-0.2	-6			2007	-0.2	-6			2113	-0.3	-9	
	1605	0.4	12			1751	0.1	3			1938	0.1	3			●					●					●			
	2159	0.7	21			2309	0.5	15																					
2 F	0430	0.2	6		17 Sa	0416	0.2	6		2 M	1140	1.2	37		17 Tu	1241	1.4	43		2 W	1156	1.5	46		17 Th	1251	1.3	40	
	1112	0.7	21			1135	1.2	37			2034	-0.1	-3			2126	-0.2	-6			2050	-0.3	-9			2153	-0.3	-9	
	1741	0.3	9			1918	0.0	0			○					○					○					○			
	2304	0.5	15																										
3 Sa	0443	0.3	9		18 Su	0054	0.4	12		3 Tu	1227	1.3	40		18 W	1327	1.3	40		3 Th	1247	1.5	46		18 F	1331	1.2	37	
	1149	0.8	24			0447	0.2	6			2120	-0.2	-6			2210	-0.3	-9			2129	-0.3	-9			2226	-0.2	-6	
	1921	0.2	6			1226	1.2	37			●					●					●					●			
						2032	-0.1	-3																					
4 Su	0041	0.4	12		19 M	0252	0.4	12		4 W	1317	1.4	43		19 Th	1411	1.3	40		4 F	1340	1.5	46		19 Sa	1409	1.1	34	
	0449	0.3	9			0518	0.3	9			2200	-0.2	-6			2248	-0.2	-6			2205	-0.4	-12			2252	-0.2	-6	
	1229	0.9	27			1317	1.3	40			○					○					○					○			
	2041	0.1	3			2132	-0.2	-6																					
5 M	1312	1.0	30		20 Tu	1407	1.3	40		5 Th	1408	1.4	43		20 F	1453	1.2	37		5 Sa	1433	1.4	43		20 Su	1446	1.0	30	
	2139	0.0	0			2223	-0.2	-6			2238	-0.3	-9			2321	-0.2	-6			2239	-0.4	-12			2312	-0.2	-6	
6 Tu	1358	1.2	37		21 W	1456	1.3	40		6 F	1500	1.4	43		21 Sa	1533	1.1	34		6 Su	0532	0.5	15		21 M	1523	0.9	27	
	2225	-0.1	-3			2307	-0.2	-6			2314	-0.3	-9			2348	-0.2	-6			0827	0.4	12			2327	-0.1	-3	
7 W	1446	1.3	40		22 Th	1542	1.2	37		7 Sa	0605	0.4	12		22 Su	1610	1.1	34		7 M	0602	0.7	21		22 Tu	0703	0.6	18	
	2306	-0.2	-6			2346	-0.2	-6			0816	0.3	9			1622	1.1	34			1014	0.4	12			1050	0.5	15	
											1552	1.4	43			2343	-0.3	-9			1622	1.1	34			1602	0.8	24	
											2348	-0.3	-9								2343	-0.3	-9			2339	-0.1	-3	
8 Th	1535	1.3	40		23 F	0650	0.5	15		8 Su	0627	0.5	15		23 M	0011	-0.1	-3		8 Tu	0638	0.8	24		23 W	0704	0.7	21	
	2345	-0.2	-6			0910	0.4	12			0951	0.4	12			0736	0.6	18			1151	0.4	12			1224	0.5	15	
						1625	1.2	37			1644	1.3	40			1038	0.5	15			1719	0.9	27			1645	0.6	18	
																1646	1.0	30			○					2350	-0.1	-3	
9 F	0610	0.3	9		24 Sa	0021	-0.2	-6		9 M	0021	-0.3	-9		24 Tu	0030	-0.1	-3		9 W	0014	-0.3	-9		24 Th	0716	0.9	27	
	0839	0.2	6			0716	0.5	15			0658	0.7	21			0745	0.7	21			0716	1.0	30			1343	0.4	12	
	1624	1.4	43			1008	0.4	12			1118	0.4	12			1201	0.5	15			1321	0.3	9			1732	0.5	15	
						1705	1.2	37			○	1736	1.2	37			○	1723	0.8		24		1819	0.7		21		○	
10 Sa	0022	-0.2	-6		25 Su	0053	-0.1	-3		10 Tu	0052	-0.2	-6		25 W	0045	-0.1	-3		10 Th	0043	-0.2	-6		25 F	0001	0.0	0	
	0633	0.4	12			0740	0.5	15			0735	0.8	24			0800	0.8	24			0756	1.2	37			0736	1.0	30	
	0952	0.3	9			1103	0.4	12			1244	0.4	12			1322	0.5	15			1445	0.2	6			1453	0.2	6	
	1713	1.4	43			○	1742	1.1	34			1829	1.0	30			1803	0.7	21			1924	0.5	15			1824	0.3	9
11 Su	0058	-0.2	-6		26 M	0121	-0.1	-3		11 W	0123	-0.2	-6		26 Th	0059	0.0	0		11 F	0110	-0.1	-3		26 Sa	0013	0.0	0	
	0705	0.5	15			0805	0.6	18			0815	1.0	30			0819	0.9	27			0836	1.3	40			0802	1.2	37	
	1101	0.3	9			1200	0.5	15			1410	0.3	9			1443	0.4	12			1605	0.0	0			1555	0.1	3	
	1803	1.3	40			○	1819	1.0	30			1926	0.8	24			1847	0.5	15			2037	0.3	9			1921	0.2	6
12 M	0133	-0.2	-6		27 Tu	0145	0.0	0		12 Th	0151	-0.1	-3		27 F	0110	0.0	0		12 Sa	0134	0.0	0		27 Su	0028	-0.1	-3	
	0742	0.6	18			0830	0.7	21			0856	1.1	34			0843	1.0	30			0918	1.4	43			0834	1.3	40	
	1211	0.3	9			1302	0.4	12			1538	0.2	6			1602	0.3	9			1718	-0.1	-3			1654	0.0	0	
	1853	1.2	37			1856	0.9	27			2031	0.6	18			1939	0.4	12			2203	0.2	6			2024	0.1	3	
13 Tu	0207	-0.2	-6		28 W	0205	0.0	0		13 F	0218	0.0	0		28 Sa	0119	0.1	3		13 Su	0152	0.0	0		28 M	0048	-0.1	-3	
	0823	0.7	21			0855	0.7	21			0939	1.3	40			0911	1.2	37			1000	1.4	43			0912	1.4	43	
	1326	0.3	9			1412	0.4	12			1705	0.1	3			1717	0.1	3			1826	-0.2	-6			1748	-0.1	-3	
	1945	1.1	34			1935	0.7	21			2151	0.4	12			2047	0.2	6								2136	0.0	0	
14 W	0240	-0.1	-3		29 Th	0222	0.1	3		14 Sa	0241	0.1	3		29 Su	0127	0.1	3		14 M	1043	1.4	43		29 Tu	0113	-0.1	-3	
	0909	0.8	24			0922	0.8	24			1023	1.3	40			0945	1.3	40			1928	-0.2	-6			0954	1.5	46	
	1448	0.2	6			1532	0.4	12			1826	0.0	0			1824	0.0	0								1839	-0.2	-6	
	2041	0.9	27			2020	0.6	18			2335	0.3	9			2219	0.1	3								2301	0.0	0	
15 Th	0313	0.0	0		30 F	0234	0.2	6		15 Su	0257	0.2	6		30 M	0132	0.0	0		15 Tu	112								

Bermuda Esso Pier, St. Georges Island, Bermuda, 2009

Times and Heights of High and Low Waters

January				February				March															
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height										
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm									
1 Th	0457	0.3	9	16 F	0007	2.7	82	1 Su	0610	0.2	6	16 M	0111	2.4	73	1 Su	0504	-0.1	-3	16 M	0604	0.1	3
	1112	2.5	76		0617	0.0	0		1204	2.1	64		0736	0.4	12		1059	2.2	67		1153	1.9	58
	1734	0.1	3		1220	2.4	73		1814	-0.1	-3		1321	1.7	52		1703	-0.3	-9		1753	0.1	3
	2343	2.2	67		1835	-0.2	-6		0	1925	0.2		6	2333	2.7		82	0	0		0		
2 F	0542	0.3	9	17 Sa	0101	2.6	79	2 M	0048	2.5	76	17 Tu	0210	2.2	67	2 M	0554	0.0	0	17 Tu	0028	2.4	73
	1150	2.4	73		0716	0.2	6		0709	0.3	9		0842	0.5	15		1143	2.0	61		0655	0.3	9
	1811	0.1	3		1311	2.1	64		1255	1.9	58		1421	1.6	49		1748	-0.2	-6		1240	1.7	52
0	0	0	1923		0.0	0	1905		-0.1	-3	2023		0.3	9	0		0	0	1840		0.2	6	
3 Sa	0029	2.3	70	18 Su	0158	2.5	76	3 Tu	0149	2.5	76	18 W	0315	2.2	67	3 Tu	0026	2.6	79	18 W	0122	2.2	67
	0634	0.4	12		0821	0.4	12		0818	0.3	9		0954	0.5	15		0652	0.2	6		0755	0.5	15
	1235	2.2	67		1408	1.9	58		1359	1.8	55		1532	1.5	46		1237	1.9	58		1337	1.6	49
	1853	0.1	3		2015	0.2	6		2007	0.0	0		2131	0.4	12		1843	-0.1	-3		1938	0.4	12
4 Su	0122	2.4	73	19 M	0259	2.4	73	4 W	0259	2.6	79	19 Th	0422	2.2	67	4 W	0129	2.6	79	19 Th	0227	2.1	64
	0735	0.5	15		0929	0.5	15		0935	0.3	9		1100	0.5	15		0802	0.3	9		0904	0.6	18
	1328	2.1	64		1510	1.7	52		1514	1.7	52		1640	1.6	49		1345	1.7	52		1447	1.5	46
	1942	0.1	3		2113	0.3	9		2119	-0.1	-3		2237	0.3	9		1950	0.0	0		2048	0.4	12
5 M	0221	2.5	76	20 Tu	0401	2.4	73	5 Th	0411	2.7	82	20 F	0521	2.2	67	5 Th	0242	2.5	76	20 F	0336	2.1	64
	0845	0.5	15		1037	0.5	15		1049	0.2	6		1153	0.4	12		0920	0.3	9		1012	0.5	15
	1430	2.0	61		1615	1.7	52		1631	1.8	55		1738	1.7	52		1504	1.7	52		1559	1.6	49
	2039	0.1	3		2212	0.3	9		2233	-0.2	-6		2334	0.2	6		2109	0.0	0		2159	0.4	12
6 Tu	0326	2.7	82	21 W	0459	2.4	73	6 F	0520	2.9	88	21 Sa	0610	2.4	73	6 F	0358	2.6	79	21 Sa	0438	2.1	64
	0957	0.4	12		1136	0.4	12		1154	0.0	0		1236	0.2	6		1034	0.2	6		1108	0.4	12
	1539	1.9	58		1715	1.7	52		1741	2.0	61		1825	1.8	55		1624	1.9	58		1701	1.7	52
	2143	0.0	0		2309	0.2	6		2342	-0.3	-9		0	0	0		2227	-0.1	-3		2301	0.3	9
7 W	0431	2.9	88	22 Th	0552	2.5	76	7 Sa	0620	3.0	91	22 Su	0023	0.1	3	7 Sa	0507	2.7	82	22 Su	0529	2.2	67
	1105	0.2	6		1225	0.3	9		1249	-0.2	-6		0651	2.5	76		1137	0.0	0		1152	0.3	9
	1648	2.0	61		1807	1.8	55		1841	2.3	70		1313	0.1	3		1733	2.1	64		1751	1.9	58
	2248	-0.1	-3		0	0	0		0	0	1907		2.0	61	2337		-0.3	-9	2353		0.1	3	
8 Th	0533	3.1	94	23 F	0000	0.2	6	8 Su	0043	-0.5	-15	23 M	0106	-0.1	-3	8 Su	0607	2.8	85	23 M	0613	2.3	70
	1207	0.0	0		0637	2.6	79		0715	3.2	98		0728	2.6	79		1230	-0.2	-6		1230	0.1	3
	1752	2.1	64		1307	0.2	6		1339	-0.4	-12		1347	-0.1	-3		1831	2.4	73		1833	2.2	67
	2351	-0.3	-9		1852	1.9	58		1936	2.5	76		1945	2.2	67		0	0	0		0	0	
9 F	0632	3.3	101	24 Sa	0046	0.1	3	9 M	0139	-0.6	-18	24 Tu	0146	-0.2	-6	9 M	0037	-0.4	-12	24 Tu	0038	0.0	0
	1303	-0.2	-6		0718	2.7	82		0804	3.2	98		0803	2.6	79		0659	2.9	88		0652	2.4	73
	1851	2.3	70		1345	0.1	3		1425	-0.6	-18		1418	-0.2	-6		1317	-0.4	-12		1304	-0.1	-3
	0	0	0		1933	2.0	61		2027	2.7	82		2021	2.4	73		1922	2.6	79		1912	2.4	73
10 Sa	0050	-0.5	-15	25 Su	0127	0.0	0	10 Tu	0232	-0.7	-21	25 W	0224	-0.2	-6	10 Tu	0130	-0.5	-15	25 W	0120	-0.1	-3
	0727	3.4	104		0756	2.7	82		0851	3.2	98		0837	2.6	79		0746	2.9	88		0729	2.5	76
	1355	-0.3	-9		1420	0.0	0		1508	-0.6	-18		1449	-0.3	-9		1359	-0.6	-18		1337	-0.2	-6
	1947	2.5	76		2011	2.1	64		2115	2.8	85		2056	2.5	76		2009	2.8	85		1949	2.6	79
11 Su	0147	-0.6	-18	26 M	0206	-0.1	-3	11 W	0322	-0.6	-18	26 Th	0301	-0.3	-9	11 W	0220	-0.6	-18	26 Th	0201	-0.3	-9
	0819	3.5	107		0831	2.8	85		0936	3.0	91		0910	2.6	79		0830	2.9	88		0805	2.5	76
	1445	-0.5	-15		1452	-0.1	-3		1550	-0.6	-18		1520	-0.3	-9		1440	-0.6	-18		1410	-0.3	-9
	2040	2.6	79		2047	2.2	67		2201	2.9	88		2131	2.6	79		2053	3.0	91		2026	2.8	85
12 M	0241	-0.6	-18	27 Tu	0244	-0.1	-3	12 Th	0410	-0.5	-15	27 F	0340	-0.3	-9	12 Th	0306	-0.6	-18	27 F	0241	-0.3	-9
	0908	3.4	104		0904	2.8	85		1019	2.8	85		0944	2.5	76		0912	2.7	82		0842	2.5	76
	1532	-0.5	-15		1524	-0.1	-3		1631	-0.5	-15		1551	-0.3	-9		1518	-0.6	-18		1444	-0.4	-12
	2132	2.7	82		2123	2.3	70		2247	2.8	85		2208	2.7	82		2136	3.0	91		2104	2.9	88
13 Tu	0335	-0.6	-18	28 W	0321	-0.1	-3	13 F	0459	-0.3	-9	28 Sa	0420	-0.2	-6	13 F	0351	-0.5	-15	28 Sa	0322	-0.3	-9
	0957	3.3	101		0937	2.7	82		1102	2.5	76		1020	2.4	73		0952	2.5	76		0920	2.4	73
	1618	-0.5	-15		1555	-0.2	-6		1711	-0.4	-12		1625	-0.3	-9		1556	-0.5	-15		1521	-0.4	-12
	2223	2.7	82		2158	2.4	73		2332	2.7	82		2248	2.7	82		2217	2.9	88		2144	3.0	91
14 W	0427	-0.4	-12	29 Th	0358	-0.1	-3	14 Sa	0548	-0.1	-3	14 Sa	0434	-0.3	-9	14 Sa	0434	-0.3	-9	29 Su	0405	-0.3	-9
	1044	3.0	91		1010	2.6	79		1145	2.2	67		1032	2.3	70		1032	2.3	70		1000	2.3	70
	1703	-0.4	-12		1625	-0.2	-6		1752	-0.2	-6		1634	-0.3	-9		1634	-0.3	-9		1600	-0.4	-12
	2315	2.7	82		2234	2.4	73		0	0	0		2258	2.8	85		2258	2.8	85		2228	3.0	91
15 Th	0521	-0.2	-6	30 F	0438	0.0	0	15 Su	0020	2.6	79	15 Su	0518	-0.1	-3	15 Su	0518	-0.1	-3	30 M	0452	-0.2	-6
	1132	2.7	82		1044	2.5	76		0639	0.2	6		1111	2.1	64		1111	2.1	64		1043	2.2	67
	1749	-0.3	-9		1657	-0.2	-6		1230	2.0	61		1712	-0.1	-3		1712	-0.1	-3		1643	-0.3	-9
	0	0	0		2313	2.5	76		1835	0.0	0		2341	2.6	79		2341	2.6	79		2317	2.9	88
				31 Sa	0521	0.1	3											31 Tu	0544	0.0	0		
					1121	2.3	70														1133	2.0	61

Bermuda Esso Pier, St. Georges Island, Bermuda, 2009

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 W	0013 2.8 85 0644 0.1 3 1231 1.9 58 1834 -0.1 -3	16 Th	0042 2.3 70 0714 0.5 15 1301 1.7 52 1859 0.4 12	1 F	0107 2.8 85 0739 0.1 3 1340 2.1 64 1943 0.1 3	16 Sa	0055 2.3 70 0726 0.4 12 1327 1.9 58 1924 0.5 15	1 M	0254 2.4 73 0912 0.0 0 1539 2.6 79 2156 0.3 9	16 Tu	0147 2.2 67 0806 0.3 9 1434 2.3 70 2048 0.6 18
2 Th	0117 2.6 79 0752 0.2 6 1342 1.8 55 1946 0.0 0	17 F	0139 2.2 67 0813 0.5 15 1405 1.7 52 2004 0.5 15	2 Sa	0214 2.6 79 0844 0.1 3 1453 2.2 67 2100 0.1 3	17 Su	0147 2.2 67 0815 0.4 12 1426 1.9 58 2027 0.6 18	2 Tu	0355 2.3 70 1007 0.0 0 1639 2.7 82 2301 0.2 6	17 W	0242 2.1 64 0855 0.3 9 1531 2.5 76 2153 0.5 15
3 F	0230 2.6 79 0905 0.2 6 1501 1.9 58 2106 0.1 3	18 Sa	0241 2.1 64 0914 0.5 15 1513 1.7 52 2114 0.5 15	3 Su	0321 2.5 76 0946 0.0 0 1602 2.3 70 2213 0.1 3	18 M	0241 2.1 64 0905 0.4 12 1524 2.1 64 2132 0.5 15	3 W	0454 2.2 67 1058 0.0 0 1732 2.8 85 2357 0.2 6	18 Th	0341 2.1 64 0948 0.2 6 1628 2.7 82 2256 0.4 12
4 Sa	0343 2.5 76 1014 0.1 3 1617 2.1 64 2223 0.0 0	19 Su	0342 2.1 64 1008 0.4 12 1615 1.9 58 2219 0.4 12	4 M	0425 2.4 73 1042 -0.1 -3 1703 2.6 79 2318 0.0 0	19 Tu	0337 2.1 64 0953 0.3 9 1618 2.3 70 2233 0.4 12	4 Th	0547 2.1 64 1146 0.0 0 1820 2.9 88	19 F	0441 2.1 64 1044 0.0 0 1725 3.0 91 2355 0.2 6
5 Su	0449 2.6 79 1113 -0.1 -3 1721 2.3 70 2330 -0.1 -3	20 M	0436 2.1 64 1055 0.3 9 1707 2.1 64 2315 0.3 9	5 Tu	0522 2.4 73 1132 -0.1 -3 1756 2.8 85	20 W	0431 2.1 64 1040 0.1 3 1709 2.6 79 2329 0.2 6	5 F	0047 0.2 6 0635 2.1 64 1231 0.0 0 1904 2.9 88	20 Sa	0540 2.2 67 1139 -0.1 -3 1820 3.2 98
6 M	0547 2.6 79 1204 -0.2 -6 1816 2.6 79	21 Tu	0524 2.2 67 1136 0.1 3 1752 2.4 73	6 W	0015 0.0 0 0613 2.4 73 1217 -0.2 -6 1843 2.9 88	21 Th	0523 2.2 67 1126 0.0 0 1757 2.8 85	6 Sa	0132 0.1 3 0720 2.1 64 1313 0.0 0 1945 3.0 91	21 Su	0050 0.0 0 0636 2.3 70 1235 -0.3 -9 1913 3.4 104
7 Tu	0028 -0.3 -9 0638 2.6 79 1249 -0.4 -12 1904 2.8 85	22 W	0005 0.1 3 0608 2.3 70 1215 0.0 0 1834 2.6 79	7 Th	0104 -0.1 -3 0700 2.3 70 1259 -0.2 -6 1926 3.0 91	22 F	0022 0.1 3 0613 2.2 67 1212 -0.2 -6 1845 3.1 94	7 Su	0213 0.1 3 0800 2.1 64 1353 0.0 0 2025 3.0 91	22 M	0143 -0.1 -3 0731 2.4 73 1330 -0.4 -12 2006 3.5 107
8 W	0119 -0.4 -12 0724 2.6 79 1330 -0.4 -12 1948 3.0 91	23 Th	0051 -0.1 -3 0651 2.3 70 1253 -0.2 -6 1916 2.9 88	8 F	0149 -0.1 -3 0743 2.3 70 1339 -0.2 -6 2006 3.0 91	23 Sa	0112 -0.1 -3 0702 2.3 70 1259 -0.3 -9 1933 3.3 101	8 M	0252 0.1 3 0840 2.1 64 1433 0.0 0 2103 2.9 88	23 Tu	0235 -0.2 -6 0825 2.5 76 1425 -0.5 -15 2058 3.5 107
9 Th	0205 -0.4 -12 0807 2.6 79 1409 -0.4 -12 2030 3.0 91	24 F	0136 -0.2 -6 0732 2.4 73 1332 -0.3 -9 1957 3.1 94	9 Sa	0231 -0.1 -3 0823 2.3 70 1417 -0.2 -6 2045 3.0 91	24 Su	0201 -0.2 -6 0750 2.4 73 1347 -0.4 -12 2021 3.4 104	9 Tu	0330 0.1 3 0918 2.1 64 1511 0.1 3 2141 2.9 88	24 W	0325 -0.3 -9 0919 2.6 79 1520 -0.5 -15 2150 3.5 107
10 F	0249 -0.4 -12 0847 2.5 76 1447 -0.4 -12 2109 3.0 91	25 Sa	0220 -0.3 -9 0815 2.4 73 1413 -0.4 -12 2040 3.2 98	10 Su	0311 -0.1 -3 0902 2.2 67 1455 -0.1 -3 2124 2.9 88	25 M	0250 -0.3 -9 0840 2.4 73 1437 -0.5 -15 2111 3.4 104	10 W	0407 0.2 6 0957 2.1 64 1550 0.1 3 2219 2.8 85	25 Th	0415 -0.3 -9 1013 2.7 82 1615 -0.4 -12 2242 3.3 101
11 Sa	0330 -0.3 -9 0926 2.3 70 1523 -0.3 -9 2148 2.9 88	26 Su	0305 -0.3 -9 0858 2.4 73 1455 -0.4 -12 2126 3.3 101	11 M	0350 0.0 0 0940 2.1 64 1533 0.0 0 2202 2.8 85	26 Tu	0340 -0.3 -9 0931 2.4 73 1529 -0.4 -12 2203 3.4 104	11 Th	0445 0.2 6 1036 2.1 64 1630 0.2 6 2257 2.7 82	26 F	0505 -0.3 -9 1109 2.7 82 1713 -0.2 -6 2334 3.1 94
12 Su	0411 -0.2 -6 1004 2.2 67 1600 -0.2 -6 2227 2.8 85	27 M	0352 -0.3 -9 0944 2.3 70 1541 -0.4 -12 2214 3.2 98	12 Tu	0429 0.1 3 1018 2.0 61 1612 0.1 3 2242 2.7 82	27 W	0432 -0.2 -6 1025 2.4 73 1624 -0.3 -9 2257 3.3 101	12 F	0523 0.3 9 1117 2.1 64 1711 0.3 9 2335 2.5 76	27 Sa	0556 -0.2 -6 1206 2.7 82 1813 0.0 0
13 M	0452 0.0 0 1042 2.0 61 1638 0.0 0 2308 2.6 79	28 Tu	0442 -0.2 -6 1033 2.2 67 1631 -0.3 -9 2307 3.1 94	13 W	0509 0.2 6 1058 2.0 61 1652 0.2 6 2324 2.6 79	28 Th	0525 -0.2 -6 1122 2.4 73 1722 -0.2 -6 2352 3.1 94	13 Sa	0600 0.3 9 1201 2.1 64 1756 0.4 12	28 Su	0027 2.8 85 0647 -0.1 -3 1306 2.7 82 1916 0.2 6
14 Tu	0534 0.2 6 1123 1.9 58 1719 0.1 3 2352 2.4 73	29 W	0536 -0.1 -3 1128 2.2 67 1727 -0.2 -6	14 Th	0552 0.3 9 1142 1.9 58 1736 0.3 9	29 F	0620 -0.1 -3 1223 2.4 73 1826 0.0 0	14 Su	0015 2.4 73 0640 0.3 9 1248 2.1 64 1847 0.5 15	29 M	0123 2.6 79 0740 0.0 0 1407 2.7 82 2023 0.3 9
15 W	0621 0.3 9 1208 1.8 55 1805 0.3 9	30 Th	0004 2.9 88 0636 0.0 0 1230 2.1 64 1831 0.0 0	15 F	0008 2.4 73 0637 0.4 12 1232 1.8 55 1826 0.4 12	30 Sa	0050 2.8 85 0717 0.0 0 1328 2.4 73 1934 0.1 3	15 M	0058 2.3 70 0721 0.3 9 1339 2.2 67 1944 0.6 18	30 Tu	0221 2.3 70 0834 0.1 3 1509 2.7 82 2132 0.4 12
						31 Su	0151 2.6 79 0815 0.0 0 1435 2.5 76 2046 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.

Bermuda Esso Pier, St. Georges Island, Bermuda, 2009

Times and Heights of High and Low Waters

July				August				September															
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height										
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm									
1 W	0323	2.1	64	16 Th	0158	2.1	64	1 Sa	0454	2.0	61	16 Su	0352	2.1	64	1 Tu	0016	0.6	18	16 W	0556	2.8	85
	0930	0.2	6		0809	0.3	9		1052	0.5	15		0957	0.2	6		0608	2.3	70		1205	0.0	0
	1609	2.7	82		1451	2.7	82		1733	2.7	82		1644	3.0	91		1210	0.4	12		1826	3.2	98
	2237	0.5	15		2119	0.6	18						2316	0.4	12		1836	2.8	85				
2 Th	0424	2.0	61	17 F	0302	2.0	61	2 Su	0004	0.6	18	17 M	0503	2.3	70	2 W	0053	0.5	15	17 Th	0042	0.0	0
	1025	0.2	6		0909	0.2	6		0548	2.0	61		1108	0.1	3		0650	2.5	76		0650	3.1	94
	1706	2.7	82		1556	2.8	85		1145	0.4	12		1747	3.2	98		1253	0.3	9		1301	-0.2	-6
	2337	0.4	12		2228	0.5	15		1822	2.8	85						1913	2.9	88		1916	3.3	101
3 F	0521	2.0	61	18 Sa	0410	2.1	64	3 M	0049	0.5	15	18 Tu	0014	0.2	6	3 Th	0127	0.4	12	18 F	0127	-0.1	-3
	1117	0.2	6		1014	0.1	3		0635	2.1	64		0607	2.5	76		0727	2.6	79		0739	3.3	101
	1757	2.8	85		1700	3.0	91		1232	0.3	9		1212	-0.1	-3		1332	0.2	6		1353	-0.2	-6
					2333	0.3	9		1905	2.8	85		1844	3.4	104		1948	2.9	88		● 2003	3.2	98
4 Sa	0028	0.4	12	19 Su	0516	2.2	67	4 Tu	0128	0.4	12	19 W	0106	0.0	0	4 F	0159	0.3	9	19 Sa	0210	-0.2	-6
	0612	2.0	61		1118	-0.1	-3		0717	2.3	70		0703	2.8	85		0803	2.8	85		0825	3.5	107
	1206	0.2	6		1801	3.2	98		1315	0.2	6		1310	-0.3	-9		1410	0.2	6		1442	-0.2	-6
	1843	2.8	85						1943	2.9	88		1935	3.5	107		○ 2021	2.9	88		2047	3.1	94
5 Su	0113	0.3	9	20 M	0032	0.2	6	5 W	0203	0.3	9	20 Th	0154	-0.2	-6	5 Sa	0230	0.2	6	20 Su	0252	-0.2	-6
	0658	2.1	64		0618	2.4	73		0755	2.4	73		0756	3.1	94		0837	2.9	88		0910	3.5	107
	1252	0.2	6		1220	-0.2	-6		1354	0.2	6		1404	-0.4	-12		1446	0.2	6		1529	-0.2	-6
	1926	2.9	88		1858	3.4	104		○ 2018	2.9	88		● 2024	3.5	107		2054	2.9	88		2131	3.0	91
6 M	0153	0.3	9	21 Tu	0126	0.0	0	6 Th	0237	0.3	9	21 F	0239	-0.3	-9	6 Su	0300	0.2	6	21 M	0332	-0.1	-3
	0739	2.1	64		0716	2.6	79		0832	2.5	76		0846	3.2	98		0912	3.0	91		0954	3.5	107
	1334	0.1	3		1319	-0.4	-12		1432	0.1	3		1456	-0.4	-12		1523	0.2	6		1615	0.0	0
	2006	2.9	88		● 1952	3.5	107		2052	2.9	88		2111	3.4	104		2127	2.8	85		2214	2.8	85
7 Tu	0231	0.3	9	22 W	0216	-0.2	-6	7 F	0309	0.2	6	22 Sa	0323	-0.3	-9	7 M	0331	0.2	6	22 Tu	0414	0.1	3
	0819	2.2	67		0811	2.7	82		0908	2.6	79		0934	3.3	101		0947	3.0	91		1038	3.3	101
	1414	0.1	3		1415	-0.5	-15		1509	0.2	6		1547	-0.3	-9		1602	0.2	6		1702	0.2	6
	2043	2.9	88		2043	3.6	110		2125	2.9	88		2157	3.2	98		2201	2.7	82		2258	2.6	79
8 W	0307	0.2	6	23 Th	0305	-0.3	-9	8 Sa	0339	0.2	6	23 Su	0406	-0.2	-6	8 Tu	0403	0.2	6	23 W	0456	0.2	6
	0857	2.3	70		0904	2.9	88		0943	2.6	79		1022	3.3	101		1024	3.1	94		1124	3.1	94
	1452	0.1	3		1509	-0.4	-12		1546	0.2	6		1637	-0.1	-3		1643	0.3	9		1751	0.4	12
	2119	2.9	88		2133	3.5	107		2157	2.8	85		2242	2.9	88		2238	2.5	76		2343	2.3	70
9 Th	0342	0.2	6	24 F	0352	-0.3	-9	9 Su	0410	0.2	6	24 M	0449	-0.1	-3	9 W	0439	0.2	6	24 Th	0541	0.5	15
	0934	2.3	70		0956	3.0	91		1018	2.7	82		1110	3.2	98		1106	3.0	91		1214	2.9	88
	1530	0.2	6		1603	-0.4	-12		1624	0.3	9		1729	0.1	3		1729	0.4	12		1844	0.7	21
	2154	2.9	88		2221	3.3	101		2230	2.7	82		2328	2.7	82		2320	2.4	73				
10 F	0415	0.2	6	25 Sa	0438	-0.3	-9	10 M	0440	0.2	6	25 Tu	0533	0.1	3	10 Th	0521	0.3	9	25 F	0035	2.2	67
	1012	2.3	70		1048	3.0	91		1054	2.7	82		1200	3.0	91		1156	3.0	91		0632	0.6	18
	1608	0.2	6		1657	-0.2	-6		1704	0.4	12		1822	0.4	12		1822	0.6	18		1311	2.7	82
	2228	2.8	85		2310	3.1	94		2305	2.5	76								1944		0.8	24	
11 Sa	0448	0.2	6	26 Su	0524	-0.2	-6	11 Tu	0514	0.2	6	26 W	0017	2.4	73	11 F	0010	2.3	70	26 Sa	0135	2.0	61
	1049	2.3	70		1141	3.0	91		1135	2.7	82		0620	0.3	9		0613	0.4	12		0734	0.8	24
	1647	0.3	9		1753	0.0	0		1749	0.4	12		1253	2.9	88		1255	2.9	88		1415	2.5	76
	2302	2.6	79		2359	2.8	85		2344	2.4	73		1920	0.6	18		○ 1926	0.7	21		○ 2051	0.9	27
12 Su	0521	0.2	6	27 M	0612	-0.1	-3	12 W	0552	0.3	9	27 Th	0110	2.2	67	12 Sa	0113	2.2	67	27 Su	0243	2.0	61
	1128	2.4	73		1235	2.9	88		1221	2.8	85		0713	0.5	15		0717	0.4	12		0844	0.8	24
	1729	0.4	12		1851	0.3	9		1841	0.6	18		1353	2.7	82		1404	2.9	88		1523	2.5	76
	2338	2.5	76						○ 2024	0.7	21		○ 2024	0.7	21		2040	0.7	21		2155	0.9	27
13 M	0555	0.3	9	28 Tu	0051	2.5	76	13 Th	0031	2.2	67	28 F	0212	2.0	61	13 Su	0228	2.2	67	28 M	0351	2.1	64
	1210	2.4	73		0701	0.1	3		0638	0.3	9		0813	0.6	18		0833	0.4	12		0953	0.8	24
	1815	0.5	15		1332	2.8	85		1317	2.8	85		1459	2.6	79		1519	2.9	88		1624	2.5	76
					○ 1954	0.5	15		○ 1943	0.6	18		2134	0.8	24		2154	0.6	18		2249	0.8	24
14 Tu	0017	2.4	73	29 W	0147	2.2	67	14 F	0128	2.1	64	29 Sa	0320	2.0	61	14 M	0346	2.3	70	29 Tu	0448	2.2	67
	0632	0.3	9		0754	0.3	9		0736	0.3	9		0921	0.7	21		0951	0.3	9		1052	0.7	21
	1257	2.5	76		1433	2.7	82		1423	2.8	85		1605	2.5	76		1630	3.0	91		1714	2.6	79
	1908	0.6	18		2101	0.6	18		2055	0.7	21		2239	0.8	24		2258	0.4	12		2332	0.7	21
15 W	0103	2.2	67	30 Th	0248	2.0	61	15 Sa	0237	2.1	64	30 Su	0426	2.0	61	15 Tu	0456	2.5	76	30 W	0536	2.4	73
	0716	0.3	9		0852	0.4	12		0844	0.3	9		1026	0.6	18		1103	0.2	6		1142	0.6	18
	1351	2.6	79		1536	2.6	79		1534	2.9	88		1704	2.6	79		1732	3.1	94		1757	2.7	82
	2010	0.6	18		2209	0.7	21		2209	0.6	18		2332	0.7	21		2353	0.2	6				
			31 F	0353	2.0	61	31 M	0522	2.1	64													
				0953	0.5	15		1122	0.6	18	1754	2.7	82										
				1638																			

Settlement Point, Grand Bahama Island, 2009

Times and Heights of High and Low Waters

January				February				March																		
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height													
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm												
1 Th	0426	0.1	3	16 F	0545	-0.1	-3	1 Su	0541	0.1	3	16 M	0045	2.5	76	1 Su	0433	-0.1	-3	16 M	0535	0.1	3			
	1042	2.6	79		1150	2.6	79		1138	2.3	70		0705	0.3	9		1031	2.4	73		1128	2.1	64			
	1704	0.0	0		1808	-0.3	-9		1751	-0.2	-6		1255	1.9	58		1638	-0.3	-9		1731	0.0	0	1731	0.0	0
	2312	2.3	70										1904	0.1	3		2305	2.9	88							
2 F	0512	0.2	6	17 Sa	0032	2.6	79	2 M	0021	2.6	79	17 Tu	0142	2.4	73	2 M	0524	0.0	0	17 Tu	0003	2.5	76			
	1123	2.5	76		0643	0.1	3		0638	0.2	6		0806	0.4	12		1118	2.3	70		0627	0.3	9			
	1743	0.0	0		1242	2.3	70		1230	2.1	64		1353	1.8	55		1726	-0.2	-6		1217	1.9	58	1217	1.9	58
	2359	2.4	73		1858	-0.2	-6		1843	-0.2	-6		1959	0.2	6		2359	2.8	85		1820	0.2	6	1820	0.2	6
3 Sa	0604	0.3	9	18 Su	0128	2.5	76	3 Tu	0121	2.7	82	18 W	0242	2.3	70	3 Tu	0622	0.1	3	18 W	0057	2.4	73			
	1208	2.3	70		0745	0.2	6		0743	0.2	6		0910	0.4	12		1213	2.2	67		0724	0.4	12			
	1827	0.0	0		1337	2.1	64		1332	2.1	64		1454	1.7	52		1821	-0.1	-3		1313	1.8	55	1313	1.8	55
					1950	-0.1	-3		1943	-0.2	-6		2058	0.2	6						1915	0.3	9	1915	0.3	9
4 Su	0052	2.5	76	19 M	0227	2.5	76	4 W	0226	2.7	82	19 Th	0341	2.3	70	4 W	0101	2.8	85	19 Th	0155	2.3	70			
	0703	0.3	9		0848	0.3	9		0853	0.2	6		1010	0.4	12		0728	0.2	6		0825	0.5	15			
	1300	2.2	67		1435	1.9	58		1440	2.0	61		1555	1.8	55		1318	2.1	64		1415	1.8	55	1415	1.8	55
	1916	-0.1	-3		2044	0.0	0		2049	-0.2	-6		2157	0.2	6		1926	-0.1	-3		2017	0.4	12	2017	0.4	12
5 M	0150	2.6	79	20 Tu	0324	2.4	73	5 Th	0333	2.9	88	20 F	0436	2.4	73	5 Th	0209	2.8	85	20 F	0256	2.3	70			
	0807	0.3	9		0950	0.3	9		1002	0.1	3		1102	0.3	9		0839	0.2	6		0925	0.5	15			
	1359	2.1	64		1533	1.8	55		1551	2.1	64		1650	1.9	58		1430	2.1	64		1518	1.9	58	1518	1.9	58
	2012	-0.2	-6		2138	0.0	0		2157	-0.3	-9		2250	0.1	3		2037	-0.1	-3		2119	0.4	12	2119	0.4	12
6 Tu	0251	2.7	82	21 W	0419	2.5	76	6 F	0438	3.0	91	21 Sa	0524	2.5	76	6 F	0318	2.9	88	21 Sa	0352	2.4	73			
	0914	0.2	6		1047	0.3	9		1106	-0.1	-3		1147	0.2	6		0948	0.1	3		1017	0.4	12			
	1502	2.1	64		1629	1.8	55		1658	2.3	70		1739	2.0	61		1543	2.2	67		1614	2.0	61	1614	2.0	61
	2112	-0.3	-9		2230	0.0	0		2302	-0.4	-12		2338	0.0	0		2149	-0.1	-3		2216	0.3	9	2216	0.3	9
7 W	0353	2.9	88	22 Th	0510	2.5	76	7 Sa	0538	3.2	98	22 Su	0606	2.7	82	7 Sa	0424	3.0	91	22 Su	0442	2.5	76			
	1020	0.0	0		1137	0.2	6		1203	-0.3	-9		1227	0.1	3		1049	0.0	0		1103	0.3	9			
	1607	2.2	67		1721	1.8	55		1759	2.5	76		1822	2.2	67		1649	2.4	73		1704	2.2	67	1704	2.2	67
	2213	-0.4	-12		2319	0.0	0										2255	-0.2	-6		2307	0.2	6	2307	0.2	6
8 Th	0454	3.1	94	23 F	0555	2.6	79	8 Su	0003	-0.5	-15	23 M	0023	0.0	0	8 Su	0523	3.1	94	23 M	0527	2.6	79			
	1122	-0.1	-3		1221	0.1	3		0633	3.3	101		0645	2.7	82		1144	-0.2	-6		1143	0.1	3			
	1710	2.3	70		1807	1.9	58		1256	-0.4	-12		1303	0.0	0		1748	2.7	82		1748	2.4	73	1748	2.4	73
	2314	-0.5	-15						1855	2.7	82		1902	2.4	73		2355	-0.4	-12		2354	0.1	3	2354	0.1	3
9 F	0552	3.3	101	24 Sa	0004	-0.1	-3	9 M	0100	-0.6	-18	24 Tu	0104	-0.1	-3	9 M	0616	3.1	94	24 Tu	0608	2.7	82			
	1219	-0.3	-9		0637	2.7	82		0725	3.4	104		0722	2.8	85		1234	-0.4	-12		1220	0.0	0			
	1810	2.4	73		1301	0.1	3		1344	-0.5	-15		1338	-0.1	-3		1841	2.9	88		1829	2.6	79	1829	2.6	79
					1849	2.0	61		1948	2.9	88		1940	2.5	76											
10 Sa	0013	-0.6	-18	25 Su	0046	-0.1	-3	10 Tu	0154	-0.6	-18	25 W	0144	-0.2	-6	10 Tu	0050	-0.4	-12	25 W	0038	-0.1	-3			
	0648	3.5	107		0715	2.8	85		0813	3.3	101		0758	2.8	85		0705	3.2	98		0647	2.7	82			
	1313	-0.4	-12		1338	0.0	0		1431	-0.6	-18		1411	-0.2	-6		1319	-0.5	-15		1257	-0.1	-3	1257	-0.1	-3
	1907	2.6	79		1929	2.2	67		2038	3.0	91		2018	2.7	82		1930	3.1	94		1909	2.8	85	1909	2.8	85
11 Su	0110	-0.7	-21	26 M	0127	-0.1	-3	11 W	0245	-0.6	-18	26 Th	0224	-0.2	-6	11 W	0141	-0.5	-15	26 Th	0120	-0.2	-6			
	0741	3.5	107		0752	2.8	85		0900	3.2	98		0834	2.8	85		0751	3.1	94		0726	2.7	82			
	1405	-0.5	-15		1413	-0.1	-3		1516	-0.6	-18		1445	-0.3	-9		1403	-0.5	-15		1333	-0.3	-9	1333	-0.3	-9
	2002	2.7	82		2008	2.3	70		2127	3.0	91		2056	2.8	85		2017	3.1	94		1948	3.0	91	1948	3.0	91
12 M	0205	-0.7	-21	27 Tu	0206	-0.1	-3	12 Th	0336	-0.5	-15	27 F	0305	-0.2	-6	12 Th	0229	-0.4	-12	27 F	0203	-0.2	-6			
	0832	3.5	107		0827	2.8	85		0945	3.0	91		0911	2.7	82		0835	2.9	88		0805	2.7	82			
	1455	-0.6	-18		1447	-0.1	-3		1559	-0.5	-15		1520	-0.3	-9		1444	-0.5	-15		1410	-0.3	-9	1410	-0.3	-9
	2056	2.8	85		2046	2.4	73		2215	2.9	88		2135	2.8	85		2101	3.1	94		2029	3.1	94	2029	3.1	94
13 Tu	0300	-0.6	-18	28 W	0245	-0.1	-3	13 F	0426	-0.3	-9	28 Sa	0347	-0.2	-6	13 F	0315	-0.4	-12	28 Sa	0246	-0.3	-9			
	0922	3.4	104		0902	2.8	85		1031	2.7	82		0949	2.6	79		0918	2.8	85		0846	2.6	79			
	1544	-0.6	-18		1520	-0.2	-6		1643	-0.4	-12		1557	-0.3	-9		1525	-0.4	-12		1449	-0.4	-12	1449	-0.4	-12
	2150	2.8	85		2123	2.4	73		2303	2.8	85		2218	2.9	88		2145	3.0	91		2112	3.2	98	2112	3.2	98
14 W	0354	-0.5	-15	29 Th	0324	-0.1	-3	14 Sa	0516	-0.1	-3	14 Sa	0401	-0.2	-6	14 Sa	0401	-0.2	-6	29 Su	0332	-0.2	-6			
	1011	3.2	98		0937	2.7	82		1116	2.4	73		1000	2.5	76		1000	2.5	76		0928	2.5	76			
	1632	-0.5	-15		1553	-0.2	-6		1727	-0.3	-9		1606	-0.3	-9		1606	-0.3	-9		1531	-0.4	-12	1531	-0.4	-12
	2243	2.8	85		2202	2.5	76		2353	2.7	82		2229	2.9	88		2229	2.9	88		2158	3.2	98	2158	3.2	98
15 Th	0449	-0.3	-9	30 F	0405	0.0	0	15 Su	0609	0.1	3	15 Su	0447	0.0	0	15 Su	0447	0.0	0	30 M	0420	-0.1	-3			
	1100	2.9	88		1014	2.6	79		1204	2.2	67		1043	2.3	70		1043	2.3	70		1015	2.4				

Settlement Point, Grand Bahama Island, 2009

Times and Heights of High and Low Waters

April				May				June																					
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height																
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm															
1 W	0613	0.1	3		16 Th	0015	2.5	76		1 F	0035	3.0	91		16 Sa	0025	2.5	76		1 M	0217	2.7	82		16 Tu	0116	2.4	73	
	1206	2.2	67			0644	0.4	12			0705	0.0	0			0654	0.4	12			0837	-0.1	-3			0736	0.2	6	
	1810	-0.1	-3			1238	1.9	58		○	1310	2.4	73			1258	2.1	64			1503	2.8	85			1402	2.5	76	
						1835	0.4	12			1913	0.1	3			1854	0.5	15			2117	0.2	6			2013	0.5	15	
2 Th	0048	2.9	88		17 F	0109	2.4	73		2 Sa	0139	2.9	88		17 Su	0114	2.4	73		2 Tu	0316	2.5	76		17 W	0209	2.3	70	
	0718	0.2	6			0739	0.5	15			0807	0.0	0			0741	0.3	9			0931	-0.1	-3			0824	0.1	3	
	1314	2.2	67		○	1336	1.9	58			1418	2.5	76		○	1353	2.2	67			1601	2.9	88			1456	2.7	82	
	1919	0.0	0			1935	0.5	15			2024	0.1	3			1954	0.5	15			2219	0.2	6			2114	0.4	12	
3 F	0155	2.9	88		18 Sa	0205	2.4	73		3 Su	0243	2.8	85		18 M	0206	2.4	73		3 W	0412	2.4	73		18 Th	0305	2.3	70	
	0825	0.2	6			0834	0.5	15			0906	0.0	0			0828	0.3	9			1021	-0.1	-3			0916	0.0	0	
	1426	2.3	70			1436	2.0	61			1523	2.6	79			1447	2.3	70			1653	2.9	88			1552	2.9	88	
	2032	0.1	3			2037	0.5	15			2133	0.1	3			2054	0.4	12			2315	0.2	6			2214	0.3	9	
4 Sa	0303	2.8	85		19 Su	0300	2.4	73		4 M	0343	2.7	82		19 Tu	0258	2.3	70		4 Th	0505	2.3	70		19 F	0403	2.3	70	
	0930	0.1	3			0924	0.4	12			1001	-0.1	-3			0915	0.2	6			1109	-0.1	-3			1009	-0.1	-3	
	1536	2.4	73			1532	2.2	67			1623	2.8	85			1539	2.5	76			1741	3.0	91			1647	3.2	98	
	2143	0.0	0			2136	0.4	12			2236	0.1	3			2152	0.3	9							2312	0.1	3		
5 Su	0406	2.9	88		20 M	0352	2.4	73		5 Tu	0439	2.6	79		20 W	0350	2.3	70		5 F	0005	0.1	3		20 Sa	0500	2.4	73	
	1028	0.0	0			1010	0.3	9			1052	-0.2	-6			1001	0.0	0			0553	2.2	67			1104	-0.3	-9	
	1638	2.7	82			1623	2.4	73			1715	2.9	88			1629	2.8	85			1153	-0.1	-3			1741	3.4	104	
	2247	-0.1	-3			2231	0.3	9			2332	0.0	0			2247	0.2	6			1826	3.0	91						
6 M	0503	2.9	88		21 Tu	0440	2.5	76		6 W	0531	2.6	79		21 Th	0441	2.4	73		6 Sa	0051	0.1	3		21 Su	0008	0.0	0	
	1120	-0.2	-6			1053	0.1	3			1138	-0.2	-6			1048	-0.1	-3			0639	2.2	67			0557	2.5	76	
	1734	2.9	88			1709	2.6	79			1803	3.0	91			1718	3.0	91			1236	-0.1	-3			1159	-0.4	-12	
	2345	-0.2	-6			2321	0.1	3							2339	0.0	0			1908	3.0	91			1835	3.6	110		
7 Tu	0555	2.9	88		22 W	0525	2.5	76		7 Th	0022	-0.1	-3		22 F	0532	2.4	73		7 Su	0133	0.1	3		22 M	0102	-0.2	-6	
	1207	-0.3	-9			1134	-0.1	-3			0618	2.5	76			1135	-0.3	-9			0721	2.2	67			0653	2.6	79	
	1824	3.0	91			1753	2.9	88			1222	-0.3	-9			1806	3.2	98		○	1316	-0.1	-3			1254	-0.5	-15	
											1848	3.1	94								1948	3.0	91		●	1928	3.7	113	
8 W	0037	-0.3	-9		23 Th	0009	0.0	0		8 F	0109	-0.1	-3		23 Sa	0030	-0.1	-3		8 M	0214	0.1	3		23 Tu	0155	-0.3	-9	
	0642	2.8	85			0609	2.6	79			0702	2.4	73			0622	2.5	76			0802	2.2	67			0748	2.7	82	
	1251	-0.4	-12			1214	-0.2	-6		○	1303	-0.3	-9			1223	-0.4	-12			1356	0.0	0			1349	-0.5	-15	
	1910	3.1	94			1836	3.1	94			1929	3.1	94			1855	3.4	104			2027	3.0	91			2021	3.7	113	
9 Th	0125	-0.3	-9		24 F	0055	-0.2	-6		9 Sa	0152	-0.1	-3		24 Su	0121	-0.3	-9		9 Tu	0253	0.1	3		24 W	0247	-0.3	-9	
	0727	2.8	85			0653	2.6	79			0745	2.4	73			0713	2.5	76			0843	2.2	67			0844	2.8	85	
	1333	-0.4	-12		●	1256	-0.3	-9			1343	-0.2	-6			1313	-0.5	-15			1436	0.0	0			1445	-0.4	-12	
	1953	3.2	98			1920	3.2	98			2010	3.1	94		●	1945	3.5	107			2106	2.9	88			2114	3.7	113	
10 F	0211	-0.3	-9		25 Sa	0141	-0.3	-9		10 Su	0234	-0.1	-3		25 M	0212	-0.3	-9		10 W	0332	0.1	3		25 Th	0339	-0.3	-9	
	0810	2.6	79			0737	2.6	79			0825	2.3	70			0804	2.6	79			0923	2.2	67			0940	2.9	88	
	1413	-0.4	-12			1338	-0.4	-12			1422	-0.2	-6			1404	-0.5	-15			1516	0.1	3			1542	-0.3	-9	
	2035	3.1	94			2005	3.4	104			2050	3.0	91			2037	3.6	110			2144	2.9	88			2207	3.5	107	
11 Sa	0254	-0.2	-6		26 Su	0229	-0.3	-9		11 M	0315	0.0	0		26 Tu	0304	-0.3	-9		11 Th	0411	0.2	6		26 F	0431	-0.3	-9	
	0851	2.5	76			0823	2.6	79			0906	2.2	67			0857	2.6	79			1004	2.2	67			1037	2.9	88	
	1452	-0.3	-9			1423	-0.5	-15			1501	-0.1	-3			1457	-0.5	-15			1557	0.2	6			1640	-0.2	-6	
	2116	3.0	91			2053	3.4	104			2130	2.9	88			2129	3.5	107			2223	2.8	85			2300	3.3	101	
12 Su	0337	-0.1	-3		27 M	0318	-0.3	-9		12 Tu	0356	0.1	3		27 W	0357	-0.3	-9		12 F	0450	0.2	6		27 Sa	0523	-0.3	-9	
	0932	2.3	70			0911	2.5	76			0947	2.1	64			0953	2.6	79			1047	2.2	67			1135	2.9	88	
	1531	-0.2	-6			1512	-0.4	-12			1541	0.1	3			1553	-0.4	-12			1640	0.3	9			1741	0.0	0	
	2157	2.9	88			2143	3.4	104			2211	2.8	85			2223	3.4	104			2302	2.7	82			2354	3.1	94	
13 M	0420	0.0	0		28 Tu	0409	-0.2	-6		13 W	0438	0.2	6		28 Th	0451	-0.3	-9		13 Sa	0529	0.3	9		28 Su	0616	-0.2	-6	
	1013	2.2	67																										

Settlement Point, Grand Bahama Island, 2009

Times and Heights of High and Low Waters

October				November				December											
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height						
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm					
1 Th	0534	2.9	88	16 F	0554	3.6	110	1 Su	0619	3.3	101	16 M	0040	-0.1	-3				
	1141	0.6	18		1209	0.1	3		1237	0.2	6		0709	3.4	104	1 Tu	0634	3.4	104
	1752	3.1	94		1813	3.3	101		1833	2.8	85		1332	0.0	0	1259	-0.1	-3	
2 F	0003	0.5	15	17 Sa	0022	0.0	0	2 M	0035	0.0	0	17 Tu	0123	-0.1	-3	2 W	0049	-0.3	-9
	0614	3.1	94		0642	3.7	113		0700	3.5	107		0751	3.4	104		0722	3.5	107
	1223	0.5	15		1300	0.1	3		1321	0.1	3		1416	0.0	0		1348	-0.2	-6
3 Sa	1304	0.4	12	18 Su	0106	-0.1	-3	3 Tu	0115	0.0	0	18 W	0204	0.0	0	3 Th	0138	-0.4	-12
	1907	3.1	94		0728	3.7	113		0743	3.6	110		0833	3.3	101		0811	3.6	110
					1348	0.1	3		1406	0.1	3		1459	0.1	3		1437	-0.2	-6
4 Su	0113	0.3	9	19 M	0148	0.0	0	4 W	0158	-0.1	-3	19 Th	0245	0.1	3	4 F	0229	-0.4	-12
	0730	3.4	104		0813	3.7	113		0828	3.6	110		0915	3.2	98		0901	3.6	110
	1345	0.3	9		1434	0.1	3		1452	0.1	3		1541	0.2	6		1528	-0.2	-6
5 M	1945	3.1	94	20 Tu	0231	0.0	0	5 Th	0244	-0.1	-3	20 F	0327	0.2	6	5 Sa	0322	-0.3	-9
					0856	3.6	110		0915	3.6	110		0956	3.0	91		0952	3.5	107
					1519	0.2	6		1541	0.1	3		1624	0.3	9		1620	-0.2	-6
6 Tu	2023	3.0	91	21 W	2113	2.8	85	6 F	2134	2.7	82	21 Sa	2216	2.3	70	6 Su	2219	2.7	82
					0313	0.2	6		0333	0.0	0		0410	0.3	9		0419	-0.2	-6
					0940	3.4	104		1006	3.5	107		1039	2.9	88		1046	3.3	101
7 W	1509	0.3	9	22 Th	1605	0.3	9	7 Sa	1634	0.2	6	22 Su	1708	0.4	12	7 M	1713	-0.2	-6
	2104	2.9	88		2158	2.6	79		2228	2.7	82		2302	2.2	67		2318	2.7	82
					0355	0.3	9		0427	0.1	3		0455	0.4	12		0520	-0.1	-3
8 Th	0932	3.6	110	23 F	1025	3.2	98	8 Su	1100	3.4	104	23 M	1123	2.8	85	8 Tu	1142	3.1	94
	1554	0.4	12		1651	0.5	15		1730	0.2	6		1753	0.5	15		1808	-0.1	-3
	2148	2.8	85		2244	2.5	76		2328	2.6	79		2352	2.2	67		1905	-0.1	-3
9 F	0349	0.3	9	24 Sa	0440	0.5	15	9 M	0528	0.2	6	24 Tu	0546	0.6	18	9 W	0625	0.1	3
	1020	3.5	107		1112	3.1	94		1159	3.3	101		1209	2.6	79		0625	0.1	3
	1645	0.5	15		1741	0.6	18		1829	0.3	9		1839	0.5	15		1241	2.9	88
10 Sa	2237	2.7	82	25 Su	2334	2.4	73	10 Tu	0033	2.7	82	25 W	0045	2.2	67	10 Th	0125	2.8	85
					0530	0.6	18		0636	0.3	9		0641	0.6	18		0734	0.2	6
					1202	2.9	88		1302	3.2	98		1258	2.5	76		1341	2.7	82
11 Su	2334	2.7	82	26 M	1833	0.7	21	11 W	1931	0.3	9	26 Th	1926	0.5	15	11 F	2002	-0.1	-3
					0029	2.3	70		0636	0.3	9		0641	0.6	18		2002	-0.1	-3
					0625	0.8	24		1302	3.2	98		1258	2.5	76		1341	2.7	82
12 M	0536	0.4	12	27 Tu	0625	0.8	24	12 Th	0747	0.4	12	27 F	0740	0.7	21	12 Sa	2029	-0.1	-3
	1213	3.4	104		1256	2.8	85		1406	3.0	91		1349	2.4	73		0843	0.2	6
	1843	0.6	18		1928	0.8	24		2031	0.2	6		2012	0.4	12		1443	2.5	76
13 Tu	0039	2.6	79	28 W	0128	2.3	70	13 F	0249	2.9	88	28 Sa	0324	2.6	79	13 Su	0330	2.9	88
	0642	0.5	15		0725	0.9	27		0858	0.4	12		0839	0.6	18		0949	0.2	6
	1318	3.3	101		1352	2.7	82		1508	2.9	88		1441	2.4	73		1543	2.4	73
14 W	1949	0.6	18	29 Th	2021	0.8	24	14 Sa	2128	0.1	3	29 Su	2059	0.3	9	14 M	2153	-0.1	-3
					0227	2.4	73		0350	3.1	94		0324	2.6	79		0427	3.0	91
					0827	0.9	27		1004	0.3	9		0937	0.5	15		1050	0.1	3
15 Th	0150	2.7	82	30 F	1447	2.7	82	15 Su	1607	2.9	88	30 M	1533	2.3	70	15 Tu	1640	2.3	70
	0755	0.6	18		2111	0.7	21		2221	0.0	0		2144	0.2	6		2245	-0.2	-6
	1426	3.3	101																
16 F	2054	0.5	15	31 Sa	0227	2.4	73	16 Su	0350	3.1	94	31 M	0324	2.6	79	16 W	2245	-0.2	-6
					0827	0.9	27		1004	0.3	9		0937	0.5	15		1050	0.1	3
					1447	2.7	82		1607	2.9	88		1533	2.3	70		1640	2.3	70
17 Sa	0301	2.9	88	1 Su	2111	0.7	21	1 Tu	2221	0.0	0	1 W	2144	0.2	6	17 Th	2245	-0.2	-6
	0907	0.5	15																
	1530	3.3	101																
18 Su	2153	0.4	12	2 M	0322	2.5	76	2 Tu	0446	3.2	98	2 W	0413	2.8	85	18 F	0519	3.0	91
					0926	0.8	24		1104	0.2	6		1031	0.4	12		1144	0.1	3
					1538	2.7	82		1702	2.8	85		1623	2.4	73		1732	2.2	67
19 M	0405	3.1	94	3 W	2156	0.6	18	3 Th	2310	-0.1	-3	3 F	2229	0.1	3	19 Sa	2333	-0.2	-6
	1014	0.4	12																
	1629	3.3	101																
20 Tu	2247	0.2	6	4 Th	0411	2.7	82	4 F	0537	3.4	104	4 Sa	0500	3.0	91	20 Su	0607	3.1	94
					1019	0.7	21		1157	0.1	3		1122	0.2	6		1233	0.0	0
					1624	2.7	82		1752	2.7	82		1712	2.4	73		1820	2.2	67
21 W	0502	3.4	104	5 M	2237	0.5	15	5 Tu	2356	-0.1	-3	5 W	2315	-0.1	-3	21 Th	2335	-0.4	-12
	1115	0.3	9																
	1723	3.3	101																
22 Th	2336	0.1	3	6 W	0455	2.9	88	6 F	0624	3.4	104	6 Sa	0547	3.2	98	22 Su	0612	3.3	101
					1108	0.5	15		1246	0.0	0		1211	0.1	3		1239	-0.2	-6
					1709	2.8	85		1839	2.7	82		1801	2.5	76		1828	2.4	73
23 F				7 Sa	2316	0.3	9	7 Su				7 Tu				23 W	1905	2.2	67
					0537	3.1	94		1153	0.4	12		1211	0.1	3		1317	0.0	0
					1751	2.8	85		2355	0.2	6		1801	2.5	76		1905	2.2	67
24 Sa				8 Su	2355	0.2	6	8 Tu				8 W				24 Th	0029	-0.5	-15
					0704	3.4	104		1330	-0.3	-9		0704	3.4	104		1330	-0.3	-9
					1922	2.5	76		1922	2.5	76		1922	2.5	76		1922	2.5	76

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, 2009

Times and Heights of High and Low Waters

January				February				March																						
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height																	
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm																
1 Th	0141	0.1	3	18	16 F	0933	0.4	12	3	1 Su	0712	0.4	12	-3	16 M	0615	0.4	12	-6	1 Su	0251	0.4	12	-6	16 M	0309	0.4	12	-9	
	1156	0.6	18			1834	0.1	3			1731	-0.1	-3			1713	-0.2	-6			1537	-0.2	-6			1528	-0.3	-9		
2 F	0103	0.1	3	15	17 Sa	0814	0.4	12	0	2 M	0647	0.5	15	-6	17 Tu	0647	0.4	12	-9	2 M	0431	0.4	12	-9	17 Tu	0442	0.4	12	-9	
	1117	0.5	15	6		1833	0.0	0			1755	-0.2	-6			1759	-0.3	-9			1604	-0.3	-9			1600	-0.3	-9		
3 Sa	0954	0.5	15	3	18 Su	0737	0.5	15	-3	3 Tu	0703	0.5	15	-9	18 W	0722	0.4	12	-6	3 Tu	0526	0.5	15	-9	18 W	0541	0.4	12	-6	
	2055	0.1	3			1856	-0.1	-3			1839	-0.3	-9			1906	-0.2	-6			1643	-0.3	-9			1638	-0.2	-6		
4 Su	0826	0.5	15	0	19 M	0740	0.5	15	-6	4 W	0735	0.6	18	-9	19 Th	0756	0.5	15	-6	4 W	0614	0.6	18	-9	19 Th	0625	0.4	12	-6	
	2012	0.0	0			1936	-0.2	-6			1945	-0.3	-9			2050	-0.2	-6			1734	-0.3	-9			1721	-0.2	-6		
5 M	0755	0.6	18	-3	20 Tu	0800	0.5	15	-6	5 Th	0812	0.7	21	-9	20 F	0825	0.5	15	-6	5 Th	0658	0.6	18	-9	20 F	0700	0.5	15	-3	
	2016	-0.1	-3			2032	-0.2	-6			2106	-0.3	-9			2221	-0.2	-6			1843	-0.3	-9			1812	-0.1	-3		
6 Tu	0805	0.7	21	-6	21 W	0828	0.5	15	-9	6 F	0850	0.7	21	-9	21 Sa	0850	0.5	15	-6	6 F	0738	0.6	18	-6	21 Sa	0726	0.5	15	0	
	2049	-0.2	-6			2138	-0.3	-9			2224	-0.3	-9			2321	-0.2	-6			2022	-0.2	-6			2058	0.0	0		
7 W	0832	0.7	21	-9	22 Th	0858	0.6	18	-9	7 Sa	0925	0.7	21	-9	22 Su	0909	0.5	15		7 Sa	0812	0.6	18	-6	22 Su	0744	0.5	15	0	
	2138	-0.3	-9			2240	-0.3	-9			2329	-0.3	-9								2213	-0.2	-6			2304	0.0	0		
8 Th	0908	0.8	24	-12	23 F	0927	0.6	18	-9	8 Su	0955	0.7	21		23 M	0007	-0.1	-3	15	8 Su	0838	0.6	18	-3	23 M	0753	0.4	12	3	
	2233	-0.4	-12			2330	-0.3	-9								0921	0.5	15			2339	-0.1	-3			1542	0.1	3	6	
9 F	0948	0.8	24	-12	24 Sa	0954	0.6	18		9 M	0024	-0.2	-6	18	24 Tu	0046	0.0	0	15	9 M	0852	0.5	15		24 Tu	0021	0.1	3	9	
	2327	-0.4	-12								1015	0.6	18			0926	0.5	15								0752	0.4	12	3	
10 Sa	1027	0.8	24		25 Su	0009	-0.2	-6	18	10 Tu	0112	-0.1	-3	15	25 W	0125	0.0	0	12	10 Tu	0051	0.0	0	6	25 W	0136	0.2	6	9	
						1016	0.6	18			1021	0.5	15			0919	0.4	12	3		0849	0.4	12	3		0734	0.3	9	9	
11 Su	0017	-0.3	-9	24	26 M	0041	-0.2	-6	18	11 W	0154	0.0	0	12	26 Th	0205	0.1	3	9	11 W	0820	0.3	9	3	26 Th	0639	0.3	9	0	
	1102	0.8	24			1033	0.6	18			1703	0.1	3			1547	0.1	3	9		1439	0.1	3			1353	0.0	0	0	
12 M	0101	-0.3	-9	21	27 Tu	0108	-0.1	-3	18	12 Th	0229	0.1	3	6	27 F	0252	0.2	6	9	12 Th	0200	0.1	3	9	27 F	0312	0.2	6	12	
	1129	0.7	21			1042	0.6	18			0917	0.3	9			0801	0.3	9	9		0714	0.2	6			2256	0.5	15	15	
13 Tu	0137	-0.2	-6	18	28 W	0129	0.0	0	15	13 F	0248	0.1	3	3	28 Sa	0408	0.2	6	-3	13 F	1425	-0.1	-3	12	28 Sa	1353	-0.2	-6	-6	
	1142	0.6	18			1042	0.5	15			0802	0.3	9			0549	0.3	9	9		2337	0.4	12							
14 W	0203	0.0	0	15	29 Th	0142	0.0	0	12	14 Sa	0629	0.3	9	-3	14 Sa	1439	-0.2	-6		14 Sa					29 Su	0002	0.5	15	-9	
	1131	0.5	15			1027	0.4	12			1617	-0.1	-3													1412	-0.3	-9		
15 Th	0207	0.1	3	12	30 F	0134	0.1	3	3	15 Su	0555	0.4	12	-6	15 Su	0104	0.4	12	-9	15 Su	0104	0.4	12	-9	30 M	0128	0.5	15	-9	
	1047	0.4	12	3		0948	0.4	12	3		1640	-0.2	-6			1501	-0.3	-9								1441	-0.3	-9		
	2008	0.1	3		31 Sa	0834	0.4	12	0																31 Tu	0302	0.6	18	-12	
						1730	0.0	0																			1516	-0.4	-12	

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.

Maguëyes Island, Puerto Rico, 2009

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 W	0853	0.0	0	0	16 Th	0801	0.0	0	0	1 Sa	0923	-0.1	-3	0	16 Su	0841	0.0	0	0	1 Tu	1108	0.2	6	6	16 W	1110	0.3	9	9
	2030	0.7	21	21		2002	0.8	24	24		2052	0.8	24	24		2032	1.0	30	30		2054	0.9	27	27		2032	0.9	27	27
2 Th	0918	-0.1	-3	0	17 F	0831	-0.1	-3	0	2 Su	1024	-0.1	-3	0	17 M	0956	0.0	0	0	2 W	1154	0.3	9	9	17 Th	1227	0.4	12	12
	2047	0.7	21	21		2025	0.8	24	24		2120	0.8	24	24		2107	1.0	30	30		2104	0.9	27	27		2029	0.8	24	24
3 F	0954	-0.2	-6	0	18 Sa	0917	-0.2	-6	0	3 M	1114	-0.1	-3	0	18 Tu	1102	0.0	0	0	3 Th	1235	0.4	12	12	18 F	0311	0.6	18	18
	2112	0.7	21	21		2058	0.9	27	27		2145	0.8	24	24		2136	1.0	30	30		2105	0.8	24	24		0750	0.7	21	21
4 Sa	1035	-0.2	-6	0	19 Su	1010	-0.2	-6	0	4 Tu	1154	0.0	0	0	19 W	1158	0.1	3	3	4 F	0458	0.4	12	12	18 F	1343	0.5	15	15
	2141	0.7	21	21		2135	1.0	30	30		2205	0.8	24	24		2157	0.9	27	27		0703	0.5	15	15		1517	0.5	15	15
5 Su	1116	-0.2	-6	0	20 M	1103	-0.2	-6	0	5 W	1227	0.1	3	3	20 Th	1249	0.2	6	6	5 Sa	0352	0.5	15	15	19 Sa	0216	0.5	15	15
	2211	0.7	21	21		2211	1.0	30	30		2218	0.8	24	24		2203	0.8	24	24		0843	0.6	18	18		0910	0.7	21	21
6 M	1154	-0.2	-6	0	21 Tu	1152	-0.2	-6	0	6 Th	1253	0.1	3	3	21 F	1334	0.3	9	9	6 Su	0322	0.5	15	15	19 Sa	1517	0.5	15	15
	2239	0.8	24	24		2244	1.0	30	30		2224	0.8	24	24		2145	0.7	21	21		1002	0.6	18	18		1839	0.6	18	18
7 Tu	1227	-0.2	-6	0	22 W	1237	-0.1	-3	0	7 F	1314	0.2	6	6	22 Sa	0445	0.5	15	15	7 M	0309	0.4	12	12	20 Su	0159	0.4	12	12
	2304	0.8	24	24		2310	0.9	27	27		2221	0.8	24	24		0830	0.6	18	18		1133	0.7	21	21	20 Su	1019	0.8	24	24
8 W	1254	-0.1	-3	0	23 Th	1314	0.0	0	0	8 Sa	1327	0.3	9	9	23 Su	0353	0.4	12	12	8 Tu	0308	0.3	9	9	21 M	0205	0.3	9	9
	2324	0.8	24	24		2322	0.8	24	24		2205	0.7	21	21		1055	0.6	18	18		1436	0.7	21	21		1131	0.8	24	24
9 Th	1314	-0.1	-3	0	24 F	1341	0.1	3	3	9 Su	0648	0.3	9	9	24 M	0348	0.3	9	9	9 W	0321	0.2	6	6	22 Tu	0222	0.2	6	6
	2336	0.7	21	21		2312	0.7	21	21		0916	0.4	12	12		1758	0.7	21	21		1616	0.8	24	24		1306	0.8	24	24
10 F	1325	0.0	0	0	25 Sa	1345	0.3	9	9	10 M	0540	0.4	12	12	25 Tu	0402	0.2	6	6	10 Th	0347	0.1	3	3	23 W	0248	0.1	3	3
	2339	0.7	21	21		2229	0.6	18	18		2022	0.6	18	18		1736	0.7	21	21		1708	0.9	27	27		1509	0.8	24	24
11 Sa	1319	0.1	3	3	26 Su	0723	0.4	12	12	11 Tu	0518	0.3	9	9	26 W	0429	0.1	3	3	11 F	0425	0.1	3	3	24 Th	0319	0.1	3	3
	2327	0.7	21	21		2118	0.6	18	18		1908	0.7	21	21		1802	0.8	24	24		1754	0.9	27	27		1634	0.8	24	24
12 Su	1226	0.2	6	6	27 M	0616	0.3	9	9	12 W	0520	0.2	6	6	27 Th	0506	0.1	3	3	12 Sa	0514	0.1	3	3	25 F	0354	0.1	3	3
	2252	0.6	18	18		2003	0.6	18	18		1840	0.7	21	21		1837	0.8	24	24		1837	1.0	30	30		1731	0.8	24	24
13 M	0952	0.2	6	6	28 Tu	0617	0.2	6	6	13 Th	0543	0.1	3	3	28 F	0555	0.1	3	3	13 Su	0620	0.1	3	3	26 Sa	0435	0.2	6	6
	2145	0.6	18	18		1929	0.7	21	21		1853	0.8	24	24		1912	0.8	24	24		1916	1.0	30	30		1814	0.9	27	27
14 Tu	0823	0.2	6	6	29 W	0642	0.1	3	3	14 F	0625	0.0	0	0	29 Sa	0706	0.1	3	3	14 M	0750	0.2	6	6	27 Su	0522	0.2	6	6
	2031	0.6	18	18		1934	0.7	21	21		1921	0.9	27	27		1945	0.8	24	24		1950	1.0	30	30		1847	0.9	27	27
15 W	0755	0.1	3	3	30 Th	0723	0.0	0	0	15 Sa	0726	0.0	0	0	30 Su	0844	0.1	3	3	15 Tu	0939	0.3	9	9	28 M	0625	0.3	9	9
	1957	0.7	21	21		1955	0.8	24	24		1956	1.0	30	30		2014	0.9	27	27		2017	1.0	30	30		1911	0.9	27	27
31 F	0819	0.0	0	0	31 F	0819	0.0	0	0	31 M	1009	0.2	6	6		1009	0.2	6	6						29 Tu	0910	0.4	12	12
	2023	0.8	24	24		2023	0.8	24	24		2037	0.9	27	27		2037	0.9	27	27							1927	0.9	27	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.

Magueyes Island, Puerto Rico, 2009

Times and Heights of High and Low Waters

October				November				December																								
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height																			
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm																		
1 Th	0307	0.5	15		16 F	0111	0.5	15		1 Su	0008	0.3	9		16 M	1003	0.9	27		1 Tu	1009	0.9	27		16 W	1038	0.7	21				
	0732	0.6	18			0834	0.8	24			0928	0.9	27		●							2355	-0.2	-6		●						
	1216	0.5	15																													
	1927	0.8	24																													
2 F	0217	0.5	15		17 Sa	0041	0.4	12		2 M	0011	0.2	6		17 Tu	0009	-0.1	-3		2 W	1054	0.9	27		17 Th	0029	-0.2	-6				
	0820	0.7	21			0912	0.9	27			1005	0.9	27			1042	0.9	27			○					1113	0.7	21				
	1332	0.6	18																			○										
	1904	0.7	21																													
3 Sa	0147	0.5	15		18 Su	0036	0.3	9		3 Tu	0026	0.1	3		18 W	0038	-0.1	-3		3 Th	0031	-0.2	-6		18 F	0101	-0.2	-6				
	0904	0.8	24			0953	0.9	27			1051	0.9	27			1125	0.8	24			1141	0.9	27			1146	0.7	21				
	1511	0.6	18																													
	1801	0.7	21		●																											
4 Su	0132	0.4	12		19 M	0047	0.2	6		4 W	0051	0.0	0		19 Th	0109	-0.1	-3		4 F	0109	-0.2	-6		19 Sa	0129	-0.1	-3				
	0949	0.8	24			1038	0.9	27			1147	1.0	30			1213	0.8	24			1229	0.9	27			1213	0.7	21				
○																																
5 M	0129	0.3	9		20 Tu	0108	0.1	3		5 Th	0122	-0.1	-3		20 F	0140	-0.1	-3		5 Sa	0145	-0.2	-6		20 Su	0150	-0.1	-3				
	1040	0.8	24			1130	0.9	27			1251	1.0	30			1303	0.8	24			1313	0.9	27			1233	0.7	21				
6 Tu	0137	0.2	6		21 W	0134	0.1	3		6 F	0156	-0.1	-3		21 Sa	0207	0.0	0		6 Su	0215	-0.1	-3		21 M	0200	0.0	0				
	1143	0.9	27			1233	0.9	27			1357	1.0	30			1349	0.8	24			1347	0.8	24			1239	0.6	18				
7 W	0156	0.1	3		22 Th	0203	0.0	0		7 Sa	0232	0.0	0		22 Su	0228	0.1	3		7 M	0232	0.0	0		22 Tu	0149	0.1	3				
	1308	0.9	27			1351	0.8	24			1457	1.0	30			1426	0.8	24			1401	0.7	21			1224	0.6	18				
8 Th	0224	0.1	3		23 F	0234	0.1	3		8 Su	0303	0.1	3		23 M	0235	0.1	3		8 Tu	0218	0.2	6		23 W	0051	0.2	6				
	1442	0.9	27			1508	0.8	24			1545	0.9	27			1449	0.7	21			1335	0.6	18			1133	0.5	15				
9 F	0258	0.1	3		24 Sa	0304	0.1	3		9 M	0323	0.2	6		24 Tu	0217	0.2	6		9 W	0052	0.3	9		24 Th	0956	0.5	15				
	1558	1.0	30			1608	0.8	24			1618	0.9	27			1451	0.7	21			1142	0.6	18			2147	0.1	3				
10 Sa	0337	0.1	3		25 Su	0329	0.2	6		10 Tu	0313	0.3	9		25 W	0123	0.3	9		10 Th	0916	0.6	18		25 F	0838	0.5	15				
	1656	1.0	30			1650	0.8	24			1629	0.8	24			1409	0.6	18			2202	0.2	6			2115	0.1	3				
11 Su	0418	0.1	3		26 M	0341	0.3	9		11 W	0203	0.4	12		26 Th	0016	0.3	9		11 F	0836	0.7	21		26 Sa	0816	0.6	18				
	1741	1.0	30			1718	0.8	24			1558	0.7	21			1020	0.6	18			2155	0.0	0			2115	0.0	0				
●																																
12 M	0458	0.2	6		27 Tu	0321	0.4	12		12 Th	0035	0.4	12		27 F	0853	0.7	21		12 Sa	0841	0.7	21		27 Su	0826	0.7	21				
	1816	1.0	30			1732	0.8	24			0915	0.7	21			2258	0.2	6			2212	-0.1	-3			2137	-0.2	-6				
13 Tu	0522	0.4	12		28 W	0225	0.4	12		13 F	0848	0.8	24		28 Sa	0845	0.7	21		13 Su	0902	0.8	24		28 M	0852	0.7	21				
	1839	0.9	27			1732	0.7	21			2321	0.2	6			2251	0.1	3			2241	-0.1	-3			2214	-0.2	-6				
14 W	0409	0.5	15		29 Th	0127	0.5	15		14 Sa	0903	0.8	24		29 Su	0902	0.8	24		14 M	0931	0.8	24		29 Tu	0925	0.8	24				
	1845	0.8	24			0856	0.6	18			2326	0.1	3			2300	0.0	0			2316	-0.2	-6			2257	-0.3	-9				
						1210	0.5	15																								
						1704	0.7	21																								
15 Th	0218	0.5	15		30 F	0044	0.4	12		<																						

San Juan, Puerto Rico, 2009

Times and Heights of High and Low Waters

January				February				March																										
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height																					
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm																				
1 Th	0520	0.2	6		16 F	0105	1.3	40		1 Su	0110	1.2	37		16 M	0231	1.3	40		1 Su	0617	0.3	9		16 M	0057	1.4	43						
	1213	1.4	43			0706	0.2	6			0713	0.4	12			0856	0.4	12			1130	0.9	27			0732	0.3	9						
	1850	0.3	9			1307	1.2	37			1235	1.0	30			1338	0.7	21			1746	-0.2	-6			1219	0.7	21		1833	-0.1	-3		
2 F	0029	1.0	30		17 Sa	0209	1.3	40		2 M	0211	1.3	40		17 Tu	0332	1.2	37		2 M	0052	1.4	43		17 Tu	0151	1.3	40		17 Tu	0825	0.4	12	
	0612	0.3	9			0813	0.3	9			0822	0.4	12			1000	0.4	12			0718	0.4	12			0825	0.4	12						
	1242	1.3	40			1345	1.1	34			1314	0.9	27			1419	0.7	21			1208	0.8	24			1258	0.7	21			1921	-0.1	-3	
3 Sa	0130	1.1	34		18 Su	0312	1.3	40		3 Tu	0316	1.4	43		18 W	0433	1.2	37		3 Tu	0153	1.5	46		18 W	0247	1.2	37		18 W	0921	0.4	12	
	0714	0.4	12			0923	0.4	12			0937	0.5	15			1103	0.5	15			0823	0.4	12			0921	0.4	12						
	1314	1.2	37			1423	0.9	27			1401	0.8	24			1507	0.7	21			1253	0.8	24			1343	0.7	21			2014	-0.1	-3	
4 Su	0234	1.2	37		19 M	0413	1.3	40		4 W	0424	1.5	46		19 Th	0532	1.2	37		4 W	0259	1.5	46		19 Th	0346	1.2	37		19 Th	1017	0.5	15	
	0825	0.5	15			1034	0.5	15			1054	0.5	15			1200	0.5	15			0933	0.5	15			1017	0.5	15						
	1351	1.1	34			1504	0.8	24			1459	0.8	24			1602	0.7	21			1348	0.7	21			1437	0.7	21			2111	0.0	0	
5 M	0339	1.4	43		20 Tu	0512	1.3	40		5 Th	0530	1.6	49		20 F	0624	1.3	40		5 Th	0407	1.5	46		20 F	0442	1.2	37		20 F	1108	0.5	15	
	0944	0.5	15			1143	0.5	15			1204	0.5	15			1249	0.5	15			1042	0.5	15			1108	0.5	15						
	1435	1.0	30			1547	0.7	21			1607	0.8	24			1702	0.7	21			1456	0.8	24			1541	0.8	24						
6 Tu	0444	1.5	46		21 W	0608	1.3	40		6 F	0632	1.6	49		21 Sa	0710	1.3	40		6 F	0512	1.5	46		21 Sa	0532	1.2	37		21 Sa	1153	0.5	15	
	1104	0.5	15			1243	0.5	15			1304	0.4	12			1330	0.5	15			1143	0.4	12			1153	0.5	15						
	1526	0.9	27			1636	0.7	21			1720	0.8	24			1802	0.8	24			1613	0.8	24			1647	0.8	24						
7 W	0547	1.6	49		22 Th	0659	1.4	43		7 Sa	0729	1.7	52		22 Su	0032	-0.1	-3		7 Sa	0611	1.6	49		22 Su	0616	1.3	40		22 Su	1231	0.4	12	
	1219	0.5	15			1334	0.5	15			1356	0.4	12			0749	1.3	40			1235	0.4	12			1231	0.4	12						
	1625	0.8	24			1726	0.7	21			1832	0.9	27			1406	0.4	12			1729	0.9	27			1750	0.9	27						
8 Th	0648	1.8	55		23 F	0008	-0.3	-9		8 Su	0102	-0.5	-15		23 M	0120	-0.1	-3		8 Su	0704	1.6	49		23 M	0007	0.1	3		23 M	0654	1.3	40	
	1325	0.5	15			0746	1.4	43			0820	1.7	52			0824	1.4	43			1321	0.3	9			0654	1.3	40						
	1729	0.8	24			1418	0.5	15			1442	0.3	9			1438	0.4	12			1840	1.1	34			1305	0.4	12						
9 F	0008	-0.6	-18		24 Sa	0054	-0.3	-9		9 M	0203	-0.4	-12		24 Tu	0207	0.0	0		9 M	0100	-0.2	-6		24 Tu	0101	0.1	3		24 Tu	0730	1.2	37	
	0745	1.8	55			0827	1.4	43			0907	1.7	52			0856	1.4	43			0751	1.5	46			0730	1.2	37						
	1422	0.4	12			1457	0.5	15			1524	0.2	6			1508	0.3	9			1402	0.2	6			1337	0.3	9						
10 Sa	0108	-0.6	-18		25 Su	0139	-0.2	-6		10 Tu	0302	-0.3	-9		25 W	0253	0.0	0		10 Tu	0203	-0.2	-6		25 W	0155	0.2	6		25 W	0803	1.2	37	
	0840	1.9	58			0905	1.5	46			0951	1.6	49			0926	1.3	40			1441	0.1	3			1408	0.2	6						
	1514	0.4	12			1532	0.4	12			1605	0.1	3			1536	0.2	6			2042	1.4	43			2028	1.4	43						
11 Su	0207	-0.6	-18		26 M	0221	-0.2	-6		11 W	0400	-0.2	-6		26 Th	0341	0.1	3		11 W	0302	-0.1	-3		26 Th	0248	0.2	6		26 Th	0837	1.1	34	
	0931	1.9	58			0938	1.5	46			1032	1.5	46			0956	1.2	37			0915	1.3	40			0837	1.1	34						
	1601	0.3	9			1604	0.4	12			1644	0.1	3			1604	0.1	3			1519	0.0	0			1439	0.0	0						
12 M	0306	-0.5	-15		27 Tu	0302	-0.1	-3		12 Th	0458	0.0	0		27 F	0430	0.2	6		12 Th	0359	0.0	0		27 F	0340	0.2	6		27 F	0911	1.0	30	
	1020	1.9	58			1009	1.5	46			1111	1.3	40			1025	1.1	34			0954	1.2	37			0911	1.0	30						
	1647	0.3	9			1634	0.4	12			1722	0.0	0			1634	0.0	0			1556	-0.1	-3			1513	-0.1	-3						
13 Tu	0404	-0.3	-9		28 W	0344	0.0	0		13 F	0555	0.1	3		28 Sa	0522	0.2	6		13 F	0453	0.1	3		28 Sa	0433	0.2	6		28 Sa	0947	0.9	27	
	1105	1.8	55			1037	1.4	43			1148	1.1	34			1056	1.0	30			1031	1.0	30			0947	0.9	27						
	1730	0.2	6			1701	0.3	9			1801	-0.1	-3			1708	-0.1	-3			1633	-0.1	-3			1550	-0.2	-6						
14 W	0503	-0.2	-6		29 Th	0429	0.1	3		14 Sa	0037	1.4	43		14 Sa	0547	0.2	6		14 Sa	0547	0.2	6		29 Su	0527	0.2	6		29 Su	1631	-0.2	-6	
	1148	1.6	49			1105	1.3	40			1225	1.0	30			1108	0.9	27			1108	0.9	27			1024	0.8	24						
	1812	0.1	3			1727	0.2	6			1840	-0.1	-3			1710	-0.1	-3			2228	1.5	46			1631	-0.2	-6						
15 Th	0001	1.2	37		30 F	0517	0.2	6		15 Su	0134	1.3	40		15 Su	0007	1.5	46		15 Su	0007	1.5	46		30 M	0623	0.3	9		30 M	1105	0.8	24	
	0603	0.0	0			1132	1.2	37			0754	0.3	9			0639	0.2	6			1143	0.8	24			1105	0.8	24						
	1228	1.4	43			1756	0.1	3			1301	0.8	24			1143	0.8	24			1750	-0.2	-6			1717	-0.3	-9						
16 F	0603	0.0	0		31 Sa	0013	1.2	37																										
	1228	1.4	43			0612	0.3	9																										
	1852	0.0	0			1202	1.1	34																										
					1828	0.0	0																											

San Juan, Puerto Rico, 2009

Times and Heights of High and Low Waters

April				May				June																					
Time		Height		Time		Height		Time		Height		Time		Height															
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm															
1 W	0140	1.6	49		16 Th	0204	1.3	40		1 F	0222	1.6	49		16 Sa	0200	1.3	40		1 M	0326	1.3	40		16 Tu	0212	1.2	37	
	0823	0.4	12			0845	0.4	12			0904	0.3	9			0844	0.4	12			0957	0.0	0			0855	0.1	3	
	1247	0.7	21			1314	0.7	21			1410	0.9	27			1400	0.8	24			1638	1.4	43			1545	1.2	37	
	1910	-0.3	-9			1929	0.0	0	☉		2012	0.0	0			1944	0.3	9			2243	0.4	12			2136	0.6	18	
2 Th	0243	1.6	49		17 F	0254	1.3	40		2 Sa	0316	1.5	46		17 Su	0237	1.3	40		2 Tu	0411	1.1	34		17 W	0250	1.1	34	
	0925	0.4	12			0931	0.5	15			0953	0.3	9			0918	0.3	9			1038	-0.1	-3			0932	0.0	0	
	1355	0.8	24			1416	0.8	24			1528	1.0	30			1508	0.9	27			1739	1.5	46			1643	1.4	43	
	2018	-0.2	-6	☉		2027	0.1	3			2127	0.1	3			2050	0.4	12	☉		2358	0.4	12			2254	0.6	18	
3 F	0345	1.6	49		18 Sa	0341	1.3	40		3 Su	0408	1.4	43		18 M	0315	1.2	37		3 W	0456	1.0	30		18 Th	0334	0.9	27	
	1023	0.4	12			1014	0.4	12			1038	0.2	6			0952	0.2	6			1119	-0.2	-6			1015	-0.2	-6	
	1512	0.9	27			1525	0.8	24			1641	1.2	37			1613	1.1	34			1833	1.6	49			1741	1.6	49	
	2130	-0.1	-3			2129	0.2	6			2244	0.2	6			2202	0.4	12											
4 Sa	0445	1.5	46		19 Su	0426	1.2	37		4 M	0457	1.3	40		19 Tu	0354	1.1	34		4 Th	0106	0.4	12		19 F	0008	0.5	15	
	1114	0.4	12			1052	0.4	12			1119	0.1	3			1027	0.1	3			0540	0.8	24			0425	0.9	27	
	1630	1.0	30			1633	1.0	30			1747	1.4	43			1712	1.3	40			1159	-0.2	-6			1103	-0.3	-9	
	2244	-0.1	-3			2235	0.3	9			2358	0.3	9			2316	0.5	15			1922	1.6	49			1837	1.7	52	
5 Su	0539	1.5	46		20 M	0507	1.2	37		5 Tu	0543	1.2	37		20 W	0436	1.0	30		5 F	0206	0.4	12		20 Sa	0116	0.5	15	
	1159	0.3	9			1128	0.3	9			1159	0.0	0			1104	0.0	0			0624	0.7	21			0520	0.8	24	
	1742	1.1	34			1735	1.1	34			1844	1.5	46			1806	1.4	43			1240	-0.3	-9			1155	-0.4	-12	
	2355	0.0	0			2340	0.3	9													2008	1.6	49			1932	1.8	55	
6 M	0628	1.4	43		21 Tu	0546	1.2	37		6 W	0106	0.3	9		21 Th	0026	0.4	12		6 Sa	0258	0.4	12		21 Su	0217	0.4	12	
	1240	0.2	6			1202	0.2	6			0627	1.0	30			0521	0.9	27			0708	0.7	21			0619	0.8	24	
	1846	1.3	40			1830	1.3	40			1237	-0.1	-3			1144	-0.2	-6			1321	-0.3	-9			1250	-0.5	-15	
											1936	1.6	49			1858	1.6	49			2052	1.6	49			2026	1.9	58	
7 Tu	0103	0.1	3		22 W	0044	0.3	9		7 Th	0208	0.3	9		22 F	0131	0.4	12		7 Su	0344	0.3	9		22 M	0312	0.4	12	
	0712	1.3	40			0625	1.1	34			0710	0.9	27			0608	0.8	24			0750	0.6	18			0721	0.8	24	
	1319	0.1	3			1236	0.1	3			1315	-0.2	-6			1227	-0.3	-9			1402	-0.3	-9			1346	-0.5	-15	
	1943	1.5	46			1921	1.5	46			2023	1.7	52			1950	1.8	55			2134	1.6	49	☉		2120	2.0	61	
8 W	0205	0.1	3		23 Th	0144	0.3	9		8 F	0304	0.3	9		23 Sa	0232	0.4	12		8 M	0426	0.4	12		23 Tu	0403	0.4	12	
	0754	1.2	37			0705	1.0	30			0751	0.8	24			0657	0.8	24			0832	0.6	18			0824	0.8	24	
	1357	0.0	0			1312	-0.1	-3			1353	-0.2	-6			1314	-0.4	-12			1443	-0.3	-9			1444	-0.5	-15	
	2035	1.6	49			2009	1.6	49			2107	1.7	52			2041	1.9	58			2215	1.6	49			2212	2.0	61	
9 Th	0303	0.1	3		24 F	0241	0.3	9		9 Sa	0354	0.3	9		24 Su	0329	0.3	9		9 Tu	0505	0.4	12		24 W	0452	0.3	9	
	0834	1.0	30			0746	0.9	27			0830	0.7	21			0748	0.7	21			0914	0.7	21			0929	0.9	27	
	1433	-0.1	-3			1350	-0.2	-6			1431	-0.2	-6			1403	-0.5	-15			1523	-0.2	-6			1542	-0.4	-12	
	2123	1.6	49	☉		2058	1.7	52			2151	1.6	49			2134	1.9	58	☉		2254	1.6	49			2301	1.9	58	
10 F	0358	0.2	6		25 Sa	0337	0.3	9		10 Su	0440	0.3	9		25 M	0423	0.3	9		10 W	0543	0.4	12		25 Th	0539	0.3	9	
	0913	0.9	27			0827	0.8	24			0909	0.7	21			0842	0.7	21			0958	0.7	21			1036	1.0	30	
	1510	-0.2	-6			1432	-0.3	-9			1510	-0.2	-6			1456	-0.5	-15			1603	-0.1	-3			1642	-0.3	-9	
	2209	1.6	49			2147	1.8	55			2233	1.6	49			2227	1.9	58			2331	1.5	46			2349	1.8	55	
11 Sa	0448	0.2	6		26 Su	0432	0.3	9		11 M	0524	0.3	9		26 Tu	0516	0.3	9		11 Th	0619	0.4	12		26 F	0624	0.2	6	
	0950	0.8	24			0911	0.8	24			0947	0.6	18			0938	0.7	21			1046	0.7	21			1146	1.1	34	
	1547	-0.2	-6			1517	-0.4	-12			1550	-0.2	-6			1551	-0.5	-15			1644	0.0	0			1745	-0.1	-3	
	2254	1.6	49			2239	1.8	55			2316	1.5	46			2320	1.9	58											
12 Su	0537	0.2	6		27 M	0526	0.3	9		12 Tu	0607	0.3	9		27 W	0607	0.3	9		12 F	0005	1.5	46		27 Sa	0035	1.7	52	
	1027	0.7	21			0957	0.7	21			1026	0.6	18			1040	0.8	24			0652	0.4	12			0708	0.2	6	
	1625	-0.2	-6			1606	-0.4	-12			1630	-0.2	-6			1649	-0.4	-12			1139	0.8	24			1257	1.2	37	
	2339	1.5	46			2332	1.8	55			2358	1.5	46								1728	0.1	3			1851	0.1	3	
13 M	0624	0.3	9		28 Tu	0621	0.3	9		13 W	0648	0.4	12		28 Th	0012	1.9	58		13 Sa	0037	1.4	43		28 Su	0118	1.5	46	
	1103	0.7	21			1048	0.7	21			1108	0.7	21			1148	0.9	27			0722	0.4	12			0750	0.1	3	
	1706	-0.2	-6			1659	-0.4	-12			1713	-0.1	-3			1750	-0.2	-6			1238	0.9	27			1408	1.3	40	
																					1816	0.3	9			2003	0.3	9	
14 Tu	0026	1.4	43		29 W	0028	1.8	55		14 Th	0040	1.4	43		29 F	0104	1.8	55		14 Su	0107	1.4	43		29 M	0201	1.3	40	
	0710	0.3	9			0717	0.3	9																					

San Juan, Puerto Rico, 2009

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 W	0326	1.0	30		16 Th	0200	1.0	30		1 Sa	0030	0.6	18		16 Su	0329	1.0	30		1 Tu	0115	0.7	21		16 W	0049	0.7	21	
	0958	-0.1	-3			0847	-0.1	-3			0421	0.8	24			1017	-0.2	-6			0556	1.1	34			0610	1.4	43	
	1719	1.5	46			1615	1.5	46			1100	-0.1	-3			1759	1.9	58			1217	0.2	6			1227	0.2	6	
	2350	0.5	15			2236	0.7	21			1840	1.6	49								1929	1.7	52			1915	1.9	58	
2 Th	0410	0.8	24		17 F	0248	0.9	27		2 Su	0121	0.6	18		17 M	0033	0.7	21		2 W	0148	0.7	21		17 Th	0130	0.5	15	
	1042	-0.2	-6			0938	-0.2	-6			0514	0.8	24			0445	1.1	34			0652	1.2	37			0717	1.6	49	
	1814	1.6	49			1717	1.7	52			1150	-0.1	-3			1123	-0.2	-6			1306	0.3	9			1332	0.2	6	
				2351		0.6	18		1927		1.6	49		1855		2.0	61		2003		1.7	52		2000		1.8	55		
3 F	0056	0.5	15		18 Sa	0346	0.9	27		3 M	0204	0.6	18		18 Tu	0124	0.7	21		3 Th	0219	0.7	21		18 F	0210	0.4	12	
	0456	0.8	24			1035	-0.3	-9			0608	0.9	27			0600	1.2	37			0745	1.3	40			0818	1.8	55	
	1127	-0.2	-6			1817	1.8	55			1238	-0.1	-3			1328	-0.2	-6			1353	0.4	12			1435	0.3	9	
1904	1.6	49							2009		1.6	49		1947		2.0	61		2034		1.6	49		2042		1.7	52		
4 Sa	0151	0.5	15		19 Su	0057	0.6	18		4 Tu	0241	0.6	18		19 W	0210	0.6	18		4 F	0248	0.6	18		19 Sa	0249	0.3	9	
	0544	0.7	21			0451	0.9	27			0701	0.9	27			0711	1.3	40			0834	1.4	43			0915	1.9	58	
	1213	-0.2	-6			1134	-0.4	-12			1324	0.0	0			1332	-0.1	-3			1440	0.4	12			1535	0.4	12	
	1951	1.6	49			1915	1.9	58			2046	1.6	49			2034	2.0	61			2103	1.6	49			2123	1.5	46	
5 Su	0239	0.5	15		20 M	0154	0.6	18		5 W	0314	0.6	18		20 Th	0253	0.5	15		5 Sa	0315	0.5	15		20 Su	0328	0.2	6	
	0632	0.7	21			0600	0.9	27			0753	1.0	30			0818	1.4	43			0920	1.5	46			1008	2.0	61	
	1258	-0.2	-6			1235	-0.4	-12			1407	0.1	3			1434	0.0	0			1527	0.5	15			1634	0.5	15	
	2034	1.6	49			2010	2.0	61			2119	1.6	49			2119	1.9	58			2131	1.5	46			2203	1.4	43	
6 M	0320	0.5	15		21 Tu	0245	0.5	15		6 Th	0345	0.6	18		21 F	0334	0.4	12		6 Su	0342	0.4	12		21 M	0407	0.2	6	
	0719	0.7	21			0709	1.0	30			0844	1.1	34			0922	1.6	49			1005	1.6	49			1100	2.0	61	
	1341	-0.2	-6			1336	-0.4	-12			1450	0.2	6			1535	0.1	3			1615	0.6	18			1731	0.5	15	
	2115	1.6	49			2101	2.0	61			2149	1.6	49			2201	1.8	55			2159	1.4	43			2242	1.3	40	
7 Tu	0358	0.5	15		22 W	0332	0.5	15		7 F	0414	0.5	15		22 Sa	0414	0.3	9		7 M	0410	0.3	9		22 Tu	0448	0.1	3	
	0806	0.8	24			0818	1.1	34			0933	1.2	37			1022	1.7	52			1050	1.7	52			1152	1.9	58	
	1423	-0.2	-6			1437	-0.3	-9			1533	0.3	9			1636	0.3	9			1705	0.6	18			1827	0.6	18	
	2152	1.6	49			2149	2.0	61			2217	1.6	49			2242	1.6	49			2228	1.3	40			2321	1.1	34	
8 W	0433	0.5	15		23 Th	0417	0.4	12		8 Sa	0440	0.5	15		23 Su	0454	0.2	6		8 Tu	0441	0.3	9		23 W	0530	0.1	3	
	0854	0.8	24			0925	1.2	37			1021	1.2	37			1121	1.8	55			1137	1.7	52			1244	1.9	58	
	1504	-0.1	-3			1537	-0.2	-6			1617	0.4	12			1737	0.4	12			1758	0.7	21			1923	0.7	21	
	2227	1.6	49			2235	1.9	58			2243	1.5	46			2322	1.4	43			2259	1.2	37						
9 Th	0506	0.5	15		24 F	0459	0.3	9		9 Su	0506	0.4	12		24 M	0534	0.1	3		9 W	0517	0.2	6		24 Th	0001	1.1	34	
	0943	0.8	24			1032	1.3	40			1109	1.3	40			1218	1.8	55			1228	1.8	55			0615	0.2	6	
	1544	0.0	0			1638	0.0	0			1704	0.5	15			1838	0.5	15			1855	0.7	21			1339	1.8	55	
	2258	1.6	49			2318	1.8	55			2309	1.4	43								2333	1.1	34			2021	0.7	21	
10 F	0535	0.4	12		25 Sa	0541	0.2	6		10 M	0532	0.3	9		25 Tu	0001	1.3	40		10 Th	0600	0.1	3		25 F	0043	1.0	30	
	1033	0.9	27			1137	1.4	43			1158	1.4	43			0616	0.1	3			1325	1.8	55			0704	0.2	6	
	1626	0.2	6			1741	0.2	6			1756	0.6	18			1316	1.8	55			1958	0.8	24			1436	1.7	52	
	2326	1.5	46								2336	1.3	40			1941	0.6	18								2118	0.8	24	
11 Sa	0602	0.4	12		26 Su	0000	1.6	49		11 Tu	0602	0.2	6		26 W	0040	1.1	34		11 F	0015	1.1	34		26 Sa	0132	1.0	30	
	1126	1.0	30			0622	0.1	3			1250	1.5	46			0700	0.1	3			0651	0.1	3			0758	0.3	9	
	1710	0.3	9			1242	1.5	46			1853	0.6	18			1415	1.7	52			1428	1.8	55			1533	1.6	49	
	2353	1.4	43			1846	0.3	9								2046	0.7	21			2106	0.8	24			2213	0.8	24	
12 Su	0628	0.3	9		27 M	0040	1.4	43		12 W	0006	1.2	37		27 Th	0121	1.0	30		12 Sa	0109	1.1	34		27 Su	0230	1.0	30	
	1220	1.1	34			0704	0.0	0			0638	0.1	3			0748	0.1	3			0750	0.0	0			0856	0.3	9	
	1800	0.4	12			1346	1.5	46			1346	1.6	49			1515	1.6	49			1533	1.9	58			1627	1.6	49	
						1955	0.5	15			1958	0.7	21			2152	0.7	21			2213	0.8	24			2302	0.8	24	
13 M	0019	1.3	40		28 Tu	0120	1.2	37		13 Th	0041	1.1	34		28 F	0206	1.0	30		13 Su	0217	1.1	34		28 M	0336	1.1	34	
	0656	0.2	6			0747	0.0	0			0721	0.0	0			0840	0.1	3			0857	0.0	0			0956	0.4	12	
	1316	1.2	37			1449	1.6	49			1447	1.6	49			1616	1.6	49			1636	1.9	58			1715	1.6	49	
	1857	0.5	15			2106	0.6	18			2109	0.7	21			2255	0.7	21			2313	0.8	24			2342	0.8	24	
14 Tu	0048	1.2	37		29 W	0201	1.1	34		14 F	0125	1.0	30		29 Sa	0257	1.0	30		14 M	0336	1.2	37		29 Tu	0443	1.2	37	
	0726	0.1																											

Charlotte Amalie, St. Thomas Island, 2009

Times and Heights of High and Low Waters

January				February				March															
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height										
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm									
1 Th	0315	0.1	3	16 F	0138	0.3	9	1 Su	0206	0.4	12	16 M	0351	0.5	15	1 Su	0013	0.5	15	16 M	0137	0.5	15
	1208	0.7	21		0643	0.2	6		0822	0.2	6		1944	-0.2	-6		0755	0.1	3		1734	-0.2	-6
	2022	0.1	3		1205	0.4	12		1117	0.3	9		0956	0.2	6		0956	0.2	6		1712	-0.2	-6
	2348	0.2	6		1954	0.0	0		1907	-0.1	-3		1712	-0.2	-6		1712	-0.2	-6				
2 F	0348	0.1	3	17 Sa	0337	0.4	12	2 M	0345	0.5	15	17 Tu	0456	0.5	15	2 M	0138	0.5	15	17 Tu	0251	0.5	15
	1226	0.6	18		0843	0.2	6		1940	-0.2	-6		2036	-0.3	-9		1752	-0.2	-6		1831	-0.2	-6
	2023	0.1	3		1147	0.3	9		0	0	0		0	0	0		0	0	0		0	0	
					2019	-0.1	-3		0	0	0		0	0	0		0	0	0		0	0	0
3 Sa	0255	0.3	9	18 Su	0448	0.5	15	3 Tu	0456	0.6	18	18 W	0553	0.5	15	3 Tu	0307	0.6	18	18 W	0400	0.5	15
	0528	0.2	6		2050	-0.2	-6		2026	-0.3	-9		2131	-0.3	-9		1845	-0.3	-9		1937	-0.2	-6
	1241	0.5	15		0	0	0		0	0	0		0	0	0		0	0	0		0	0	
	2032	0.0	0		0	0	0		0	0	0		0	0	0		0	0	0		0	0	
4 Su	0444	0.5	15	19 M	0542	0.6	18	4 W	0555	0.7	21	19 Th	0642	0.6	18	4 W	0424	0.7	21	19 Th	0459	0.5	15
	0926	0.3	9		2126	-0.3	-9		2120	-0.4	-12		2226	-0.3	-9		1950	-0.3	-9		2044	-0.2	-6
	1241	0.4	12		0	0	0		0	0	0		0	0	0		0	0	0		0	0	
	2049	-0.1	-3		0	0	0		0	0	0		0	0	0		0	0	0		0	0	
5 M	0529	0.6	18	20 Tu	0631	0.6	18	5 Th	0649	0.8	24	20 F	0723	0.6	18	5 Th	0528	0.7	21	20 F	0546	0.6	18
	2114	-0.2	-6		2207	-0.3	-9		2219	-0.4	-12		2315	-0.3	-9		2100	-0.3	-9		2146	-0.1	-3
					0	0	0		0	0	0		0	0	0		0	0	0		0	0	
					0	0	0		0	0	0		0	0	0		0	0	0		0	0	
6 Tu	0615	0.7	21	21 W	0716	0.6	18	6 F	0739	0.8	24	21 Sa	0757	0.6	18	6 F	0622	0.7	21	21 Sa	0622	0.6	18
	2150	-0.3	-9		2251	-0.3	-9		2319	-0.4	-12		0	0	0		2211	-0.3	-9		2246	-0.1	-3
					0	0	0		0	0	0		0	0	0		0	0	0		0	0	
					0	0	0		0	0	0		0	0	0		0	0	0		0	0	
7 W	0703	0.8	24	22 Th	0758	0.6	18	7 Sa	0825	0.8	24	22 Su	0001	-0.2	-6	7 Sa	0708	0.7	21	22 Su	0650	0.6	18
	2234	-0.4	-12		2335	-0.4	-12		0	0	0		0824	0.6	18		2321	-0.2	-6		1414	0.1	3
					0	0	0		0	0	0		0	0	0		0	0	0		0	0	
					0	0	0		0	0	0		0	0	0		0	0	0		0	0	
8 Th	0753	0.9	27	23 F	0837	0.7	21	8 Su	0019	-0.4	-12	23 M	0044	-0.2	-6	8 Su	0747	0.7	21	23 M	0712	0.6	18
	2323	-0.4	-12		0905	0.8	24		0844	0.6	18		1510	0.1	3		1409	0.2	6				
					0	0	0		1609	0.1	3		1744	0.2	6		1818	0.3	9				
					0	0	0		1828	0.2	6		0	0	0		0	0	0		0		
9 F	0842	0.9	27	24 Sa	0015	-0.3	-9	9 M	0118	-0.3	-9	24 Tu	0128	-0.1	-3	9 M	0031	-0.2	-6	24 Tu	0046	0.0	0
					0910	0.7	21		0940	0.8	24		0901	0.6	18		0818	0.6	18		0731	0.5	15
					0	0	0		1707	0.1	3		1608	0.2	6		1510	0.2	6		1412	0.2	6
					0	0	0		1922	0.2	6		1942	0.3	9		1909	0.3	9		1921	0.4	12
10 Sa	0016	-0.5	-15	25 Su	0052	-0.3	-9	10 Tu	0219	-0.2	-6	25 W	0218	0.0	0	10 Tu	0142	-0.1	-3	25 W	0153	0.1	3
	0930	1.0	30		0937	0.7	21		1007	0.7	21		0918	0.5	15		0842	0.5	15		0749	0.5	15
					0	0	0		1711	0.2	6		1613	0.1	3		1520	0.1	3		1418	0.1	3
					2050	0.3	9		2048	0.3	9		2048	0.3	9		2020	0.4	12		2017	0.5	15
11 Su	0109	-0.4	-12	26 M	0125	-0.3	-9	11 W	0324	-0.1	-3	26 Th	0317	0.1	3	11 W	0255	0.0	0	26 Th	0307	0.1	3
	1014	0.9	27		0959	0.7	21		1026	0.5	15		0933	0.5	15		0858	0.4	12		0805	0.4	12
					0	0	0		1724	0.1	3		1620	0.1	3		1533	0.1	3		1425	0.0	0
					0	0	0		2212	0.3	9		2153	0.4	12		2124	0.5	15		2111	0.6	18
12 M	0204	-0.3	-9	27 Tu	0156	-0.2	-6	12 Th	0436	0.1	3	27 F	0431	0.1	3	12 Th	0411	0.1	3	27 F	0427	0.2	6
	1053	0.9	27		1017	0.7	21		1037	0.4	12		0948	0.4	12		0907	0.3	9		0820	0.3	9
					0	0	0		1741	0.0	0		1630	0.0	0		1548	0.0	0		1436	0.0	0
					2336	0.4	12		2259	0.4	12		2259	0.4	12		2225	0.5	15		2205	0.6	18
13 Tu	0259	-0.2	-6	28 W	0230	-0.1	-3	13 F	0559	0.1	3	28 Sa	0601	0.2	6	13 F	0532	0.1	3	28 Sa	0556	0.1	3
	1125	0.8	24		1034	0.6	18		1040	0.3	9		1000	0.3	9		0909	0.2	6		0829	0.2	6
	1913	0.1	3		1819	0.1	3		1802	0.0	0		1645	-0.1	-3		1605	-0.1	-3		1455	-0.1	-3
	2121	0.2	6		2114	0.2	6		0	0	0		0	0	2325		0.5	15	2303		0.7	21	
14 W	0359	-0.1	-3	29 Th	0312	0.0	0	14 Sa	0106	0.4	12	29 Su	0106	0.4	12	14 Sa	1625	-0.1	-3	29 Su	1525	-0.2	-6
	1149	0.7	21		1051	0.6	18		0738	0.1	3		1030	0.2	6		0	0	0		0	0	
	1918	0.1	3		1822	0.1	3		1828	-0.1	-3		0	0	0		0	0	0		0	0	
	2318	0.2	6		2240	0.3	9		0	0	0		0	0	0		0	0	0		0	0	
15 Th	0511	0.1	3	30 F	0414	0.1	3	15 Su	0235	0.5	15	30 M	0028	0.5	15	15 Su	0009	0.7	21	30 M	1605	-0.3	-9
	1203	0.6	18		1107	0.5	15		1901	-0.2	-6		1653	-0.2	-6		0	0	0		0	0	
	1934	0.1	3		1831	0.1	3		0	0	0		0	0	0		0	0	0		0		
					0	0	0		0	0	0		0	0	0		0	0	0		0	0	
			31 Sa	0014	0.3	9																	
				0600	0.2	6																	
				1119	0.4	12																	
				1844	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, 2009

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 W	0241	0.7	21		16 Th	0256	0.6	18	1 F	0307	0.8	24	16 Sa	0224	0.7	21	1 M	0253	0.6	18	16 Tu	0143	0.6	18					
	1805	-0.3	-9			1816	-0.1	-3			1902	0.0	0		1732	0.1	3		1027	0.0	0		0933	0.1	3				
																				1800	0.6	18		1742	0.5	15			
																				2323	0.3	9		2242	0.4	12			
2 Th	0350	0.8	24		17 F	0346	0.6	18	2 Sa	0353	0.7	21	17 Su	0252	0.7	21	2 Tu	0246	0.4	12	17 W	0145	0.5	15		0946	0.0	0	
	1922	-0.2	-6			1931	0.0	0			1147	0.1	3		1056	0.1	3		1045	0.0	0		1814	0.7	21		1814	0.7	21
											1541	0.2	6		1627	0.2	6		1848	0.7	21								
											2039	0.1	3		1937	0.1	3												
3 F	0448	0.8	24		18 Sa	0425	0.6	18	3 Su	0427	0.7	21	18 M	0317	0.6	18	3 W	1105	-0.1	-3	18 Th	1005	-0.1	-3		1854	0.8	24	
	2045	-0.1	-3			2049	0.1	3			1145	0.1	3		1054	0.1	3		1931	0.8	24								
											1730	0.4	12		1742	0.4	12												
											2226	0.2	6		2158	0.3	9												
4 Sa	0536	0.7	21		19 Su	0455	0.6	18	4 M	0451	0.5	15	19 Tu	0338	0.5	15	4 Th	1128	-0.2	-6	19 F	1034	-0.2	-6		1938	0.9	27	
	1334	0.1	3			1228	0.2	6		1155	0.1	3		1059	0.1	3		2012	0.8	24									
	1551	0.2	6			1642	0.3	9		1836	0.5	15		1824	0.5	15													
	2209	0.0	0			2211	0.1	3																					
5 Su	0614	0.7	21		20 M	0520	0.6	18	5 Tu	0021	0.3	9	20 W	0013	0.3	9	5 F	1152	-0.2	-6	20 Sa	1111	-0.3	-9		2025	1.0	30	
	1321	0.2	6			1225	0.2	6		0504	0.4	12		0354	0.4	12		2050	0.8	24									
	1741	0.3	9			1759	0.4	12		1208	0.0	0		1108	0.0	0													
	2336	0.0	0			2340	0.2	6		1928	0.6	18		1903	0.6	18													
6 M	0643	0.6	18		21 Tu	0542	0.5	15	6 W	0220	0.2	6	21 Th	1123	-0.1	-3	6 Sa	1220	-0.3	-9	21 Su	1154	-0.4	-12		2115	1.0	30	
	1327	0.1	3			1229	0.1	3		0504	0.3	9		1945	0.8	24		2129	0.8	24									
	1855	0.4	12			1855	0.5	15		1223	-0.1	-3																	
										2013	0.7	21																	
7 Tu	0104	0.1	3		22 W	0113	0.2	6	7 Th	1239	-0.1	-3	22 F	1146	-0.2	-6	7 Su	1250	-0.3	-9	22 M	1242	-0.4	-12		2204	1.1	34	
	0703	0.5	15			0602	0.4	12		2054	0.8	24		2029	0.8	24		2208	0.8	24									
	1339	0.1	3			1236	0.0	0																					
	1955	0.5	15			1943	0.6	18																					
8 W	0231	0.2	6		23 Th	0246	0.2	6	8 F	1256	-0.2	-6	23 Sa	1216	-0.3	-9	8 M	1322	-0.3	-9	23 Tu	1334	-0.3	-9		2252	1.1	34	
	0715	0.4	12			0619	0.3	9		2134	0.8	24		2118	0.9	27		2246	0.8	24									
	1351	0.0	0			1246	0.0	0																					
	2047	0.6	18			2029	0.7	21																					
9 Th	0358	0.2	6		24 F	0422	0.1	3	9 Sa	1316	-0.2	-6	24 Su	1254	-0.4	-12	9 Tu	1354	-0.2	-6	24 W	1427	-0.3	-9		2336	1.0	30	
	0719	0.3	9			0629	0.2	6		2215	0.8	24		2209	1.0	30		2321	0.8	24									
	1405	-0.1	-3			1303	-0.1	-3																					
	2135	0.7	21			2117	0.8	24																					
10 F	1418	-0.1	-3		25 Sa	1327	-0.2	-6	10 Su	1340	-0.3	-9	25 M	1338	-0.4	-12	10 W	1424	-0.2	-6	25 Th	1524	-0.1	-3					
	2222	0.7	21			2208	0.8	24		2257	0.7	21		2304	1.0	30		2354	0.8	24									
11 Sa	1434	-0.2	-6		26 Su	1401	-0.3	-9	11 M	1411	-0.3	-9	26 Tu	1427	-0.3	-9	11 Th	1452	-0.1	-3	26 F	0013	0.9	27		1628	0.0	0	
	2309	0.7	21			2305	0.9	27		2342	0.7	21		2358	1.0	30													
12 Su	1456	-0.2	-6		27 M	1442	-0.3	-9	12 Tu	1445	-0.2	-6	27 W	1520	-0.3	-9	12 F	0022	0.8	24	27 Sa	0043	0.8	24		1750	0.2	6	
13 M	0000	0.7	21		28 Tu	0006	0.9	27	13 W	0027	0.7	21	28 Th	0049	0.9	27	13 Sa	0046	0.8	24	28 Su	0102	0.7	21		1938	0.3	9	
	1528	-0.2	-6			1532	-0.3	-9		1522	-0.2	-6		1619	-0.2	-6		1540	0.1	3		0840	0.2	6					
14 Tu	0057	0.6	18		29 W	0111	0.9	27	14 Th	0111	0.7	21	29 F	0135	0.9	27	14 Su	0108	0.7	21	29 M	0107	0.6	18					
	1612	-0.2	-6			1630	-0.3	-9		1600	-0.1	-3		1728	0.0	0		0925	0.2	6		0858	0.1	3					
15 W	0158	0.6	18		30 Th	0213	0.9	27	15 F	0151	0.7	21	30 Sa	0212	0.8	24	15 M	0127	0.7	21	30 Tu	0045	0.5	15					
	1708																												

Charlotte Amalie, St. Thomas Island, 2009

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 W	0947	-0.1	-3	24	16 Th	0843	-0.1	-3	24	1 Sa	1029	-0.1	-3	27	16 Su	0943	-0.1	-3	34	1 Tu	1146	0.2	6	6	16 W	0234	0.5	15	15	0531	0.6	18	18	1159	0.3	9	9	1940	1.1	34	34											
2 Th	1018	-0.2	-6	24	17 F	0918	-0.1	-3	27	2 Su	1116	-0.1	-3	27	17 M	1045	-0.1	-3	34	2 W	1233	0.2	6	6	17 Th	0234	0.6	18	18	0656	0.7	21	21	1317	0.4	12	12	2004	0.9	27	27											
3 F	1052	-0.2	-6	24	18 Sa	1003	-0.2	-6	30	3 M	1200	-0.1	-3	27	18 Tu	1147	0.0	0	34	3 Th	0328	0.5	15	15	0640	0.6	18	18	1321	0.3	9	9	2033	0.9	27	27	0244	0.5	15	15	0807	0.8	24	24	1438	0.5	15	15	2021	0.8	24	24
4 Sa	1129	-0.2	-6	24	19 Su	1053	-0.3	-9	34	4 Tu	1239	0.0	0	27	19 W	1251	0.1	3	34	4 F	0331	0.5	15	15	0746	0.7	21	21	1414	0.4	12	12	2048	0.9	27	27	0257	0.4	12	12	0912	0.9	27	27	1604	0.5	15	15	2031	0.7	21	21
5 Su	1207	-0.2	-6	24	20 M	1147	-0.3	-9	34	5 W	1316	0.0	0	27	20 Th	0427	0.5	15	18	5 Sa	0338	0.5	15	15	0847	0.7	21	21	1517	0.5	15	15	2102	0.8	24	24	0312	0.4	12	12	1013	1.0	30	30	1735	0.5	15	15	2030	0.6	18	18
6 M	1244	-0.2	-6	27	21 Tu	1242	-0.2	-6	34	6 Th	1351	0.1	3	27	21 F	0433	0.5	15	18	6 Su	0345	0.4	12	12	0946	0.8	24	24	1632	0.5	15	15	2115	0.7	21	21	0329	0.3	9	9	1113	1.0	30	30								
7 Tu	1318	-0.2	-6	27	22 W	1339	-0.1	-3	34	7 F	0539	0.4	12	15	22 Sa	0446	0.4	12	21	7 M	0354	0.4	12	12	1046	0.8	24	24	1802	0.5	15	15	2125	0.6	18	18	0350	0.2	6	6	1216	1.0	30	30								
8 W	1348	-0.1	-3	27	23 Th	1439	0.0	0	30	8 Sa	0540	0.4	12	15	23 Su	0504	0.4	12	24	8 Tu	0408	0.3	9	9	1151	0.9	27	27	0419	0.2	6	6	1323	1.0	30	30																
9 Th	1415	0.0	0	27	24 F	0631	0.3	9	12	9 Su	0547	0.4	12	18	24 M	0525	0.3	9	24	9 W	0433	0.2	6	6	1306	0.9	27	27	0501	0.2	6	6	1432	1.0	30	30																
10 F	1441	0.1	3	24	25 Sa	0640	0.3	9	15	10 M	0556	0.3	9	18	25 Tu	0552	0.2	6	27	10 Th	0511	0.2	6	6	1429	1.0	30	30	0559	0.2	6	6	1537	1.0	30	30																
11 Sa	0747	0.2	6	6	26 Su	0656	0.3	9	18	11 Tu	0610	0.2	6	21	26 W	0627	0.1	3	27	11 F	0603	0.1	3	34	11 Sa	0709	0.2	6	6	1633	1.0	30	30																			
12 Su	0743	0.3	9	9	27 M	0718	0.2	6	21	12 W	0631	0.2	6	24	27 Th	0713	0.1	3	27	12 Sa	0707	0.1	3	34	12 Su	0819	0.2	6	6	1719	1.0	30	30																			
13 M	0749	0.2	6	12	28 Tu	0745	0.1	3	24	13 Th	0705	0.1	3	27	28 F	0808	0.1	3	27	13 Su	0817	0.1	3	37	13 M	0925	0.3	9	9	1754	1.0	30	30																			
14 Tu	0011	0.6	18	3	29 W	0817	0.0	0	24	14 F	0750	0.0	0	30	29 Sa	0907	0.1	3	27	14 M	0930	0.1	3	37	14 Tu	1028	0.4	12	12	1821	1.0	30	30																			
15 W	0009	0.5	15	0	30 Th	0857	0.0	0	27	15 Sa	0844	-0.1	-3	30	30 Su	1004	0.1	3	30	15 Tu	1044	0.2	6	6	15 W	0137	0.5	15	15	0518	0.6	18	18	1131	0.4	12	12	1841	0.9	27	27											
16 Th	0817	0.0	0	21	31 F	0941	-0.1	-3	27	31 M	1057	0.1	3	30																																						

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, 2009

Times and Heights of High and Low Waters

July				August				September																									
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height																				
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm																			
1 W	0826	0.0	0		16 Th	0757	0.0	0		1 Sa	2119	0.8	24		16 Su	2043	1.0	30		1 Tu	2115	0.8	24		16 W	2048	0.9	27					
	2057	0.7	21			2009	0.8	24			2119	0.8	24			2043	1.0	30			2115	0.8	24			2048	0.9	27					
2 Th	0901	-0.1	-3		17 F	0832	-0.1	-3		2 Su	1003	-0.1	-3		17 M	0943	-0.1	-3		2 W	1115	0.2	6		17 Th	1146	0.4	12			2028	0.8	24
	2109	0.7	21			2030	0.9	27			2148	0.8	24			2124	1.0	30			2114	0.8	24			2028	0.8	24					
3 F	0941	-0.2	-6		18 Sa	0916	-0.2	-6		3 M	1050	-0.1	-3		18 Tu	1042	-0.1	-3		3 Th	1201	0.3	9		18 F	0203	0.6	18			0539	0.7	21
	2133	0.8	24			2105	0.9	27			2212	0.8	24			2159	1.0	30			2100	0.8	24			1310	0.5	15					
4 Sa	1023	-0.3	-9		19 Su	1005	-0.3	-9		4 Tu	1132	-0.1	-3		19 W	1138	0.0	0		4 F	1247	0.4	12			1458	0.5	15			1752	0.6	18
	2202	0.8	24			2146	1.0	30			2227	0.8	24			2224	0.9	27			2038	0.7	21			0810	0.8	24					
5 Su	1105	-0.3	-9		20 M	1055	-0.3	-9		5 W	1209	0.0	0		20 Th	1232	0.2	6		5 Sa	0257	0.5	15		20 Su	0116	0.4	12			0946	0.8	24
	2232	0.8	24			2227	1.0	30			2233	0.8	24			2226	0.8	24			0725	0.6	18			0116	0.4	12					
6 M	1145	-0.3	-9		21 Tu	1144	-0.3	-9		6 Th	1242	0.1	3		21 F	1324	0.3	9		6 Su	0241	0.5	15		21 M	0144	0.3	9			1109	0.9	27
	2259	0.8	24			2304	1.0	30			2230	0.8	24			2151	0.7	21			0916	0.7	21			1109	0.9	27					
7 Tu	1222	-0.2	-6		22 W	1231	-0.2	-6		7 F	1312	0.2	6		22 Sa	0338	0.5	15		7 M	0248	0.4	12		22 Tu	0220	0.2	6			1237	0.9	27
	2320	0.8	24			2333	0.9	27			2219	0.7	21			0657	0.6	18			1055	0.7	21			1237	0.9	27					
8 W	1254	-0.2	-6		23 Th	1314	-0.1	-3		8 Sa	1339	0.3	9		23 Su	0308	0.5	15		8 Tu	0307	0.3	9		23 W	0300	0.1	3			1422	0.9	27
	2333	0.8	24			2343	0.8	24			2202	0.7	21			0949	0.6	18			1247	0.8	24			1422	0.9	27					
9 Th	1322	-0.1	-3		24 F	1351	0.1	3		9 Su	0558	0.4	12		24 M	0327	0.3	9		9 W	0336	0.2	6		24 Th	0345	0.1	3			1609	0.9	27
	2339	0.8	24			2323	0.7	21			0808	0.5	15			1233	0.7	21			1500	0.8	24			1609	0.9	27					
10 F	1345	0.0	0		25 Sa	1418	0.3	9		10 M	0512	0.4	12		25 Tu	0402	0.2	6		10 Th	0414	0.1	3		25 F	0434	0.1	3			1724	0.9	27
	2337	0.7	21			2235	0.6	18			2052	0.6	18			1734	0.7	21			1632	0.9	27			1724	0.9	27					
11 Sa	1400	0.1	3		26 Su	0614	0.4	12		11 Tu	0513	0.3	9		26 W	0444	0.1	3		11 F	0501	0.0	0		26 Sa	0527	0.1	3			1816	0.9	27
	2326	0.7	21			0914	0.5	15			1946	0.7	21			1805	0.8	24			1736	1.0	30			1816	0.9	27					
12 Su	1354	0.2	6		27 M	0542	0.3	9		12 W	0533	0.2	6		27 Th	0533	0.1	3		12 Sa	0556	0.0	0		27 Su	0624	0.2	6			1854	0.9	27
	2303	0.6	18			2038	0.6	18			1847	0.7	21			1848	0.8	24			1830	1.0	30			1854	0.9	27					
13 M	0839	0.3	9		28 Tu	0604	0.2	6		13 Th	0607	0.1	3		28 F	0629	0.0	0		13 Su	0657	0.0	0		28 M	0725	0.2	6			1917	0.9	27
	2224	0.6	18			2000	0.7	21			1849	0.8	24			1930	0.8	24			1918	1.1	34			1917	0.9	27					
14 Tu	0737	0.2	6		29 W	0642	0.0	0		14 F	0652	0.0	0		29 Sa	0730	0.0	0		14 M	0804	0.1	3		29 Tu	0830	0.3	9			1923	0.8	24
	2123	0.6	18			1957	0.7	21			1921	0.9	27			2009	0.9	27			2000	1.0	30			1923	0.8	24					
15 W	0736	0.1	3		30 Th	0728	0.0	0		15 Sa	0745	-0.1	-3		30 Su	0832	0.0	0		15 Tu	0915	0.2	6		30 W	0943	0.4	12			1911	0.8	24
	2022	0.7	21			2018	0.8	24			2001	1.0	30			2041	0.9	27			2033	1.0	30			1911	0.8	24					
15 O					31 F	0819	-0.1	-3		31 M	0932	0.1	3			2104	0.9	27															
						2047	0.8	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.

Isla Zapara (Malecon), Venezuela, 2009

Times and Heights of High and Low Waters

January				February				March															
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height										
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm									
1 Th	0139	1.5	46	16 F	0313	1.1	34	1 Su	0232	1.7	52	16 M	0501	1.6	49	1 Su	0116	1.7	52	16 M	0348	1.7	52
	0834	3.8	116		0941	4.4	134		0903	3.8	116		1053	3.9	119		0732	3.6	110		0923	3.6	110
	1416	2.3	70		1600	1.1	34		1528	1.2	37		1725	0.6	18		1406	0.9	27		1557	0.6	18
	2015	3.9	119		2204	4.2	128		2147	3.6	110		2346	3.8	116		2039	3.6	110		2230	3.7	113
2 F	0218	1.6	49	17 Sa	0416	1.3	40	2 M	0325	1.7	52	17 Tu	0552	1.6	49	2 M	0215	1.8	55	17 Tu	0443	1.7	52
	0911	3.8	116		1036	4.4	134		0950	3.9	119		1139	3.9	119		0828	3.6	110		1013	3.6	110
	1506	2.1	64		1700	0.9	27		1623	0.9	27		1812	0.6	18		1505	0.7	21		1646	0.6	18
	2107	3.8	116		2309	4.1	125		2245	3.7	113		2039	3.6	110		2140	3.6	110		2315	3.7	113
3 Sa	0301	1.6	49	18 Su	0516	1.5	46	3 Tu	0421	1.7	52	18 W	0031	3.7	113	3 Tu	0317	1.7	52	18 W	0529	1.7	52
	0946	3.9	119		1127	4.4	134		1040	4.1	125		0636	1.6	49		0926	3.8	116		1059	3.6	110
	1556	1.7	52		1756	0.7	21		1717	0.6	18		1220	4.0	122		1603	0.5	15		1729	0.7	21
	2201	3.8	116		2009	4.0	122		2341	3.7	113		1854	0.7	21		2239	3.7	113		2353	3.7	113
4 Su	0346	1.6	49	19 M	0009	4.0	122	4 W	0518	1.6	49	19 Th	0110	3.7	113	4 W	0419	1.7	52	19 Th	0607	1.6	49
	1023	4.1	125		0611	1.6	49		1133	4.3	131		0714	1.6	49		1025	3.9	119		1140	3.7	113
	1646	1.4	43		1213	4.3	131		1811	0.3	9		1258	4.0	122		1659	0.3	9		1806	0.8	24
	2256	3.8	116		1846	0.6	18		0036	3.8	116		1931	0.7	21		2334	3.8	116		1839	0.9	27
5 M	0435	1.7	52	20 Tu	0101	3.9	119	5 Th	0614	1.5	46	20 F	0747	1.7	52	5 Th	0519	1.5	46	20 F	0028	3.7	113
	1104	4.2	128		0700	1.7	52		1226	4.5	137		1335	4.1	125		1123	4.1	125		0640	1.6	49
	1737	1.0	30		1932	0.6	18		1905	0.2	6		2005	0.8	24		1754	0.2	6		1219	3.8	116
	2351	3.9	119		0147	3.8	116		0129	4.0	122		0219	3.7	113		0027	3.9	119		1839	0.9	27
6 Tu	0526	1.6	49	21 W	0743	1.8	55	6 F	0712	1.5	46	21 Sa	0816	1.7	52	6 F	0616	1.4	43	21 Sa	0100	3.7	113
	1149	4.4	134		1333	4.3	131		1321	4.7	143		1412	4.1	125		1220	4.3	131		0710	1.6	49
	1828	0.6	18		2013	0.7	21		1959	0.1	3		2036	0.9	27		1848	0.1	3		1257	3.9	119
	0046	3.9	119		0227	3.7	113		0223	4.1	125		0253	3.7	113		0117	4.0	122		1910	0.9	27
7 W	0620	1.6	49	22 Th	0822	1.9	58	7 Sa	0810	1.4	43	22 Su	0846	1.7	52	7 Sa	0713	1.2	37	22 Su	0738	1.5	46
	1238	4.6	140		1410	4.2	128		1417	4.8	146		1449	4.1	125		1316	4.5	137		1336	3.9	119
	1921	0.3	9		2051	0.8	24		2053	0.1	3		2106	1.0	30		1942	0.2	6		1940	1.0	30
	0141	4.0	122		0304	3.7	113		0317	4.1	125		0328	3.7	113		0207	4.1	125		0132	3.8	116
8 Th	0716	1.6	49	23 F	0856	1.9	58	8 Su	0909	1.3	40	23 M	0919	1.7	52	8 Su	0810	1.1	34	23 M	0810	1.4	43
	1330	4.8	146		1447	4.2	128		1515	4.8	146		1528	4.1	125		1413	4.5	137		1416	3.9	119
	2015	0.1	3		2126	0.9	27		2148	0.2	6		2138	1.1	34		2036	0.3	9		2013	1.1	34
	0237	4.1	125		0341	3.6	110		0412	4.2	128		0404	3.7	113		0257	4.2	128		0238	3.9	119
9 F	0814	1.6	49	24 Sa	0927	2.0	61	9 M	1011	1.2	37	24 Tu	0955	1.6	49	9 M	0907	0.9	27	24 Tu	0845	1.2	37
	1425	5.0	152		1523	4.2	128		1614	4.7	143		1610	4.0	122		1510	4.5	137		1459	3.9	119
	2110	0.0	0		2158	1.0	30		2245	0.4	12		2213	1.2	37		2130	0.6	18		2048	1.2	37
	0335	4.1	125		0418	3.6	110		0509	4.2	128		0440	3.7	113		0348	4.2	128		0311	3.9	119
10 Sa	0915	1.6	49	25 Su	0958	2.1	64	10 Tu	1115	1.2	37	25 W	1037	1.5	46	10 Tu	1005	0.8	24	25 W	0924	1.1	34
	1523	5.0	152		1601	4.2	128		1717	4.6	140		1655	3.9	119		1610	4.4	134		1544	3.9	119
	2207	0.0	0		2230	1.1	34		2344	0.7	21		2251	1.3	40		2227	0.8	24		2127	1.3	40
	0434	4.2	128		0457	3.6	110		0607	4.2	128		0518	3.6	110		0440	4.1	125		0346	3.8	116
11 Su	1018	1.6	49	26 M	1033	2.1	64	11 W	1221	1.1	34	26 Th	1123	1.4	43	11 W	1105	0.7	21	26 Th	1008	0.9	27
	1623	5.0	152		1640	4.1	125		1823	4.4	134		1744	3.8	116		1713	4.2	128		1633	3.8	116
	2305	0.2	6		2302	1.2	37		0046	1.0	30		2334	1.5	46		2326	1.1	34		2211	1.5	46
	0535	4.3	131		0537	3.6	110		0707	4.1	125		0558	3.6	110		0534	4.0	122		0424	3.8	116
12 M	1126	1.6	49	27 Tu	1112	2.1	64	12 Th	1327	1.0	30	27 F	1214	1.2	37	12 Th	1205	0.7	21	27 F	1056	0.7	21
	1727	4.9	149		1722	4.0	122		1933	4.2	128		1839	3.7	113		1819	4.0	122		1727	3.7	113
	0004	0.4	12		2337	1.3	40		0152	1.2	37		0022	1.6	49		0030	1.4	43		2300	1.6	49
	0638	4.3	131		0617	3.6	110		0808	4.0	122		0642	3.6	110		0631	3.8	116		0507	3.7	113
13 Tu	1236	1.5	46	28 W	1807	3.9	119	13 F	1433	0.9	27	28 Sa	1309	1.1	34	13 F	1306	0.6	18	28 Sa	1149	0.6	18
	1833	4.7	143		1156	2.1	64		2043	4.0	122		1937	3.6	110		1927	3.9	119		1825	3.7	113
	0106	0.6	18		0015	1.4	43		0258	1.4	43		0022	1.6	49		0138	1.6	49		2356	1.7	52
	0741	4.4	134		0657	3.6	110		0907	4.0	122		0642	3.6	110		0730	3.7	113		1149	0.6	18
14 W	1346	1.4	43	29 Th	1246	1.9	58	14 Sa	1535	0.7	21	29 Su	1406	0.6	18	14 Sa	1406	0.6	18	29 Su	0558	3.7	113
	1943	4.5	137		1857	3.8	116		2151	3.9	119		1535	0.7	21		2034	3.8	116		1245	0.4	12
	0209	0.9	27		0056	1.5	46		0402	1.5	46		1632	0.7	21		0245	1.7	52		1927	3.6	110
	0843	4.4	134		0737	3.6	110		1003	4.0	122		0737	3.6	110		0828	3.6	110		0657	3.7	113
15 Th	1455	1.3	40	30 F	1338	1.8	55	15 Su	1632	0.7	21	30 Su	1504	0.6	18	15 Su	1504	0.6	18	30 M	1344	0.3	9
	2054	4.3	131		1951	3.7	113		2253	3.8	116		2036	0.9	27		2136	3.7	113		2031	3.7	113
	0142	1.6	49		0142	1.6	49		0819	3.7	113		0206	1.8	55		0803	3.7	113		0206	1.8	55
	0819	3.7	113		1433	1.5	46		2048	3.6	110		1444	0.2	6		2133	3.8	116		1444	0.2	6

</

Isla Zapara (Malecon), Venezuela, 2009

Times and Heights of High and Low Waters

April				May				June																	
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height												
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm											
1 W	0315	1.8	55			16 Th	0459	1.9	58	1 F	0417	1.5	46	16 Sa	0454	2.1	64	1 M	0610	0.8	24	16 Tu	0518	1.6	49
	0909	3.8	116				1012	3.4	104		1002	4.0	122		1009	3.5	107		1209	4.0	122		1109	3.5	107
	1543	0.2	6				1636	0.9	27		1622	0.3	9		1608	1.2	37		1801	1.2	37		1631	1.6	49
	2231	3.9	119				2313	3.8	116		2310	4.4	134		2302	4.1	125						2319	4.4	134
2 Th	0420	1.6	49			17 F	0534	1.8	55	2 Sa	0519	1.3	40	17 Su	0525	1.9	58	2 Tu	0029	4.8	146	17 W	0556	1.2	37
	1014	3.9	119				1055	3.5	107		1108	4.1	125		1055	3.5	107		0705	0.5	15		1201	3.5	107
	1641	0.2	6				1709	1.0	30		1720	0.5	15		1641	1.3	40		1314	4.0	122		1716	1.7	52
	2325	4.1	125				2345	3.9	119		2332	4.1	125		2332	4.1	125		1857	1.4	43		2352	4.5	137
3 F	0521	1.4	43			18 Sa	0604	1.7	52	3 Su	0000	4.5	137	18 M	0555	1.6	49	3 W	0114	4.7	143	18 Th	0638	0.8	24
	1116	4.1	125				1137	3.6	110		0618	1.0	30		1142	3.6	110		0757	0.3	9		1253	3.6	110
	1737	0.2	6				1740	1.1	34		1212	4.1	125		1717	1.4	43		1416	3.9	119		1804	1.7	52
							1815	0.7	21		1815	0.7	21						1953	1.7	52				
4 Sa	0015	4.2	128			19 Su	0016	3.9	119	4 M	0047	4.6	140	19 Tu	0002	4.2	128	4 Th	0158	4.6	140	19 F	0030	4.6	140
	0619	1.2	37				0632	1.6	49		0713	0.7	21		0629	1.3	40		0847	0.2	6		0722	0.4	12
	1215	4.2	128				1219	3.7	113		1314	4.1	125		1229	3.6	110		1515	3.9	119		1345	3.7	113
	1832	0.3	9				1812	1.1	34		1910	1.0	30		1756	1.4	43		2049	2.0	61		1855	1.8	55
5 Su	0104	4.3	131			20 M	0046	4.0	122	5 Tu	0133	4.6	140	20 W	0032	4.3	131	5 F	0240	4.4	134	20 Sa	0113	4.8	146
	0715	1.0	30				0703	1.4	43		0807	0.5	15		0706	0.9	27		0934	0.2	6		0810	0.1	3
	1314	4.2	128				1301	3.7	113		1415	4.0	122		1317	3.7	113		1610	3.8	116		1439	3.8	116
	1925	0.5	15				1845	1.2	37		2005	1.3	40		1838	1.5	46		2143	2.2	67		1950	1.9	58
6 M	0151	4.3	131			21 Tu	0117	4.1	125	6 W	0217	4.5	137	21 Th	0105	4.4	134	6 Sa	0321	4.2	128	21 Su	0202	4.9	149
	0810	0.8	24				0737	1.1	34		0859	0.3	9		0747	0.6	18		1020	0.2	6		0900	-0.2	-6
	1412	4.2	128				1345	3.8	116		1515	3.9	119		1407	3.7	113		1703	3.7	113		1534	4.0	122
	2019	0.8	24				1922	1.3	40		2101	1.6	49		1924	1.6	49		2237	2.3	70		2049	1.9	58
7 Tu	0237	4.3	131			22 W	0149	4.1	125	7 Th	0301	4.3	131	22 F	0143	4.5	137	7 Su	0402	4.1	125	22 M	0254	4.9	149
	0904	0.6	18				0815	0.8	24		0949	0.2	6		0832	0.2	6		1103	0.4	12		0952	-0.3	-9
	1511	4.1	125				1432	3.8	116		1615	3.8	116		1500	3.8	116		1752	3.7	113		1632	4.1	125
	2114	1.1	34				2002	1.4	43		2158	1.8	55		2014	1.7	52		2330	2.4	73		2153	2.0	61
8 W	0324	4.2	128			23 Th	0223	4.1	125	8 F	0346	4.1	125	23 Sa	0225	4.5	137	8 M	0444	3.9	119	23 Tu	0352	4.9	149
	0959	0.5	15				0857	0.6	18		1039	0.2	6		0921	0.0	0		1144	0.5	15		1047	-0.3	-9
	1612	4.0	122				1521	3.8	116		1714	3.8	116		1555	3.8	116		1838	3.7	113		1732	4.2	128
	2211	1.4	43				2047	1.5	46		2258	2.1	64		2109	1.8	55						2302	2.0	61
9 Th	0412	4.1	125			24 F	0300	4.1	125	9 Sa	0431	3.9	119	24 Su	0314	4.5	137	9 Tu	0023	2.5	76	24 W	0454	4.8	146
	1054	0.4	12				0943	0.3	9		1128	0.3	9		1012	-0.2	-6		0526	3.8	116		1144	-0.2	-6
	1714	3.9	119				1614	3.8	116		1812	3.7	113		1653	3.9	119		1223	0.7	21		1833	4.4	134
	2312	1.6	49				2137	1.7	52		2359	2.2	67		2210	1.9	58		1921	3.8	116				
10 F	0502	3.9	119			25 Sa	0342	4.1	125	10 Su	0518	3.7	113	25 M	0408	4.5	137	10 W	0115	2.6	79	25 Th	0015	2.0	61
	1148	0.4	12				1033	0.2	6		1216	0.4	12		1107	-0.2	-6		0611	3.7	113		0600	4.6	140
	1818	3.8	116				1711	3.8	116		1907	3.7	113		1754	4.0	122		1258	0.9	27		1242	0.1	3
							2232	1.8	55						2317	2.0	61		2001	3.8	116		1934	4.6	140
11 Sa	0016	1.8	55			26 Su	0432	4.0	122	11 M	0101	2.3	70	26 Tu	0509	4.4	134	11 Th	0205	2.6	79	26 F	0130	1.8	55
	0554	3.7	113				1127	0.0	0		0607	3.6	110		1204	-0.2	-6		0657	3.6	110		0711	4.4	134
	1243	0.4	12				1811	3.8	116		1302	0.5	15		1856	4.1	125		1332	1.0	30		1342	0.3	9
	1921	3.7	113				2335	1.9	58		1958	3.7	113						2038	3.9	119		2035	4.7	143
12 Su	0124	1.9	58			27 M	0529	4.0	122	12 Tu	0200	2.3	70	27 W	0030	2.0	61	12 F	0251	2.5	76	27 Sa	0243	1.6	49
	0648	3.5	107				1224	0.0	0		0656	3.5	107		0615	4.3	131		0744	3.5	107		0825	4.3	131
	1336	0.5	15				1914	3.9	119		1346	0.7	21		1303	-0.1	-3		1404	1.2	37		1444	0.6	18
	2021	3.7	113								2043	3.7	113		1959	4.3	131		2114	4.0	122		2133	4.8	146
13 M	0229	2.0	61			28 Tu	0045	1.9	58	13 W	0254	2.3	70	28 Th	0145	1.9	58	13 Sa	0332	2.4	73	28 Su	0353	1.3	40
	0743	3.4	104				0634	4.0	122		0746	3.4	104		0726	4.2	128		0834	3.5	107		0940	4.1	125
	1428	0.6	18				1324	0.0	0		1426	0.8	24		1403	0.1	3		1437	1.3	40		1546	1.0	30
	2114	3.6	110				2018	4.0	122		2122	3.8	116		2100	4.5	137		2147	4.1	125		2228	4.9	149
14 Tu	0327	2.0	61			29 W	0158	1.9	58	14 Th	0341	2.3	70	29 F	0259	1.7	52	14 Su	0408	2.2	67	29 M	0457	0.9	27
	0837	3.4	104				0743	3.9	119		0834	3.4	104		0838	4.2	128		0925	3.4	104		1054	4.0	122
	1515	0.7	21				1424	0.0	0		1502	1.0	30		1504	0.3	9		1512	1.4	43		1648	1.3	40
	2159	3.7	113				2119	4.1	125		2158	3.9	119		2157	4.6	140		2218	4.2	128		2320	4.9	149
15 W	0417	1.9	58			30 Th	0310	1.8	55	15 F	0421	2.2	67	30 Sa	0407	1.4	43	15 M	0442	1.9	58	30 Tu	0556	0.6	18
	0926	3.4	104				0853	4.0	122																

Isla Zapara (Malecon), Venezuela, 2009

Times and Heights of High and Low Waters

July				August				September																					
Time		Height		Time		Height		Time		Height		Time		Height															
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm															
1 W	0008	4.9	149		16 Th	0526	1.0	30		1 Sa	0111	4.6	140		16 Su	0639	0.2	6		1 Tu	0153	4.5	137		16 W	0129	4.9	149	
	0651	0.4	12			1139	3.5	107			0802	0.4	12			1308	3.9	119			0833	0.9	27			0802	0.4	12	
	1309	3.9	119			1648	1.9	58			1433	3.8	116			1830	1.9	58			1458	3.9	119			1431	4.5	137	
	1846	1.7	52			2321	4.6	140			2007	2.1	64			2045	2.2	67			2045	2.2	67			2028	1.5	46	
2 Th	0054	4.8	146		17 F	0612	0.6	18		2 Su	0149	4.5	137		17 M	0042	5.0	152		2 W	0229	4.4	134		17 Th	0227	4.9	149	
	0741	0.2	6			1233	3.6	110			0842	0.5	15			0729	0.1	3			0902	1.0	30			0854	0.6	18	
	1408	3.9	119			1741	1.9	58			1513	3.8	116			1400	4.1	125			1531	4.0	122			1521	4.6	140	
	1941	1.9	58			2321	4.6	140			2048	2.2	67			1929	1.8	55			2118	2.2	67			2129	1.3	40	
3 F	0136	4.7	143		18 Sa	0006	4.8	146		3 M	0226	4.5	137		18 Tu	0135	5.1	155		3 Th	0307	4.3	131		18 F	0327	4.7	143	
	0828	0.2	6			0700	0.3	9			0918	0.6	18			0820	0.0	0			0930	1.2	37			0948	0.8	24	
	1502	3.8	116			1326	3.8	116			1549	3.8	116			1451	4.3	131			1606	4.0	122			1613	4.6	140	
	2032	2.1	64			1837	1.9	58			2126	2.3	70			2030	1.7	52			2154	2.1	64			2231	1.2	37	
4 Sa	0217	4.5	137		19 Su	0054	4.9	149		4 Tu	0302	4.4	134		19 W	0232	5.1	155		4 F	0347	4.2	128		19 Sa	0430	4.5	137	
	0912	0.3	9			0749	0.0	0			0950	0.8	24			0913	0.1	3			0959	1.3	40			1045	1.1	34	
	1550	3.8	116			1419	3.9	119			1624	3.8	116			1545	4.4	134			1641	4.0	122			1708	4.6	140	
	2120	2.3	70			1936	1.9	58			2202	2.4	73			2134	1.6	49			2234	2.1	64			2335	1.0	30	
5 Su	0255	4.4	134		20 M	0146	5.1	155		5 W	0338	4.3	131		20 Th	0330	5.0	152		5 Sa	0431	4.0	122		20 Su	0537	4.3	131	
	0953	0.4	12			0840	-0.2	-6			1020	0.9	27			1006	0.3	9			1032	1.5	46			1146	1.4	43	
	1634	3.8	116			1513	4.1	125			1700	3.9	119			1639	4.5	137			1718	4.0	122			1805	4.5	137	
	2205	2.4	73			2037	1.9	58			2239	2.5	76			2239	1.5	46			2319	1.9	58						
6 M	0333	4.3	131		21 Tu	0241	5.1	155		6 Th	0417	4.2	128		21 F	0433	4.8	146		6 Su	0519	3.8	116		21 M	0040	0.9	27	
	1031	0.5	15			0932	-0.2	-6			1049	1.1	34			1102	0.6	18			1109	1.6	49			0649	4.1	125	
	1714	3.8	116			1609	4.3	131			1737	3.9	119			1736	4.6	140			1756	4.0	122			1252	1.7	52	
	2249	2.5	76			2141	1.9	58			2319	2.5	76			2348	1.4	43								1904	4.4	134	
7 Tu	0411	4.1	125		22 W	0339	5.0	152		7 F	0458	4.0	122		22 Sa	0540	4.5	137		7 M	0007	1.8	55		22 Tu	0144	0.8	24	
	1105	0.7	21			1027	-0.1	-3			1118	1.3	40			1202	0.9	27			0611	3.7	113			0802	3.9	119	
	1753	3.8	116			1706	4.4	134			1815	3.9	119			1835	4.6	140			1150	1.8	55			1400	1.9	58	
	2332	2.6	79			2249	1.8	55													1836	4.0	122			2003	4.3	131	
8 W	0450	4.0	122		23 Th	0441	4.9	149		8 Sa	0003	2.4	73		23 Su	0057	1.2	37		8 Tu	0059	1.6	49		23 W	0246	0.8	24	
	1138	0.9	27			1123	0.1	3			0543	3.8	116			0652	4.3	131			0709	3.6	110			0913	3.9	119	
	1832	3.8	116			1805	4.5	137			1151	1.4	43			1305	1.2	37			1237	1.9	58			1506	2.0	61	
											1853	4.0	122			1936	4.6	140			1919	4.0	122			2100	4.3	131	
9 Th	0016	2.7	82		24 F	0001	1.7	52		9 Su	0051	2.3	70		24 M	0206	1.0	30		9 W	0154	1.4	43		24 Th	0344	0.7	21	
	0531	3.9	119			0548	4.7	143			0632	3.7	113			0808	4.1	125			0811	3.5	107			1016	3.9	119	
	1208	1.1	34			1221	0.4	12			1226	1.6	49			1412	1.5	46			1330	2.0	61			1607	2.0	61	
	1910	3.9	119			1906	4.7	143			1931	4.0	122			2036	4.6	140			2007	4.1	125			2153	4.3	131	
10 F	0102	2.6	79		25 Sa	0114	1.6	49		10 M	0140	2.1	64		25 Tu	0312	0.8	24		10 Th	0249	1.1	34		25 F	0437	0.7	21	
	0615	3.8	116			0659	4.4	134			0727	3.5	107			0924	3.9	119			0914	3.5	107			1110	3.9	119	
	1239	1.2	37			1322	0.7	21			1307	1.7	52			1519	1.7	52			1429	2.1	64			1659	2.0	61	
	1948	4.0	122			2006	4.7	143			2008	4.0	122			2133	4.6	140			2058	4.2	128			2240	4.3	131	
11 Sa	0148	2.5	76		26 Su	0226	1.3	40		11 Tu	0231	1.8	55		26 W	0413	0.7	21		11 F	0343	0.9	27		26 Sa	0524	0.8	24	
	0702	3.6	110			0815	4.2	128			0826	3.4	104			1035	3.9	119			1014	3.6	110			1154	3.9	119	
	1311	1.4	43			1426	1.1	34			1352	1.8	55			1623	1.8	55			1530	2.1	64			1745	2.1	64	
	2025	4.0	122			2105	4.8	146			2047	4.1	125			2227	4.5	137			2151	4.4	134			2323	4.3	131	
12 Su	0234	2.4	73		27 M	0334	1.0	30		12 W	0321	1.5	46		27 Th	0509	0.5	15		12 Sa	0436	0.6	18		27 Su	0605	0.9	27	
	0754	3.5	107			0932	4.0	122			0927	3.4	104			1137	3.9	119			1110	3.7	113			1232	3.9	119	
	1347	1.5	46			1531	1.3	40			1442	1.9	58			1721	1.9	58			1631	2.0	61			1825	2.1	64	
	2059	4.1	125			2202	4.8	146			2128	4.2	128			2316	4.5	137			2245	4.6	140						
13 M	0317	2.1	64		28 Tu	0438	0.7	21		13 Th	0410	1.1	34		28 F	0600	0.5	15		13 Su	0528	0.5	15		28 M	0002	4.4	134	
	0850	3.4	104			1047	3.9	119			1026	3.4	104			1230	3.9	119			1202	3.9	119			0641	1.0	30	
	1426	1.6	49			1636	1.6	49			1537	2.0	61			1812	1.9	58			1731	1.9	58			1305	4.0	122	
	2132	4.1	125			2255	4.8	146			2212	4.4	134								2339	4.8	146			1900	2.1	64	
14 Tu	0359	1.8	55		29 W	0536	0.5	15																					

Isla Zapara (Malecon), Venezuela, 2009

Times and Heights of High and Low Waters

October				November				December															
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height										
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm									
1 Th	0157	4.3	131	16 F	0228	4.6	140	1 Su	0256	4.1	125	16 M	0434	4.1	125	1 Tu	0322	4.0	122	16 W	0517	3.8	116
	0809	1.3	40		0839	1.1	34		0831	1.7	52		1023	2.0	61		0846	1.9	58		1102	2.2	67
	1440	4.2	128		1500	4.7	143		1459	4.4	134		1620	4.5	137		1505	4.7	143		1642	4.3	131
	2039	1.9	58		2125	1.0	30		2128	1.1	34		2307	0.7	21		2149	0.5	15		2333	0.8	24
2 F	0238	4.2	128	17 Sa	0329	4.4	134	2 M	0346	4.0	122	17 Tu	0534	4.0	122	2 W	0416	4.0	122	17 Th	0607	3.8	116
	0839	1.4	43		0934	1.4	43		0915	1.8	55		1122	2.2	67		0939	1.9	58		1152	2.3	70
	1513	4.2	128		1550	4.6	140		1539	4.4	134		1709	4.3	131		1555	4.7	143		1726	4.2	128
	2117	1.7	52		2224	0.9	27		2215	0.9	27		1709	4.3	131		2242	0.4	12		1726	4.2	128
3 Sa	0321	4.1	125	18 Su	0432	4.2	128	3 Tu	0439	3.9	119	18 W	0000	0.7	21	3 Th	0513	4.0	122	18 F	0018	1.0	30
	0913	1.5	46		1032	1.7	52		1003	1.9	58		0634	3.9	119		1038	2.0	61		0654	3.7	113
	1547	4.2	128		1642	4.5	137		1623	4.4	134		1221	2.3	70		1650	4.8	146		1242	2.4	73
	2158	1.6	49		2322	0.8	24		2307	0.8	24		1759	4.2	128		2338	0.4	12		1810	4.1	125
4 Su	0408	4.0	122	19 M	0538	4.1	125	4 W	0536	3.9	119	19 Th	0052	0.9	27	4 F	0613	4.1	125	19 Sa	0100	1.2	37
	0950	1.7	52		1134	1.9	58		1058	2.1	64		0731	3.8	116		1142	2.1	64		0739	3.7	113
	1624	4.2	128		1736	4.4	134		1714	4.4	134		1319	2.4	73		1750	4.8	146		1331	2.5	76
	2244	1.4	43		1832	4.3	131		1811	4.5	137		1849	4.1	125		1854	4.0	122		1854	4.0	122
5 M	0459	3.9	119	20 Tu	0021	0.8	24	5 Th	0002	0.7	21	20 F	0141	1.0	30	5 Sa	0035	0.4	12	20 Su	0140	1.3	40
	1033	1.8	55		0645	4.0	122		0637	3.9	119		0823	3.8	116		0715	4.2	128		0820	3.8	116
	1704	4.1	125		1239	2.1	64		1158	2.2	67		1415	2.4	73		1252	2.1	64		1418	2.5	76
	2334	1.2	37		1832	4.3	131		1811	4.5	137		1938	4.1	125		1854	4.7	143		1940	4.0	122
6 Tu	0554	3.8	116	21 W	0120	0.8	24	6 F	0059	0.6	18	21 Sa	0228	1.1	34	6 Su	0134	0.5	15	21 M	0216	1.5	46
	1121	2.0	61		0752	3.9	119		0740	3.9	119		0910	3.9	119		0818	4.3	131		0859	3.8	116
	1748	4.1	125		1344	2.2	67		1305	2.2	67		1506	2.5	76		1404	2.0	61		1502	2.5	76
					1928	4.2	128		1912	4.5	137		2025	4.1	125		2001	4.7	143		2027	3.9	119
7 W	0028	1.1	34	22 Th	0216	0.8	24	7 Sa	0157	0.6	18	22 Su	0310	1.3	40	7 M	0234	0.6	18	22 Tu	0249	1.6	49
	0655	3.7	113		0854	3.9	119		0842	4.1	125		0950	3.9	119		0919	4.5	137		0936	3.9	119
	1216	2.1	64		1446	2.2	67		1415	2.2	67		1551	2.4	73		1515	1.8	55		1542	2.3	70
	1839	4.2	128		2021	4.2	128		2017	4.6	140		2111	4.0	122		2110	4.6	140		2115	3.8	116
8 Th	0124	0.9	27	23 F	0309	0.9	27	8 Su	0256	0.6	18	23 M	0347	1.4	43	8 Tu	0334	0.8	24	23 W	0322	1.7	52
	0758	3.7	113		0948	3.9	119		0942	4.2	128		1026	4.0	122		1016	4.6	140		1010	4.0	122
	1317	2.2	67		1541	2.3	70		1524	2.1	64		1631	2.4	73		1623	1.5	46		1619	2.1	64
	1936	4.2	128		2111	4.1	125		2121	4.6	140		2156	4.0	122		2219	4.5	137		2204	3.8	116
9 F	0222	0.8	24	24 Sa	0357	1.0	30	9 M	0353	0.6	18	24 Tu	0420	1.5	46	9 W	0434	1.0	30	24 Th	0356	1.7	52
	0901	3.8	116		1034	3.9	119		1038	4.4	134		1058	4.1	125		1111	4.7	143		1043	4.0	122
	1422	2.2	67		1630	2.3	70		1630	1.9	58		1707	2.2	67		1726	1.2	37		1656	1.9	58
	2035	4.4	134		2157	4.2	128		2225	4.6	140		2240	4.0	122		2327	4.4	134		2252	3.8	116
10 Sa	0319	0.7	21	25 Su	0439	1.1	34	10 Tu	0450	0.7	21	25 W	0450	1.6	49	10 Th	0533	1.2	37	25 F	0433	1.8	55
	1000	3.9	119		1112	4.0	122		1130	4.6	140		1130	4.2	128		1203	4.8	146		1116	4.1	125
	1528	2.1	64		1712	2.2	67		1732	1.6	49		1740	2.1	64		1826	0.9	27		1735	1.5	46
	2135	4.5	137		2240	4.2	128		2328	4.6	140		2325	4.0	122		2325	4.0	122		2340	3.8	116
11 Su	0414	0.6	18	26 M	0516	1.2	37	11 W	0545	0.9	27	26 Th	0521	1.6	49	11 F	0032	4.4	134	26 Sa	0513	1.8	55
	1056	4.1	125		1146	4.0	122		1220	4.7	143		1201	4.2	128		0631	1.4	43		1150	4.2	128
	1632	2.0	61		1749	2.2	67		1832	1.3	40		1814	1.8	55		1252	4.8	146		1815	1.2	37
	2234	4.6	140		2321	4.2	128		2321	4.6	140		2156	4.0	122		1922	0.7	21		1815	1.2	37
12 M	0508	0.5	15	27 Tu	0548	1.3	40	12 Th	0030	4.6	140	27 F	0010	4.0	122	12 Sa	0135	4.3	131	27 Su	0028	3.8	116
	1147	4.3	131		1217	4.1	125		0640	1.1	34		0555	1.7	52		0728	1.6	49		0556	1.8	55
	1733	1.8	55		1822	2.1	64		1308	4.8	146		1232	4.3	131		1341	4.7	143		1227	4.4	134
	2332	4.7	143		1822	2.1	64		1929	1.1	34		1850	1.5	46		2016	0.6	18		1859	0.9	27
13 Tu	0601	0.6	18	28 W	0002	4.2	128	13 F	0131	4.5	137	28 Sa	0056	4.0	122	13 Su	0234	4.2	128	28 M	0117	3.9	119
	1236	4.4	134		0616	1.4	43		0734	1.3	40		0632	1.7	52		0824	1.8	55		0642	1.7	52
	1832	1.6	49		1248	4.2	128		1355	4.8	146		1306	4.4	134		1427	4.7	143		1307	4.5	137
					1854	2.0	61		2025	0.9	27		1930	1.2	37		2108	0.5	15		1945	0.6	18
14 W	0030	4.8	146	29 Th	0043	4.2	128	14 Sa	0232	4.3	131	29 Su	0143	4.0	122	14 M	0331	4.1	125	29 Tu	0206	3.9	119
	0653	0.7	21		0645	1.5	46		0830	1.6	49		0713	1.7	52		0918	1.9	58		0732	1.7	52
	1324	4.6	140		1319	4.3	131		1443	4.7	143		1341	4.5	137		1513	4.6	140		1352	4.7	143
	1930	1.4	43		1927	1.8	55		2119	0.7	21		2013	0.9	27		2158	0.5	15		2034	0.4	12
15 Th	0128	4.7	143	30 F	0125	4.2	128	15 Su	0333	4.2	128	30 M	0231	4.0	122	15 Tu	0426	3.9	119	30 W	0257	4.0	122
	0746	0.9	27		0717	1.5	46		0926	1.8	55		0757	1.8	55		1010	2.1	64		0824	1.7	52
	1412	4.7	143		1350	4.3	131		1531	4.6	140		1421	4.6	140		1558	4.4	134		1441	4.9	149
	2028	1.2	37		2003	1.5	46		2213	0.6	18		2100	0.7	21		2246	0.7	21		2125	0.2	

Amuay, Venezuela (on 67.5 W), 2009

Times and Heights of High and Low Waters

January				February				March																					
Time	Height			Time	Height			Time	Height			Time	Height																
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm		h	m	ft	cm										
1 Th	0057	-0.2	-6		16 F	0143	-0.2	-6		1 Su	0120	0.1	3		16 M	0239	0.3	9		1 Su	0001	0.3	9		16 M	0113	0.5	15	
	0940	0.8	24			0913	1.0	30			0750	0.8	24			0948	0.9	27			0535	0.8	24			0740	0.8	24	
	1319	0.6	18			1523	0.0	0			1519	-0.2	-6			1703	-0.4	-12			1345	-0.3	-9			1511	-0.3	-9	
	1650	0.7	21			2146	0.5	15			2259	0.3	9			○					2203	0.4	12			2312	0.7	21	
2 F	0130	-0.1	-3		17 Sa	0228	0.0	0		2 M	0203	0.2	6		17 Tu	0022	0.5	15		2 M	0048	0.3	9		17 Tu	0211	0.6	18	
	0942	0.8	24			0954	1.0	30			0829	0.9	27			0329	0.4	12			0630	0.9	27			0843	0.8	24	
	1439	0.4	12			1641	-0.2	-6			1621	-0.4	-12			1034	0.9	27			1450	-0.4	-12			1607	-0.3	-9	
	1809	0.6	18			2314	0.5	15			○					1753	-0.4	-12			2309	0.5	15						
3 Sa	0204	0.0	0		18 Su	0311	0.2	6		3 Tu	0012	0.4	12		18 W	0115	0.5	15		3 Tu	0146	0.4	12		18 W	0000	0.7	21	
	0939	0.9	27			1034	1.1	34			0253	0.3	9			0416	0.4	12			0737	1.0	30			0310	0.5	15	
	1548	0.2	6			1744	-0.3	-9			0920	1.1	34			1116	0.9	27			1552	-0.5	-15			0941	0.8	24	
	2153	0.4	12			○					1717	-0.6	-18			1836	-0.5	-15			2359	0.5	15			1654	-0.3	-9	
4 Su	0240	0.2	6		19 M	0032	0.5	15		4 W	0107	0.4	12		19 Th	0202	0.5	15		4 W	0249	0.4	12		19 Th	0040	0.7	21	
	0943	1.0	30			0354	0.3	9			0349	0.3	9			0501	0.4	12			0851	1.1	34			0404	0.5	15	
	1648	0.0	0			1112	1.1	34			1016	1.2	37			1154	0.9	27			1650	-0.6	-18			1032	0.9	27	
	2354	0.4	12			1836	-0.4	-12			1811	-0.7	-21			1913	-0.5	-15			○					1735	-0.3	-9	
5 M	0320	0.3	9		20 Tu	0140	0.5	15		5 Th	0154	0.4	12		20 F	0244	0.5	15		5 Th	0041	0.6	18		20 F	0116	0.7	21	
	1005	1.2	37			0434	0.4	12			0447	0.3	9			0543	0.4	12			0353	0.4	12			0452	0.5	15	
	1742	-0.3	-9			1149	1.1	34			1112	1.3	40			1227	0.9	27			1003	1.1	34			1117	0.9	27	
						1921	-0.5	-15			1901	-0.8	-24			1947	-0.5	-15			1743	-0.7	-21			1812	-0.3	-9	
6 Tu	0112	0.4	12		21 W	0240	0.5	15		6 F	0237	0.5	15		21 Sa	0323	0.5	15		6 F	0119	0.6	18		21 Sa	0148	0.7	21	
	0404	0.3	9			0513	0.4	12			0545	0.3	9			0625	0.3	9			0455	0.3	9			0538	0.4	12	
	1041	1.3	40			1222	1.1	34			1209	1.3	40			1256	0.9	27			1110	1.2	37			1159	0.9	27	
	1833	-0.5	-15			2000	-0.5	-15			1950	-0.9	-27			2018	-0.4	-12			1833	-0.7	-21			1846	-0.2	-6	
7 W	0216	0.5	15		22 Th	0335	0.5	15		7 Sa	0319	0.5	15		22 Su	0359	0.5	15		7 Sa	0155	0.6	18		22 Su	0216	0.7	21	
	0453	0.4	12			0549	0.4	12			0645	0.3	9			0707	0.3	9			0556	0.2	6			0623	0.3	9	
	1125	1.4	43			1249	1.1	34			1305	1.3	40			1322	0.9	27			1213	1.2	37			1240	0.8	24	
	1923	-0.7	-21			2036	-0.5	-15			2037	-0.8	-24			2049	-0.4	-12			1920	-0.6	-18			1918	-0.2	-6	
8 Th	0311	0.5	15		23 F	1310	1.1	34		8 Su	0359	0.5	15		23 M	0430	0.5	15		8 Su	0231	0.7	21		23 M	0239	0.7	21	
	0545	0.4	12			2109	-0.5	-15			0746	0.2	6			0752	0.3	9			0655	0.2	6			0708	0.3	9	
	1213	1.5	46			○					1402	1.2	37			1349	0.8	24			1316	1.1	34			1324	0.8	24	
	2013	-0.8	-24								2123	-0.8	-24			2118	-0.3	-9			2004	-0.5	-15			1949	-0.1	-3	
9 F	0401	0.6	18		24 Sa	1324	1.0	30		9 M	0440	0.6	18		24 Tu	0455	0.5	15		9 M	0306	0.7	21		24 Tu	0254	0.7	21	
	0641	0.5	15			2139	-0.5	-15			0848	0.2	6			0840	0.2	6			0755	0.1	3			0754	0.2	6	
	1304	1.5	46			○					1502	1.1	34			1423	0.8	24			1420	1.0	30			1416	0.8	24	
	2102	-0.9	-27								2207	-0.6	-18			2148	-0.2	-6			2047	-0.4	-12			2020	0.0	0	
10 Sa	0450	0.6	18		25 Su	1340	1.0	30		10 Tu	0521	0.6	18		25 W	0509	0.5	15		10 Tu	0341	0.8	24		25 W	0254	0.7	21	
	0741	0.5	15			2209	-0.5	-15			0954	0.1	3			0933	0.2	6			0854	0.0	0			0842	0.0	0	
	1356	1.5	46			○					1608	0.9	27			1509	0.7	21			1529	0.9	27			1519	0.7	21	
	2151	-0.9	-27								2251	-0.5	-15			2217	-0.1	-3			2128	-0.2	-6			2051	0.2	6	
11 Su	0536	0.7	21		26 M	1404	0.9	27		11 W	0603	0.7	21		26 Th	0502	0.5	15		11 W	0415	0.8	24		26 Th	0244	0.8	24	
	0846	0.5	15			2239	-0.4	-12			1104	0.0	0			1030	0.1	3			0955	-0.1	-3			0931	-0.1	-3	
	1451	1.4	43			●					1727	0.7	21			1614	0.5	15			1646	0.8	24			1639	0.6	18	
	2239	-0.8	-24								2334	-0.3	-9			2248	0.0	0			2208	0.0	0			2123	0.3	9	
12 M	0622	0.7	21		27 Tu	0715	0.5	15		12 Th	0645	0.7	21		27 F	0442	0.6	18		12 Th	0449	0.8	24		27 F	0249	0.9	27	
	0955	0.4	12			0923	0.4	12			1217	0.0	0			1132	0.0	0			1057	-0.2	-6			1024	-0.2	-6	
	1550	1.2	37			1436	0.9	27			1900	0.6	18			1822	0.4	12			1810	0.7	21			1812	0.6	18	
	2327	-0.7	-21			2308	-0.3	-9								2322	0.2	6			2249	0.2	6			2157	0.4	12	
13 Tu	0706	0.8	24		28 W	0736	0.5	15		13 F	0018	-0.1	-3		28 Sa	0457	0.7	21		13 F	0524	0.8	24		28 Sa	0314	1.0	30	
	1110	0.4	12			1030	0.4	12			0729	0.8	24			1238	-0.2	-6			12								

Punta Gorda, Venezuela, 2009

Times and Heights of High and Low Waters

January			February			March																							
Time	Height		Time	Height		Time	Height		Time	Height																			
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm															
1 Th	0146	0.0	0	16 F	0240	-0.5	-15	1 Su	0226	0.3	9	16 M	0337	0.7	21	1 Su	0123	-0.1	-3	16 M	0212	0.5	15						
	0725	5.9	180		0830	6.1	186		0814	6.0	183		0910	5.4	165		0705	6.4	195		0746	5.9	180						
	1356	0.8	24		1509	-0.1	-3		1459	0.1	3		1618	0.2	6		1349	-0.6	-18		1445	-0.3	-9	1939	5.7	174	2021	5.1	155
	1934	6.1	186		2046	5.7	174		2046	5.3	162		2148	4.5	137		2028	5.3	162		2028	5.3	162	2107	4.6	140			
2 F	0222	0.3	9	17 Sa	0328	0.1	3	2 M	0313	0.7	21	17 Tu	0435	1.2	37	2 M	0201	0.3	9	17 Tu	0257	1.0	30						
	0804	5.9	180		0915	5.8	177		0902	5.8	177		1002	5.0	152		0747	6.2	189		0826	5.5	168						
	1439	0.9	27		1603	0.1	3		1605	0.3	9		1722	0.5	15		1438	-0.3	-9		1537	0.2	6	2028	5.3	162			
	2019	5.8	177		2138	5.1	155		2146	4.9	149		2253	4.1	125		2028	5.3	162		2107	4.6	140						
3 Sa	0303	0.6	18	18 Su	0421	0.7	21	3 Tu	0422	1.1	34	18 W	0543	1.5	46	3 Tu	0252	0.8	24	18 W	0352	1.4	43						
	0848	5.9	180		1004	5.5	168		1001	5.6	171		1109	4.7	143		0836	5.9	180		0914	5.1	155						
	1535	0.9	27		1703	0.4	12		1725	0.3	9		1830	0.5	15		1543	0.0	0		1639	0.6	18	2129	4.8	146			
	2112	5.4	165		2238	4.6	140		2303	4.5	137		2303	4.5	137		2129	4.8	146		2206	4.3	131						
4 Su	0355	0.9	27	19 M	0521	1.1	34	4 W	0547	1.3	40	19 Th	0615	3.9	119	4 W	0405	1.2	37	19 Th	0502	1.7	52						
	0939	5.8	177		1101	5.2	158		1114	5.4	165		0652	1.5	46		0936	5.5	168		1018	4.7	143						
	1643	0.9	27		1806	0.4	12		1845	0.1	3		1229	4.6	140		1704	0.2	6		1748	0.7	21						
	2216	5.1	155		2349	4.3	131		1955	-0.3	-9		1934	0.4	12		2248	4.5	137		2322	4.1	125						
5 M	0502	1.2	37	20 Tu	0624	1.3	40	5 Th	0035	4.5	137	20 F	0136	4.1	125	5 Th	0533	1.4	43	20 F	0615	1.6	49						
	1038	5.7	174		1207	5.1	155		0707	1.2	37		0755	1.2	37		1054	5.2	158		1139	4.5	137						
	1758	0.7	21		1909	0.4	12		1238	5.4	165		1343	4.8	146		1825	0.1	3		1854	0.7	21						
	2332	4.9	149		2007	0.2	6		2056	-0.9	-27		2031	0.1	3		1825	0.1	3		1854	0.7	21						
6 Tu	0616	1.3	40	21 W	0106	4.3	131	6 F	0200	4.8	146	21 Sa	0237	4.4	134	6 F	0024	4.5	137	21 Sa	0044	4.2	128						
	1147	5.7	174		0727	1.3	40		0816	0.8	24		0849	0.9	27		0654	1.1	34		0722	1.4	43						
	1909	0.3	9		1315	5.1	155		1357	5.7	174		1440	5.1	155		1226	5.2	158		1300	4.7	143						
					2007	0.2	6		2056	-0.9	-27		2119	-0.2	-6		1937	-0.3	-9		1953	0.4	12						
7 W	0055	4.9	149	22 Th	0215	4.4	134	7 Sa	0306	5.3	162	22 Su	0321	4.8	146	7 Sa	0148	4.9	149	22 Su	0150	4.5	137						
	0727	1.2	37		0824	1.1	34		0915	0.2	6		0935	0.5	15		0803	0.6	18		0817	0.9	27						
	1259	5.9	180		1415	5.3	162		1503	6.2	189		1525	5.5	168		1349	5.5	168		1404	5.0	152						
	2014	-0.2	-6		2100	-0.1	-3		2150	-1.4	-43		2201	-0.5	-15		2038	-0.7	-21		2043	0.1	3						
8 Th	0211	5.2	158	23 F	0309	4.7	143	8 Su	0359	5.8	177	23 M	0357	5.2	158	8 Su	0251	5.5	168	23 M	0238	5.0	152						
	0830	0.9	27		0914	0.9	27		1007	-0.4	-12		1016	0.1	3		0900	-0.1	-3		0905	0.4	12						
	1408	6.2	189		1505	5.5	168		1558	6.6	201		1604	5.8	177		1455	6.0	183		1455	5.4	165						
	2112	-0.8	-24		2146	-0.4	-12		2238	-1.7	-52		2239	-0.7	-21		2130	-1.1	-34		2127	-0.1	-3						
9 F	0315	5.6	171	24 Sa	0350	4.9	149	9 M	0444	6.3	192	24 Tu	0428	5.5	168	9 M	0340	6.0	183	24 Tu	0316	5.4	165						
	0927	0.5	15		0959	0.6	18		1055	-0.8	-24		1053	-0.2	-6		0951	-0.7	-21		0947	0.0	0						
	1509	6.6	201		1547	5.8	177		1646	6.8	207		1638	6.0	183		1548	6.4	195		1537	5.7	174						
	2205	-1.3	-40		2228	-0.6	-18		2322	-1.8	-55		2314	-0.8	-24		2217	-1.4	-43		2206	-0.3	-9						
10 Sa	0410	6.0	183	25 Su	0425	5.2	158	10 Tu	0525	6.5	198	25 W	0457	5.8	177	10 Tu	0421	6.4	195	25 W	0350	5.8	177						
	1020	0.1	3		1039	0.4	12		1140	-1.1	-34		1128	-0.5	-15		1037	-1.2	-37		1025	-0.5	-15						
	1604	7.0	213		1624	6.0	183		1731	6.9	210		1712	6.2	189		1634	6.6	201		1614	6.0	183						
	2254	-1.6	-49		2306	-0.8	-24						2347	-0.7	-21		2300	-1.4	-43		2243	-0.4	-12						
11 Su	0458	6.3	192	26 M	0456	5.4	165	11 W	0005	-1.7	-52	26 Th	0526	6.1	186	11 W	0459	6.7	204	26 Th	0422	6.2	189						
	1109	-0.2	-6		1117	0.2	6		1223	-1.3	-40		1201	-0.7	-21		1120	-1.4	-43		1102	-0.8	-24						
	1655	7.2	219		1658	6.2	189		1812	6.8	207		1745	6.3	192		1715	6.7	204		1650	6.2	189						
	2341	-1.8	-55		2341	-0.8	-24										2340	-1.3	-40		2318	-0.3	-9						
12 M	0543	6.5	198	27 Tu	0526	5.6	171	12 Th	0045	-1.4	-43	27 F	0019	-0.6	-18	12 Th	0534	6.8	207	27 F	0454	6.5	198						
	1157	-0.5	-15		1151	0.1	3		0639	6.6	201		0556	6.3	192		1200	-1.5	-46		1138	-1.0	-30						
	1742	7.2	219		1730	6.3	192		1306	-1.2	-37		1235	-0.7	-21		1753	6.6	201		1726	6.3	192						
					1852	6.5	198		1852	6.5	198		1819	6.2	189						2352	-0.2	-6						
13 Tu	0026	-1.7	-52	28 W	0014	-0.8	-24	13 F	0125	-1.0	-30	28 Sa	0050	-0.4	-12	13 F	0018	-0.9	-27	28 Sa	0527	6.7	204						
	0626	6.6	201		0555	5.8	177		0714	6.4	195		0628	6.4	195		0607	6.7	204		1214	-1.1	-34						
	1243	-0.6	-18		1224	0.0	0		1349	-1.0	-30		1310	-0.7	-21		1240	-1.4	-43		1804	6.3	192						
	1828	7.0	213		1802	6.3	192		1932	6.0	183		1857	6.0	183		1830	6.3	192										
14 W	0110	-1.4	-43	29 Th	0046	-0.6	-18	14 Sa	0206	-0.4	-12	14 Sa	0056	-0.5	-15	14 Sa	0056	-0.5	-15	29 Su	0027	0.0	0						
	0707	6.6	201		0624	6.0	183		0750	6.1	186		0639	6.5	198		0639	6.5	198		0603	6.8	207						
	1330	-0.5	-15		1257	-0.1	-3		1434	-0.6	-18		1320	-1.1	-34		1320	-1.1	-34		1253	-1.0	-30						
	1913	6.7	204		1837	6.2	189		2013	5.5	168		1905	6.0	183		1905	6.0	183		1844	6.1	186						
15 Th	0155	-1.0	-30	30 F	0117	-0.4	-12	15 Su	0249	0.2	6	15 Su	0133	0.0	0	15 Su	0133	0.0	0	30 M	0106	0.3	9						
	0748	6.4	195		0657	6.1	186		0827	5.8	177		0711	6.2	189		0711	6.2	189		0643	6.7	204						
	1418	-0.4	-12		1331	-0.1	-3		1522	-0.2	-6		1400	-0.7	-21		1400	-0.7	-21		1336	-0.8	-24						
	1958	6.2	189		1914	6.0	183		2057	5.0	152		1942	5.5	168		1942	5.5	168		1928	5.8	177						

Punta Gorda, Venezuela, 2009

Times and Heights of High and Low Waters

April				May				June																					
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height																
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm															
1 W	0248	1.0	30		16 Th	0318	1.6	49		1 F	0357	1.2	37		16 Sa	0346	1.7	52		1 M	0551	0.5	15		16 Tu	0505	1.2	37	
	0820	6.0	183			0838	5.3	162			0919	5.7	174			0902	5.3	162			1134	5.2	158			1026	5.1	155	
	1534	-0.1	-3			1559	0.6	18			1631	0.0	0			1616	0.8	24			1810	0.5	15			1717	1.2	37	
	2124	5.1	155			2130	4.7	143			2232	5.4	165			2151	5.2	158			0013	6.0	183			2253	5.8	177	
2 Th	0402	1.3	40		17 F	0424	1.8	55		2 Sa	0509	1.1	34		17 Su	0450	1.6	49		2 Tu	0613	6.0	183		17 W	0609	0.9	27	
	0924	5.5	168			0936	5.0	152			1037	5.3	162			1004	5.0	152			0652	0.2	6			1136	4.9	149	
	1649	0.1	3			1703	0.8	24			1739	0.2	6			1715	1.0	30			1248	5.2	158			1820	1.4	43	
	2243	4.8	146			2234	4.6	140			2346	5.5	168			2249	5.2	158			1909	0.7	21			2352	5.9	180	
3 F	0524	1.3	40		18 Sa	0535	1.7	52		3 Su	0618	0.7	21		18 M	0555	1.4	43		3 W	0710	0.5	15		18 Th	0710	0.5	15	
	1046	5.2	158			1049	4.7	143			1200	5.3	162			1114	4.9	149			0749	-0.1	-3			1249	5.0	152	
	1805	0.1	3			1807	0.9	27			1844	0.2	6			1814	1.1	34			1355	5.3	162			1921	1.4	43	
						2345	4.6	140			2003	5.4	165			2349	5.4	165			2004	0.8	24						
4 Sa	0010	4.9	149		19 Su	0641	1.5	46		4 M	0053	5.8	177		19 Tu	0655	1.0	30		4 Th	0202	6.2	189		19 F	0052	6.1	186	
	0639	1.0	30			1208	4.8	146			0721	0.3	9			1226	5.0	152			0841	-0.4	-12			0808	0.1	3	
	1217	5.2	158			1907	0.8	24			1317	5.4	165			1911	1.0	30			1451	5.4	165			1358	5.2	158	
	1913	-0.1	-3								1942	0.1	3								2054	0.8	24			2020	1.3	40	
5 Su	0126	5.3	162		20 M	0050	4.9	149		5 Tu	0150	6.1	186		20 W	0045	5.7	174		5 F	0248	6.3	192		20 Sa	0152	6.4	195	
	0745	0.4	12			0739	1.0	30			0817	-0.2	-6			0750	0.5	15			0928	-0.7	-21			0902	-0.4	-12	
	1337	5.5	168			1318	5.0	152			1420	5.6	171			1332	5.2	158			1538	5.6	171			1459	5.5	168	
	2013	-0.4	-12			2000	0.6	18			2035	0.1	3			2003	1.0	30			2141	0.8	24			2115	1.1	34	
6 M	0225	5.8	177		21 Tu	0143	5.3	162		6 W	0238	6.4	195		21 Th	0138	6.0	183		6 Sa	0330	6.4	195		21 Su	0248	6.7	204	
	0841	-0.2	-6			0829	0.5	15			0907	-0.7	-21			0840	0.0	0			1012	-0.8	-24			0953	-0.9	-27	
	1441	5.8	177			1415	5.3	162			1513	5.9	180			1429	5.5	168			1619	5.6	171			1554	5.9	180	
	2105	-0.6	-18			2047	0.4	12			2123	0.1	3			2052	0.8	24			2224	0.9	27			2207	0.8	24	
7 Tu	0312	6.3	192		22 W	0228	5.7	174		7 Th	0320	6.6	201		22 F	0226	6.4	195		7 Su	0408	6.4	195		22 M	0342	7.0	213	
	0931	-0.8	-24			0914	-0.1	-3			0952	-1.0	-30			0927	-0.5	-15			1053	-0.8	-24			1043	-1.2	-37	
	1533	6.2	189			1504	5.6	171			1558	6.0	183			1521	5.8	177			1655	5.7	174			1645	6.2	189	
	2151	-0.7	-21			2130	0.3	9			2207	0.2	6			2139	0.7	21			2305	0.9	27			2257	0.6	18	
8 W	0353	6.6	201		23 Th	0308	6.2	189		8 F	0358	6.7	204		23 Sa	0313	6.7	204		8 M	0443	6.4	195		23 Tu	0434	7.2	219	
	1015	-1.2	-37			0956	-0.5	-15			1034	-1.1	-34			1012	-0.9	-27			1133	-0.7	-21			1131	-1.4	-43	
	1617	6.4	195			1547	5.9	180			1637	6.0	183			1609	6.0	183			1728	5.7	174			1733	6.5	198	
	2234	-0.7	-21			2210	0.2	6			2248	0.3	9			2225	0.6	18			2344	1.0	30			2347	0.4	12	
9 Th	0429	6.7	204		24 F	0346	6.5	198		9 Sa	0433	6.7	204		24 Su	0359	7.0	213		9 Tu	0517	6.4	195		24 W	0524	7.3	223	
	1057	-1.4	-43			1036	-0.9	-27			1114	-1.1	-34			1058	-1.2	-37			1211	-0.6	-18			1218	-1.4	-43	
	1656	6.4	195			1628	6.2	189			1712	6.0	183			1656	6.2	189			1801	5.7	174			1821	6.6	201	
	2313	-0.5	-15			2249	0.2	6			2327	0.5	15			2311	0.5	15											
10 F	0503	6.8	207		25 Sa	0424	6.8	207		10 Su	0506	6.6	201		25 M	0445	7.1	216		10 W	0022	1.1	34		25 Th	0037	0.3	9	
	1137	-1.4	-43			1116	-1.2	-37			1152	-1.0	-30			1143	-1.3	-40			1248	-0.4	-12			0614	7.2	219	
	1732	6.3	192			1709	6.3	192			1746	5.9	180			1742	6.3	192			1834	5.7	174			1306	-1.3	-40	
	2351	-0.2	-6			2329	0.2	6								2358	0.5	15								1908	6.7	204	
11 Sa	0534	6.7	204		26 Su	0503	7.0	213		11 M	0004	0.7	21		26 Tu	0532	7.1	216		11 Th	0059	1.2	37		26 F	0129	0.2	6	
	1215	-1.3	-40			1157	-1.2	-37			1230	-0.8	-24			1231	-1.3	-40			0626	6.2	189			0704	6.9	210	
	1807	6.1	186			1751	6.3	192			1819	5.8	177			1830	6.3	192			1325	-0.2	-6			1354	-1.0	-30	
																					1908	5.7	174			1955	6.6	201	
12 Su	0028	0.1	3		27 M	0010	0.4	12		12 Tu	0041	0.9	27		27 W	0048	0.6	18		12 F	0138	1.2	37		27 Sa	0222	0.3	9	
	0606	6.5	198			0544	7.0	213			0611	6.3	192			0620	7.0	213			0703	6.1	186			0757	6.5	198	
	1253	-1.0	-30			1241	-1.2	-37			1309	-0.5	-15			1320	-1.1	-34			1403	0.1	3			1445	-0.5	-15	
	1840	5.9	180			1835	6.2	189			1853	5.6	171			1919	6.3	192			1945	5.7	174			2044	6.5	198	
13 M	0105	0.5	15		28 Tu	0056	0.6	18		13 W	0120	1.2	37		28 Th	0142	0.7	21		13 Sa	0220	1.3	40		28 Su	0318	0.3	9	
	0638	6.3	192			0628	6.9	210			0646	6.1	186			0712	6.7	204			0745	5.9	180			0852	6.0	183	
	1332	-0.6	-18			1329	-1.0	-30			1349	-0.1	-3			1412	-0.8	-24			1443	0.4	12			1537	0.0	0	
	1915	5.6	171			1924	6.0	183			1930	5.5	168			2012	6.2	189			2025	5.7	174			2135	6.4	195	
14 Tu	0143	0.9	27		29 W	0147	0.8	24		14 Th	0201	1.4	43		29 F	0239	0.7												

Punta Gorda, Venezuela, 2009

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 W	0619	0.3	9		16 Th	0525	0.9	27		1 Sa	0048	5.7	174		16 Su	0723	0.5	15		1 Tu	0220	6.1	186		16 W	0217	6.9	210	
	1212	4.9	149			1055	5.0	152			0746	0.5	15			1321	5.3	162			0900	0.5	15			0900	-0.1	-3	
	1833	1.2	37			1733	1.7	52			1401	4.9	149			1941	1.8	55			1509	5.7	174			1510	6.9	210	
						2308	6.1	186			2001	1.8	55								2117	1.4	43			2123	0.5	15	
2 Th	0027	6.0	183		17 F	0636	0.7	21		2 Su	0151	5.9	180		17 M	0114	6.4	195		2 W	0306	6.4	195		17 Th	0315	7.3	223	
	0719	0.2	6			1215	4.9	149			0840	0.3	9			0826	0.0	0			0942	0.2	6			0948	-0.4	-12	
	1324	4.9	149			1848	1.8	55			1458	5.1	155			1433	5.8	177			1544	6.1	186			1554	7.4	226	
	1932	1.3	40								2055	1.6	49			2044	1.3	40			2159	1.1	34			2211	0.0	0	
3 F	0125	6.0	183		18 Sa	0017	6.2	189		3 M	0245	6.1	186		18 Tu	0225	6.8	207		3 Th	0345	6.6	201		18 F	0404	7.5	229	
	0814	0.0	0			0743	0.2	6			0928	0.0	0			0921	-0.5	-15			1020	0.1	3			1033	-0.5	-15	
	1427	5.0	152			1335	5.1	155			1541	5.4	165			1529	6.4	195			1614	6.4	195			1634	7.8	238	
	2027	1.3	40			1956	1.6	49			2142	1.3	40			2139	0.7	21			2237	0.8	24			2256	-0.4	-12	
4 Sa	0218	6.0	183		19 Su	0127	6.4	195		4 Tu	0329	6.3	192		19 W	0325	7.2	219		4 F	0420	6.8	207		19 Sa	0449	7.6	232	
	0905	-0.2	-6			0843	-0.3	-9			1010	-0.2	-6			1010	-0.9	-27			1055	0.1	3			1115	-0.4	-12	
	1519	5.2	158			1444	5.5	168			1616	5.7	174			1617	6.9	210			1642	6.7	204			1711	7.9	241	
	2118	1.3	40			2057	1.2	37			2224	1.1	34			2229	0.2	6			2312	0.6	18			2339	-0.6	-18	
5 Su	0306	6.2	189		20 M	0233	6.7	204		5 W	0408	6.5	198		20 Th	0417	7.5	229		5 Sa	0453	6.9	210		20 Su	0530	7.6	232	
	0951	-0.4	-12			0937	-0.8	-24			1049	-0.3	-9			1056	-1.1	-34			1128	0.2	6			1155	-0.1	-3	
	1602	5.4	165			1543	6.0	183			1646	6.0	183			1700	7.3	223			1710	7.0	213			1747	7.9	241	
	2203	1.2	37			2153	0.8	24			2302	0.9	27			2316	-0.2	-6			2345	0.4	12						
6 M	0348	6.3	192		21 Tu	0332	7.0	213		6 Th	0442	6.6	201		21 F	0504	7.6	232		6 Su	0525	7.0	213		21 M	0021	-0.5	-15	
	1033	-0.5	-15			1028	-1.2	-37			1125	-0.3	-9			1139	-1.0	-30			1159	0.4	12			0610	7.3	223	
	1638	5.6	171			1634	6.4	195			1715	6.2	189			1739	7.6	232			1738	7.2	219			1234	0.3	9	
	2245	1.1	34			2244	0.4	12			2338	0.8	24													1822	7.7	235	
7 Tu	0425	6.4	195		22 W	0426	7.3	223		7 F	0515	6.7	204		22 Sa	0001	-0.5	-15		7 M	0018	0.4	12		22 Tu	0103	-0.3	-9	
	1113	-0.5	-15			1115	-1.4	-43			1158	-0.2	-6			0548	7.5	229			0558	6.9	210			0648	6.9	210	
	1710	5.7	174			1720	6.8	207			1743	6.4	195			1221	-0.8	-24			1229	0.6	18			1314	0.8	24	
	2324	1.0	30			2333	0.1	3							1818	7.6	232			1809	7.3	223			1856	7.5	229		
8 W	0500	6.4	195		23 Th	0516	7.4	226		8 Sa	0012	0.7	21		23 Su	0046	-0.5	-15		8 Tu	0051	0.4	12		23 W	0146	0.1	3	
	1150	-0.5	-15			1201	-1.4	-43			0547	6.7	204			0631	7.3	223			0633	6.8	207			0727	6.5	198	
	1741	5.9	180			1804	7.1	216			1230	0.0	0			1302	-0.3	-9			1258	0.9	27			1355	1.4	43	
											1811	6.6	201			1855	7.5	229			1843	7.3	223			1933	7.1	216	
9 Th	0002	1.0	30		24 F	0021	-0.2	-6		9 Su	0045	0.6	18		24 M	0131	-0.3	-9		9 W	0128	0.5	15		24 Th	0233	0.6	18	
	0534	6.4	195			0604	7.4	226			0620	6.6	201			0714	6.9	210			0713	6.5	198			0809	6.0	183	
	1225	-0.4	-12			1246	-1.2	-37			1300	0.2	6			1344	0.2	6			1331	1.3	40			1441	1.9	58	
	1811	6.0	183			1846	7.2	219			1841	6.8	207			1933	7.3	223			1922	7.2	219			2014	6.7	204	
10 F	0038	0.9	27		25 Sa	0109	-0.2	-6		10 M	0119	0.6	18		25 Tu	0217	0.0	0		10 Th	0213	0.7	21		25 F	0326	1.1	34	
	0607	6.4	195			0650	7.1	216			0655	6.5	198			0757	6.3	192			0759	6.1	186			0858	5.5	168	
	1259	-0.2	-6			1330	-0.8	-24			1329	0.5	15			1428	0.9	27			1413	1.7	52			1536	2.4	73	
	1842	6.1	186			1928	7.1	216			1914	6.8	207			2012	6.9	210			2007	7.0	213			2103	6.2	189	
11 Sa	0113	1.0	30		26 Su	0158	-0.2	-6		11 Tu	0155	0.7	21		26 W	0307	0.4	12		11 F	0312	1.0	30		26 Sa	0427	1.4	43	
	0642	6.3	192			0738	6.7	204			0735	6.2	189			0843	5.8	177			0856	5.7	174			0958	5.2	158	
	1332	0.0	0			1416	-0.3	-9			1401	0.9	27			1517	1.5	46			1517	2.2	67			1644	2.6	79	
	1914	6.2	189			2010	6.9	210			1952	6.8	207			2056	6.5	198			2103	6.6	201			2206	5.9	180	
12 Su	0150	1.0	30		27 M	0249	0.0	0		12 W	0239	0.8	24		27 Th	0403	0.8	24		12 Sa	0430	1.2	37		27 Su	0534	1.5	46	
	0720	6.1	186			0827	6.2	189			0821	5.9	180			0937	5.3	162			1009	5.4	165			1116	5.0	152	
	1405	0.3	9			1503	0.3	9			1439	1.3	40			1615	2.0	61			1649	2.4	73			1756	2.6	79	
	1950	6.3	192			2055	6.7	204			2036	6.7	204			2148	6.1	186			2214	6.3	192			2324	5.7	174	
13 M	0230	1.0	30		28 Tu	0343	0.3	9		13 Th	0336	0.9	27		28 F	0506	1.1	34		13 Su	0551	1.1	34</						

Punta Gorda, Venezuela, 2009

Times and Heights of High and Low Waters

October			November			December																	
Time	Height		Time	Height		Time	Height		Time	Height													
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm									
1 Th	0235	6.4	195	16 F	0301	7.1	216	1 Su	0326	6.6	201	16 M	0417	6.7	204	1 Tu	0346	6.2	189	16 W	0442	5.9	180
	0908	0.7	21		0924	0.2	6		0951	1.0	30		1028	0.7	21		1005	1.0	30		1050	0.8	24
	1503	6.4	195		1527	7.6	232		1529	7.2	219		1618	7.5	229		1541	7.2	219		1637	6.8	207
	2129	1.1	34		2151	-0.2	-6		2218	0.2	6		2257	-0.6	-18		2238	-0.5	-15		2319	-0.7	-21
2 F	0317	6.7	204	17 Sa	0350	7.3	223	2 M	0406	6.8	207	17 Tu	0455	6.7	204	2 W	0431	6.4	195	17 Th	0517	5.9	180
	0947	0.6	18		1009	0.1	3		1029	1.0	30		1108	0.8	24		1049	0.9	27		1130	0.8	24
	1535	6.8	207		1607	7.8	238		1605	7.5	229		1654	7.4	226		1625	7.4	226		1711	6.8	207
	2208	0.7	21		2235	-0.5	-15		2256	-0.1	-3		2337	-0.5	-15		2322	-0.7	-21		2358	-0.6	-18
3 Sa	0354	6.9	210	18 Su	0432	7.4	226	3 Tu	0445	6.9	210	18 W	0531	6.5	198	3 Th	0515	6.5	198	18 F	0549	5.9	180
	1023	0.6	18		1050	0.3	9		1106	1.0	30		1147	1.0	30		1133	0.8	24		1207	0.9	27
	1606	7.1	216		1643	7.9	241		1642	7.7	235		1728	7.3	223		1709	7.5	229		1745	6.7	204
	2244	0.4	12		2317	-0.6	-18		2336	-0.2	-6		2377	0.0	0		2357	-0.8	-24		2399	0.0	0
4 Su	0429	7.0	213	19 M	0512	7.3	223	4 W	0525	6.9	210	19 Th	0605	6.4	195	4 F	0601	6.6	201	19 Sa	0621	5.9	180
	1058	0.6	18		1130	0.5	15		1145	1.1	34		1225	1.3	40		1219	0.8	24		1244	0.9	27
	1636	7.4	226		1718	7.9	241		1721	7.8	238		1802	7.1	216		1756	7.5	229		1818	6.6	201
	2319	0.2	6		2357	-0.5	-15		2387	0.0	0		2468	0.0	0		2449	-0.7	-21		2490	0.0	0
5 M	0504	7.1	216	20 Tu	0549	7.1	216	5 Th	0606	6.8	207	20 F	0640	6.2	189	5 Sa	0647	6.5	198	20 Su	0653	5.9	180
	1130	0.8	24		1209	0.9	27		1226	1.3	40		1303	1.5	46		1309	0.8	24		1321	1.0	30
	1707	7.6	232		1751	7.7	235		1803	7.7	235		1837	6.9	210		1844	7.3	223		1853	6.4	195
	2354	0.1	3		2385	-0.2	-6		2466	0.0	0		2547	0.3	9		2528	-0.5	-15		2609	0.1	3
6 Tu	0539	7.0	213	21 W	0638	-0.2	-6	6 F	0652	6.6	201	21 Sa	0716	6.0	183	6 Su	0737	6.5	198	21 M	0727	5.8	177
	1203	1.0	30		0625	6.8	207		1313	1.5	46		1344	1.7	52		1403	0.9	27		1359	1.2	37
	1741	7.7	235		1825	7.4	226		1849	7.5	229		1914	6.6	201		1937	7.0	213		1931	6.2	189
7 W	0031	0.2	6	22 Th	0119	0.2	6	7 Sa	0153	0.2	6	22 Su	0220	0.6	18	7 M	0237	-0.2	-6	22 Tu	0228	0.4	12
	0617	6.9	210		0701	6.4	195		0743	6.4	195		0756	5.8	177		0830	6.3	192		0804	5.8	177
	1237	1.3	40		1326	1.7	52		1409	1.7	52		1429	1.9	58		1503	1.0	30		1442	1.3	40
	1818	7.7	235		1901	7.1	216		1941	7.1	216		1956	6.3	192		2034	6.5	198		2012	5.9	180
8 Th	0111	0.3	9	23 F	0203	0.6	18	8 Su	0252	0.5	15	23 M	0307	1.0	30	8 Tu	0334	0.2	6	23 W	0309	0.7	21
	0659	6.6	201		0740	6.1	186		0842	6.1	186		0840	5.7	174		0929	6.2	189		0845	5.7	174
	1316	1.6	49		1409	2.1	64		1516	1.9	58		1523	2.1	64		1608	1.0	30		1532	1.3	40
	1900	7.5	229		1940	6.7	204		2042	6.7	204		2045	6.0	183		2139	6.0	183		2100	5.6	171
9 F	0200	0.6	18	24 Sa	0252	1.0	30	9 M	0358	0.8	24	24 Tu	0400	1.2	37	9 W	0436	0.5	15	24 Th	0357	1.0	30
	0748	6.3	192		0824	5.7	174		0951	6.0	183		0932	5.5	168		1032	6.1	186		0932	5.6	171
	1407	2.0	61		1501	2.4	73		1630	1.9	58		1625	2.1	64		1715	0.9	27		1632	1.3	40
	1949	7.2	219		2026	6.4	195		2155	6.3	192		2143	5.7	174		2253	5.7	174		2157	5.2	158
10 Sa	0301	0.9	27	25 Su	0347	1.4	43	10 Tu	0506	0.9	27	25 W	0457	1.4	43	10 Th	0539	0.8	24	25 F	0453	1.3	40
	0847	5.9	180		0918	5.5	168		1106	6.1	186		1029	5.5	168		1138	6.1	186		1024	5.6	171
	1518	2.3	70		1605	2.6	79		1742	1.6	49		1731	2.0	61		1820	0.6	18		1739	1.2	37
	2049	6.7	204		2123	6.0	183		2317	6.0	183		2250	5.5	168		2250	5.5	168		2303	5.0	152
11 Su	0415	1.1	34	26 M	0449	1.6	49	11 W	0613	0.9	27	26 Th	0556	1.5	46	11 F	0610	5.5	168	26 Sa	0557	1.5	46
	1002	5.7	174		1022	5.3	162		1218	6.3	192		1129	5.6	171		1242	6.2	189		1124	5.6	171
	1643	2.4	73		1715	2.6	79		1849	1.2	37		1833	1.7	52		1922	0.3	9		1845	0.9	27
	2204	6.4	195		2233	5.7	174																
12 M	0532	1.1	34	27 Tu	0552	1.6	49	12 Th	0038	6.1	186	27 F	0001	5.4	165	12 Sa	0124	5.5	168	27 Su	0017	4.9	149
	1129	5.7	174		1133	5.4	165		0714	0.8	24		0653	1.5	46		0740	0.9	27		0701	1.5	46
	1803	2.2	67		1821	2.4	73		1320	6.7	204		1227	5.9	180		1340	6.4	195		1227	5.7	174
	2332	6.2	189		2349	5.7	174		1949	0.6	18		1930	1.3	40		2018	-0.1	-3		1946	0.5	15
13 Tu	0641	0.9	27	28 W	0650	1.5	46	13 F	0147	6.3	192	28 Sa	0108	5.5	168	13 Su	0227	5.6	171	28 M	0130	5.0	152
	1250	6.1	186		1238	5.7	174		0809	0.7	21		0746	1.4	43		0834	0.9	27		0800	1.4	43
	1912	1.6	49		1920	2.0	61		1413	7.0	213		1321	6.2	189		1433	6.5	198		1331	6.0	183
									2042	0.1	3		2021	0.8	24		2109	-0.4	-12		2042	0.0	0
14 W	0056	6.4	195	29 Th	0058	5.8	177	14 Sa	0245	6.5	198	29 Su	0207	5.7	174	14 M	0320	5.8	177	29 Tu	0234	5.3	162
	0743	0.6	18		0742	1.4	43		0859	0.6	18		0835	1.3	40		0924	0.8	24		0855	1.1	34
	1353	6.7	204		1330	6.0	183		1459	7.3	223		1410	6.5	198		1518	6.7	204		1429	6.3	192
	2011	1.0	30		2011	1.5	46		2130	-0.3	-9		2109	0.3	9		2156	-0.6	-18		2134	-0.5	-15
15 Th	0205	6.8	207	30 F	0156	6.1	186	15 Su	0334	6.7	204	30 M	0259	6.0	183	15 Tu	0404	5.9	180	30 W	0330	5.6	171
	0836	0.3	9		0829	1.2	37		0945	0.6	18		0921	1.1	34		1009	0.8	24		0947	0.8	24
	1444	7.2	219		1414	6.4	195		1541	7.4	226		1456	6.9	210		1559	6.7	204		1524	6.7	204
	2104	0.3	9		2056	1.0	30		2214	-0.5	-15		2154	-0.1	-3		2239	-0.7	-21		2223	-0.9	-27
				31 Sa	0244	6.4	195																

Suriname River Entrance, Surinam, 2009

Times and Heights of High and Low Waters

July				August				September															
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height										
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm									
1 W	0527	1.9	58	16 Th	0433	1.7	52	1 Sa	0021	6.2	189	16 Su	0000	6.6	201	1 Tu	0214	6.4	195	16 W	0223	7.3	223
	1141	6.3	192		1049	6.6	201		0652	2.4	73		0635	1.8	55		0834	2.0	61		0840	1.1	34
	1748	2.2	67		1658	2.0	61		1310	5.8	177		1258	6.3	192		1447	6.4	195		1454	7.4	226
2 Th	0004	6.6	201	17 F	0541	1.7	52	2 Su	0130	6.3	192	17 M	0122	6.8	207	2 W	0301	6.8	207	17 Th	0314	7.8	238
	0627	2.0	61		1159	6.5	198		0757	2.2	67		0752	1.5	46		0916	1.6	49		0927	0.6	18
	1241	6.2	189		1806	2.1	64		1413	6.0	183		1411	6.7	204		1526	6.9	210		1537	7.9	241	2131	1.6	49	2147	0.5	15
3 F	0101	6.6	201	18 Sa	0024	6.9	210	3 M	0229	6.5	198	18 Tu	0231	7.3	223	3 Th	0340	7.3	223	18 F	0357	8.2	250
	0725	1.9	58		0653	1.6	49		0852	1.9	58		0854	1.0	30		0952	1.2	37		1007	0.4	12
	1339	6.3	192		1311	6.6	201		1505	6.3	192		1509	7.2	219		1600	7.3	223		1616	8.3	253	2205	1.1	34	2226	0.1	3
4 Sa	0154	6.7	204	19 Su	0133	7.1	216	4 Tu	0318	6.8	207	19 W	0327	7.8	238	4 F	0414	7.6	232	19 Sa	0437	8.4	256
	0818	1.8	55		0801	1.3	40		0936	1.6	49		0946	0.6	18		1024	0.9	27		1044	0.3	9
	1431	6.4	195		1418	6.8	207		1547	6.7	204		1558	7.7	235		1631	7.7	235		1651	8.5	259	2238	0.8	24	2303	0.0	0
5 Su	0243	6.9	210	20 M	0237	7.5	229	5 W	0359	7.2	219	20 Th	0416	8.2	250	5 Sa	0447	7.9	241	20 Su	0514	8.4	256
	0906	1.6	49		0902	0.9	27		1015	1.3	40		1031	0.3	9		1055	0.7	21		1119	0.3	9
	1517	6.5	198		1518	7.2	219		1624	7.0	213		1641	8.1	247		1701	7.9	241		1726	8.5	259	2309	0.5	15	2338	0.0	0
6 M	0328	7.1	216	21 Tu	0334	7.8	238	6 Th	0436	7.5	229	21 F	0500	8.4	256	6 Su	0519	8.1	247	21 M	0549	8.2	250
	0949	1.5	46		0957	0.6	18		1050	1.1	34		1112	0.2	6		1126	0.6	18		1152	0.6	18
	1600	6.7	204		1610	7.5	229		1658	7.3	223		1720	8.3	253		1732	8.1	247		1759	8.3	253	2342	0.3	9	2342	0.3	9
7 Tu	0410	7.2	219	22 W	0426	8.1	247	7 F	0511	7.7	235	22 Sa	0540	8.5	259	7 M	0552	8.1	247	22 Tu	0613	0.3	9
	1029	1.3	40		1046	0.3	9		1123	0.9	27		1150	0.2	6		1158	0.6	18		1225	0.9	27
	1639	6.9	210		1659	7.8	238		1730	7.5	229		1758	8.3	253		1804	8.1	247		1832	7.9	241
8 W	0449	7.4	226	23 Th	0515	8.3	253	8 Sa	0545	7.8	238	23 Su	0619	8.3	253	8 Tu	0616	0.3	9	23 W	0648	0.7	21
	1107	1.2	37		1132	0.2	6		1156	0.8	24		1227	0.5	15		1231	0.8	24		1259	1.4	43
	1716	7.0	213		1743	8.0	244		1803	7.6	232		1834	8.2	250		1839	8.0	244		1907	7.5	229
9 Th	0527	7.5	229	24 F	0601	8.3	253	9 Su	0619	7.9	241	24 M	0657	7.9	241	9 W	0705	7.6	232	24 Th	0736	6.8	207
	1144	1.1	34		1216	0.3	9		1229	0.8	24		1303	0.8	24		1309	1.1	34		1336	1.9	58
	1753	7.1	216		1826	8.0	244		1836	7.7	235		1911	7.9	241		1917	7.8	238		1946	7.0	213
10 F	0605	7.5	229	25 Sa	0034	0.5	15	10 M	0044	0.7	21	25 Tu	0124	0.7	21	10 Th	0135	0.8	24	25 F	0208	1.7	52
	1220	1.1	34		0645	8.2	250		0655	7.8	238		0735	7.5	229		0749	7.2	219		0820	6.3	192
	1829	7.2	219		1258	0.5	15		1304	0.9	27		1339	1.3	40		1351	1.6	49		1421	2.5	76
11 Sa	0033	1.3	40	26 Su	0117	0.7	21	11 Tu	0122	0.8	24	26 W	0204	1.2	37	11 F	0226	1.3	40	26 Sa	0301	2.3	70
	0643	7.5	229		0729	7.9	241		0734	7.6	232		0815	6.9	210		0841	6.7	204		0919	5.8	177
	1257	1.1	34		1340	0.9	27		1341	1.1	34		1418	1.8	55		1445	2.1	64		1522	2.9	88
12 Su	0112	1.3	40	27 M	0201	1.0	30	12 W	0205	1.0	30	27 Th	0248	1.7	52	12 Sa	0330	1.8	55	27 Su	0417	2.7	82
	0723	7.4	226		0813	7.4	226		0817	7.2	219		0901	6.4	195		0951	6.2	189		1045	5.5	168
	1336	1.2	37		1422	1.3	40		1424	1.5	46		1504	2.4	73		1557	2.5	76		1654	3.2	98
13 M	0154	1.4	43	28 Tu	0247	1.3	40	13 Th	0254	1.3	40	28 F	0343	2.2	67	13 Su	0455	2.1	64	28 M	0551	2.8	85
	0805	7.3	223		0859	7.0	213		0909	6.8	207		1000	5.9	180		1123	6.0	183		1220	5.6	171
	1418	1.4	43		1506	1.7	52		1515	1.9	58		1603	2.8	85		1732	2.7	82		1830	3.0	91
14 Tu	0240	1.5	46	29 W	0337	1.7	52	14 F	0355	1.7	52	29 Sa	0455	2.6	79	14 M	0628	2.0	61	29 Tu	0709	2.4	73
	0853	7.0	213		0950	6.5	198		1013	6.4	195		1119	5.6	171		1254	6.3	192		1328	6.0	183
	1504	1.6	49		1556	2.2	67		1619	2.3	70		1726	3.1	94		1903	2.3	70		1936	2.5	76
15 W	0333	1.6	49	30 Th	0434	2.1	64	15 Sa	0510	1.9	58	30 Su	0623	2.7	82	15 Tu	0118	6.7	204	30 W	0146	6.4	195
	0947	6.8	207		1049	6.1	186		1133	6.2	189		1248	5.6	171		0743	1.6	49		0802	2.0	61
	1557	1.8	55		1654	2.6	79		1740	2.4	73		1855	3.0	91		1402	6.8	207		1416	6.6	201
16 Th	0212	6.9	210	31 F	0540	2.3	70	31 M	0739	2.4	73	31 Tu	0111	6.0	183	31 W	0203	1.9	58				
					1158	5.8	177		1357	6.0	183		0739	2.4	73		1357	6.0	183	2023	1.9	58	
					1803	2.7	82		2003	2.6	79		2003	2.6	79								

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, 2009

Times and Heights of High and Low Waters

April				May				June																					
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height																
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm															
1 W	0117	2.3	70		16 Th	0217	3.3	100		1 F	0247	2.3	70		16 Sa	0256	3.3	100		1 M	0502	2.0	60		16 Tu	0400	3.0	90	
	0756	6.2	190			0811	4.9	150			0911	6.2	190			0913	5.2	160			1113	6.2	190			1023	5.2	160	
	1423	2.0	60			1521	3.0	90			1541	2.0	60			1553	3.0	90			1753	1.6	50			1656	3.0	90	
	2024	5.6	170			2206	4.6	140			2204	5.9	180			2202	4.9	150								2300	5.6	170	
2 Th	0238	2.6	80		17 F	0351	3.3	100		2 Sa	0413	2.3	70		17 Su	0415	3.3	100		2 Tu	0004	6.2	190		17 W	0508	2.6	80	
	0921	5.9	180			1023	4.9	150			1034	6.2	190			1051	5.2	160			0608	1.6	50			1141	5.6	170	
	1549	2.3	70			1700	3.0	90			1717	2.0	60			1700	3.0	90			1224	6.2	190			1756	2.6	80	
	2213	5.6	170			2206	6.2	190			2332	6.2	190			2306	5.2	160			1856	1.6	50						
3 F	0436	3.0	90		18 Sa	0030	4.6	140		3 Su	0534	2.0	60		18 M	0534	3.0	90		3 W	0104	6.6	200		18 Th	0000	5.9	180	
	1056	5.9	180			0604	3.3	100			1151	6.2	190			1200	5.6	170			0711	1.3	40			0617	2.3	70	
	1738	2.3	70			1158	5.2	160			1834	1.6	50			1800	2.6	80			1330	6.6	200			1247	5.6	170	
	2356	5.9	180			1806	3.0	90								1949	1.6	50			1949	1.6	50			1849	2.3	70	
4 Sa	0600	2.3	70		19 Su	0123	5.2	160		4 M	0039	6.6	200		19 Tu	0004	5.6	170		4 Th	0156	6.6	200		19 F	0053	6.2	190	
	1221	6.2	190			0704	2.6	80			0639	1.6	50			0632	2.6	80			0806	1.3	40			0721	2.0	60	
	1858	1.6	50			1258	5.6	170			1258	6.6	200			1254	5.9	180			1426	6.6	200			1341	6.2	190	
						1900	2.3	70			1928	1.3	40			1853	2.3	70			2038	1.3	40			1939	2.0	60	
5 Su	0102	6.6	200		20 M	0132	5.6	170		5 Tu	0132	6.9	210		20 W	0054	5.9	180		5 F	0241	6.6	200		20 Sa	0141	6.6	200	
	0702	1.6	50			0749	2.3	70			0736	1.3	40			0719	2.3	70			0854	1.0	30			0811	1.6	50	
	1324	6.9	210			1345	5.9	180			1353	6.9	210			1334	6.2	190			1517	6.6	200			1428	6.6	200	
	1954	1.0	30			1943	2.0	60			2013	1.0	30			1932	2.0	60			2117	1.6	50			2024	1.6	50	
6 M	0156	6.9	210		21 Tu	0154	5.9	180		6 W	0217	7.2	220		21 Th	0136	6.2	190		6 Sa	0317	6.6	200		21 Su	0230	7.2	220	
	0758	1.0	30			0815	2.0	60			0823	1.0	30			0758	1.6	50			0932	1.0	30			0854	1.0	30	
	1415	7.2	220			1415	6.6	200			1441	6.9	210			1409	6.6	200			1554	6.2	190			1511	6.9	210	
	2038	0.7	20			2015	1.6	50			2054	1.0	30			2008	1.6	50			2158	1.6	50			2111	1.3	40	
7 Tu	0241	7.2	220		22 W	0224	6.6	200		7 Th	0258	7.2	220		22 F	0211	6.9	210		7 Su	0400	6.6	200		22 M	0319	7.5	230	
	0845	0.7	20			0841	1.6	50			0906	0.7	20			0838	1.3	40			1011	1.3	40			0939	0.7	20	
	1500	7.5	230			1451	6.9	210			1524	6.9	210			1453	6.9	210			1628	6.2	190			1554	7.2	220	
	2115	0.3	10			2049	1.6	50			2136	1.0	30			2053	1.6	50			2230	1.6	50			2200	1.0	30	
8 W	0319	7.5	230		23 Th	0254	6.9	210		8 F	0339	7.2	220		23 Sa	0253	7.2	220		8 M	0438	6.6	200		23 Tu	0409	7.9	240	
	0924	0.3	10			0913	1.3	40			0945	0.7	20			0913	1.0	30			1054	1.3	40			1026	0.3	10	
	1541	7.5	230			1521	6.9	210			1602	6.9	210			1532	6.9	210			1704	6.2	190			1638	7.2	220	
	2154	0.3	10			2117	1.3	40			2209	1.0	30			2132	1.3	40			2256	2.0	60			2245	1.0	30	
9 Th	0358	7.5	230		24 F	0321	7.2	220		9 Sa	0413	6.9	210		24 Su	0336	7.5	230		9 Tu	0502	6.2	190		24 W	0500	7.9	240	
	1002	0.3	10			0939	1.0	30			1021	0.7	20			0951	0.7	20			1126	1.6	50			1117	0.3	10	
	1617	7.5	230			1556	7.2	220			1632	6.6	200			1608	7.2	220			1741	5.9	180			1723	7.5	230	
	2230	0.7	20			2156	1.0	30			2239	1.3	40			2211	1.3	40			2330	2.0	60			2328	1.0	30	
10 F	0436	7.5	230		25 Sa	0358	7.5	230		10 Su	0451	6.9	210		25 M	0419	7.5	230		10 W	0530	6.2	190		25 Th	0549	7.9	240	
	1039	0.3	10			1009	0.7	20			1102	1.0	30			1034	0.7	20			1156	2.0	60			1208	0.3	10	
	1649	7.2	220			1626	7.2	220			1708	6.2	190			1645	7.2	220			1817	5.6	170			1811	7.5	230	
	2258	1.0	30			2232	1.3	40			2306	1.6	50			2254	1.3	40											
11 Sa	0508	7.2	220		26 Su	0438	7.5	230		11 M	0515	6.6	200		26 Tu	0508	7.5	230		11 Th	0015	1.0	30		26 F	0015	1.0	30	
	1117	0.7	20			1047	0.7	20			1141	1.3	40			1123	0.7	20			0604	6.2	190			0638	7.5	230	
	1723	6.9	210			1656	7.2	220			1751	5.9	180			1728	7.2	220			1223	2.0	60			1300	0.7	20	
	2324	1.3	40			2306	1.3	40			2339	2.0	60			2336	1.3	40			1849	5.6	170			1906	7.2	220	
12 Su	0536	6.6	200		27 M	0517	7.5	230		12 Tu	0539	6.2	190		27 W	0558	7.5	230		12 F	0047	2.3	70		27 Sa	0109	1.0	30	
	1156	1.3	40			1130	1.0	30			1211	2.0	60			1215	0.7	20			0647	5.9	180			0728	7.2	220	
	1802	6.2	190			1734	6.9	210			1832	5.6	170			1819	6.9	210			1300	2.3	70			1353	1.0	30	
	2358	1.6	50			2341	1.6	50											1917		5.2	160		2004		6.9	210		
13 M	0600	6.2	190		28 Tu	0604	7.2	220		13 W	0019	2.3	70		28 Th	0024	1.3	40		13 Sa	0209	1.3	40						
	1230	1.6	50			1219	1.0	30			0613	5.9	180			0651	7.2	220			0728	5.6	170		0823	6.9	210		
	1849	5.9	180			1821	6.9	210			1239	2.3	70			1311	1.0	30			1347	2.6	80		1447	1.3	40		
											1911	5.2	160			1917	6.9	210			2002	5.2	160		2108	6.6	200		
14 Tu	0038	2.3	70		29 W	0024	1.6	50		14 Th	0104	2.6	80		29 F	0124													

Rio de Janeiro, Brazil, 2009

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 Th	0000	0.7	20	16 F	0111	1.0	30	1 Su	0113	1.0	30	16 M	0041	2.3	70	1 Su	0458	3.9	120	16 M	0051	2.3	70
	0536	3.3	100		0554	3.0	90		0606	3.3	100		0239	2.3	70		1143	1.3	40		0509	3.6	110
	1230	1.6	50		1308	1.6	50		1321	1.6	50		0623	3.0	90		1713	4.3	130		1008	1.6	50
	1724	3.6	110		1756	3.6	110		1821	3.6	110		1056	1.6	50		1313*	2.0	60		1749	3.6	110
2 F	0051	0.7	20	17 Sa	0206	1.3	40	2 M	0223	1.3	40	17 Tu	0106	2.6	80	2 M	0054	1.6	50	17 Tu	0019	2.6	80
	0611	3.3	100		0630	3.0	90		0649	3.0	90		0354	2.3	70		0526	3.6	110		0200	2.6	80
	1315	1.6	50		1049	1.6	50		1439	1.6	50		0708	3.0	90		1247	1.6	50		0549	3.3	100
	1806	3.3	100		1224	1.6	50		1913	3.3	100		1139	2.0	60		1758	3.6	110		1038	1.6	50
3 Sa	0151	1.0	30	18 Su	1356*	1.6	50	3 Tu	0341	1.6	50	18 W	1258*	2.0	60	3 Tu	0206	2.0	60	18 W	0049	3.0	90
	0656	3.0	90		0309	1.6	50		0730	2.6	80		0504	2.3	70		0602	3.3	100		0317	2.6	80
	1411	1.6	50		0709	2.6	80		1111	2.0	60		0821	2.6	80		1023	2.0	60		0626	3.0	90
	1858	3.3	100		1123	1.6	50		1217	2.0	60		1706	1.6	50		1153	2.0	60		1115	2.0	60
4 Su	0254	1.0	30	19 M	1304*	2.0	60	4 W	1600*	1.6	50	19 Th	0113	3.0	90	4 W	0330	2.6	80	19 Th	1504*	2.0	60
	0743	3.0	90		0419	2.0	60		0036	3.0	90		0608	2.3	70		0647	3.0	90		0054	3.0	90
	1515	1.6	50		0804	2.6	80		0458	1.6	50		1124	2.6	80		1021	2.0	60		0439	2.6	80
	2000	3.0	90		1628	1.6	50		1104	2.3	70		1808	1.3	40		1221	2.3	70		0730	2.6	80
5 M	0400	1.0	30	20 Tu	2113	2.6	80	5 Th	1254*	2.3	70	20 F	0113	3.3	100	5 Th	1547	1.6	50	20 F	0053	3.3	100
	0838	2.6	80		0002	2.6	80		0119	3.3	100		0654	2.0	60		0043	3.3	100		0541	2.3	70
	1624	1.3	40		0526	2.0	60		0608	1.6	50		1228	3.3	100		0454	2.3	70		1136	3.0	90
	2143	3.0	90		0923	2.6	80		1315	2.6	80		1856	1.0	30		0751	2.6	80		1734	1.6	50
6 Tu	0504	1.3	40	21 W	1738	1.3	40	6 F	1824	0.7	20	21 Sa	0128	3.6	110	6 F	1019	2.3	70	21 Sa	0054	3.6	110
	0956	2.6	80		0021	3.0	90		0156	3.9	120		0730	1.6	50		1253*	2.6	80		0623	2.0	60
	1732	1.0	30		0624	2.0	60		0709	1.6	50		1306	3.6	110		0115	3.9	120		1215	3.3	100
					1109	2.6	80		1330	3.0	90		1934	0.7	20		0602	2.0	60		1821	1.3	40
7 W	0034	3.3	100	22 Th	1832	1.0	30	7 Sa	0226	3.9	120	22 Su	0151	3.9	120	7 Sa	0147	3.9	120	22 Su	0106	3.9	120
	0611	1.3	40		0058	3.3	100		0802	1.3	40		0802	1.3	40		0658	1.6	50		0656	1.6	50
	1211	2.6	80		0711	1.6	50		1341	3.3	100		1339	3.9	120		1315	3.3	100		1247	3.6	110
	1834	0.7	20		1223	3.0	90		2011	0.0	0		2006	0.3	10		1909	0.7	20		1900	1.0	30
8 Th	0134	3.6	110	23 F	1915	0.7	20	8 Su	0249	4.3	130	23 M	0213	4.3	130	8 Su	0206	4.3	130	23 M	0123	3.9	120
	0713	1.0	30		0130	3.3	100		0849	1.3	40		0834	1.3	40		0743	1.6	50		0726	1.6	50
	1300	3.0	90		0754	1.3	40		1404	3.9	120		1408	4.3	130		1323	3.6	110		1313	3.9	120
	1928	0.3	10		1311	3.3	100		2100	-0.3	-10		2041	0.3	10		1958	0.3	10		1938	0.7	20
9 F	0219	3.6	110	24 Sa	1956	0.3	10	9 M	0306	3.9	120	24 Tu	0239	4.3	130	9 M	0217	4.3	130	24 Tu	0145	4.3	130
	0811	1.0	30		0202	3.6	110		0926	1.0	30		0904	1.0	30		0819	1.3	40		0758	1.3	40
	1336	3.3	100		0828	1.3	40		1432	4.3	130		1438	4.3	130		1341	4.3	130		1345	4.3	130
	2021	0.0	0		1351	3.6	110		2145	-0.3	-10		2113	0.3	10		2041	0.0	0		2011	0.3	10
10 Sa	0254	3.9	120	25 Su	2032	0.3	10	10 Tu	0323	3.9	120	25 W	0304	4.3	130	10 Tu	0224	4.3	130	25 W	0206	4.3	130
	0902	1.0	30		0234	3.9	120		1002	1.0	30		0936	1.0	30		0858	1.3	40		0830	1.0	30
	1409	3.3	100		0902	1.3	40		1502	4.3	130		1506	4.6	140		1408	4.6	140		1411	4.6	140
	2109	-0.3	-10		1424	3.9	120		2224	0.0	0		2151	0.3	10		2121	0.3	10		2049	0.3	10
11 Su	0324	3.9	120	26 M	2106	0.0	0	11 W	0347	3.9	120	26 Th	0332	4.3	130	11 W	0245	4.3	130	26 Th	0230	4.3	130
	0951	1.0	30		0302	3.9	120		1039	1.3	40		1004	1.0	30		0932	1.0	30		0900	1.0	30
	1445	3.6	110		0936	1.0	30		1538	4.6	140		1538	4.6	140		1443	4.6	140		1443	4.9	150
	2200	-0.3	-10		1458	3.9	120		2306	0.3	10		2224	0.3	10		2202	0.7	20		2124	0.7	20
12 M	0353	3.9	120	27 Tu	2141	0.0	0	12 Th	0411	3.9	120	27 F	0400	4.3	130	12 Th	0308	4.3	130	27 F	0258	4.3	130
	1034	1.0	30		0334	3.9	120		1109	1.3	40		1036	1.0	30		1002	1.3	40		0934	1.0	30
	1517	3.9	120		1008	1.0	30		1609	4.6	140		1606	4.6	140		1513	4.9	150		1511	4.9	150
	2247	-0.3	-10		1526	4.3	130		2351	1.0	30		2304	0.7	20		2241	1.0	30		2204	0.7	20
13 Tu	0419	3.6	110	28 W	2213	0.0	0	13 F	0443	3.6	110	28 Sa	0426	3.9	120	13 F	0338	3.9	120	28 Sa	0323	4.3	130
	1111	1.3	40		0402	3.9	120		1138	1.3	40		1108	1.3	40		1032	1.3	40		1008	1.0	30
	1556	3.9	120		1039	1.0	30		1651	4.3	130		1641	4.3	130		1553	4.6	140		1549	4.9	150
	2336	0.0	0		1558	4.3	130						2353	1.0	30		2319	1.3	40		2247	1.0	30
14 W	0451	3.6	110	29 Th	2251	0.3	10	14 Sa	0038	1.3	40	14 Sa	0406	3.9	120	14 Sa	0406	3.9	120	29 Su	0354	3.9	120
	1153	1.3	40		0432	3.9	120		0511	3.6	110		1039	1.3	40		1039	1.3	40		1045	1.0	30
	1632	3.9	120		1111	1.3	40		1008	1.6	50		1628	4.3	130		1628	4.3	130		1621	4.6	140
					1630	3.9	120		1728	3.9	120		2356	2.0	60		2356	2.0	60		2341	1.6	50
15 Th	0021	0.3	10	30 F	2215*	2.0	60	15 Su	0132	2.0	60	15 Su	0441	3.6	110	15 Su	0441	3.6	110	30 M	0421	3.9	120
	0517	3.3	100		0111	1.3	40		0551	3.3	100		0947	1.3	40		0947	1.3	40		1136	1.3	40
	1230	1.6	50		1630	3.9	120		1021	1.6	50		1704	3.9	120		1704	3.9	120		1700	4.3	130
	1709	3.9	120		2330	0.7	20		1809	3.6	110		2139	2.3	70		2139	2.3	70				
			31																				

Rio de Janeiro, Brazil, 2009

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 W	0432	1.3	40		16 Th	0354	1.3	40		1 Sa	0608	1.0	30		16 Su	0039	2.3	70		1 Tu	0038	3.3	100		16 W	0056	3.3	100	
	0900	2.6	80			0834	3.0	90			1339	3.0	90			0551	0.7	20			0715	0.3	10			0726	0.0	0	
	1211	2.3	70			1639	1.3	40			1909	1.6	50			1343	3.6	110			1336	3.6	110			1404	3.9	120	
	1321	2.3	70			2054	2.6	80			2349	3.0	90			1853	1.6	50			1953	1.3	40			1956	1.0	30	
2 Th	0534	1.3	40		17 F	0458	1.0	30		2 Su	0700	0.7	20		17 M	0051	2.6	80		2 W	0113	3.6	110		17 Th	0121	3.9	120	
	1041	2.6	80			1228	3.0	90			1326	3.3	100			0653	0.3	10			0751	0.3	10			0811	0.0	0	
	1836	1.6	50			1753	1.3	40			1951	1.3	40			1409	3.9	120			1400	3.9	120			1417	3.9	120	
	2253	2.6	80			2232	2.6	80								1941	1.3	40			2017	1.0	30			2030	1.0	30	
3 F	0628	1.0	30		18 Sa	0600	0.7	20		3 M	0045	3.3	100		18 Tu	0115	3.3	100		3 Th	0151	3.9	120		18 F	0151	4.3	130	
	1219	3.0	90			1328	3.3	100			0743	0.3	10			0745	0.0	0			0821	0.0	0			0856	0.0	0	
	1924	1.6	50			1856	1.3	40			1353	3.6	110			1434	3.9	120			1424	3.9	120			1434	3.9	120	
	2356	3.0	90								2021	1.3	40			2021	1.0	30			2043	0.7	20			2102	0.7	20	
4 Sa	0717	0.7	20		19 Su	0017	2.6	80		4 Tu	0126	3.6	110		19 W	0143	3.6	110		4 F	0219	4.3	130		19 Sa	0219	4.3	130	
	1311	3.3	100			0700	0.3	10			0819	0.0	0			0834	-0.3	-10			0854	0.0	0			0939	0.0	0	
	2006	1.3	40			1408	3.6	110			1421	3.6	110			1454	3.9	120			1453	4.3	130			1456	3.9	120	
						1953	1.3	40			2051	1.0	30			2100	1.0	30			2109	0.7	20			2138	0.7	20	
5 Su	0051	3.3	100		20 M	0108	3.0	90		5 W	0206	3.6	110		20 Th	0211	3.9	120		5 Sa	0251	4.3	130		20 Su	0256	4.3	130	
	0802	0.3	10			0756	0.0	0			0853	0.0	0			0917	-0.3	-10			0928	0.0	0			1017	0.3	10	
	1354	3.6	110			1443	3.9	120			1453	3.9	120			1511	3.9	120			1513	4.3	130			1517	3.9	120	
	2045	1.3	40			2041	1.0	30			2115	1.0	30			2136	1.0	30			2139	0.7	20			2209	0.7	20	
6 M	0136	3.6	110		21 Tu	0149	3.3	100		6 Th	0243	3.9	120		21 F	0245	4.3	130		6 Su	0317	4.3	130		21 M	0328	4.3	130	
	0841	0.3	10			0847	-0.3	-10			0923	0.0	0			1000	-0.3	-10			1002	0.3	10			1058	1.0	30	
	1432	3.6	110			1513	3.9	120			1519	3.9	120			1532	3.9	120			1541	4.3	130			1547	3.6	110	
	2115	1.3	40			2121	1.0	30			2143	1.0	30			2208	1.0	30			2209	0.7	20			2239	1.0	30	
7 Tu	0215	3.6	110		22 W	0224	3.6	110		7 F	0311	3.9	120		22 Sa	0315	4.3	130		7 M	0349	4.3	130		22 Tu	0406	3.9	120	
	0915	0.0	0			0934	-0.3	-10			0954	0.0	0			1043	0.0	0			1041	0.3	10			1143	1.3	40	
	1506	3.9	120			1541	3.9	120			1549	3.9	120			1556	3.6	110			1604	3.9	120			1613	3.6	110	
	2147	1.3	40			2202	1.0	30			2211	1.0	30			2243	1.0	30			2241	0.7	20			2224	1.0	30	
8 W	0256	3.6	110		23 Th	0300	3.6	110		8 Sa	0345	3.9	120		23 Su	0353	4.3	130		8 Tu	0419	4.3	130		23 W	0449	3.6	110	
	0949	0.0	0			1019	-0.3	-10			1028	0.0	0			1123	0.7	20			1123	0.7	20			0923	2.0	60	
	1543	3.9	120			1606	3.9	120			1611	3.9	120			1617	3.6	110			1634	3.9	120			1051	2.0	60	
	2213	1.3	40			2243	1.0	30			2241	1.0	30			2315	1.0	30			2319	1.0	30			1232	2.0	60	
9 Th	0330	3.6	110		24 F	0336	3.9	120		9 Su	0411	3.9	120		24 M	0426	3.9	120		9 W	0458	3.9	120		24 Th	0532	3.3	100	
	1021	0.3	10			1104	-0.3	-10			1102	0.3	10			1204	1.0	30			1213	1.3	40			0926	2.0	60	
	1611	3.9	120			1628	3.6	110			1639	3.9	120			1649	3.3	100			1702	3.6	110			1200	2.3	70	
	2245	1.3	40			2321	1.3	40			2315	1.0	30			2223	1.3	40								1332	2.3	70	
10 F	0404	3.6	110		25 Sa	0409	3.9	120		10 M	0447	3.9	120		25 Tu	0506	3.6	110		10 Th	0017	1.3	40		25 F	0006	1.3	40	
	1054	0.3	10			1151	0.3	10			1143	0.7	20			1254	1.6	50			0539	3.6	110			0138	1.3	40	
	1645	3.6	110			1656	3.3	100			1704	3.6	110			1715	3.3	100			1738	3.3	100			0621	3.0	90	
	2319	1.3	40								2349	1.3	40			2154	1.3	40			2221*	1.3	40			0951	2.3	70	
11 Sa	0438	3.6	110		26 Su	0000	1.3	40		11 Tu	0517	3.6	110		26 W	0553	3.3	100		11 F	0145	1.3	40		26 Sa	0006	1.6	50	
	1132	0.3	10			0451	3.9	120			1232	1.0	30			0958	2.0	60			0626	3.3	100			0258	1.3	40	
	1709	3.6	110			1238	0.7	20			1738	3.3	100			1213	2.0	60			1004	2.3	70			0732	2.6	80	
	2358	1.3	40			1721	3.3	100								1358	2.0	60			1139	2.3	70			1000	2.3	70	
12 Su	0508	3.3	100		27 M	0045	1.3	40		12 W	0045	1.3	40		27 Th	0053	1.6	50		12 Sa	0000	1.6	50						
	1211	0.7	20			0530	3.6	110			0600	3.6	110			0204	1.6	50			0306	1.3	40		0408	1.3	40		
	1743	3.3	100			1328	1.3	40			1336	1.3	40			0643	3.0	90			0745	2.6	80		1304	3.0	90		
						1756	3.0	90			1809	3.0	90			1009	2.0	60			0938	2.6	80		1732	2.3	70		
13 M	0047	1.6	50		28 Tu	0139	1.6	50		13 Th	0202	1.3	40		28 F	1306*	2.3	70		13 Su	0017	1.3	40						
	0549	3.3	100			0611	3.3	100			1456	1.6	50			1505	1.6	50			0424	1.0	30		0509	1.0	30		
	1302	1.0	30			1041	1.6	50			1854	3.0	90			1026	2.3	70			1258	3.3	100		1239	3.0	90		
	1815	3.3	100			1432*	1.6	50			2308	1.6	50			1341*	2.6	80			1734	2.0	60		1817	2.0	60		
14 Tu	0145	1.6	50		29 W	0053	1.6	50		14 F	0008	1.6	50		29 Sa	0045	1.3	40		1									

Rio de Janeiro, Brazil, 2009

Times and Heights of High and Low Waters

October			November			December																	
Time	Height		Time	Height		Time	Height		Time	Height													
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm									
1 Th	0053	3.6	110	16 F	0053	3.9	120	1 Su	0126	3.9	120	16 M	0143	3.9	120	1 Tu	0151	3.9	120	16 W	0215	3.6	110
	0713	0.3	10		0751	0.3	10		0758	0.3	10		0900	1.0	30		0830	0.7	20		0928	1.3	40
	1328	3.9	120		1336	3.6	110		1343	3.9	120		1351	3.6	110		1345	3.6	110		1411	3.6	110
	1941	1.0	30		2000	0.7	20		2011	0.3	10		2056	0.3	10		2041	0.0	0		2126	0.0	0
2 F	0123	3.9	120	17 Sa	0123	3.9	120	2 M	0200	4.3	130	17 Tu	0219	3.9	120	2 W	0232	3.9	120	17 Th	0258	3.6	110
	0749	0.3	10		0836	0.3	10		0843	0.3	10		0945	1.0	30		0921	1.0	30		1006	1.3	40
	1354	3.9	120		1354	3.6	110		1408	3.9	120		1424	3.6	110		1419	3.6	110		1454	3.6	110
	2008	0.7	20		2038	0.7	20		2051	0.3	10		2138	0.3	10		2128	0.0	0		2204	0.0	0
3 Sa	0154	4.3	130	18 Su	0158	4.3	130	3 Tu	0236	4.3	130	18 W	0302	3.9	120	3 Th	0315	3.9	120	18 F	0339	3.6	110
	0824	0.3	10		0915	0.7	20		0928	0.7	20		1024	1.3	40		1011	1.0	30		1045	1.3	40
	1415	4.3	130		1417	3.6	110		1439	3.9	120		1502	3.6	110		1500	3.6	110		1534	3.6	110
	2039	0.7	20		2111	0.7	20		2134	0.3	10		2217	0.3	10		2217	0.0	0		2241	0.3	10
4 Su	0223	4.3	130	19 M	0236	4.3	130	4 W	0311	4.3	130	19 Th	0347	3.6	110	4 F	0402	3.9	120	19 Sa	0417	3.6	110
	0902	0.3	10		0958	1.0	30		1017	1.0	30		1106	1.6	50		1102	1.3	40		1119	1.3	40
	1443	4.3	130		1449	3.9	120		1509	3.6	110		1543	3.6	110		1539	3.6	110		1609	3.6	110
	2111	0.3	10		2149	0.7	20		2219	0.3	10		2258	0.7	20		2311	0.0	0		2315	0.3	10
5 M	0254	4.3	130	20 Tu	0309	4.3	130	5 Th	0356	3.9	120	20 F	0426	3.6	110	5 Sa	0451	3.6	110	20 Su	0458	3.6	110
	0943	0.3	10		1043	1.3	40		1108	1.3	40		1149	1.6	50		1156	1.3	40		1151	1.6	50
	1506	3.9	120		1517	3.6	110		1547	3.6	110		1617	3.6	110		1617	3.6	110		1651	3.6	110
	2145	0.3	10		2226	0.7	20		2313	0.3	10		2341	0.7	20		2341	0.7	20		2351	0.7	20
6 Tu	0324	4.3	130	21 W	0354	3.9	120	6 F	0441	3.6	110	21 Sa	0509	3.3	100	6 Su	0008	0.3	10	21 M	0539	3.3	100
	1024	0.7	20		1124	1.6	50		1206	1.6	50		1232	2.0	60		1251	1.6	50		1223	1.6	50
	1536	3.9	120		1556	3.6	110		1621	3.3	100		1700	3.3	100		1702	3.3	100		1724	3.3	100
	2224	0.7	20		2306	1.0	30																
7 W	0402	4.3	130	22 Th	0436	3.6	110	7 Sa	0017	0.7	20	22 Su	0032	1.0	30	7 M	0108	0.3	10	22 Tu	0036	0.7	20
	1111	1.0	30		1208	2.0	60		1308	2.0	60		1317	2.0	60		1343	1.6	50		1302	1.6	50
	1602	3.6	110		1630	3.6	110		1702	3.3	100		1743	3.0	90		1753	3.3	100		1802	3.0	90
	2309	0.7	20		2354	1.0	30																
8 Th	0443	3.9	120	23 F	0519	3.3	100	8 Su	0126	0.7	20	23 M	0126	1.0	30	8 Tu	0209	0.7	20	23 W	0128	1.0	30
	1208	1.6	50		0923	2.3	70		0638	3.0	90		0654	3.0	90		0719	2.6	80		0658	3.0	90
	1638	3.6	110		1104	2.3	70		0900	2.6	80		1411	2.0	60		1439	1.6	50		1356	1.6	50
					1302	2.3	70		1008	3.0	90		1830	3.0	90		1847	3.0	90		1849	3.0	90
9 F	0015	1.0	30	24 Sa	0104	1.3	40	9 M	0239	0.7	20	24 Tu	0224	1.0	30	9 W	0311	0.7	20	24 Th	0228	1.0	30
	0526	3.6	110		0609	3.0	90		1111	3.0	90		0800	2.6	80		0817	2.6	80		0743	3.0	90
	1315	2.0	60		0949	2.3	70		1521	2.0	60		1511	2.0	60		1539	1.6	50		1500	1.6	50
	1709	3.3	100		1158	2.3	70		1900	2.6	80		1938	2.6	80		1954	3.0	90		1945	3.0	90
10 Sa	0138	1.0	30	25 Su	0213	1.3	40	10 Tu	0347	0.7	20	25 W	0321	1.0	30	10 Th	0415	1.0	30	25 F	0330	1.3	40
	0623	3.0	90		0717	2.6	80		1156	3.0	90		0926	2.6	80		1608	1.6	50		0834	2.6	80
	0911	2.6	80		1008	2.3	70		1623	1.6	50		1608	1.6	50		1638	1.6	50		1602	1.6	50
	1102	2.6	80		1206	2.6	80		2047	2.6	80		2119	2.6	80		2121	3.0	90		2106	2.6	80
11 Su	1438*	2.0	60	26 M	1519*	2.3	70	11 W	0449	0.7	20	26 Th	0415	1.0	30	11 F	0517	1.0	30	26 Sa	0432	1.0	30
	0256	1.0	30		0321	1.3	40		1221	3.0	90		1045	3.0	90		1028	2.6	80		0939	2.6	80
	1156	3.0	90		1141	2.6	80		1719	1.6	50		1700	1.6	50		1736	1.3	40		1702	1.3	40
	1556	2.0	60		1632	2.0	60		2247	3.0	90		2249	3.0	90		2258	3.0	90		2308	3.0	90
12 M	1900	2.6	80	27 Tu	2045	2.6	80	12 Th	0547	0.7	20	27 F	0508	1.0	30	12 Sa	0617	1.3	40	27 Su	0534	1.0	30
	2215*	2.3	70		0419	1.3	40		1228	3.0	90		1132	3.0	90		1119	2.6	80		1058	2.6	80
	0408	1.0	30		1134	3.0	90		1808	1.3	40		1745	1.3	40		1828	1.0	30		1758	1.0	30
	1232	3.3	100		1723	2.0	60		2341	3.3	100		2345	3.3	100		1917	0.7	20		1853	0.7	20
13 Tu	1706	2.0	60	28 W	2251	3.0	90	13 F	0639	0.7	20	28 Sa	0600	0.7	20	13 Su	0006	3.3	100	28 M	0024	3.3	100
	2347	2.6	80		0509	1.0	30		1230	3.0	90		1208	3.3	100		1206	3.0	90		0632	1.0	30
	0513	0.7	20		1158	3.3	100		1854	1.0	30		1826	1.0	30		1917	0.7	20		1206	3.0	90
	1258	3.6	110		1800	1.6	50																
14 W	1802	1.6	50	29 Th	2345	3.3	100	14 Sa	0023	3.6	110	29 Su	0028	3.6	110	14 M	0054	3.3	100	29 Tu	0119	3.6	110
	0000	3.0	90		0554	0.7	20		0728	0.7	20		0651	0.7	20		0800	1.3	40		0728	1.0	30
	0611	0.3	10		1224	3.3	100		1249	3.3	100		1238	3.3	100		1251	3.3	100		1254	3.0	90
	1313	3.6	110		1832	1.3	40		1936	0.7	20		1909	0.7	20		2002	0.3	10		1945	0.3	10
15 Th	1847	1.3	40	30 F	0021	3.6	110	15 Su	0102	3.6	110	30 M	0108	3.6	110	15 Tu	0136	3.6	110	30 W	0204	3.6	110
	0023	3.6	110		0636	0.7	20		0813	0.7	20		0741	0.7	20		0847	1.3	40		0823	1.0	30
	0702	0.3	10		1253	3.6	110		1315	3.3	100		1309	3.3	100		1332	3.3	100		1338	3.3	100
	1324	3.6	110		1902	1.0	30		2015	0.3	10		1954	0.3	10		2047	0.3	10		2034	0.0	0
31 Sa	1923	1.0	30	31 Th	0056	3.9	120	31 O	0247	3.9	120	31 O	0247	3.9	120	31 O	0247	3.9					

Santos, Brazil, 2009

Times and Heights of High and Low Waters

January				February				March													
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height								
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm							
1 Th	0000	0.7	20			1 Su	0053	1.3	40			1 Su	0451	4.3	130						
	0523	3.9	120	16 F	0006		1.0	30	16 M	0508	3.6		110	16 M	1113	1.6	50				
	1056	1.6	50		0526		3.6	110		1826	3.6		110		1717	4.3	130				
	1639	3.6	110		1208		1.6	50		2241	2.6		80		1724	4.3	130				
			1708		3.9	120					2215	2.6	80								
2 F	0041	0.7	20			2 M	0145	1.6	50			2 M	0019	1.6	50	17 Tu	0421	3.6	110		
	0602	3.6	110	17 Sa	0545		3.3	100	17 Tu	0506	3.3		100	0511	3.9		120	1313	2.0	60	
	1136	1.6	50		1251		2.0	60		1200	2.6		80	1156	1.6		50	1811	3.6	110	
	1726	3.3	100		1754		3.6	110		1502	2.3		70	1804	3.9		120	2215	3.0	90	
							2021*	3.0		90											
3 Sa	0126	1.0	30			3 Tu	0256	2.3	70	18 W	0058	3.3	100	3 Tu	0113	2.3	70	18 W	0408	3.6	110
	0647	3.6	110	18 Su	0600		3.3	100	18 W		0336	3.0	90		0538	3.3	100		0919	2.6	80
	1221	2.0	60		1356		2.0	60			0456	3.0	90		1300	2.0	60		1104	2.6	80
	2104	3.3	100		1906		3.3	100			0913	2.6	80		2251	3.6	110		1438	2.0	60
							1232*	3.0		90				1943*	3.3	100					
4 Su	0219	1.3	40			4 W	0441	2.3	70	19 Th	0049	3.6	110	4 W	0253	2.6	80	19 Th	0243	3.3	100
	0736	3.3	100	19 M	0613		3.0	90	19 Th		0836	2.6	80		0526	3.0	90		0817	2.6	80
	1345	2.0	60		1041		2.3	70			1254	3.3	100		0939	2.6	80		1145	3.0	90
	2226	3.6	110		1158		2.6	80			1749	1.6	50		1132	2.6	80		1602	2.0	60
			1534*		2.0	60					1502	2.3	70								
5 M	0321	1.3	40			5 Th	0100	4.3	130	20 F	0054	3.9	120	5 Th	0004	4.3	130	20 F	0039	3.6	110
	0841	3.0	90	20 Tu	0651		2.0	60	20 F		0753	2.3	70		0726	2.6	80		0754	2.6	80
	1606	2.0	60		0932		2.6	80			1315	3.9	120		1217	3.0	90		1209	3.6	110
	2338	3.6	110		1238		3.0	90			1834	1.0	30		1817	1.6	50		1713	1.6	50
			1700*		1.6	50															
6 Tu	0434	1.6	50			6 F	0153	4.9	150	21 Sa	0117	4.3	130	6 F	0058	4.9	150	21 Sa	0028	3.9	120
	1208	3.0	90	21 W	0741		2.0	60	21 Sa		0726	2.0	60		0724	2.0	60		0736	2.3	70
	1738	1.6	50		1302		3.3	100			1256	4.3	130		1256	3.6	110		1241	3.9	120
					1800		1.3	40			1939	0.7	20		1913	0.7	20		1902	1.3	40	1806	1.3	40
7 W	0043	4.3	130			7 Sa	0236	5.2	160	22 Su	0149	4.6	140	7 Sa	0141	5.2	160	22 Su	0054	4.3	130
	0551	1.6	50	22 Th	0817		1.6	50	22 Su		0745	1.6	50		0741	2.0	60		0723	2.0	60
	1306	3.3	100		1330		3.6	110			1409	4.6	140		1326	3.9	120		1309	4.6	140
	1834	1.0	30		1847		0.7	20			1954	0.3	10		1938	0.7	20		1849	1.0	30
8 Th	0143	4.6	140			8 Su	0313	5.2	160	23 M	0215	4.9	150	8 Su	0215	5.2	160	23 M	0123	4.6	140
	0702	1.6	50	23 F	0845		1.3	40	23 M		0813	1.6	50		0758	1.6	50		0732	1.6	50
	1347	3.3	100		1356		3.9	120			1438	4.9	150		1347	4.3	130		1345	4.9	150
	1923	0.7	20		1928		0.3	10			2034	0.0	0		2008	0.7	20		1928	0.7	20
9 F	0236	4.9	150			9 M	0345	5.2	160	24 Tu	0245	4.9	150	9 M	0247	5.2	160	24 Tu	0153	4.9	150
	0802	1.3	40	24 Sa	0913		1.3	40	24 Tu		0843	1.3	40		0817	1.3	40		0753	1.3	40
	1415	3.6	110		1443		4.6	140			1502	4.9	150		1404	4.6	140		1413	5.2	160
	2013	0.3	10		2130		0.0	0			2109	0.0	0		2036	0.3	10		2006	0.3	10
10 Sa	0323	4.9	150			10 Tu	0406	4.9	150	25 W	0309	4.9	150	10 Tu	0309	5.2	160	25 W	0219	5.2	160
	0851	1.3	40	25 Su	0945		1.0	30	25 W		0915	1.3	40		0843	1.0	30		0821	1.3	40
	1432	3.9	120		1447		4.3	130			1524	5.2	160		1419	4.9	150		1445	5.2	160
	2102	0.0	0		2053		0.0	0			2149	0.0	0		2106	0.3	10		2045	0.3	10
11 Su	0406	4.9	150			11 W	0411	4.6	140	26 Th	0334	4.9	150	11 W	0321	4.9	150	26 Th	0245	4.9	150
	0930	1.3	40	26 M	1011		1.0	30	26 Th		0945	1.0	30		0909	1.0	30		0853	1.0	30
	1451	3.9	120		1508		4.6	140			1551	4.9	150		1443	5.2	160		1509	5.2	160
	2147	0.0	0		2132		0.0	0			2224	0.3	10		2136	0.7	20		2123	0.3	10
12 M	0438	4.6	140			12 Th	0417	4.3	130	27 F	0358	4.9	150	12 Th	0328	4.6	140	27 F	0304	4.9	150
	1006	1.3	40	27 Tu	1043		1.0	30	27 F		1011	1.3	40		0945	1.0	30		0924	1.0	30
	1508	4.3	130		1528		4.6	140			1613	4.9	150		1508	5.2	160		1538	5.2	160
	2224	0.0	0		2211		0.0	0			2300	0.7	20		2204	1.0	30		2200	0.7	20
13 Tu	0456	4.3	130			13 F	0432	4.3	130	28 Sa	0421	4.6	140	13 F	0343	4.6	140	28 Sa	0326	4.9	150
	1039	1.3	40	28 W	1109		1.3	40	28 Sa		1043	1.3	40		1017	1.0	30		1000	1.0	30
	1534	4.3	130		1553		4.6	140			1645	4.6	140		1541	5.2	160		1606	5.2	160
	2302	0.3	10		2251		0.3	10			2340	1.0	30		2236	1.3	40		2239	1.0	30
14 W	0502	3.9	120			14 Sa	0449	3.9	120	29 Su	0358	4.3	130	14 Sa	0358	4.3	130	29 Su	0353	4.6	140
	1106	1.3	40	29 Th	1021		1.3	40	29 Su		1054	1.0	30		1054	1.0	30		1039	1.3	40
	1600	4.3	130		1617		4.3	130			1656	4.6	140		1609	4.9	150		1641	4.9	150
	2338	0.7	20		2328		0.3	10			2354	2.0	60		2258	1.6	50		2315	1.6	50
15 Th	0511	3.9	120			15 Su	0500	3.6	110	30 M	0411	4.3	130	15 Su	0411	4.3	130	30 M	0411	4.3	130
	1139	1.6	50	30 F	1051		1.3	40	30 M		1134	1.3	40		1134	1.3	40		1121	1.3	40
	1634	4.3	130		1651		4.3	130			1736	3.9	120		1649	4.6	140		1721	4.3	130
											2336	2.3	70		2300	2.3	70				
						31 Sa	0006	1.0	30	31 Tu											

Santos, Brazil, 2009

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 W	0104	2.6	80		16 Th	0338	3.6	110		1 F	0709	3.0	90		16 Sa	0332	3.3	100		1 M	0406	2.6	80		16 Tu	0119	2.6	80	
	0443	3.3	100			0951	2.6	80			1002	3.0	90			0700	3.0	90			1013	3.6	110			0356	2.6	80	
	1319	2.0	60			1404	2.0	60			1421	1.6	50			1426	1.6	50			1519	2.0	60			0602	2.6	80	
	2245	3.9	120			1917	3.6	110			2313	4.3	130			2002	3.6	110			1526*	1.3	40			1039	3.6	110	
2 Th	0802	2.6	80		17 F	0313	3.3	100		2 Sa	0613	2.6	80		17 Su	0047	3.0	90		2 Tu	0015	3.6	110		17 W	0556	2.3	70	
	1051	3.0	90			0728	2.6	80			1045	3.3	100			0313	3.3	100			0504	2.3	70			1126	3.9	120	
	1453	2.0	60			1041	3.3	100			1524	1.6	50			0641	2.6	80			1054	3.9	120			1623	1.6	50	
	2351	4.6	140			1511	2.0	60			1521*	1.6	50			1034	3.6	110			1613	2.0	60			2353	3.3	100	
3 F	0656	2.6	80		18 Sa	0708	2.6	80		3 Su	0004	4.6	140		18 M	0632	2.6	80		3 W	0053	3.6	110		18 Th	0606	2.0	60	
	1136	3.3	100			1117	3.6	110			0615	2.3	70			1113	3.9	120			0541	1.6	50			1217	4.3	130	
	1728	1.6	50			1617	1.6	50			1113	3.6	110			1617	1.3	40			1138	3.9	120			1726	1.6	50	
						2332	3.9	120			1630	1.6	50			2324	3.9	120			1715	2.0	60						
4 Sa	0038	4.9	150		19 Su	0700	2.3	70		4 M	0047	4.6	140		19 Tu	0626	2.3	70		4 Th	0117	3.9	120		19 F	0058	3.6	110	
	0658	2.3	70			1156	4.3	130			0615	2.0	60			1156	4.3	130			0619	1.3	40			0634	1.3	40	
	1208	3.6	110			1715	1.3	40			1143	3.9	120			1709	1.3	40			1224	4.3	130			1313	4.6	140	
	1834	1.3	40								1732	1.6	50								1824	2.0	60			1836	1.6	50	
5 Su	0113	4.9	150		20 M	0015	4.3	130		5 Tu	0113	4.6	140		20 W	0019	3.9	120		5 F	0139	3.9	120		20 Sa	0139	3.9	120	
	0706	2.0	60			0654	2.0	60			0624	1.6	50			0630	1.6	50			0700	1.0	30			0711	1.0	30	
	1238	4.3	130			1234	4.6	140			1211	4.3	130			1238	4.6	140			1311	4.6	140			1411	4.9	150	
	1911	1.0	30			1804	1.0	30			1824	1.6	50			1804	1.3	40			1926	2.0	60			1947	1.6	50	
6 M	0147	5.2	160		21 Tu	0053	4.6	140		6 W	0138	4.6	140		21 Th	0058	4.3	130		6 Sa	0200	4.3	130		21 Su	0209	3.9	120	
	0715	1.6	50			0702	1.6	50			0651	1.3	40			0649	1.3	40			0743	0.7	20			0756	0.7	20	
	1300	4.6	140			1308	4.9	150			1249	4.6	140			1319	4.9	150			1358	4.6	140			1509	4.9	150	
	1934	1.0	30			1851	0.7	20			1911	1.6	50			1858	1.0	30			2015	2.0	60			2045	1.3	40	
7 Tu	0209	4.9	150		22 W	0124	4.9	150		7 Th	0154	4.6	140		22 F	0130	4.3	130		7 Su	0219	4.3	130		22 M	0232	3.9	120	
	0734	1.3	40			0721	1.3	40			0723	1.0	30			0721	1.0	30			0824	0.3	10			0847	0.3	10	
	1323	4.9	150			1347	5.2	160			1324	4.9	150			1404	4.9	150			1441	4.6	140			1604	5.2	160	
	2002	1.0	30			1932	0.7	20			1954	1.6	50			1951	1.0	30			2056	2.0	60			2134	1.3	40	
8 W	0228	4.9	150		23 Th	0153	4.9	150		8 F	0209	4.6	140		23 Sa	0156	4.3	130		8 M	0241	4.3	130		23 Tu	0253	3.9	120	
	0800	1.0	30			0749	1.3	40			0802	0.7	20			0800	1.0	30			0911	0.3	10			0939	0.3	10	
	1353	5.2	160			1421	5.2	160			1404	4.9	150			1453	5.2	160			1517	4.6	140			1653	5.2	160	
	2030	1.0	30			2013	0.7	20			2034	1.6	50			2043	1.3	40			2126	2.0	60			2215	1.3	40	
9 Th	0241	4.9	150		24 F	0215	4.9	150		9 Sa	0228	4.6	140		24 Su	0217	4.3	130		9 Tu	0258	4.3	130		24 W	0311	4.3	130	
	0836	1.0	30			0823	1.0	30			0847	0.7	20			0849	0.7	20			1000	0.7	20			1030	0.3	10	
	1419	5.2	160			1456	5.2	160			1445	4.9	150			1541	5.2	160			1554	4.6	140			1738	4.9	150	
	2104	1.0	30			2058	0.7	20			2109	1.6	50			2132	1.3	40			2154	2.0	60			2254	1.6	50	
10 F	0254	4.6	140		25 Sa	0236	4.6	140		10 Su	0249	4.3	130		25 M	0243	4.3	130		10 W	0311	4.3	130		25 Th	0338	4.3	130	
	0911	0.7	20			0902	1.0	30			0932	0.7	20			0941	0.7	20			1049	0.7	20			1115	0.3	10	
	1456	5.2	160			1530	5.2	160			1519	4.9	150			1634	4.9	150			1628	4.6	140			1813	4.6	140	
	2138	1.3	40			2141	1.0	30			2145	2.0	60			2217	1.6	50			2213	2.0	60			2324	1.6	50	
11 Sa	0308	4.6	140		26 Su	0258	4.6	140		11 M	0302	4.3	130		26 Tu	0308	4.3	130		11 Th	0326	3.9	120		26 F	0402	3.9	120	
	0954	0.7	20			0949	1.0	30			1019	1.0	30			1038	0.7	20			1134	1.0	30			1158	0.7	20	
	1528	5.2	160			1608	5.2	160			1600	4.9	150			1730	4.9	150			1704	4.6	140			1830	4.3	130	
	2206	1.6	50			2223	1.3	40			2206	2.0	60			2302	2.0	60			2234	2.0	60			2358	2.0	60	
12 Su	0324	4.3	130		27 M	0321	4.3	130		12 Tu	0315	4.3	130		27 W	0338	3.9	120		12 F	0343	3.9	120		27 Sa	0430	3.9	120	
	1039	1.0	30			1038	1.0	30			1106	1.0	30			1130	0.7	20			1217	1.0	30			1238	1.0	30	
	1602	4.9	150			1653	4.9	150			1638	4.6	140			1830	4.6	140			1743	4.3	130			1834	3.6	110	
	2230	2.0	60			2306	2.0	60			2223	2.3	70			2347	2.3	70			2256	2.0	60						
13 M	0341	4.3	130		28 Tu	0349	3.9	120		13 W	0324	3.9	120		28 Th	0402	3.6	110		13 Sa	0356	3.6	110		28 Su	0030	2.3	70	
	1123	1.3	40			1130	1.3	40			1156	1.3	40			1217	1.0	30			1302	1.0	30			0502	3.6	110	
	1643	4.6	140			1749	4.3	130			1713	4.3	130			1939	4.3	130			1821	3.9	120			1309	1.3	40	
	2234	2.3	70			2358	2.3	70			2234	2.3	70								2323	2.3	70			1847	3.3	100	
14 Tu	0349	3.9	120		29 W	0																							

Santos, Brazil, 2009

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 W	0006	3.0	90		16 Th	0223	2.3	70		1 Sa	0117	3.0	90		16 Su	0111	3.0	90		1 Tu	0134	3.9	120		16 W	0136	3.9	120	
	0354	2.3	70			0406	2.3	70			0600	1.3	40			0651	1.0	30			0702	0.0	0			0743	0.0	0	
	1013	3.3	100			1115	3.6	110			1300	3.6	110			1328	4.6	140			1332	3.9	120			1428	4.9	150	
	1532	2.3	70			1554	2.0	60			2104	2.3	70			1949	1.6	50			1953	1.3	40			2009	1.0	30	
	1900*	3.0	90			2026*	3.0	90																					
2 Th	0053	3.0	90		17 F	0047	2.6	80		2 Su	0141	3.3	100		17 M	0145	3.6	110		2 W	0158	4.3	130		17 Th	0154	4.3	130	
	0511	1.6	50			0606	2.0	60			0643	0.7	20			0726	0.3	10			0738	-0.3	-10			0811	-0.3	-10	
	1130	3.6	110			1223	3.9	120			1328	3.9	120			1415	4.9	150			1400	4.3	130			1458	4.6	140	
	1645	2.3	70			1715	2.0	60			2028	2.0	60			2019	1.3	40			2013	1.0	30			2034	0.7	20	
	1911*	2.6	80																										
3 F	0119	3.3	100		18 Sa	0121	3.3	100		3 M	0200	3.9	120		18 Tu	0209	3.9	120		3 Th	0223	4.6	140		18 F	0211	4.6	140	
	0604	1.3	40			0641	1.3	40			0721	0.3	10			0802	0.0	0			0811	-0.3	-10			0841	-0.3	-10	
	1232	3.9	120			1326	4.3	130			1358	4.3	130			1458	4.9	150			1428	4.6	140			1517	4.3	130	
	1809	2.3	70			1858	2.0	60			2013	1.6	50			2045	1.0	30			2041	1.0	30			2100	0.3	10	
4 Sa	0145	3.6	110		19 Su	0156	3.6	110		4 Tu	0221	4.3	130		19 W	0232	4.3	130		4 F	0249	4.6	140		19 Sa	0230	4.6	140	
	0651	0.7	20			0719	0.7	20			0800	0.0	0			0838	-0.3	-10			0851	-0.3	-10			0911	0.0	0	
	1323	3.9	120			1423	4.6	140			1426	4.3	130			1538	4.9	150			1456	4.6	140			1526	3.9	120	
	1926	2.3	70			2011	1.6	50			2036	1.3	40			2111	0.7	20			2109	0.7	20			2132	0.3	10	
5 Su	0206	3.9	120		20 M	0224	3.9	120		5 W	0245	4.3	130		20 Th	0245	4.6	140		5 Sa	0309	4.6	140		20 Su	0256	4.9	150	
	0730	0.3	10			0804	0.3	10			0838	-0.3	-10			0913	-0.3	-10			0926	-0.3	-10			0945	0.3	10	
	1404	4.3	130			1515	4.9	150			1458	4.6	140			1606	4.9	150			1521	4.6	140			1536	3.9	120	
	2011	2.0	60			2056	1.3	40			2104	1.3	40			2139	0.7	20			2136	0.7	20			2204	0.3	10	
6 M	0226	3.9	120		21 Tu	0247	3.9	120		6 Th	0304	4.6	140		21 F	0258	4.6	140		6 Su	0334	4.6	140		21 M	0321	4.6	140	
	0811	0.3	10			0847	0.0	0			0917	-0.3	-10			0949	-0.3	-10			1002	0.0	0			1013	0.7	20	
	1441	4.6	140			1600	5.2	160			1524	4.6	140			1624	4.6	140			1547	4.3	130			1551	3.6	110	
	2047	1.6	50			2132	1.0	30			2132	1.0	30			2206	0.7	20			2200	0.7	20			2241	0.3	10	
7 Tu	0247	4.3	130		22 W	0302	4.3	130		7 F	0323	4.6	140		22 Sa	0313	4.6	140		7 M	0356	4.6	140		22 Tu	0354	4.6	140	
	0856	0.0	0			0932	-0.3	-10			0958	-0.3	-10			1021	0.0	0			1039	0.3	10			1047	1.3	40	
	1511	4.6	140			1641	5.2	160			1554	4.6	140			1624	4.3	130			1608	3.9	120			1602	3.6	110	
	2115	1.6	50			2204	1.0	30			2156	1.0	30			2236	0.7	20			2224	0.7	20			2315	0.7	20	
8 W	0304	4.3	130		23 Th	0313	4.3	130		8 Sa	0345	4.6	140		23 Su	0341	4.6	140		8 Tu	0419	4.3	130		23 W	0424	4.3	130	
	0941	0.0	0			1013	0.0	0			1036	0.0	0			1054	0.3	10			1115	0.7	20			1102	1.6	50	
	1545	4.6	140			1711	4.9	150			1617	4.6	140			1634	3.9	120			1636	3.9	120			1615	3.3	100	
	2143	1.6	50			2234	1.0	30			2217	1.0	30			2302	0.7	20			2253	1.0	30			2358	1.0	30	
9 Th	0321	4.3	130		24 F	0332	4.6	140		9 Su	0404	4.3	130		24 M	0406	4.6	140		9 W	0453	3.9	120		24 Th	0502	3.6	110	
	1023	0.3	10			1054	0.0	0			1111	0.3	10			1124	1.0	30			1158	1.0	30			0932	2.0	60	
	1613	4.6	140			1724	4.3	130			1647	4.3	130			1647	3.6	110			1700	3.6	110			1619	3.0	90	
	2206	1.6	50			2300	1.0	30			2238	1.0	30			2336	1.0	30			2326	1.0	30						
10 F	0341	4.3	130		25 Sa	0356	4.6	140		10 M	0428	4.3	130		25 Tu	0438	4.3	130		10 Th	0528	3.3	100		25 F	0053	1.3	40	
	1106	0.3	10			1126	0.3	10			1153	0.7	20			1154	1.6	50			1254	1.6	50			0549	3.0	90	
	1647	4.6	140			1723	3.9	120			1711	3.9	120			1658	3.3	100			1726	3.0	90			0941	2.3	70	
	2226	1.6	50			2328	1.3	40			2258	1.3	40													1613	3.0	90	
11 Sa	0402	4.3	130		26 Su	0419	4.3	130		11 Tu	0456	3.9	120		26 W	0004	1.3	40		11 F	0015	1.3	40		26 Sa	0204	1.3	40	
	1149	0.7	20			1200	1.0	30			1230	1.0	30			1223	2.0	60			1406	2.0	60			0711	2.6	80	
	1715	4.3	130			1732	3.6	110			1741	3.6	110			1704	3.3	100			1751	2.6	80			0947	2.3	70	
	2249	1.6	50			2356	1.3	40			2321	1.3	40													1558	2.6	80	
																										2039*	2.0	60	
12 Su	0423	3.9	120		27 M	0451	4.3	130		12 W	0528	3.3	100		27 Th	0054	1.6	50		12 Sa	0202	1.6	50		27 Su	0341	1.3	40	
	1226	0.7	20			1236	1.3	40			1315	1.3	40			0554	3.3	100			1132	3.6	110			1			

Buenos Aires, Argentina, 2009

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 W	0209	2.9	88		16 Th	0023	2.7	83		1 Sa	0328	3.3	102		16 Su	0126	3.7	113		1 Tu	0454	3.4	105		16 W	0327	4.4	133	
	0910	0.7	21			0725	1.0	29			1052	1.1	34			0924	1.1	35			1239	1.6	50			1153	1.4	43	
	1524	3.7	114			1330	3.3	100			1654	2.9	89			1443	3.1	96			1811	2.3	69			1629	2.7	82	
	2214	1.6	48			1950	1.6	48			2237	1.8	54			2058	1.7	51			2310	1.8	54			2306	1.5	47	
2 Th	0307	3.0	91		17 F	0105	2.9	89		2 Su	0429	3.3	102		17 M	0224	3.9	120		2 W	0555	3.4	105		17 Th	0446	4.4	135	
	1013	0.8	24			0822	1.0	30			1156	1.3	39			1033	1.2	36			1343	1.6	50			1304	1.4	43	
	1627	3.5	107			1419	3.3	100			1757	2.7	82			1542	3.0	91			1900	2.2	67			1741	2.7	82	
	2259	1.7	51			2036	1.6	50			2329	1.8	54			2206	1.7	51											
3 F	0407	3.1	94		18 Sa	0154	3.2	97		3 M	0531	3.4	103		18 Tu	0328	4.1	126		3 Th	0005	1.7	52		18 F	0019	1.4	44	
	1116	1.0	29			0927	1.0	31			1301	1.4	43			1145	1.2	36			0644	3.5	106			0608	4.5	137	
	1728	3.3	100			1512	3.3	100			1856	2.5	77			1645	2.9	87			1424	1.6	49			1409	1.4	44	
	2343	1.7	52			2132	1.7	52							2318	1.6	49			1927	2.2	68		●	1845	2.8	85		
4 Sa	0509	3.2	98		19 Su	0249	3.5	106		4 Tu	0021	1.7	52		19 W	0438	4.3	131		4 F	0058	1.6	49		19 Sa	0130	1.3	40	
	1220	1.1	34			1036	1.0	32			0625	3.4	103			1259	1.2	36			0722	3.5	107			0721	4.6	139	
	1827	3.1	94			1609	3.2	98			1401	1.4	44			1754	2.8	84		○	1457	1.6	48			1505	1.4	44	
						2237	1.7	53			1942	2.4	73								1943	2.3	71			1941	3.0	91	
5 Su	0027	1.7	52		20 M	0348	3.8	115		5 W	0112	1.6	50		20 Th	0028	1.5	46		5 Sa	0145	1.5	46		20 Su	0238	1.2	37	
	0605	3.3	101			1147	1.0	32			0710	3.4	103			0553	4.4	134			0757	3.6	109			0825	4.5	138	
	1322	1.2	38			1709	3.1	95			1447	1.5	45			1412	1.2	37			1527	1.6	48			1553	1.5	46	
	1920	2.9	89			2343	1.7	51		○	2011	2.3	71		●	1859	2.8	84			2003	2.5	76			2029	3.2	98	
6 M	0110	1.6	50		21 Tu	0450	4.0	123		6 Th	0156	1.5	47		21 F	0138	1.3	41		6 Su	0230	1.4	44		21 M	0341	1.1	35	
	0652	3.4	103			1259	1.0	31			0746	3.4	104			0709	4.5	137			0831	3.6	110			0924	4.4	134	
	1418	1.3	41		●	1811	3.0	91			1523	1.5	45			1518	1.2	37			1556	1.6	48			1634	1.6	49	
	2004	2.8	84								2028	2.3	70			1958	2.8	85			2031	2.7	82			2116	3.4	105	
7 Tu	0152	1.6	48		22 W	0048	1.6	48		7 F	0236	1.4	44		22 Sa	0246	1.2	36		7 M	0315	1.4	42		22 Tu	0439	1.1	34	
	0731	3.4	105			0555	4.3	130			0821	3.4	104			0822	4.5	137			0905	3.6	110			1021	4.2	128	
	1505	1.4	43			1412	1.0	31			1556	1.5	45			1616	1.2	38			1623	1.6	48			1709	1.7	51	
	2037	2.6	79			1914	2.9	88			2042	2.3	71			2051	2.9	89			2103	2.9	88			2203	3.6	111	
8 W	0232	1.5	46		23 Th	0152	1.4	43		8 Sa	0311	1.3	41		23 Su	0351	1.0	31		8 Tu	0401	1.3	41		23 W	0533	1.1	35	
	0806	3.4	105			0703	4.4	134			0856	3.4	104			0933	4.4	134			0939	3.6	110			1116	3.9	120	
	1544	1.4	44			1524	1.0	32			1627	1.4	44			1707	1.3	41			1648	1.6	49			1740	1.7	52	
	2101	2.5	75			2015	2.8	86			2104	2.4	74			2142	3.1	93			2138	3.1	94			2251	3.8	116	
9 Th	0309	1.4	44		24 F	0256	1.2	38		9 Su	0344	1.2	38		24 M	0451	0.9	27		9 W	0448	1.3	40		24 Th	0624	1.2	38	
	0839	3.4	105			0816	4.4	135			0933	3.4	104			1040	4.3	130			1018	3.6	109			1207	3.7	112	
	1618	1.4	44			1629	1.0	32			1657	1.4	44			1750	1.4	44			1714	1.6	49			1809	1.7	52	
	2119	2.4	73			2113	2.8	85			2133	2.5	77			2232	3.2	99			2212	3.3	101			2340	3.9	119	
10 F	0342	1.3	41		25 Sa	0359	1.0	32		10 M	0419	1.2	36		25 Tu	0549	0.8	25		10 Th	0535	1.3	40		25 F	0713	1.4	42	
	0916	3.4	104			0932	4.4	134			1010	3.4	103			1143	4.1	124			1059	3.5	107			1254	3.3	102	
	1651	1.4	43			1729	1.1	34			1723	1.4	44			1828	1.5	47			1743	1.6	49			1840	1.7	51	
	2138	2.4	72			2209	2.8	85			2207	2.7	82			2322	3.4	104			2247	3.5	108						
11 Sa	0411	1.2	38		26 Su	0501	0.9	26		11 Tu	0500	1.1	34		26 W	0644	0.8	25		11 F	0625	1.3	41		26 Sa	0030	3.9	119	
	0955	3.4	103			1048	4.3	131			1050	3.4	103			1241	3.8	117			1145	3.4	105			0801	1.5	46	
	1723	1.4	43			1824	1.2	36			1745	1.5	45			1900	1.6	50			1816	1.6	49			1338	3.1	93	
	2203	2.4	72			2303	2.9	88			2242	2.8	86								2327	3.8	115		○	1912	1.7	51	
12 Su	0438	1.1	35		27 M	0601	0.7	21		12 W	0543	1.1	33		27 Th	0012	3.5	108		12 Sa	0720	1.3	41		27 Su	0120	3.8	117	
	1035	3.3	101			1200	4.2	127			1131	3.4	103			0738	0.9	28			1235	3.3	101			0849	1.6	50	
	1753	1.4	43			1912	1.3	40			1811	1.5	46			1334	3.5	108			1856	1.6	50			1420	2.7	83	
	2234	2.4	73			2355	3.0	92			2317	3.0	92		○	1929	1.7	52								1944	1.7	52	
13 M	0510	1.0	32		28 Tu	0659	0.6	19		13 Th	0630	1.1	33		28 F	0103	3.6	111		13 Su	0014	4.0	121						

Buenos Aires, Argentina, 2009

Times and Heights of High and Low Waters

October				November				December															
Time	Height		Time	Height		Time	Height		Time	Height													
	h	m	ft	cm	h	m	ft	cm	h	m	ft	cm											
1 Th	0515	3.5	108	16 F	0509	4.5	138	1 Su	0600	3.9	118	16 M	0116	1.5	47	1 Tu	0547	4.0	123	16 W	0208	2.0	60
	1313	1.8	55		1302	1.6	49		1334	1.9	57		0712	4.4	133		1305	1.8	56		0734	3.8	117
	1743	2.1	64		1732	2.8	84		1800	2.6	80		1411	1.7	51		1800	3.2	99		1414	1.5	47
	2231	1.6	50										1921	3.5	106						2009	3.8	117
2 F	0607	3.6	110	17 Sa	0013	1.4	43	2 M	0001	1.6	50	17 Tu	0219	1.6	50	2 W	0044	1.8	56	17 Th	0308	2.1	65
	1350	1.8	54		0622	4.6	139		0638	3.9	120		0759	4.2	127		0628	4.0	122		0628	4.0	122
	1820	2.2	68		1356	1.6	49		1402	1.8	56		1447	1.7	51		1341	1.7	53		1341	1.7	53
	2334	1.6	49		1835	3.0	90		1842	3.0	91		2006	3.7	114		1845	3.7	112		1845	3.7	112
3 Sa	0648	3.7	113	18 Su	0124	1.4	42	3 Tu	0113	1.7	51	18 W	0317	1.8	54	3 Th	0156	1.9	57	18 F	0401	2.2	68
	1421	1.7	53		0724	4.5	138		0714	4.0	121		0841	3.9	120		0711	3.9	120		0711	3.9	120
	1851	2.5	75		1442	1.6	50		1429	1.8	54		1520	1.6	49		1422	1.6	49		1422	1.6	49
					1927	3.2	99		1920	3.3	102		2046	3.9	120		1932	4.1	124		1932	4.1	124
4 Su	0042	1.6	48	19 M	0230	1.4	42	4 W	0220	1.7	52	19 Th	0411	1.9	57	4 F	0305	1.9	57	19 Sa	0446	2.3	69
	0724	3.8	115		0818	4.4	135		0750	3.9	120		0918	3.6	111		0757	3.7	114		0757	3.7	114
	1450	1.7	52		1522	1.7	51		1501	1.7	53		1553	1.6	48		1505	1.5	45		1505	1.5	45
	1923	2.7	83		2012	3.5	107		1959	3.7	113		2127	4.1	124		2020	4.4	133		2020	4.4	133
5 M	0148	1.5	47	20 Tu	0330	1.4	43	5 Th	0321	1.7	52	20 F	0459	2.0	60	5 Sa	0412	1.9	57	20 Su	0527	2.3	69
	0757	3.8	117		0907	4.2	129		0830	3.8	117		0954	3.4	103		0846	3.5	107		0928	2.9	87
	1517	1.7	52		1557	1.7	52		1536	1.7	51		1625	1.5	46		1551	1.4	42		1551	1.4	42
	1957	3.0	92		2057	3.8	115		2037	4.0	122		2209	4.1	125		2117	4.6	140		2117	4.6	140
6 Tu	0247	1.5	47	21 W	0425	1.5	45	6 F	0421	1.7	52	21 Sa	0542	2.0	62	6 Su	0520	1.8	56	21 M	0602	2.2	68
	0830	3.8	117		0954	4.0	121		0914	3.7	112		1027	3.1	94		0941	3.2	99		0949	2.7	82
	1543	1.7	52		1628	1.7	52		1615	1.6	49		1654	1.5	45		1641	1.2	38		1645	1.2	37
	2031	3.3	101		2141	3.9	120		2122	4.3	130		2252	4.1	125		2223	4.8	145		2223	4.8	145
7 W	0341	1.5	47	22 Th	0516	1.6	48	7 Sa	0521	1.7	52	22 Su	0622	2.1	63	7 M	0628	1.8	55	22 Tu	0638	2.2	66
	0906	3.8	116		1040	3.7	113		1005	3.4	105		1057	2.8	86		1040	3.0	91		1040	3.0	91
	1612	1.7	52		1659	1.7	51		1658	1.5	46		1742	1.4	43		1733	1.1	35		1733	1.1	35
	2106	3.6	109		2226	4.0	123		2214	4.4	135		2337	4.1	124		2336	4.9	148		2336	4.9	148
8 Th	0434	1.5	47	23 F	0603	1.7	51	8 Su	0625	1.7	52	23 M	0701	2.1	63	8 Tu	0735	1.8	54	23 W	0001	4.1	125
	0946	3.7	113		1123	3.4	104		1102	3.2	98		1119	2.6	79		1139	2.8	86		0716	2.1	65
	1643	1.7	51		1729	1.6	50		1744	1.4	44		1742	1.3	41		1829	1.1	33		1039	2.5	76
	2142	3.8	116		2312	4.1	124		2317	4.6	139		2377	4.1	124		2336	4.9	148		1726	1.0	32
9 F	0527	1.5	47	24 Sa	0647	1.8	54	9 M	0731	1.7	52	24 Tu	0022	4.0	122	9 W	0047	4.9	149	24 Th	0043	4.1	124
	1031	3.6	109		1204	3.1	95		1159	3.0	91		0743	2.1	63		0839	1.7	53		0756	2.1	65
	1719	1.6	50		1759	1.6	49		1836	1.4	42		1133	2.4	74		1238	2.7	82		1115	2.4	74
	2223	4.0	123										1801	1.3	39		1929	1.1	33		1800	1.0	32
10 Sa	0623	1.5	47	25 Su	0000	4.0	123	10 Tu	0027	4.6	141	25 W	0110	3.9	120	10 Th	0154	4.9	149	25 F	0124	4.1	124
	1123	3.4	103		0728	1.8	56		0839	1.7	52		0832	2.1	63		0939	1.7	53		0835	2.1	65
	1759	1.6	49		1240	2.8	85		1257	2.8	85		1153	2.3	70		1338	2.7	81		1158	2.4	74
	2312	4.2	129		1827	1.5	47		1934	1.3	41		1829	1.2	37		2034	1.1	35		1842	1.1	35
11 Su	0724	1.6	48	26 M	0049	3.9	120	11 W	0140	4.7	142	26 Th	0158	3.9	119	11 F	0259	4.8	146	26 Sa	0205	4.1	124
	1216	3.2	97		0813	1.9	58		0947	1.7	51		0931	2.1	63		1037	1.7	53		0917	2.1	65
	1844	1.6	48		1311	2.5	77		1355	2.7	81		1229	2.2	68		1444	2.7	83		1251	2.5	75
					1851	1.5	46		2039	1.3	41		1911	1.2	38		2140	1.2	38		1932	1.3	39
12 M	0010	4.4	133	27 Tu	0140	3.8	117	12 Th	0252	4.7	142	27 F	0247	3.9	118	12 Sa	0403	4.7	142	27 Su	0245	4.1	124
	0830	1.6	49		0905	2.0	60		1052	1.7	51		1034	2.1	63		1129	1.7	53		0958	2.1	65
	1311	3.0	91		1331	2.3	70		1459	2.6	80		1328	2.2	68		1600	2.9	87		1355	2.6	78
	1937	1.6	48		1916	1.5	45		2147	1.3	41		2003	1.3	41		2247	1.4	43		2032	1.5	46
13 Tu	0116	4.4	135	28 W	0233	3.7	114	13 F	0406	4.6	141	28 Sa	0335	3.9	119	13 Su	0504	4.5	137	28 M	0327	4.1	125
	0939	1.6	49		1012	2.0	61		1152	1.7	51		1125	2.0	62		1216	1.7	53		1041	2.1	63
	1408	2.8	86		1339	2.1	65		1612	2.7	82		1446	2.3	70		1720	3.1	94		1505	2.8	85
	2041	1.5	47		1952	1.5	45		2257	1.4	42		2105	1.5	45		2356	1.6	49		2142	1.7	52
14 W	0229	4.5	136	29 Th	0330	3.7	113	14 Sa	0516	4.6	139	29 Su	0421	3.9	120	14 M	0600	4.3	131	29 Tu	0412	4.1	125
	1051	1.6	49		1128	2.0	61		1245	1.7	51		1202	2.0	61		1258	1.7	52		1126	2.0	60
	1510	2.7	82		1429	2.1	64		1727	2.9	88		1604	2.5	76		1829	3.4	103		1612	3.1	95
	2150	1.5	46		2042	1.5	45						2215	1.6	50						2301	1.9	57
15 Th	0348	4.5	137	30 F	0426	3.7	113	15 Su	0007	1.4	44	30 M	0505	4.0	122	15 Tu	0104	1.8	55	30 W	0458	4.0	123
	1159	1.6	49		1226	1.9	59		0618	4.5	137		1233	1.9	59		0651	4.1	124		1213	1.8	55
	1620	2.6	80		1557	2.1	65		1331	1.7	51		1708	2.9	87		1337	1.6	49		1716	3.5	107
	2302	1.4	44		2142	1.5	47		1829	3.2	97		2329	1.7	53		1923	3.6	111				
			31 Sa	0517	3.8	115										31 Th	0020	2.0	60				

Puerto Ingeniero White, Argentina, 2009

Times and Heights of High and Low Waters

January				February				March																					
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height																
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm															
1 Th	0352	3.6	109		16 F	0400	3.2	98		1 Su	0437	2.9	87		16 M	0536	1.0	31		1 Su	0335	2.9	89		16 M	0421	0.9	28	
	0949	13.9	424			1111	13.2	403			1040	13.9	424			1232	14.5	443			0941	13.5	411			1116	14.3	435	
	1615	1.6	49			1637	2.0	62			1649	2.0	61			1751	2.0	62			1543	2.7	82			1637	2.1	64	
	2217	14.4	438			2317	14.1	429			2229	14.9	455			1839	2.4	74			2124	14.6	444			2305	15.4	468	
2 F	0426	3.5	106		17 Sa	0457	2.5	75		2 M	0518	2.3	70		17 Tu	0034	15.4	470		2 M	0413	2.4	74		17 Tu	0512	0.4	13	
	1022	13.9	425			1210	13.8	422			1123	14.2	432			0630	0.6	19			1018	13.7	417			1157	14.6	444	
	1646	1.6	50			1728	1.9	57			1726	2.0	60			1317	14.7	448			1619	2.5	77			1721	2.3	69	
	2238	14.5	443			2303	15.2	464			2303	15.2	464			1839	2.4	74			2151	15.0	457			2353	15.5	471	
3 Sa	0501	3.2	97		18 Su	0012	14.7	447		3 Tu	0603	1.8	55		18 W	0129	15.6	474		3 Tu	0455	1.9	57		18 W	0601	0.2	7	
	1103	14.1	431			0556	1.8	56			1208	14.3	437			0723	0.5	14			1058	13.9	423			1239	14.6	446	
	1720	1.6	50			1302	14.4	438			1806	2.1	65			1404	14.6	446			1657	2.4	74			1807	2.7	82	
	2306	14.8	451			1818	2.0	60			2344	15.4	468			1929	3.0	92			2225	15.3	466			2305	15.4	468	
4 Su	0541	2.8	84		19 M	0109	15.1	460		4 W	0652	1.4	44		19 Th	0222	15.5	472		4 W	0541	1.4	44		19 Th	0044	15.4	468	
	1148	14.4	438			0655	1.3	40			1257	14.3	436			0816	0.6	17			1143	14.0	426			0650	0.3	9	
	1756	1.7	52			1352	14.7	447			1851	2.6	79			1451	14.4	439			1739	2.6	78			1322	14.5	441	
	2341	15.0	458			1910	2.3	71			2024	3.7	113			2024	3.7	113			2306	15.3	467			1854	3.3	100	
5 M	0626	2.3	71		20 Tu	0207	15.4	470		5 Th	0031	15.2	463		20 F	0313	15.4	468		5 Th	0630	1.2	38		20 F	0136	15.2	462	
	1236	14.5	443			0753	1.0	30			0744	1.4	42			0908	0.9	26			1231	13.9	423			0738	0.6	18	
	1836	1.9	58			1442	14.7	448			1348	13.9	425			1541	14.1	429			1826	3.0	92			1406	14.2	433	
						2004	2.9	88			1940	3.3	102			2124	4.2	129			2356	15.0	456			1945	3.9	120	
6 Tu	0021	15.1	460		21 W	0302	15.6	474		6 F	0125	14.8	450		21 Sa	0402	15.1	461		6 F	0723	1.3	40		21 Sa	0226	14.9	454	
	0716	2.0	60			0850	0.8	25			0839	1.6	48			1000	1.2	38			1325	13.5	412			0826	1.0	32	
	1325	14.5	443			1532	14.6	444			1443	13.4	407			1634	13.8	422			1918	3.7	114			1453	13.9	424	
	1920	2.4	73			2102	3.5	106			2035	4.3	130			2225	4.5	137								2040	4.5	136	
7 W	0110	15.0	457		22 Th	0355	15.6	475		7 Sa	0227	14.2	433		22 Su	0448	14.8	452		7 Sa	0057	14.3	437		22 Su	0314	14.7	447	
	0808	1.8	54			0945	0.9	26			0937	2.0	62			1051	1.6	50			0818	1.7	52			0914	1.6	49	
	1417	14.3	435			1624	14.3	436			1545	12.7	386			1729	13.7	419			1427	13.0	395			1544	13.7	417	
	2008	3.1	96			2203	3.9	120			2139	5.1	156			2324	4.5	137			2018	4.6	140			2141	4.7	144	
8 Th	0202	14.7	448		23 F	0444	15.5	471		8 Su	0331	13.6	416		23 M	0533	14.6	444		8 Su	0217	13.6	416		23 M	0401	14.4	440	
	0904	1.8	55			1039	1.0	30			1038	2.6	79			1143	2.0	61			0918	2.3	70			1004	2.1	65	
	1510	13.7	419			1718	14.1	430			1657	12.1	369			1823	13.8	421			1541	12.4	378			1639	13.6	414	
	2102	4.0	123			2304	4.1	126			2249	5.6	170								2128	5.2	160			2241	4.7	142	
9 F	0258	14.3	437		24 Sa	0531	15.2	464		9 M	0435	13.1	400		24 Tu	0017	4.3	131		9 M	0346	13.1	399		24 Tu	0446	14.2	434	
	1001	2.0	62			1131	1.2	36			1142	3.1	94			0618	14.3	435			1021	3.0	90			1055	2.6	79	
	1606	13.1	398			1812	14.0	427			1824	11.9	363			1233	2.3	69			1710	12.2	371			1733	13.7	417	
	2202	4.9	149								2359	5.5	169			1912	13.9	425			2243	5.4	166			2336	4.4	133	
10 Sa	0353	13.9	425		25 Su	0000	4.1	126		10 Tu	0538	12.7	387		25 W	0104	4.1	124		10 Tu	0509	12.7	387		25 W	0534	14.0	427	
	1100	2.4	73			0615	14.9	455			1245	3.3	100			0702	14.0	426			1127	3.4	104			1147	3.0	90	
	1708	12.4	378			1221	1.4	43			1943	12.2	371			1320	2.5	75			1834	12.4	379			1824	13.8	421	
	2307	5.4	166			1904	14.0	428								1954	14.0	428			2354	5.1	154						
11 Su	0444	13.5	413		26 M	0050	4.0	123		11 W	0102	5.1	154		26 Th	0146	3.8	117		11 W	0630	12.5	382		26 Th	0026	4.0	121	
	1201	2.8	84			0657	14.6	445			0653	12.4	379			0746	13.7	418			1232	3.5	108			0622	13.8	420	
	1818	12.0	365			1310	1.6	49			1345	3.2	98			1401	2.7	81			1937	12.9	394			1236	3.2	97	
						1952	14.1	431			2041	12.7	387			2028	14.1	429								1906	13.9	425	
12 M	0012	5.6	170		27 Tu	0136	3.9	119		12 Th	0200	4.3	131		27 F	0224	3.6	110		12 Th	0055	4.3	132		27 F	0110	3.6	109	
	0533	13.2	403			0739	14.3	435			0845	12.5	381			0828	13.5	412			0749	12.6	384			0710	13.5	413	
	1302	3.0	90			1355	1.8	54			1439	2.9	88			1437	2.8	84			1330	3.3	102			1320	3.4	103	
	1936	11.9	364			2033	14.2	433			2127	13.3	406			2048	14.1	429			2026	13.5	411			1937	14.0	428	
13 Tu	0113	5.3	161		28 W	0216	3.8	117		13 F	0254	3.4	104		28 Sa	0259	3.3	101		13 F	0150	3.4	105		28 Sa	0151	3.2	99	
	0623	13.0	395			0818	13.9	425			1001	13.0	395			0906	13.5	410			0855	12.9	394			0756	13.4	407	
	1400	2.9	89			1435	1.9	59			1529	2.5	75			1511	2.8	85			1421	3.0	91			1359	3.4	105	
	2044	12.2	373			2106	14.2	433			2209	14.0	427			2104	14.2	434											

Puerto Ingeniero White, Argentina, 2009

Times and Heights of High and Low Waters

April				May				June																					
Time		Height		Time		Height		Time		Height		Time		Height															
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm															
1 W	0433	1.6	50		16 Th	0531	0.1	4		1 F	0501	1.4	44		16 Sa	0542	0.5	15		1 M	0031	13.3	404		16 Tu	0618	1.2	37	
	1034	13.5	410			1159	14.5	442			1103	13.1	398			1154	14.3	436			0630	1.8	54			1215	14.4	440	
	1631	3.0	92			1735	3.1	93			1657	3.6	111			1745	3.7	114			1315	13.4	408			1840	3.5	108	
	2149	15.2	462			2355	15.1	459			2208	14.4	438			2353	14.6	445			1850	3.8	117						
2 Th	0520	1.3	41		17 F	0615	0.3	10		2 Sa	0553	1.4	44		17 Su	0620	0.8	25		2 Tu	0158	13.4	409		17 W	0046	14.5	442	
	1120	13.5	412			1237	14.4	438			1201	13.1	399			1226	14.2	433			0726	2.2	66			0655	1.5	47	
	1716	3.1	95			1818	3.6	109			1753	3.9	119			1828	4.0	122			1431	13.8	420			1255	14.5	443	
	2233	15.0	456			2355	15.1	459			2322	13.6	416			2000	3.6	111			2000	3.6	111			1928	3.3	101	
3 F	0611	1.3	39		18 Sa	0044	14.8	451		3 Su	0647	1.7	52		18 M	0040	14.4	440		3 W	0305	13.6	414		18 Th	0135	14.4	440	
	1212	13.4	409			0659	0.7	22			1312	13.0	397			0658	1.2	38			0825	2.7	82			0735	2.0	61	
	1806	3.5	108			1316	14.1	431			1856	4.3	130			1303	14.1	430			1541	14.3	437			1342	14.6	444	
	2329	14.4	439			1904	4.1	125			2007	4.5	136			1915	4.1	126			2111	3.2	98			2020	3.1	93	
4 Sa	0704	1.5	45		19 Su	0133	14.6	444		4 M	0147	13.2	402		19 Tu	0130	14.3	437		4 Th	0406	13.7	417		19 F	0226	14.2	433	
	1312	13.1	400			0742	1.2	37			0744	2.2	66			0737	1.7	53			0928	3.2	98			0820	2.6	80	
	1904	4.2	127			1358	13.9	423			1436	13.1	398			1347	14.0	428			1643	14.9	454			1435	14.5	443	
						1956	4.5	136			2007	4.5	136			2007	4.1	125			2217	2.6	80			2115	2.8	86	
5 Su	0052	13.6	415		20 M	0221	14.4	438		5 Tu	0313	13.2	402		20 W	0219	14.2	434		5 F	0507	13.6	416		20 Sa	0318	13.8	421	
	0801	2.0	60			0825	1.8	55			0845	2.8	84			0818	2.3	70			1033	3.5	107			0910	3.4	103	
	1426	12.8	389			1446	13.7	418			1557	13.4	408			1438	14.0	427			1737	15.4	468			1529	14.5	442	
	2011	4.8	145			2052	4.6	141			2122	4.3	130			2102	3.9	118			2317	2.0	62			2211	2.7	81	
6 M	0253	13.1	400		21 Tu	0309	14.2	433		6 W	0421	13.3	404		21 Th	0310	14.1	429		6 Sa	0606	13.6	416		21 Su	0411	13.3	405	
	0902	2.6	79			0910	2.4	72			0950	3.3	100			0905	2.9	88			1135	3.6	110			1005	4.1	126	
	1554	12.6	385			1539	13.6	416			1706	13.9	425			1532	14.0	428			1826	15.6	476			1620	14.5	441	
	2126	5.0	153			2151	4.5	136			2233	3.7	113			2158	3.5	108								2308	2.6	79	
7 Tu	0419	12.9	394		22 W	0358	14.1	429		7 Th	0527	13.3	406		22 F	0401	13.8	422		7 Su	0010	1.5	46		22 M	0508	12.7	386	
	1007	3.2	98			0959	2.9	89			1056	3.6	109			0957	3.5	107			0703	13.7	418			1104	4.7	144	
	1718	12.9	393			1634	13.7	418			1804	14.5	442			1624	14.1	431			1230	3.5	106			1706	14.4	438	
	2241	4.8	145			2248	4.1	125			2336	3.0	90			2254	3.1	96			1909	15.7	478						
8 W	0533	12.9	392		23 Th	0446	13.9	423		8 F	0630	13.4	408		23 Sa	0454	13.5	410		8 M	0100	1.1	34		23 Tu	0004	2.6	80	
	1113	3.6	109			1051	3.4	104			1158	3.6	109			1052	4.1	124			0754	13.8	422			0607	12.1	370	
	1826	13.4	409			1724	13.9	423			1854	14.9	455			1712	14.2	434			1319	3.3	101			1203	5.0	153	
	2348	4.1	125			2340	3.6	111								2347	2.8	86			1949	15.6	476			1746	14.2	434	
9 Th	0643	12.9	394		24 F	0538	13.6	415		9 Sa	0031	2.2	68		24 Su	0548	13.1	398		9 Tu	0148	0.8	24		24 W	0100	2.6	80	
	1217	3.6	110			1144	3.8	115			0727	13.5	412			1147	4.4	135			0839	14.0	427			0709	11.8	361	
	1920	13.9	425			1808	14.0	427			1253	3.4	104			1752	14.3	436			1404	3.2	97			1259	5.1	154	
											1937	15.2	464			2026	15.5	471			2026	15.5	471			1825	14.1	431	
10 F	0046	3.3	100		25 Sa	0029	3.2	98		10 Su	0121	1.6	48		25 M	0038	2.6	79		10 W	0233	0.6	17		25 Th	0154	2.6	78	
	0746	13.1	399			0629	13.4	407			0818	13.7	418			0642	12.6	385			0918	14.2	432			0810	11.8	360	
	1313	3.4	103			1233	4.0	122			1341	3.1	96			1238	4.6	141			1445	3.1	96			1352	4.8	147	
	2003	14.4	440			1844	14.1	431			2015	15.4	469			1827	14.3	437			2100	15.3	465			1904	14.0	428	
11 Sa	0137	2.4	74		26 Su	0114	2.9	87		11 M	0208	1.0	31		26 Tu	0128	2.4	73		11 Th	0316	0.4	13		26 F	0247	2.4	73	
	0839	13.4	408			0719	13.1	398			0903	13.9	425			0736	12.4	377			0954	14.3	436			0906	12.0	367	
	1402	3.1	93			1318	4.1	125			1425	2.9	89			1327	4.6	141			1525	3.2	98			1444	4.5	136	
	2041	14.8	452			1912	14.2	434			2050	15.4	470			1858	14.4	439			2132	15.0	457			1953	13.8	422	
12 Su	0226	1.6	50		27 M	0158	2.5	77		12 Tu	0253	0.6	17		27 W	0216	2.2	68		12 F	0356	0.4	13		27 Sa	0338	2.1	65	
	0926	13.7	418			0806	12.9	392			0942	14.2	432			0826	12.3	374			1025	14.3	437			0959	12.5	380	
	1446	2.7	82			1400	4.1	124			1506	2.8	85			1414	4.5	136			1603	3.4	103			1538	4.0	123	
	2116	15.1	461			1937	14.4	440			2123	15.4	469			1929	14.5	442			2203	14.8	451			2056	13.5	412	
13 M	0313	1.0	29		28 Tu	0241	2.2	68		13 W	0338	0.3	9		28 Th	0305	2.0	62		13 Sa	0434	0.5	16		28 Su	0429	1.8	56	
	1007	14.1	429			0849	12.8	390			1018	14.3	437			0913	12.4	377			1051	14.3	437			1055	13.0	396	
	1529	2.5	75			1441	3.9	119			1547	2.9	87			1501	4.2	128			1640	3.6	109			1635	3.6	111	
	2151	15.3	467			2004	14.7																						

Puerto Ingeniero White, Argentina, 2009

Times and Heights of High and Low Waters

July				August				September																		
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height													
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm												
1 W	0144	13.9	423	16 Th	0011	14.7	448	1 Sa	0304	14.1	430	16 Su	0111	14.3	435	1 Tu	0416	13.5	411	16 W	0234	12.5	382			
	0705	2.0	62		0618	1.4	43		0831	3.1	93		0711	2.5	75		1002	4.0	123		0845	4.4	135			
	1411	14.6	444		1209	15.0	458		1538	15.7	478		1302	15.1	461		1642	15.3	465		1456	13.6	414	1456	13.6	414
	1945	2.6	79		1854	2.5	76		2121	1.4	42		2008	1.9	58		2236	2.0	61		2143	3.3	100	2143	3.3	100
2 Th	0242	14.0	427	17 F	0057	14.6	446	2 Su	0400	13.8	421	17 M	0201	13.6	415	2 W	0516	13.4	407	17 Th	0354	11.8	361			
	0801	2.6	78		0658	1.8	55		0933	3.6	110		0802	3.3	102		1105	4.1	124		0957	5.0	151			
	1514	15.1	460		1254	15.1	459		1631	15.7	480		1359	14.7	448		1729	15.1	459		1619	13.1	400	1619	13.1	400
	2050	2.2	66		1945	2.3	69		2218	1.4	44		2105	2.3	71		2332	2.2	68		2251	3.9	118	2251	3.9	118
3 F	0339	13.9	425	18 Sa	0146	14.3	437	3 M	0458	13.6	414	18 Tu	0258	12.8	389	3 Th	0614	13.5	410	18 F	0535	11.6	354			
	0902	3.1	94		0742	2.4	74		1037	3.9	118		0900	4.3	131		1201	3.9	119		1111	5.0	152			
	1612	15.5	473		1344	15.0	457		1720	15.7	478		1503	14.2	432		1816	14.9	453		1742	12.8	391	1742	12.8	391
	2152	1.8	55		2039	2.2	68		2314	1.5	46		2205	2.9	88		●	2359	4.1		125	●	2359	4.1	125	
4 Sa	0436	13.8	421	19 Su	0236	13.8	420	4 Tu	0558	13.5	412	19 W	0403	11.9	364	4 F	0025	2.4	72	19 Sa	0700	12.0	365			
	1005	3.5	107		0832	3.3	100		1138	3.9	119		1008	5.1	154		0706	13.7	417		1218	4.5	138			
	1706	15.8	481		1439	14.8	450		1807	15.5	472		1608	13.7	417		1250	3.6	111		1907	12.8	390	1907	12.8	390
	2250	1.5	46		2135	2.4	72		●	●	●		2310	3.4	104		○	1902	14.7		447	○	1902	14.7	447	
5 Su	0535	13.7	417	20 M	0332	13.0	397	5 W	0006	1.6	48	20 Th	0525	11.4	348	5 Sa	0114	2.4	72	20 Su	0103	3.9	120			
	1108	3.7	113		0928	4.2	128		0654	13.6	416		1119	5.3	163		0751	13.9	423		0759	12.5	382			
	1754	15.8	483		1535	14.5	442		1231	3.8	115		1711	13.3	404		1334	3.4	104		1317	3.8	116			
	2345	1.3	39		2234	2.6	80		○	1852	15.3		465	●	●		1945	14.5	442		2021	13.1	398			
6 M	0633	13.7	417	21 Tu	0431	12.3	374	6 Th	0058	1.5	47	21 F	0015	3.7	112	6 Su	0157	2.4	72	21 M	0157	3.5	107			
	1206	3.7	112		1030	4.9	150		0744	13.8	422		0659	11.4	348		0827	14.0	427		0843	13.2	401			
	1840	15.7	480		1629	14.2	432		1319	3.6	110		1226	5.1	156		1413	3.2	99		1411	3.0	90			
	●	2335	2.9		89	●	2335		2.9	89	1935		15.0	458	1819		13.0	395	2027		14.4	438	2119	13.5	410	
7 Tu	0036	1.1	34	22 W	0538	11.7	356	7 F	0146	1.5	46	22 Sa	0119	3.6	109	7 M	0233	2.4	73	22 Tu	0246	3.0	90			
	0726	13.8	421		1136	5.3	162		0828	14.1	429		0810	11.9	362		0854	14.0	427		0924	13.8	420			
	1257	3.6	109		1718	13.9	423		1402	3.5	106		1327	4.6	139		1449	3.1	94		1503	2.1	65			
	1921	15.6	474		2016	14.8	450		2016	14.8	450		1945	12.9	392		2103	14.2	434		2206	13.9	424			
8 W	0125	1.0	30	23 Th	0036	3.1	95	8 Sa	0228	1.5	46	23 Su	0214	3.2	98	8 Tu	0305	2.4	73	23 W	0331	2.4	73			
	0814	14.0	426		0655	11.5	349		0904	14.2	432		0901	12.5	382		0909	14.0	428		1003	14.4	439			
	1342	3.4	105		1239	5.2	160		1441	3.4	104		1423	3.8	115		1523	2.9	87		1554	1.4	42			
	2002	15.3	466		1806	13.6	414		2054	14.6	444		2118	13.1	400		2133	14.2	434		2249	14.3	437			
9 Th	0210	0.9	27	24 F	0135	3.1	93	9 Su	0305	1.5	47	24 M	0305	2.7	82	9 W	0335	2.3	71	24 Th	0415	2.0	61			
	0855	14.1	431		0809	11.6	354		0932	14.2	432		0943	13.3	404		0922	14.3	435		1047	14.9	453			
	1425	3.4	104		1337	4.9	149		1517	3.4	103		1517	2.9	89		1558	2.6	78		1645	0.8	25			
	2039	15.0	458		1858	13.4	407		2126	14.4	440		2220	13.6	414		2202	14.3	436		2330	14.6	446			
10 F	0253	0.9	26	25 Sa	0231	2.8	86	10 M	0338	1.6	49	25 Tu	0352	2.2	66	10 Th	0406	2.2	66	25 F	0500	1.9	57			
	0931	14.3	435		0907	12.1	369		0950	14.2	432		1028	14.0	426		0943	14.7	447		1137	15.2	462			
	1504	3.4	105		1433	4.3	132		1551	3.2	99		1611	2.1	65		1635	2.1	65		1736	0.6	17			
	2114	14.8	450		2006	13.2	402		2155	14.4	439		2311	14.1	429		2235	14.5	441		2235	14.5	441			
11 Sa	0332	0.9	27	26 Su	0322	2.4	74	11 Tu	0407	1.6	49	26 W	0438	1.8	54	11 F	0440	2.0	60	26 Sa	0012	14.7	449			
	1001	14.3	435		0957	12.7	388		1002	14.3	437		1116	14.6	445		1013	15.1	459		0546	2.1	63			
	1540	3.5	107		1528	3.6	111		1624	3.0	91		1706	1.5	46		1717	1.8	54		1231	15.3	466			
	2144	14.6	444		2208	13.3	404		2225	14.5	442		2358	14.4	440		○	2313	14.5		443	○	1826	0.6	17	
12 Su	0407	1.0	30	27 M	0411	2.0	61	12 W	0437	1.6	48	27 Th	0525	1.7	51	12 Sa	0517	1.9	59	27 Su	0057	14.6	445			
	1022	14.3	435		1047	13.5	410		1022	14.7	447		1210	15.1	459		1050	15.3	466		0634	2.5	77			
	1615	3.5	107		1625	3.0	91		1701	2.6	79		1801	1.1	33		1802	1.5	47		1326	15.3	465			
	2215	14.5	442		2326	13.7	417		2300	14.7	447		○	○	2355		14.4	440	1917		0.9	26				
13 M	0439	1.1	33	28 Tu	0500	1.7	52	13 Th	0510	1.5	45	28 F	0046	14.6	444	13 Su	0600	2.2	66	28 M	0143	14.3	435			
	1039	14.3	437		1141	14.1	430		1052	15.1	459		0613	1.9	58		1135	15.2	464		0726	3.1	96			
	1650	3.4	104		1723	2.4	73		1742	2.2	66		1308	15.4	468		1851	1.6	48		1420	15.2	462			
	2249	14.5	443		○	○	2340		14.8	450	1856		0.9	28	○		○	2008	1.3		41	2008	1.3	41		
14 Tu	0509	1.2	36	29 W	0023	14.0	428	14 F	0546	1.5	47	29 Sa	0134	14.5	441	14 M	0041	14.0	428	29 Tu	0233	13.9	423			
	1101	14.6	444		0549	1.6	50		1128	15.3	467		0704	2.4	73		0647	2.8	84		0822	3.7	113			
	1728	3.2	97		1241	14.7	447		1827	1.8	56		1405	15.5	473		1228	14.8	451		1511	15.0	457			
	2328	14.6	446		1823	1.9	59		○	○	1951		1.0	31	1951		1.0	31	1944		1.9	59	2059	1.9	59	
15 W	0542	1.2	38	30 Th	0118	14.3	435	15 Sa	0023	14.7	447	30 Su	0225	14.2	432	15 Tu	0133	13.4	407	30 W	0328	13.5	412			
	1132	14.8	451		0640	1.9	58		06																	

Puerto Ingeniero White, Argentina, 2009

Times and Heights of High and Low Waters

October				November				December																					
Time		Height		Time		Height		Time		Height		Time		Height															
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm															
1 Th	0425	13.4	407		16 F	0409	12.2	372		1 Su	0509	13.6	414		16 M	0622	13.8	422		1 Tu	0448	14.0	427		16 W	0003	4.2	129	
	1025	4.1	124			0954	4.4	135			1125	3.2	98			1155	2.5	76			1124	2.5	77			0644	14.7	449	
	1645	14.6	446			1645	13.0	396			1729	14.1	430			1859	13.5	411			1731	13.6	416			1230	1.4	43	
	2246	2.9	89			2234	4.2	127			2334	4.1	124			●					2329	4.7	144			1932	13.9	424	
2 F	0523	13.4	407		17 Sa	0537	12.4	378		2 M	0555	13.7	417		17 Tu	0025	4.2	129		2 W	0531	13.9	425		17 Th	0057	3.9	120	
	1122	3.9	118			1106	4.1	126			1213	2.9	89			0711	14.1	431			1214	2.5	75			0729	14.7	448	
	1732	14.5	442			1802	13.0	396			1820	13.9	424			1250	2.0	61			1824	13.3	404			1321	1.2	37	
	2340	3.2	97			2343	4.3	132			○					1956	13.7	417			○					2021	14.1	430	
3 Sa	0615	13.5	412		18 Su	0645	12.9	392		3 Tu	0025	4.2	128		18 W	0118	3.9	118		3 Th	0020	4.9	149		18 F	0146	3.6	110	
	1213	3.5	108			1209	3.5	108			0633	13.7	419			0755	14.4	438			0609	13.9	423			0812	14.6	446	
	1820	14.3	437			1912	13.1	400			1258	2.7	83			1340	1.5	46			1304	2.5	76			1409	1.0	31	
	●					●					1909	13.7	417			2045	13.9	425			1916	12.9	394			2105	14.3	437	
4 Su	0031	3.3	101		19 M	0045	4.1	126		4 W	0109	4.3	130		19 Th	0206	3.4	105		4 F	0110	4.9	148		19 Sa	0230	3.3	101	
	0701	13.7	417			0737	13.4	407			0705	13.8	420			0835	14.5	442			0642	13.8	421			0853	14.5	443	
	1258	3.2	99			1306	2.9	87			1341	2.6	78			1429	1.1	33			1352	2.5	76			1455	0.9	26	
	1907	14.2	433			2015	13.4	408			1954	13.5	411			2127	14.2	434			2004	12.8	389			2143	14.6	444	
5 M	0116	3.3	102		20 Tu	0139	3.7	113		5 Th	0149	4.2	127		20 F	0250	3.1	93		5 Sa	0157	4.7	142		20 Su	0313	3.1	94	
	0737	13.8	421			0821	13.8	421			0730	13.8	422			0914	14.6	446			0715	13.8	420			0935	14.4	440	
	1339	3.0	91			1358	2.1	65			1423	2.4	73			1516	0.8	23			1440	2.5	76			1539	0.8	24	
	1952	14.1	429			2105	13.7	419			2036	13.4	407			2204	14.5	442			2049	12.8	389			2216	14.7	449	
6 Tu	0155	3.3	102		21 W	0226	3.2	97		6 F	0228	4.0	121		21 Sa	0332	2.8	85		6 Su	0242	4.3	131		21 M	0354	3.0	91	
	0804	13.8	422			0900	14.2	434			0756	14.0	427			0955	14.7	447			0752	13.8	420			1016	14.4	438	
	1417	2.8	84			1447	1.4	44			1505	2.2	68			1601	0.5	16			1529	2.4	72			1620	0.8	25	
	2032	13.9	425			2147	14.1	431			2113	13.4	407			2239	14.7	448			2131	12.9	394			2246	14.8	450	
7 W	0229	3.3	101		22 Th	0310	2.7	83		7 Sa	0307	3.7	112		22 Su	0415	2.7	82		7 M	0330	3.9	119		22 Tu	0435	3.0	90	
	0822	13.9	424			0938	14.6	445			0826	14.2	433			1039	14.7	447			0838	13.6	416			1057	14.3	437	
	1454	2.6	78			1536	0.9	27			1549	2.0	62			1645	0.5	15			1617	2.2	68			1659	1.0	30	
	2106	13.9	423			2226	14.5	441			2149	13.5	410			2313	14.8	451			2216	13.2	402			2313	14.8	450	
8 Th	0302	3.1	96		23 F	0353	2.4	72		8 Su	0349	3.4	103		23 M	0457	2.8	84		8 Tu	0421	3.5	108		23 W	0515	3.0	90	
	0839	14.2	432			1020	14.9	453			0904	14.3	437			1125	14.6	446			0939	13.4	407			1135	14.3	437	
	1532	2.3	69			1624	0.5	16			1635	1.9	57			1728	0.7	21			1707	2.1	65			1735	1.3	39	
	2138	13.9	424			2304	14.7	448			2229	13.6	414			2346	14.7	449			2309	13.4	408			2337	14.7	449	
9 F	0336	2.9	89		24 Sa	0436	2.3	69		9 M	0435	3.2	97		24 Tu	0540	2.9	89		9 W	0517	3.3	100		24 Th	0555	2.9	89	
	0905	14.5	443			1106	15.0	457			0951	14.2	433			1210	14.6	444			1136	13.1	399			1213	14.4	439	
	1612	1.9	59			1711	0.4	12			1724	1.8	55			1809	1.0	31			1759	2.2	68			1809	1.6	49	
	2211	14.0	428			2342	14.8	451			2316	13.6	415			●					●					●			
10 Sa	0413	2.7	81		25 Su	0521	2.4	73		10 Tu	0526	3.2	97		25 W	0019	14.6	444		10 Th	0012	13.5	413		25 F	0005	14.7	449	
	0937	14.8	452			1156	15.0	457			1054	13.8	420			0625	3.1	95			0617	3.1	95			0636	2.8	85	
	1654	1.7	51			1757	0.5	16			1815	2.0	60			1254	14.5	443			1321	13.3	405			1252	14.5	443	
	2249	14.1	430			○					○					1848	1.5	46			1852	2.5	77			1844	2.0	60	
11 Su	0454	2.6	78		26 M	0020	14.7	447		11 W	0011	13.5	410		26 Th	0054	14.4	439		11 F	0131	13.6	416		26 Sa	0041	14.8	450	
	1017	14.9	454			0606	2.8	84			0623	3.3	102			0711	3.2	99			0723	2.9	89			0720	2.6	78	
	1742	1.5	47			1248	14.9	454			1242	13.4	407			1337	14.5	442			1430	13.6	414			1333	14.6	445	
	2332	14.0	428			1843	0.9	27			1909	2.4	73			1927	2.1	63			1949	3.0	92			1921	2.4	73	
12 M	0540	2.7	82		27 Tu	0101	14.4	439		12 Th	0121	13.2	402		27 F	0134	14.2	434		12 Sa	0249	13.8	422		27 Su	0123	14.8	450	
	1107	14.6	446			0655	3.2	97			0727	3.6	109			0759	3.2	99			0830	2.7	81			0806	2.3	70	
	1832	1.7	52			1337	14.8	450			1425	13.3	405			1420	14.5	442			1532	13.7	418			1417	14.6	444	
	○					1928	1.4	44			2007	3.0	92			2008	2.7	81			2050	3.6	110			2003	3.0	90	
13 Tu	0020	13.7	417		28 W	0144	14.1	429		13 F	0248	13.0	396		28 Sa	0219	14.1	430		13 Su	0358	14.2	432		28 M	0210	14.7	448	
	0632	3.1	96			0746	3.6	109			0837	3.7	112			0850	3.1	95			0935	2.3	71			0855	2.1	64	
	1212	14.1	429			1425	14.6	446			1540	13.3	406			1504	14.4	440			1633	13.7	419			1504	14.3	437	
	1925	2.2	66																										

Comodoro Rivadavia, Argentina, 2009

Times and Heights of High and Low Waters

April				May				June															
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height										
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm									
1 W	0238	3.5	106	16 Th	0316	4.1	126	1 F	0311	4.0	123	16 Sa	0336	4.8	145								
	0834	17.9	546		0913	16.5	504		0909	17.5	533		0928	15.5	473	1 M	0459	3.9	118				
	1504	2.4	72		1545	2.7	83		1546	2.1	65		1603	3.2	97		1735	2.5	75				
	2115	17.9	547		2157	16.5	504		2202	17.7	538		2218	16.1	491		2351	17.5	534	2314	16.0	488	
2 Th	0319	3.6	111	17 F	0400	4.4	134	2 Sa	0403	4.2	127	17 Su	0421	4.8	147		2 Tu	0603	3.8	117	17 W	0533	4.6	141
	0921	17.4	530		0956	15.7	478		1006	16.8	512		1014	15.0	457	1210		16.5	502	1125		14.9	455
	1549	2.4	74		1631	3.1	95		1643	2.4	74		1650	3.4	105	1837		2.9	89	1749		4.0	123
	2208	17.2	525		2246	15.8	481		2304	17.1	521		2307	15.7	480	2307		15.7	480	2307		15.7	480
3 F	0407	4.0	122	18 Sa	0448	4.7	143	3 Su	0504	4.4	133	18 M	0514	4.9	149	3 W	0052	17.3	528	18 Th	0002	16.0	487
	1014	16.6	507		1045	14.9	453		1112	16.2	494		1108	14.6	445		0708	3.6	111		0628	4.5	138
	1645	2.8	84		1720	3.5	108		1746	2.8	84		1742	3.8	115		1318	16.4	501		1224	15.1	459
	2311	16.4	501		2340	15.2	464		2359	15.6	475		2359	15.6	475		1936	3.3	102		1841	4.3	132
4 Sa	0505	4.5	136	19 Su	0542	5.0	152	4 M	0012	16.8	511	19 Tu	0611	4.9	149	4 Th	0151	17.4	529	19 F	0052	16.1	492
	1118	15.9	484		1143	14.3	435		0612	4.5	136		1207	14.5	442		0809	3.3	102		0722	4.2	129
	1752	3.1	96		1818	3.9	119		1226	15.9	486		1837	4.0	122		1421	16.7	509		1324	15.5	473
	5 Su	0021	16.0		487	20 M	0040		15.0	457	5 Tu		0119	16.8	513		20 W	0052	15.7		479	5 F	0245	17.5	534	20 Sa	0145	16.6	505
0613		4.8	147	0642	5.1		156	0722	4.2	129		0709	4.7	144	0903	3.1		94	0814	3.8	116		
1234		15.5	473	1247	14.1		430	1340	16.2	495		1307	14.8	451	1518	17.1		521	1423	16.2	495		
1904		3.3	101	1918	4.1		124	2003	3.1	95		1932	4.1	126	2119	4.2		127	2024	4.6	139		
6 M	0137	16.1	491	21 Tu	0140	15.2	464	6 W	0221	17.3	526	21 Th	0144	16.1	491	6 Sa	0334	17.7	538	21 Su	0236	17.1	522
	0726	4.8	146		0744	5.0	151		0829	3.8	115		0804	4.4	134		0952	2.9	89		0905	3.3	101
	1353	15.8	483		1351	14.5	442		1445	16.9	514		1404	15.5	472		1610	17.4	531		1520	17.1	520
	2020	3.2	98		2017	4.0	123		2104	3.2	98		2023	4.2	128		2203	4.6	141		2113	4.6	140
7 Tu	0245	16.8	511	22 W	0233	15.8	481	7 Th	0315	17.8	542	22 F	0232	16.7	509	7 Su	0419	17.7	538	22 M	0328	17.7	539
	0838	4.4	134		0843	4.6	141		0929	3.3	101		0856	4.0	121		1038	2.9	89		0956	2.9	88
	1503	16.7	509		1448	15.2	464		1542	17.6	535		1457	16.3	498		1657	17.6	535		1615	17.8	544
	2130	3.0	90		2112	3.9	120		2155	3.4	104		2110	4.3	130		2247	5.1	154		2204	4.6	141
8 W	0343	17.6	537	23 Th	0321	16.4	501	8 F	0404	18.2	555	23 Sa	0317	17.3	528	8 M	0501	17.5	534	23 Tu	0419	18.1	553
	0946	3.8	117		0937	4.2	129		1020	3.0	91		0943	3.6	109		1122	3.1	93		1050	2.5	76
	1603	17.7	538		1538	16.1	491		1632	18.0	550		1548	17.2	525		1742	17.6	535		1710	18.5	563
	2231	2.8	84		2202	3.9	119		2241	3.8	115		2155	4.4	134		2330	5.4	164		2259	4.6	140
9 Th	0434	18.3	559	24 F	0404	17.1	521	9 Sa	0448	18.4	560	24 Su	0401	17.8	544	9 Tu	0541	17.3	526	24 W	0513	18.5	565
	1046	3.3	100		1027	3.9	119		1107	2.9	87		1031	3.2	99		1206	3.1	96		1148	2.1	65
	1654	18.4	561		1623	17.0	518		1719	18.3	557		1637	18.0	548		1825	17.5	532		1804	19.0	578
	2322	2.8	86		2248	4.0	121		2322	4.2	129		2241	4.5	138		2241	4.5	138		2241	4.5	138
10 F	0520	18.8	572	25 Sa	0442	17.6	537	10 Su	0529	18.3	557	25 M	0446	18.3	557	10 W	0014	5.5	169	25 Th	0000	4.4	135
	1138	2.9	88		1114	3.6	110		1150	2.9	87		1119	3.0	90		0621	16.9	516		0607	18.8	572
	1742	18.8	574		1707	17.7	540		1803	18.3	557		1728	18.5	565		1250	3.2	98		1247	1.7	53
	11 Sa	0004	3.1		93	2333	4.1		125	11 M	0003		4.6	141	26 Tu		0533	18.5	564		11 Th	0101	5.5	167	26 F	0100	4.1	126
0601		18.9	576	0522	18.0	549	0608	18.0	548		1211	2.6	80	0700		16.6	505	0701	18.9	576			
1222		2.6	80	1159	3.3	101	1233	2.9	88		1819	18.9	575	1334		3.2	97	1343	1.4	42			
1826		19.0	578	1752	18.3	557	1845	18.1	551		26	1819	18.9	575		1946	17.1	521	1951	19.4		591	
12 Su	0043	3.3	102	27 M	0015	4.2	127	12 Tu	0045	4.9	149	27 W	0023	4.6	140	12 F	0146	5.3	162	27 Sa	0158	3.7	114
	0641	18.8	572		0603	18.3	557		0647	17.6	536		0622	18.6	567		0740	16.3	496		0754	18.8	574
	1304	2.5	76		1243	3.0	90		1315	2.9	89		1304	2.3	69		1415	3.1	94		1436	1.2	36
	1909	18.8	573		1837	18.6	568		1927	17.7	541		1911	19.0	580		2027	16.9	515		2042	19.3	588
13 M	0120	3.6	111	28 Tu	0058	4.2	127	13 W	0127	5.0	152	28 Th	0118	4.4	135	13 Sa	0230	5.1	154	28 Su	0253	3.3	102
	0719	18.4	561		0645	18.4	560		0725	17.1	522		0713	18.5	565		0820	16.0	487		0847	18.5	565
	1344	2.4	73		1327	2.6	79		1357	2.9	89		1356	1.9	59		1456	3.1	93		1527	1.2	38
	1950	18.4	562		1925	18.8	572		2008	17.4	530		2004	19.0	579		2106	16.7	509		2134	19.0	578
14 Tu	0158	3.8	117	29 W	0141	4.1	125	14 Th	0208	4.9	150	29 F	0210	4.2	128	14 Su	0313	4.8	147	29 M	0346	3.1	96
	0756	17.9	546		0730	18.3	558		0804	16.6	507		0806	18.3	558		0901	15.6	477		0943	18.0	549
	1423	2.4	73		1410	2.3	69		1438	2.9	89		1448	1.7	52		1536	3.1	95		1617	1.6	50
	2031	17.9	546		2014	18.6	568		2050	17.0	518		2057	18.8	572		2146	16.4	501		2226	18.4	562
15 W	0236	4.0	121	30 Th	0224	4.0	123	15 F	0251	4.8	147	30 Sa	0304	4.0	121	15 M	0357	4.7	143	30 Tu	0442	3.1	94
	0834	17.3	527		0817	18.0	549		0845	16.1	491		0900	17.9	546		0943	15.4	468		1041	17.3	528
	1504	2.5	76		1456	2.1	64		1520	3.0	91		1540	1.7	53		1617	3.3	102		1709	2.3	70
	2112	17.3	526		2106	18.2	556		2133	16.5	504		2153	18.3	559		2228	16.2	493		2320	17.8	542
16 Th	0359	3.9	119	31 Su	0958	17.4	530	16 M	0958	17.4	530	31 M											

Comodoro Rivadavia, Argentina, 2009

Times and Heights of High and Low Waters

October			November			December																	
Time	Height		Time	Height		Time	Height		Time	Height													
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm									
1 Th	0231	13.6	414	16 F	0233	15.6	474	1 Su	0332	15.1	461	16 M	0413	17.5	533	1 Tu	0337	15.9	485	16 W	0444	17.2	524
	0851	3.1	96		0904	2.4	72		0953	3.3	100		1025	3.1	96		0950	4.5	136		1037	4.9	149
	1515	15.1	461		1519	16.9	516		1557	16.6	506		1632	18.3	557		1551	17.0	517		1654	17.6	535
	2113	4.3	132		2129	3.3	102		2223	3.3	100		2258	2.2	67		2231	3.4	103		2322	2.8	85
2 F	0327	14.4	440	17 Sa	0337	16.8	512	2 M	0416	16.1	490	17 Tu	0502	18.0	550	2 W	0427	16.8	512	17 Th	0533	17.5	533
	0946	2.7	83		1005	1.9	58		1038	3.2	99		1109	3.4	105		1038	4.5	137		1123	5.1	155
	1601	16.0	488		1610	18.0	550		1635	17.2	525		1715	18.5	565		1635	17.6	535		1737	17.6	536
	2208	3.6	111		2229	2.4	74		2308	2.9	87		2342	1.9	59		2319	2.9	89				
3 Sa	0412	15.3	467	18 Su	0431	17.9	546	3 Tu	0458	16.9	515	18 W	0548	18.3	558	3 Th	0516	17.6	535	18 F	0604	2.7	82
	1034	2.4	74		1055	1.7	53		1121	3.4	103		1149	3.7	114		1124	4.5	136		0618	17.6	537
	1640	16.8	511		1656	18.8	574		1711	17.7	539		1756	18.5	563		1719	18.0	549		1206	5.1	156
	2256	3.1	95		2318	1.8	54		2351	2.6	78								1817		17.5	533	
4 Su	0451	16.1	491	19 M	0519	18.7	569	4 W	0539	17.5	534	19 Th	0622	1.9	57	4 F	0605	2.5	75	19 Sa	0646	2.6	79
	1117	2.3	71		1138	1.9	57		1200	3.5	107		0632	18.3	557		0604	18.1	553		0659	17.7	538
	1715	17.3	526		1739	19.2	586		1746	18.0	548		1229	4.0	122		1211	4.3	132		1249	5.0	151
	2340	2.8	84		1819	19.2	586		1825	18.1	553		1834	18.2	555		1804	18.4	561		1856	17.4	529
5 M	0528	16.8	511	20 Tu	0602	1.3	41	5 Th	0620	2.3	69	20 F	0714	18.0	550	5 Sa	0651	18.6	566	20 Su	0738	17.6	536
	1157	2.4	74		0604	19.0	579		1237	3.6	110		0714	18.0	550		1257	4.1	125		1331	4.7	143
	1748	17.6	536		1217	2.2	67		1825	18.1	553		1308	4.1	126		1851	18.6	568		1933	17.2	523
					1819	19.2	586		1904	18.1	553		1912	17.8	542								
6 Tu	0020	2.5	77	21 W	0043	1.2	36	6 F	0109	2.0	60	21 Sa	0141	1.8	56	6 Su	0136	1.5	45	21 M	0204	2.2	68
	0604	17.2	525		0647	18.9	577		0703	18.1	552		0754	17.7	539		0740	18.8	572		0814	17.5	533
	1233	2.7	81		1255	2.6	79		1313	3.6	111		1348	4.2	127		1343	3.8	115		1412	4.4	133
	1819	17.8	542		1857	18.9	576		1904	18.1	553		1950	17.3	527		1939	18.7	570		2009	16.9	516
7 W	0057	2.3	71	22 Th	0123	1.1	35	7 Sa	0145	1.7	51	22 Su	0220	1.9	57	7 M	0221	1.1	34	22 Tu	0241	2.1	65
	0640	17.5	534		0729	18.5	565		0748	18.1	551		0834	17.2	525		0828	18.7	571		0851	17.3	527
	1306	2.9	88		1332	3.0	90		1350	3.6	110		1429	4.1	126		1429	3.5	107		1452	4.1	125
	1851	17.8	543		1934	18.3	558		1946	17.9	547		2028	16.7	509		2028	18.5	563		2045	16.6	507
8 Th	0131	2.2	66	23 F	0202	1.2	38	8 Su	0223	1.5	45	23 M	0259	2.0	61	8 Tu	0305	1.0	31	23 W	0318	2.2	67
	0719	17.6	537		0810	17.9	545		0835	17.7	541		0914	16.7	509		0918	18.4	562		0928	17.0	519
	1334	3.1	93		1411	3.3	100		1430	3.6	111		1510	4.2	127		1517	3.4	105		1533	4.0	123
	1925	17.7	540		2012	17.5	534		2034	17.5	533		2108	16.0	488		2120	18.0	548		2125	16.2	495
9 F	0200	2.0	61	24 Sa	0241	1.5	45	9 M	0305	1.5	46	24 Tu	0340	2.3	69	9 W	0353	1.3	39	24 Th	0354	2.5	76
	0759	17.5	532		0853	17.1	521		0926	17.2	524		0957	16.1	492		1010	17.9	547		1006	16.6	507
	1402	3.2	98		1451	3.6	110		1517	3.8	116		1555	4.3	132		1610	3.6	109		1615	4.2	127
	2002	17.4	531		2051	16.6	506		2126	16.8	511		2151	15.3	466		2217	17.3	526		2207	15.7	479
10 Sa	0229	1.9	57	25 Su	0322	1.9	57	10 Tu	0355	1.8	55	25 W	0423	2.7	82	10 Th	0446	1.9	57	25 F	0432	3.0	91
	0843	17.0	518		0937	16.2	493		1024	16.5	503		1043	15.6	475		1108	17.4	529		1046	16.2	495
	1437	3.4	104		1533	4.0	123		1612	4.2	127		1644	4.6	140		1712	3.8	116		1701	4.4	135
	2044	16.9	514		2133	15.6	474		2226	15.9	486		2240	14.6	444		2320	16.5	503		2254	15.2	464
11 Su	0307	1.9	59	26 M	0407	2.4	73	11 W	0457	2.3	71	26 Th	0513	3.2	99	11 F	0548	2.6	80	26 Sa	0515	3.6	111
	0933	16.2	495		1026	15.3	465		1129	15.9	486		1133	15.2	462		1209	16.9	515		1131	15.8	483
	1522	3.8	116		1620	4.5	137		1721	4.5	138		1741	4.9	149		1823	4.0	122		1753	4.7	143
	2132	16.0	488		2221	14.5	442		2336	15.3	466		2337	14.0	428						2348	14.8	452
12 M	0358	2.3	69	27 Tu	0457	3.0	90	12 Th	0611	2.8	86	27 F	0609	3.7	114	12 Sa	0630	16.0	487	27 Su	0606	4.3	131
	1033	15.4	469		1121	14.5	443		1240	15.8	483		1228	15.0	458		0654	3.3	102		1222	15.6	476
	1619	4.4	133		1717	4.9	150		1842	4.5	138		1845	5.0	151		1314	16.7	509		1852	4.8	147
	2233	15.1	459		2319	13.6	415										1933	3.9	119				
13 Tu	0505	2.8	84	28 W	0556	3.5	106	13 F	0656	15.2	463	28 Sa	0709	13.9	425	13 Su	0757	3.9	119	28 M	0702	4.8	147
	1144	14.8	452		1224	14.2	433		1350	16.3	496		1324	15.2	464		1416	16.8	512		1316	15.7	478
	1729	4.9	148		1821	5.2	157		2001	4.1	124		1948	4.8	145		2040	3.6	110		1952	4.7	143
	2350	14.4	440																				
14 W	0627	3.0	92	29 Th	0627	13.2	402	14 Sa	0213	15.7	480	29 Su	0144	14.3	436	14 M	0252	16.2	495	29 Tu	0154	15.0	458
	1304	14.9	455		0700	3.7	113		0835	3.0	92		0807	4.3	132		0856	4.3	131		0759	5.2	157
	1853	4.9	149		1329	14.4	439		1451	17.0	518		1417	15.7	478		1514	17.1	521		1412	16.0	487
					1931	5.0	151		2111	3.3	102		2046	4.4	133		2141	3.2	99		2051	4.4	133
15 Th	0115	14.6	445	30 F	0138	13.4	409	15 Su	0317	16.6	507	30 M	0243	15.0	458	15 Tu	0352	16.7	510	30 W	0258	15.6	477
	0749	2.9	87		0804	3.6	111		0935	3.0	92		0901	4.4	134		0949	4.6	141		0855	5.3	161
	1418	15.7	480		1426	15.0	458		1544	17.7	541		1506	16.3	497		1606	17.4	529		1508	16.5	504
	2015	4.3	131		2036	4.5	136		2209	2.7	81		2141	3.9									

Punta Loyola, Argentina, 2009

Times and Heights of High and Low Waters

January				February				March															
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height										
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm									
1 Th	0112	34.1	1040	16 F	0207	38.7	1180	1 Su	0209	37.1	1130	16 M	0243	36.7	1120	1 Su	0104	39.7	1210	16 M	0131	38.7	1180
	0736	10.8	330		0839	6.6	200		0838	9.2	280		0908	10.5	320		0735	5.9	180		0803	7.9	240
	1319	34.1	1040		1423	37.7	1150		1431	36.1	1100		1512	34.1	1040		1329	39.0	1190		1359	36.1	1100
	2004	8.9	270		2106	5.9	180		2108	9.8	300		2127	12.5	380		2002	7.2	220		2017	10.8	330
2 F	0152	34.1	1040	17 Sa	0247	37.4	1140	2 M	0254	36.1	1100	17 Tu	0324	34.4	1050	2 M	0146	39.0	1190	17 Tu	0205	36.4	1110
	0816	10.8	330		0918	8.5	260		0925	10.5	320		0943	12.8	390		0820	7.2	220		0831	10.2	310
	1401	34.1	1040		1507	36.1	1100		1523	34.8	1060		1601	31.8	970		1414	37.7	1150		1438	33.8	1030
	2045	9.5	290		2145	8.9	270		2158	12.1	370		2207	15.4	470		2046	9.5	290		2048	13.5	410
3 Sa	0234	34.1	1040	18 Su	0329	36.1	1100	3 Tu	0344	34.8	1060	18 W	0411	32.2	980	3 Tu	0229	37.4	1140	18 W	0243	33.8	1030
	0900	11.5	350		0958	10.8	330		1020	12.1	370		1030	14.8	450		0907	9.2	280		0906	12.5	380
	1448	33.8	1030		1556	34.1	1040		1626	33.1	1010		1701	29.5	900		1504	35.4	1080		1522	31.2	950
	2133	10.8	330		2224	11.5	350		2258	14.1	430		2257	17.4	530		2137	12.1	370		2127	15.7	480
4 Su	0323	34.1	1040	19 M	0416	34.4	1050	4 W	0446	33.1	1010	19 Th	0507	29.9	910	4 W	0316	35.1	1070	19 Th	0326	31.2	950
	0949	12.1	370		1042	12.8	390		1132	13.5	410		1130	16.1	490		1003	11.5	350		0949	14.4	440
	1545	33.1	1010		1653	32.5	990		1742	32.2	980		1951	28.9	880		1606	33.1	1010		1614	29.2	890
	2226	12.1	370		2310	14.1	430										2240	14.8	450		2215	17.7	540
5 M	0419	33.8	1030	20 Tu	0509	33.1	1010	5 Th	0014	15.1	460	20 F	0004	18.4	560	5 Th	0417	32.8	1000	20 F	0417	28.9	880
	1047	12.8	390		1142	14.4	440		0602	32.5	990		0618	28.5	870		1127	13.1	400		1043	16.1	490
	1653	32.8	1000		1807	31.2	950		1304	13.1	400		1434	15.4	470		1729	31.5	960		1721	27.6	840
	2326	13.1	400						1909	32.5	990		2043	29.9	910						2315	18.7	570
6 Tu	0522	33.5	1020	21 W	0012	15.7	480	6 F	0141	14.4	440	21 Sa	0247	17.4	530	6 F	0011	15.7	480	21 Sa	0524	27.2	830
	1155	13.1	400		0610	32.2	980		0727	33.1	1010		0757	28.9	880		0546	31.2	950		1200	16.7	510
	1804	32.8	1000		1347	14.4	440		1426	10.5	320		1516	14.1	430		1304	12.5	380		1859	27.9	850
					1958	31.2	950		2025	34.4	1050		2110	30.8	940		1908	32.2	980				
7 W	0033	13.5	410	22 Th	0207	16.1	490	7 Sa	0252	11.8	360	22 Su	0319	15.4	470	7 Sa	0136	14.1	430	22 Su	0039	18.4	560
	0629	34.1	1040		0721	31.5	960		0841	35.1	1070		0849	30.2	920		0728	32.2	980		0651	27.6	840
	1309	12.1	370		1500	13.5	410		1529	7.2	220		1542	12.1	370		1415	9.8	300		1346	15.4	470
	1917	33.8	1030		2102	32.2	980		2124	36.7	1120		2127	32.2	980		2017	34.4	1050		1954	29.5	900
8 Th	0144	12.8	390	23 F	0315	15.4	470	8 Su	0351	8.9	270	23 M	0342	13.5	410	8 Su	0240	11.5	350	23 M	0158	16.1	490
	0736	35.1	1070		0834	31.8	970		0939	37.4	1140		0926	32.2	980		0835	34.8	1060		0800	29.2	890
	1424	10.5	320		1550	12.1	370		1621	4.3	130		1607	10.2	310		1512	6.6	200		1434	13.1	400
	2026	35.4	1080		2142	32.8	1000		2214	38.7	1180		2155	33.8	1030		2109	36.7	1120		2035	31.8	970
9 F	0254	11.5	350	24 Sa	0359	14.1	430	9 M	0441	6.2	190	24 Tu	0413	11.2	340	9 M	0333	8.2	250	24 Tu	0247	13.5	410
	0841	36.4	1110		0917	32.5	990		1029	39.4	1200		1004	34.1	1040		0927	37.4	1140		0849	31.8	970
	1533	7.9	240		1626	10.8	330		1710	2.0	60		1639	8.2	250		1601	4.3	130		1516	10.5	320
	2128	37.1	1130		2207	33.1	1010		2258	40.0	1220		2229	35.8	1090		2154	39.0	1190		2115	34.4	1050
10 Sa	0358	9.2	280	25 Su	0429	13.1	400	10 Tu	0528	4.3	130	25 W	0450	8.9	270	10 Tu	0421	5.9	180	25 W	0331	10.5	320
	0941	38.1	1160		0952	33.1	1010		1114	40.7	1240		1043	36.1	1100		1013	39.4	1200		0933	34.8	1060
	1632	4.9	150		1653	9.8	300		1754	1.0	30		1717	6.6	200		1646	2.3	70		1559	8.2	250
	2223	38.7	1180		2230	33.8	1030		2340	41.0	1250		2306	37.4	1140		2236	40.4	1230		2155	36.7	1120
11 Su	0454	7.2	220	26 M	0452	11.8	360	11 W	0612	3.3	100	26 Th	0530	6.9	210	11 W	0506	4.3	130	26 Th	0416	7.9	240
	1035	39.4	1200		1029	33.8	1030		1156	41.3	1260		1124	37.7	1150		1055	40.7	1240		1016	37.1	1130
	1726	3.0	90		1718	8.5	260		1837	0.7	20		1756	5.2	160		1729	1.6	50		1643	6.2	190
	2313	39.7	1210		2300	34.8	1060						2345	39.0	1190		2315	41.3	1260		2236	39.0	1190
12 M	0545	5.6	170	27 Tu	0523	10.2	310	12 Th	0019	41.3	1260	27 F	0611	5.9	180	12 Th	0548	3.3	100	27 F	0501	5.9	180
	1126	40.4	1230		1106	34.8	1060		1236	41.0	1250		1204	39.0	1190		1134	41.3	1260		1059	39.4	1200
	1815	1.3	40		1748	7.5	230		1917	2.0	60		1837	4.9	150		1811	2.0	60		1728	5.2	160
					2334	35.4	1080										2351	41.7	1270		2318	40.7	1240
13 Tu	0000	40.0	1220	28 W	0558	9.2	280	13 F	0056	40.7	1240	28 Sa	0025	39.7	1210	13 F	0628	3.3	100	28 Sa	0547	4.6	140
	0633	4.6	140		1145	35.8	1090		0732	4.3	130		0653	5.2	160		1212	41.0	1250		1143	40.4	1230
	1213	40.4	1230		1824	6.6	200		1314	40.0	1220		1246	39.4	1200		1848	3.3	100		1812	4.9	150
	1901	1.0	30						1954	3.9	120		1919	5.6	170								
14 W	0044	40.0	1220	29 Th	0011	36.4	1110	14 Sa	0131	40.0	1220	14 Sa	0025	41.3	1260	14 Sa	0025	41.3	1260	29 Su	0000	41.3	1260
	0718	4.6	140		0636	8.2	250		0806	5.9	180		0704	4.3	130		0704	4.3	130		0633	4.3	130
	1257	40.0	1220		1224	36.7	1120		1352	38.7	1180		1248	40.0	1220		1248	40.0	1220		1228	40.7	1240
	1944	1.6	50		1902	6.2	190		2027	6.6	200		1921	5.6	170		1921	5.6	170		1859	5.6	170
15 Th	0126	39.4	1200	30 F	0049	37.1	1130	15 Su	0206	38.7	1180	15 Su	0058	40.4	1230	15 Su	0058	40.4	1230	30 M	0042	41.0	1250
	0800	5.2	160		0715	7.9	240		0837	7.9	240		0736	5.9	180								

Punta Loyola, Argentina, 2009

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 W	0208	37.7	1150		16 Th	0210	33.1	1010		1 F	0251	35.4	1080		16 Sa	0225	30.8	940		1 M	0454	34.4	1050		16 Tu	0337	31.8	970	
	0859	8.2	250			0839	12.1	370			1002	7.9	240			0904	12.5	380			1138	8.2	250			1018	12.1	370	
	1452	35.8	1090			1451	31.2	950			1551	34.4	1050			1510	30.5	930			1734	35.1	1070			1619	32.5	990	
	2127	12.1	370			2059	15.4	470			2228	12.1	370			2121	15.1	460								2237	13.5	410	
2 Th	0258	35.1	1070		17 F	0251	30.8	940		2 Sa	0400	33.5	1020		17 Su	0307	29.9	910		2 Tu	0004	11.5	350		17 W	0439	31.8	970	
	1003	10.2	310			0921	13.8	420			1109	8.9	270			0951	13.1	400			0601	34.1	1040			1113	12.5	380	
	1556	33.1	1010			1538	29.2	890			1707	33.5	1020			1559	29.9	910			1236	9.5	290			1717	33.1	1010	
	2237	14.1	430			2144	16.7	510			2337	12.5	380			2210	15.4	470			1832	35.1	1070			2336	13.5	410	
3 F	0402	32.5	990		18 Sa	0336	28.9	880		3 Su	0527	32.8	1000		18 M	0401	29.5	900		3 W	0104	11.5	350		18 Th	0548	32.2	980	
	1127	11.5	350			1012	15.1	460			1215	9.2	280			1046	13.8	420			0704	34.1	1040			1212	12.8	390	
	1726	32.2	980			1636	28.2	860			1817	33.8	1030			1658	30.2	920			1333	10.2	310			1817	34.1	1040	
						2239	17.4	530								2309	15.4	470			1927	35.8	1090						
4 Sa	0002	14.4	440		19 Su	0437	27.6	840		4 M	0043	12.1	370		19 Tu	0514	29.5	900		4 Th	0206	10.8	330		19 F	0040	12.5	380	
	0545	31.5	960			1117	15.4	470			0642	33.5	1020			1148	13.5	410			0803	34.8	1060			0655	33.1	1010	
	1246	10.8	330			1745	28.2	860			1316	8.9	270			1800	31.5	960			1429	10.5	320			1315	12.5	380	
	1851	32.8	1000			2348	17.1	520			1916	35.1	1070								2018	36.7	1120			1918	35.1	1070	
5 Su	0115	13.1	400		20 M	0558	27.9	850		5 Tu	0143	10.8	330		20 W	0012	14.4	440		5 F	0305	9.8	300		20 Sa	0147	11.5	350	
	0713	32.5	990			1233	14.8	450			0742	34.8	1060			0626	30.8	940			0859	35.4	1080			0759	34.4	1050	
	1350	8.9	270			1851	29.9	910			1411	8.2	250			1250	12.8	390			1525	10.5	320			1419	11.8	360	
	1952	34.8	1060								2008	36.4	1110			1859	33.1	1010			2106	37.1	1130			2018	36.4	1110	
6 M	0216	10.8	330		21 Tu	0058	15.4	470		6 W	0238	9.2	280		21 Th	0116	12.8	390		6 Sa	0402	8.9	270		21 Su	0256	9.5	290	
	0814	34.8	1060			0711	29.5	900			0835	36.1	1100			0729	32.8	1000			0950	36.1	1100			0901	36.1	1100	
	1445	6.9	210			1336	13.1	400			1503	7.5	230			1349	11.5	350			1618	10.8	330			1526	10.5	320	
	2042	36.7	1120			1945	32.2	980			2054	38.1	1160			1954	35.4	1080			2149	37.1	1130			2117	37.7	1150	
7 Tu	0308	8.5	260		22 W	0158	13.1	400		7 Th	0330	7.9	240		22 F	0215	10.8	330		7 Su	0454	7.9	240		22 M	0405	7.2	220	
	0904	37.1	1130			0808	32.2	980			0922	37.4	1140			0826	35.1	1070			1037	36.1	1100			1001	37.4	1140	
	1534	5.2	160			1430	10.8	330			1552	7.2	220			1446	10.2	310			1708	10.8	330			1632	9.2	280	
	2127	38.7	1180			2034	34.8	1060			2137	39.0	1190			2046	37.4	1140			2229	36.7	1120			2214	38.7	1180	
8 W	0357	6.2	190		23 Th	0251	10.5	320		8 F	0419	6.9	210		23 Sa	0314	8.5	260		8 M	0541	7.5	230		23 Tu	0509	4.9	150	
	0950	38.7	1180			0859	35.1	1070			1008	38.1	1160			0921	37.1	1130			1117	35.8	1090			1058	38.4	1170	
	1620	4.3	130			1521	8.9	270			1637	7.5	230			1544	8.9	270			1752	10.8	330			1732	7.5	230	
	2208	40.0	1220			2120	37.4	1140			2216	39.4	1200			2138	39.0	1190			2306	36.1	1100			2310	39.7	1210	
9 Th	0442	4.9	150		24 F	0343	7.9	240		9 Sa	0506	6.2	190		24 Su	0414	6.6	200		9 Tu	0621	7.5	230		24 W	0606	3.0	90	
	1032	39.7	1210			0947	37.4	1140			1050	38.1	1160			1014	38.7	1180			1152	35.1	1070			1151	39.4	1200	
	1704	4.3	130			1611	7.2	220			1721	8.2	250			1642	7.9	240			1828	11.5	350			1826	6.2	190	
	2246	41.0	1250			2206	39.7	1210			2253	39.0	1190			2229	40.4	1230			2341	35.1	1070						
10 F	0525	4.3	130		25 Sa	0434	5.9	180		10 Su	0550	6.2	190		25 M	0514	4.9	150		10 W	0654	8.2	250		25 Th	0003	40.0	1220	
	1111	40.0	1220			1035	39.4	1200			1129	37.7	1150			1107	39.4	1200			1223	34.1	1040			0658	1.6	50	
	1744	4.9	150			1702	6.2	190			1803	8.9	270			1739	7.2	220			1854	11.8	360			1242	39.4	1200	
	2321	41.0	1250			2251	41.0	1250			2327	38.4	1170			2320	40.7	1240								1917	5.2	160	
11 Sa	0605	4.6	140		26 Su	0526	4.6	140		11 M	0630	6.6	200		26 Tu	0611	3.6	110		11 Th	0017	34.1	1040		26 F	0054	39.7	1210	
	1148	39.7	1210			1123	40.4	1230			1205	36.7	1120			1200	39.7	1210			0718	8.9	270			0747	1.3	40	
	1821	6.2	190			1752	5.9	180			1839	10.2	310			1835	6.6	200			1255	33.5	1020			1331	39.4	1200	
	2354	40.4	1230			2337	41.3	1260													1920	12.1	370			2004	5.2	160	
12 Su	0642	5.2	160		27 M	0618	3.6	110		12 Tu	0001	37.1	1130		27 W	0010	40.4	1230		12 F	0052	33.1	1010		27 Sa	0144	39.4	1200	
	1223	38.7	1180			1211	40.7	1240			0703	7.5	230			0706	3.0	90			0743	9.2	280			0834	2.0	60	
	1854	7.9	240			1843	6.2	190			1239	35.4	1080			1252	39.4	1200			1329	32.8	1000			1419	38.7	1180	
											1907	11.5	350			1928	6.6	200			1949	12.5	380			2051	6.2	190	
13 M	0026	39.0	1190		28 Tu	0021	41.0	1250		13 W	0035	35.8	1090		28 Th	0101	39.4	1200		13 Sa	0130	32.8	1000		28 Su	0232	38.4	1170	
	0713	6.6	200			0710	3.9	120			0727	8.9	270			0800	3.0	90			0813	9.8	300			0920	3.6	110	
	1258	37.1	1130			1300	39.7	1210			1313	34																	

Punta Loyola, Argentina, 2009

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 W	0514	34.1	1040		16 Th	0412	33.5	1020		1 Sa	0102	13.8	420		16 Su	0005	13.1	400		1 Tu	0253	13.1	400		16 W	0234	7.5	230	
	1147	10.8	330			1043	12.5	380			0709	31.8	970			0616	32.2	980			0851	31.5	960			0833	35.8	1090	
	1737	35.1	1070			1639	34.4	1050			1324	15.7	480			1245	14.8	450			1503	15.1	460			1457	9.2	280	
						2306	12.8	390			1849	32.5	990			1834	33.1	1010			2045	30.8	940			2052	36.7	1120	
2 Th	0020	12.1	370		17 F	0517	32.8	1000		2 Su	0229	13.1	400		17 M	0137	11.8	360		2 W	0330	11.8	360		17 Th	0328	5.2	160	
	0620	33.5	1020			1142	13.5	410			0831	32.2	980			0739	33.1	1010			0918	32.5	990			0922	38.1	1160	
	1247	12.5	380			1741	34.1	1040			1447	15.1	460			1407	13.1	400			1533	13.5	410			1549	6.9	210	
	1836	34.8	1060								2020	32.2	980			1956	34.1	1040			2116	31.8	970			2142	38.7	1180	
3 F	0133	12.5	380		18 Sa	0013	12.8	390		3 M	0328	11.8	360		18 Tu	0250	8.9	270		3 Th	0357	10.5	320		18 F	0417	3.6	110	
	0732	33.1	1010			0629	32.8	1000			0924	32.8	1000			0847	35.1	1070			0942	33.1	1010			1007	39.4	1200	
	1355	13.5	410			1407	13.1	400			1543	14.1	430			1514	10.5	320			1559	12.1	370			1637	5.2	160	
	1937	34.8	1060			1849	34.1	1040			2119	32.5	990			2104	36.1	1100			2149	33.1	1010			2227	40.0	1220	
4 Sa	0246	11.8	360		19 Su	0133	11.8	360		4 Tu	0414	10.5	320		19 W	0349	5.9	180		4 F	0423	9.5	290		19 Sa	0503	2.6	80	
	0841	33.8	1030			0742	33.5	1020			1003	33.5	1020			0942	37.1	1130			1012	34.4	1050			1048	40.7	1240	
	1504	13.5	410			1407	13.1	400			1625	13.1	400			1610	7.9	240			1631	10.5	320			1721	4.3	130	
	2037	34.8	1060			1959	35.1	1070			2155	32.8	1000			2159	38.1	1160			2225	34.8	1060			2310	40.7	1240	
5 Su	0348	10.5	320		20 M	0253	9.8	300		5 W	0451	9.5	290		20 Th	0441	3.6	110		5 Sa	0458	8.2	250		20 Su	0547	3.0	90	
	0939	34.1	1040			0852	35.1	1070			1031	33.5	1020			1031	38.7	1180			1047	35.8	1090			1128	41.0	1250	
	1603	12.8	390			1521	11.2	340			1657	12.1	370			1700	5.6	170			1708	8.9	270			1806	4.3	130	
	2130	34.8	1060			2107	36.4	1110			2225	33.1	1010			2248	39.7	1210			2304	36.1	1100			2350	40.7	1240	
6 M	0440	9.5	290		21 Tu	0401	7.2	220		6 Th	0520	8.9	270		21 F	0529	2.0	60		6 Su	0535	7.2	220		21 M	0628	3.9	120	
	1027	34.4	1050			0954	36.7	1120			1055	33.8	1030			1116	40.0	1220			1124	37.1	1130			1205	40.7	1240	
	1653	12.5	380			1624	8.9	270			1721	11.2	340			1748	4.3	130			1748	7.9	240			1846	4.6	140	
	2214	34.4	1050			2208	38.1	1160			2258	33.8	1030			2334	40.7	1240			2343	37.1	1130						
7 Tu	0524	8.5	260		22 W	0500	4.3	130		7 F	0545	8.2	250		22 Sa	0614	1.3	40		7 M	0615	6.9	210		22 Tu	0029	39.7	1210	
	1104	34.4	1050			1048	38.4	1170			1125	34.4	1050			1158	40.7	1240			1203	38.1	1160			0708	5.6	170	
	1734	11.8	360			1720	6.6	200			1750	10.2	310			1832	3.6	110			1829	7.2	220			1241	40.0	1220	
	2250	34.1	1040			2303	39.4	1200			2334	34.4	1050											1926		5.9	180		
8 W	0600	8.2	250		23 Th	0552	2.0	60		8 Sa	0615	7.9	240		23 Su	0015	41.0	1250		8 Tu	0023	37.7	1150		23 W	0108	38.4	1170	
	1132	34.1	1040			1138	39.4	1200			1159	35.1	1070			0657	1.6	50			0656	7.2	220			0744	7.9	240	
	1804	11.5	350			1810	4.9	150			1823	9.5	290			1238	40.7	1240			1242	38.4	1170			1316	38.7	1180	
	2324	33.8	1030			2353	40.4	1230								1914	3.9	120			1912	7.2	220			2001	7.5	230	
9 Th	0627	8.2	250		24 F	0639	1.0	30		9 Su	0011	35.4	1080		24 M	0058	40.4	1230		9 W	0107	37.7	1150		24 Th	0147	36.4	1110	
	1159	33.8	1030			1224	40.0	1220			0648	7.5	230			0738	3.3	100			0738	8.2	250			0814	10.2	310	
	1829	11.2	340			1857	4.3	130			1235	35.8	1090			1316	40.4	1230			1323	38.1	1160			1353	36.7	1120	
	2359	33.8	1030								1859	8.9	270			1954	5.2	160			1956	7.9	240			2033	9.5	290	
10 F	0652	8.2	250		25 Sa	0039	40.7	1240		10 M	0049	36.1	1100		25 Tu	0138	39.4	1200		10 Th	0151	37.1	1130		25 F	0229	34.4	1050	
	1231	33.8	1030			0725	1.0	30			0725	7.5	230			0816	5.6	170			0822	9.5	290			0846	12.8	390	
	1856	10.8	330			1308	40.0	1220			1312	36.4	1110			1353	39.4	1200			1405	37.4	1140			1433	34.4	1050	
						1941	4.3	130			1937	8.9	270			2031	6.9	210			2042	9.2	280			2107	11.5	350	
11 Sa	0035	33.8	1030		26 Su	0124	40.4	1230		11 Tu	0129	36.4	1110		26 W	0218	37.7	1150		11 F	0238	35.8	1090		26 Sa	0315	32.2	980	
	0720	8.2	250			0808	2.0	60			0803	8.2	250			0850	8.2	250			0910	11.5	350			0922	14.8	450	
	1305	34.1	1040			1350	39.7	1210			1431	36.4	1110			1431	37.7	1150			1451	35.8	1090			1518	32.2	980	
	1927	10.8	330			2024	5.2	160			2017	9.2	280			2106	9.2	280			2135	10.8	330			2150	13.5	410	
12 Su	0112	34.1	1040		27 M	0207	39.4	1200		12 W	0210	36.1	1100		27 Th	0300	35.4	1080		12 Sa	0335	33.8	1030		27 Su	0410	30.2	920	
	0752	8.5	260			0849	3.9	120			0843	9.5	290			0922	11.2	340			1006	13.5	410			1010	16.4	500	
	1341	34.4	1050			1431	39.0	1190			1431	36.4	1110			1511	35.8	1090			1546	33.8	1030			1611	29.9	910	
	2002	10.5	320			2105	6.9	210			2100	9.8	300			2141	11.2	340			2244	12.1	370			2248	15.1	460	
13 M	0150	34.1	1040		28 Tu	0251	37.7	1150		13 Th	0257	35.4	1080		28 F	0348	33.1	1010		13 Su	0446	32.2	980		28 M	0534	29.2	890	
	0828	8.9	270			0929	6.6	200			0929	11.2	340			0959	13.8	420			1122	14.8	450			1114	17.4	530	
	1418	34.8																											

Punta Loyola, Argentina, 2009

Times and Heights of High and Low Waters

October				November				December																					
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height																
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm															
1 Th	0219	12.8	390		16 F	0303	5.6	170		1 Su	0250	9.8	300		16 M	0412	7.2	220		1 Tu	0310	9.8	300		16 W	0446	9.5	290	
	0818	31.8	970			0856	38.4	1170			0853	36.4	1110			0952	39.7	1210			0909	38.4	1170			1016	37.7	1150	
	1425	13.5	410			1525	6.9	210			1510	9.2	280			1640	6.2	190			1537	7.5	230			1718	6.6	200	
	2029	31.8	970			2120	38.7	1180			2120	36.4	1110			2226	38.7	1180			2144	38.1	1160			2300	37.1	1130	
2 F	0254	11.2	340		17 Sa	0350	4.9	150		2 M	0338	8.5	260		17 Tu	0459	7.9	240		2 W	0406	8.5	260		17 Th	0533	9.5	290	
	0853	33.8	1030			0939	39.7	1210			0937	38.4	1170			1031	39.7	1210			0959	39.4	1200			1054	37.1	1130	
	1505	11.5	350			1612	5.6	170			1600	7.2	220			1727	5.9	180			1637	5.9	180			1802	6.6	200	
	2110	33.8	1030			2204	39.7	1210			2206	38.1	1160			2308	38.4	1170			2236	39.0	1190			2338	36.4	1110	
3 Sa	0333	9.5	290		18 Su	0436	4.6	140		3 Tu	0428	7.5	230		18 W	0544	8.5	260		3 Th	0504	7.9	240		18 F	0614	9.8	300	
	0931	35.8	1090			1020	40.7	1240			1022	39.7	1210			1108	38.7	1180			1049	40.0	1220			1130	36.1	1100	
	1547	9.5	290			1743	4.9	150			1651	6.2	190			1812	6.2	190			1737	4.6	140			1841	6.9	210	
	2151	35.8	1090			2246	40.0	1220			2253	39.0	1190			2347	37.4	1140			2329	39.4	1200						
4 Su	0415	8.2	250		19 M	0520	5.2	160		4 W	0519	7.5	230		19 Th	0626	9.5	290		4 F	0602	7.2	220		19 Sa	0011	35.4	1080	
	1010	37.4	1140			1058	40.7	1240			1107	40.4	1230			1144	37.4	1140			1140	40.0	1220			0648	10.5	320	
	1631	7.9	240			1743	4.9	150			1745	5.2	160			1854	7.2	220			1835	3.9	120			1206	35.1	1070	
	2233	37.4	1140			2326	39.7	1210			2341	39.4	1200								1912	7.9	240			1912	7.9	240	
5 M	0458	7.2	220		20 Tu	0602	6.6	200		5 Th	0611	7.5	230		20 F	0025	36.1	1100		5 Sa	0020	39.0	1190		20 Su	0043	34.4	1050	
	1052	38.7	1180			1134	40.4	1230			1154	40.0	1220			0703	10.8	330			0658	6.9	210			0714	11.2	340	
	1717	6.6	200			1825	5.6	170			1839	5.2	160			1221	35.8	1090			1232	39.4	1200			1241	33.8	1030	
	2317	38.7	1180													1929	8.2	250			1929	3.6	110			1936	8.9	270	
6 Tu	0544	6.9	210		21 W	0004	38.7	1180		6 F	0030	38.7	1180		21 Sa	0102	34.4	1050		6 Su	0114	38.4	1170		21 M	0115	33.5	1020	
	1133	39.7	1210			0642	8.2	250			0705	8.2	250			0732	12.1	370			0751	7.2	220			0738	11.8	360	
	1804	6.2	190			1209	39.0	1190			1241	39.0	1190			1258	34.1	1040			1325	38.1	1160			1317	32.8	1000	
						1904	6.6	200			1935	5.6	170			1957	9.8	300			2024	4.3	130			2002	10.2	310	
7 W	0001	39.0	1190		22 Th	0043	37.1	1130		7 Sa	0123	37.4	1140		22 Su	0139	32.8	1000		7 M	0208	37.1	1130		22 Tu	0150	32.5	990	
	0631	7.2	220			0718	9.8	300			0759	9.2	280			0800	13.1	400			0845	7.9	240			0809	12.5	380	
	1216	39.7	1210			1245	37.4	1140			1332	37.4	1140			1337	32.5	990			1421	36.7	1120			1354	31.8	970	
	1852	6.2	190			1940	8.2	250			2032	6.6	200			2026	11.2	340			2118	5.2	160			2034	11.2	340	
8 Th	0046	38.7	1180		23 F	0122	35.4	1080		8 Su	0218	35.8	1090		23 M	0219	31.5	960		8 Tu	0304	36.1	1100		23 W	0228	31.8	970	
	0718	8.2	250			0749	11.8	360			0857	10.2	310			0834	14.4	440			0939	9.2	280			0843	13.5	410	
	1259	38.7	1180			1322	35.4	1080			1427	35.4	1080			1419	30.8	940			1521	35.4	1080			1434	31.2	950	
	1941	6.9	210			2010	9.8	300			2134	7.5	230			2101	12.5	380			2214	6.9	210			2112	12.1	370	
9 F	0134	37.4	1140		24 Sa	0202	33.5	1020		9 M	0322	34.4	1050		24 Tu	0302	30.2	920		9 W	0403	35.1	1070		24 Th	0308	31.5	960	
	0807	9.8	300			0820	13.5	410			1000	11.5	350			0914	15.1	460			1036	10.2	310			0925	13.8	420	
	1344	37.4	1140			1402	33.1	1010			1535	33.8	1030			1504	29.5	900			1626	34.4	1050			1520	30.8	940	
	2034	8.2	250			2043	11.8	360			2240	8.5	260			2145	13.5	410			2311	8.2	250			2156	13.1	400	
10 Sa	0226	35.8	1090		25 Su	0246	31.5	960		10 Tu	0434	33.5	1020		25 W	0350	29.5	900		10 Th	0505	34.8	1060		25 F	0355	31.5	960	
	0901	11.5	350			0857	15.1	460			1107	11.8	360			1001	15.7	480			1136	11.2	340			1013	14.4	440	
	1435	35.4	1080			1446	30.8	940			1656	33.1	1010			1559	28.9	880			1734	34.1	1040			1616	30.5	930	
	2135	9.8	300			2125	13.5	410			2345	8.9	270			2235	14.1	430								2247	14.1	430	
11 Su	0328	33.8	1030		26 M	0336	29.9	910		11 W	0545	33.8	1030		26 Th	0444	29.9	910		11 F	0010	9.5	290		26 Sa	0448	31.8	970	
	1006	13.1	400			0942	16.4	500			1212	11.5	350			1054	15.7	480			0605	34.8	1060			1108	14.4	440	
	1536	33.1	1010			1537	29.2	890			1811	33.8	1030			1702	29.2	890			1239	11.2	340			1720	30.8	940	
	2252	10.8	330			2217	14.4	440								2331	14.1	430			1839	34.4	1050			2344	14.1	430	
12 M	0446	32.5	990		27 Tu	0436	28.9	880		12 Th	0046	8.5	260		27 F	0541	30.8	940		12 Sa	0109	10.2	310		27 Su	0549	32.5	990	
	1124	13.8	420			1037	17.1	520			0646	35.1	1070			1152	14.8	450			0703	35.8	1090			1210	13.8	420	
	1704	32.2	980			1640	27.9	850			1312	10.5	320			1806	30.2	920			1340	10.5	320			1827	31.8	970	
						2321	15.1	460			1912	35.1	1070								1940	35.4	1080						
13 Tu	0010	10.2	310		28 W	0541	28.9	880		13 F	0142	7.9	240		28 Sa	0027	13.5	410		13 Su	0207	10.2	310		28 M	0045	13.8	420	
	0611	32.8	1000			1141	16.7	510			0739	36.4	1110			0636	32.5	990			0756	36.7	1120			0649	33.8	1030	
	1238	12.8	390			1753	28.2	860			1408																		

EXTRA TIDES, 2008

Rio de Janeiro, Brazil				July				Santos, Brazil				November			
January				1	2128	2.6	80	January				24	2156	3.0	90
17	1845	3.3	100	27	2358	1.6	50	December							
	2313	2.0	60	28	1830	3.0	90								
18	1508	1.6	50		2243	1.6	50	19	2134	3.3	100				
	1945	3.0	90	29	1551	2.0	60	20	2356	3.3	100				
	2334	2.3	70		1913	2.6	80	February							
February				30	1708	2.0	60	17	2219	3.0	90				
3	2053	3.0	90		2021	2.6	80	18	1643	2.0	60				
	2202	3.0	90	August				March							
4	1715	1.3	40	14	1619	1.6	50	18	2217	3.0	90				
14	2341	2.0	60		1953	2.6	80	May							
16	1902	3.0	90		2319	2.0	60	17	2143	3.6	110				
	2238	2.3	70	15	2300	2.3	70	June							
17	1551	1.6	50	26	2217	1.3	40	15	1956	3.6	110				
	2028	2.6	80	27	1515	2.3	70	16	2102	3.3	100				
	2224	2.6	80		1834	2.6	80	July							
March				28	2300	1.6	50	1	2126	2.6	80				
3	1851	3.3	100	28	1653	2.3	70	2	2056	2.6	80				
	2151	2.6	80		1934	2.6	80	16	2300	2.6	80				
	2356	3.0	90	September				30	1758	3.0	90				
5	1706	1.3	40	10	2338	1.3	40		2202	2.3	70				
17	2158	2.6	80	11	1813	3.0	90	31	2123	2.3	70				
18	1956	3.0	90		2223	1.6	50	August							
	2139	2.6	80	12	1609	2.0	60	27	2202	2.0	60				
31	2241	3.0	90		1908	2.6	80	28	1658	3.0	90				
April					2236	2.0	60		2136	2.0	60				
1	1843	3.3	100	23	2143	1.0	30	September							
	2056	3.0	90	24	2209	1.3	40	26	2323	2.3	70				
	2343	3.3	100	25	1453	2.3	70	October							
3	1653	1.3	40		1802	3.0	90	10	1758	3.0	90				
14	2351	2.6	80		2254	1.6	50		2211	1.6	50				
16	2121	3.0	90	26	1611	2.3	70	11	2338	2.3	70				
29	2200	3.0	90		1902	2.6	80	24	1753	3.0	90				
30	2306	3.3	100	October				25	1851	2.6	80				
May				10	1758	3.0	90	November							
29	2224	3.0	90		2211	1.6	50	8	1756	3.0	90				
30	2326	3.0	90	11	2338	2.3	70								

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

TABLE 2. - TIDAL DIFFERENCES AND OTHER CONSTANTS

low waters at the reference station should be multiplied by these respective ratios. Where only one is given, the omitted ratio is either unreliable or unknown.

For some subordinate stations there is given in parentheses a ratio as well as a correction in feet. In those instances, each predicted high and low water at the reference station should first be multiplied by the ratio and then the correction in feet is added to or subtracted from each product as indicated.

As an example, at 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 predications for Treadwell Bay in column (4).

(1)		(2)		(3)		(4)	
<i>Time</i> h.m.	<i>Height</i> ft.	<i>Time</i> Corrections	<i>Height</i> Corrections	<i>Time</i> h.m.	ft.	<i>Height</i> centimeters	
0326	0.6	-1 12	x0.31 + 1.4	0214	1.6	49	
0900	5.1	-0 44	x0.31 + 1.4	0816	3.0	91	
1608	-0.3	-1 12	x0.31 + 1.4	1456	1.3	40	
2148	5.4	-0 44	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 not 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 predications 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 Predications.— 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 predications and to update the harmonic constants used in generating annual predications. 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 1960-1978 National Tidal Datum Epoch. Stations whose position

TABLE 2. - TIDAL DIFFERENCES AND OTHER CONSTANTS

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 1941-1959 National Tidal Datum Epoch. Finally, stations whose positions are reported to the 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 predications.

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	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			on Harrington Harbour, p.12						
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			on Harrington Harbour, p.12						
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	Blomsterbugten	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	Frederiksdal	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, Maligjak 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, Rifkol	67° 55'	53° 50'	-1 42	-1 42	+1.0	-0.8	5.6	7.4	3.6
87	Nunarssuaq, Kronprinsens Ejländen	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			
	NORTHERN CANADA Time meridian, local	North	West	h	m	h	m	ft	ft	ft
	Baffin Bay, etc., West Side			on Halifax, p.20						
101	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	Pikyulik 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	Nachvak 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
	<i>Hamilton Inlet and Lake Melville</i>									
187	Indian Harbour	54° 27'	57° 12'	-0 37	-1 33	-1.0	-0.9	4.3	5.7	3.4
189	Ticoralak Island	54° 17'	58° 12'	-0 35	-0 55	-0.9	-0.5	4.0	4.9	3.7
191	Rigolet	54° 11'	58° 25'	-0 22	-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	Curlwew 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			
	LABRADOR-cont. Time meridian, 52° 30' W	North	West	h m	h m	ft	ft	ft	ft	ft
				on Halifax, p.20						
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
	<i>Strait of Bell Isle</i>			on Harrington Harbour, p.12						
207	Chateau Bay	52° 00'	55° 50'	-3 08	-3 19	*0.69	*0.81	2.4	3.1	2.5
209	Red Bay	51° 43'	56° 25'	-2 00	-1 55	*0.56	*0.56	2.1	2.6	2.0
211	Forteau Bay	51° 27'	56° 53'	-0 26	-0 17	*0.78	*0.81	2.9	3.7	2.8
	NEWFOUNDLAND, East Coast			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			on Argentia, p.4						
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>			<i>Daily predictions</i>						
239	ARGENTIA	47° 18'	53° 59'					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-au-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'					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	Natashquan	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	Brandypot 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° 29'	-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'					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	--
	QUEBEC, Gulf of St. Lawrence-cont. Time meridian, 60° W			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 <i>Chaleur Bay</i>	48° 38'	64° 10'	+4 59	+5 11	*0.67	*0.52	2.5	3.2	2.5
377	Port Daniel	48° 10'	64° 57'	+5 27	+5 42	-0.7	-0.6	3.1	3.8	3.3
379	Paspebiac	48° 01'	65° 14'	+5 22	+5 34	-0.4	-1.0	3.8	4.6	3.2
381	Carleton 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									
	<i>Chaleur Bay-cont.</i>									
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	Caraquet 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
								Mean Spring		
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							Mean Diurnal		
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

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			
	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'	<i>Daily predictions</i>				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
	<i>Cape Breton Island</i>									
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									
	<i>Cape Breton Island—cont.</i>									
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	Gabarus 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	Isaacs 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° 03'	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'	<i>Daily predictions</i>				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° 41'	+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
	<i>Minas Basin</i>									
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° 13'	+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									
	<i>Petitcodiac River <3></i>									
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'	<i>Daily predictions</i>				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
				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	Wilson's 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	EASTPORT	44° 54.2'	66° 59.1'	<i>Daily predictions</i>				18.35	21.18	9.6
	<i>Cobscook Bay</i>									
597	Garnet Point, Pennamquan River	44° 55.4'	67° 07.8'	+0	11	+0	14	*1.04	*1.00	19.17 22.05 10.04
599	Coffins Point	44° 52.2'	67° 06.5'	+0	31	+0	33	*0.94	*0.77	17.3 19.7 9.0
601	Birch Islands	44° 52.5'	67° 09.5'	+0	59	+1	13	*0.94	*0.75	17.4 19.8 9.0
603	Cutler, Little River	44° 39.4'	67° 12.6'	-0	10	-0	19	*0.74	*0.74	13.5 15.4 7.1
605	Cutler, Naval Radio Station	44° 38.5'	67° 17.8'	-0	06	-0	15	*0.70	*0.70	12.8 14.6 6.8
607	Stone Island, Machias Bay	44° 36.2'	67° 22.1'	-0	11	-0	28	*0.68	*0.68	12.4 14.1 6.5
609	Machiasport, Machias River	44° 41.9'	67° 23.6'	+0	01	-0	09	*0.69	*0.69	12.6 14.4 6.6
611	Shoppee Point, Englishman Bay	44° 36.9'	67° 29.8'	-0	05	-0	13	*0.66	*0.66	12.1 13.8 6.2
				on Portland, p.36						
613	Steele Harbor Island	44° 29.6'	67° 32.6'	-0	28	-0	20	*1.27	*1.27	11.6 13.3 6.2
615	Millbridge, Narraguagus River, Maine	44° 32.4'	67° 52.5'	-0	15	+0	05	*1.23	*1.09	11.31 12.89 6.03
617	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
619	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						
621	Winter Harbor, Frenchman Bay	44° 23.3'	68° 05.2'	-0	01	+0	10	*0.95	*0.95	10.1 11.6 5.4
	<i>Mount Desert Island</i>									
623	BAR HARBOR	44° 23.5'	68° 12.3'	<i>Daily Predictions</i>				10.56	12.25	5.66
625	Southwest Harbor	44° 16.5'	68° 18.8'	+0	00	-0	27	*0.96	*0.95	10.2 11.7 5.5
627	Bass Harbor	44° 14.5'	68° 21.2'	+0	04	-0	27	*0.93	*0.93	9.9 11.3 5.4
	<i>Blue Hill Bay</i>									
629	Blue Hill Harbor	44° 24.5'	68° 33.8'	+0	09	+0	11	*0.95	*0.95	10.1 11.6 5.4
631	Mackerel Cove	44° 10.2'	68° 26.1'	+0	02	-0	27	*0.94	*0.93	10.0 11.5 5.4
633	Ellsworth, Union River	44° 32.1'	68° 25.3'	+0	15	+0	16	*1.00	*0.97	10.59 12.07 5.67
635	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									
	<i>Eggemoggin Reach</i>									
637	Center Harbor	44° 15.8'	68° 35.2'	+0	09	+0	12	*0.95	*0.95	10.1 11.5 5.4
639	Little Deer Isle	44° 17.5'	68° 41.6'	+0	16	+0	14	*0.94	*0.93	10.0 11.5 5.4
641	Isle Au Haut	44° 04.4'	68° 38.2'	-0	01	-0	27	*0.87	*0.88	9.3 10.7 5.0
643	Stonington, Deer Isle	44° 09.2'	68° 39.7'	+0	08	+0	06	*0.91	*0.90	9.7 11.2 5.2
645	Matinicus Harbor, Wheaton Island	43° 51.7'	68° 52.9'	+0	05	-0	27	*0.85	*0.85	9.0 10.4 4.8
647	Vinalhaven, Vinalhaven Island	44° 02.6'	68° 50.4'	+0	09	+0	10	*0.87	*0.88	9.3 10.7 5.0
649	North Haven	44° 07.6'	68° 52.4'	+0	13	+0	10	*0.91	*0.90	9.7 11.2 5.3
651	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
653	Castine	44° 23.2'	68° 47.8'	+0	15	+0	11	*0.95	*1.00	10.1 11.6 5.4
	<i>Penobscot River</i>									
655	Gross Point, Eastern Channel	44° 32.2'	68° 45.5'	-0	06	+0	10	*0.99	*0.98	10.4 12.0 5.6
657	Bucksport	44° 34.3'	68° 48.1'	-0	04	+0	11	*1.01	*1.00	10.8 12.4 5.8
659	Winterport	44° 38.2'	68° 50.5'	-0	09	+0	04	*1.11	*0.92	11.76 13.64 6.22
661	Sandy Point	44° 40.3'	68° 48.3'	+0	06	+0	08	*0.99	*0.98	10.5 12.1 5.6
663	Bangor	44° 47.7'	68° 46.3'	-0	06	+0	18	*1.25	*0.87	13.40 14.97 7.03
665	Belfast	44° 25.6'	69° 00.3'	+0	09	+0	04	*0.97	*1.03	10.23 11.66 5.51
667	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						
669	Tenants Harbor	43° 57.9'	69° 13.0'	-0	11	-0	11	*1.02	*1.02	9.3 10.6 5.0
671	Monhegan Island	43° 45.9'	69° 19.3'	-0	13	-0	09	*0.97	*0.97	8.8 10.1 4.7
673	Burnt Island, Georges Islands	43° 52.3'	69° 17.7'	-0	13	-0	12	*0.98	*0.98	8.9 10.2 4.8
	<i>St. George River</i>									
675	Port Clyde	43° 55.5'	69° 15.6'	-0	11	-0	07	*0.98	*0.98	8.9 10.2 4.8
677	Otis Cove	43° 59.2'	69° 14.2'	-0	15	-0	14	*1.00	*1.00	9.1 10.5 4.9
679	Thomaston	44° 04.3'	69° 10.9'	-0	04	-0	03	*1.03	*1.03	9.4 10.8 5.0
681	New Harbor, Muscongus Bay	43° 52.5'	69° 29.4'	-0	10	-0	08	*0.97	*0.97	8.8 10.1 4.7
683	Muscongus Harbor, Muscongus Sound	43° 58.0'	69° 26.5'	-0	09	-0	03	*0.99	*0.99	9.0 10.4 4.8
685	Friendship Harbor	43° 58.2'	69° 20.5'	-0	18	-0	11	*0.99	*0.99	9.0 10.4 4.8
	<i>Medomak River</i>									
687	Jones Neck	44° 00.9'	69° 22.8'	-0	10	-0	05	*1.00	*1.00	9.1 10.5 4.9
689	Waldoboro	44° 05.6'	69° 22.6'	-0	16	-0	04	*1.04	*1.04	9.5 10.9 5.1
691	Pemaquid Harbor, Johns Bay	43° 52.6'	69° 31.5'	-0	05	-0	04	*0.97	*0.97	8.8 10.1 4.7

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	Spring	
				High Water	Low Water	High Water	Low Water			
	MAINE, outer coast—cont. Time meridian, 75° W	North	West	h	m	h	m	ft	ft	ft
				on Portland, p.36						
	<i>Damariscotta River</i>									
693	East Boothbay	43° 51.9'	69° 35.0'	-0 02	+0 01	*0.98	*0.98	8.9	10.2	4.8
695	Walpole	43° 56.0'	69° 34.8'	+0 06	+0 14	*1.03	*1.06	9.35	10.66	5.05
697	Newcastle	44° 02.0'	69° 32.2'	+0 16	+0 25	*1.02	*1.02	9.3	10.7	5.0
699	Damariscove Harbor, Damariscove Island	43° 45.5'	69° 36.9'	-0 09	-0 10	*0.97	*0.97	8.8	10.1	4.7
701	Boothbay Harbor	43° 51.1'	69° 37.7'	-0 06	-0 08	*0.97	*0.97	8.8	10.1	4.7
703	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>									
705	Isle of Springs	43° 51.6'	69° 41.2'	-0 02	-0 04	*0.98	*0.98	8.9	10.3	4.8
707	Cross River entrance	43° 55.5'	69° 40.2'	+0 07	+0 04	*1.00	*1.00	9.1	10.5	4.9
709	Wiscasset	44° 00.0'	69° 40.0'	+0 16	+0 04	*1.03	*1.03	9.4	10.8	5.0
711	Sheepscot (below rapids)	44° 03.0'	69° 37.1'	+0 20	+0 20	*1.05	*1.05	9.6	11.0	5.2
713	Back River	43° 57.5'	69° 41.1'	+0 34	+0 31	*1.00	*1.00	9.1	10.5	4.9
715	Robinhood, Sasanoa River	43° 51.2'	69° 44.0'	+0 14	+0 14	*0.97	*0.97	8.8	10.1	4.7
717	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>									
719	Fort Popham, Hunniwell Point	43° 45.3'	69° 47.3'	+0 09	+0 04	*0.92	*0.92	8.4	9.7	4.5
721	Phippsburg	43° 49.1'	69° 48.6'	+0 26	+0 28	*0.88	*0.88	8.0	9.2	4.3
723	Bath	43° 55.1'	69° 48.8'	+1 01	+1 17	*0.70	*0.70	6.4	7.4	3.4
725	Sturgeon Island, Merrymeeting Bay	43° 58.9'	69° 50.1'	+2 00	+2 04	*0.58	*0.58	5.3	6.1	2.8
727	Androscoggin River entrance	43° 57.0'	69° 53.3'	+2 24	+3 26	*0.52	*0.52	4.7	5.4	2.5
729	Brunswick, Androscoggin River	43° 55.3'	69° 57.8'	+2 35	+4 36	*0.42	*0.42	3.8	4.4	2.0
731	Bowdoinham, Cathance River	44° 00.5'	69° 53.7'	+2 34	+2 42	*0.63	*0.63	5.7	6.6	3.1
	Casco Bay									
733	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
735	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
737	South Harpswell, Potts Harbor	43° 44.3'	70° 01.4'	+0 02	+0 01	*0.98	*0.98	8.9	10.2	4.8
739	Wilson Cove, Middle Bay	43° 49.5'	69° 58.6'	+0 02	+0 02	*1.00	*1.00	9.1	10.5	4.9
741	South Freeport	43° 49.2'	70° 06.2'	+0 12	+0 10	*0.99	*0.99	9.0	10.3	4.8
743	Prince Point	43° 45.7'	70° 10.4'	+0 00	+0 01	*1.00	*0.99	9.19	10.57	4.90
745	Doyle Point	43° 45.1'	70° 08.4'	-0 02	-0 03	*1.00	*0.88	9.2	10.5	4.9
747	Falmouth Foreside	43° 43.9'	70° 12.3'	+0 01	+0 01	*1.00	*0.97	9.16	10.53	4.91
749	Great Chebeague Island	43° 43.3'	70° 08.5'	+0 02	+0 02	*1.00	*1.03	9.11	10.48	4.91
751	Cliff Island, Luckse Sound	43° 41.7'	70° 06.6'	-0 02	-0 02	*1.00	*1.00	9.1	10.4	4.9
753	Vaill Island	43° 40.6'	70° 09.3'	+0 05	+0 01	*0.98	*1.03	9.0	10.3	4.8
755	Long Island	43° 41.4'	70° 10.2'	-0 01	-0 01	*1.00	*1.00	9.09	10.45	4.89
757	Cow Island	43° 41.4'	70° 11.4'	-0 01	+0 00	*1.00	*1.00	9.11	10.48	4.89
759	Presumpscoot River Bridge	43° 41.4'	70° 14.8'	+0 01	+0 04	*1.01	*1.06	9.2	10.6	5.0
761	Back Cove	43° 41'	70° 15'	+0 02	+0 06	*0.97	*0.97	9.1	10.5	4.9
763	Great Diamond Island	43° 40.2'	70° 12.0'	+0 00	+0 00	*1.00	*1.03	9.08	10.44	4.89
765	Peak Island	43° 39.3'	70° 12.0'	-0 04	-0 08	*0.99	*0.99	9.0	10.4	4.8
767	Cushing Island	43° 38.7'	70° 11.9'	+0 01	+0 01	*0.99	*1.03	9.02	10.37	4.87
769	PORTLAND	43° 39.6'	70° 14.8'			<i>Daily predictions</i>		9.12	10.53	4.91
771	Fore River	43° 38.5'	70° 17.1'	+0 02	+0 02	*1.00	*1.03	9.16	10.53	4.93
773	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.									
775	Old Orchard Beach	43° 31'	70° 22'	+0 00	-0 06	*0.97	*0.97	8.8	10.1	4.7
777	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
779	Biddeford, Saco River	43° 29.5'	70° 26.8'	+0 12	+0 26	*0.99	*0.97	9.06	10.33	4.86
781	Cape Porpoise	43° 22.0'	70° 25.9'	+0 12	+0 14	*0.95	*0.95	8.7	9.9	4.7
783	Kennebunkport	43° 21.5'	70° 28.6'	+0 07	+0 05	*0.97	*1.00	8.84	10.08	4.76
785	Wells, Webhannet River	43° 19.2'	70° 33.8'	+0 06	+0 02	*0.96	*0.97	8.81	10.04	4.73
787	Cape Neddick	43° 10.0'	70° 35.6'	+0 02	+0 08	*0.95	*1.00	8.69	9.99	4.68
789	York Harbor	43° 07.9'	70° 38.5'	+0 03	+0 13	*0.95	*0.95	8.6	9.9	4.6
791	Fort Point, York Harbor	43° 07.8'	70° 38.3'	-0 04	+0 10	*0.95	*0.94	8.69	9.99	4.66
793	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									
	<i>Portsmouth Harbor</i>									
795	Jaffrey Point	43° 03.4'	70° 43.9'	-0 03	-0 05	*0.95	*0.95	8.7	10.0	4.7
797	Gerrish Island	43° 04.0'	70° 41.7'	-0 02	-0 03	*0.95	*0.95	8.7	10.0	4.7
799	Fort Point	43° 04.3'	70° 42.7'	+0 03	+0 07	*0.94	*0.94	8.6	9.9	4.6
801	Kittery Point	43° 04.9'	70° 42.2'	-0 07	+0 01	*0.96	*0.96	8.7	10.0	4.7
803	Seavey Island	43° 05'	70° 45'	+0 20	+0 18	*0.89	*0.89	8.1	9.4	4.4
805	Portsmouth	43° 04.7'	70° 45.1'	+0 22	+0 17	*0.86	*0.86	7.8	9.0	4.2
	<i>Piscataqua River</i>									
807	Atlantic Heights	43° 05.4'	70° 46.0'	+0 37	+0 28	*0.82	*0.82	7.5	8.6	4.0
809	Dover Point	43° 07'	70° 50'	+1 33	+1 27	*0.70	*0.70	6.4	7.4	3.4
811	Dover, Cocheco River	43° 11.9'	70° 52.1'	+1 45	+1 39	*0.77	*0.76	7.04	8.03	3.78
813	Salmon Falls River	43° 11.4'	70° 49.5'	+1 35	+1 52	*0.75	*0.75	6.8	7.8	3.6
815	Squamscott River RR. Bridge	43° 03.2'	70° 54.8'	+2 19	+2 41	*0.75	*0.75	6.8	7.8	3.6
817	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
819	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
				on Portland, p.36						
821	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
823	Newburyport	42° 48.7'	70° 51.9'	+0 31	+1 11	*0.86	*0.86	7.8	9.0	4.2
825	Salisbury Point	42° 50.3'	70° 54.5'	+0 55	+1 18	*0.83	*0.56	7.64	8.71	4.01
827	Merrimacport	42° 49.5'	70° 59.3'	+1 26	+2 08	*0.76	*0.50	7.05	8.04	3.70
829	Riverside	42° 45.8'	71° 04.6'	+1 56	+3 30	*0.62	*0.35	5.72	6.52	2.80
831	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
833	Essex	42° 37.9'	70° 46.6'	+0 22	+0 31	*1.00	*0.94	9.18	10.47	4.90
835	Annisquam, Lobster Cove	42° 39.3'	70° 40.6'	+0 11	+0 03	*0.97	*0.97	8.81	10.04	4.74
837	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						
839	Gloucester Harbor	42° 36.6'	70° 39.6'	+0 00	-0 04	*0.93	*0.97	8.80	10.03	4.73
841	Salem, Salem Harbor	42° 31.4'	70° 52.6'	-0 02	-0 05	*0.94	*0.97	8.93	10.18	4.79
843	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									
845	Boston Light	42° 19.7'	70° 53.5'	-0 01	-0 02	*0.95	*0.97	9.05	10.03	4.85
847	Deer Island (south end)	42° 20.7'	70° 57.5'	+0 01	+0 00	*0.97	*0.97	9.3	10.8	4.9
849	BOSTON	42° 21.3'	71° 03.1'			<i>Daily predictions</i>		9.49	11.07	5.09
851	Charlestown, Charles River entrance	42° 22.5'	71° 03.0'	+0 00	+0 01	*1.00	*1.00	9.5	11.0	5.0
853	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
855	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
857	Neponset, Neponset River	42° 17.1'	71° 02.4'	-0 02	+0 03	*1.00	*1.00	9.5	11.0	5.0
859	Moon Head	42° 18.5'	70° 59.3'	+0 01	+0 04	*0.99	*0.99	9.4	10.9	5.0
	Hingham Bay									
861	Nut Island, Quincy Bay	42° 16.8'	70° 57.3'	+0 01	+0 01	*0.99	*1.00	9.42	10.74	5.05
863	Weymouth Fore River Bridge	42° 14.7'	70° 58.1'	+0 09	+0 06	*1.00	*1.00	9.5	11.0	5.0
865	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
867	Hingham	42° 14.8'	70° 53.1'	+0 09	+0 08	*1.00	*1.00	9.5	11.0	5.0
869	Nantasket Beach, Weir River	42° 16.2'	70° 51.6'	+0 06	+0 07	*0.99	*0.99	9.4	10.9	5.0
871	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									
873	Cohasset Harbor (White Head)	42° 14.9'	70° 47.0'	+0 04	-0 02	*0.92	*0.92	8.8	10.2	4.7
875	Scituate, Scituate Harbor	42° 12.1'	70° 43.6'	+0 03	-0 01	*0.95	*1.03	8.94	10.19	4.83
877	Damons Point, North River	42° 09.6'	70° 44.0'	+0 20	+0 36	*0.89	*0.89	8.5	9.9	4.5
879	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									
881	Duxbury, Duxbury Harbor	42° 02.3'	70° 40.2'	+0 06	+0 33	*1.04	*1.03	9.89	11.27	5.30
883	Plymouth	41° 57.6'	70° 39.7'	+0 04	+0 18	*1.03	*1.00	9.76	11.13	5.22
885	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
887	Cape Cod Canal, Sagamore	41° 46.5'	70° 32.1'	-0 15	-0 06	*0.83	*0.88	7.90	9.01	4.25
889	Cape Cod Canal, Bourmedale	41° 46.2'	70° 33.7'	-0 29	-0 21	*0.66	*0.79	6.18	7.05	3.37
891	Cape Cod Canal, Bourne Bridge	41° 44.7'	70° 35.6'	-1 13	-0 24	*0.46	*0.79	4.29	4.89	2.42
893	Barnstable Harbor, Beach Point	41° 43.3'	70° 17.1'	+0 11	+0 30	*1.00	*1.00	9.5	11.0	5.0
895	Sesuit Harbor, East Dennis	41° 45.1'	70° 09.3'	+0 02	-0 01	*1.02	*0.82	9.73	11.09	5.14
897	Wellfleet	41° 55.8'	70° 02.5'	+0 14	+0 30	*1.05	*1.05	10.0	11.6	5.4
899	Provincetown	42° 03'	70° 11'	+0 16	+0 18	*0.95	*0.95	9.1	10.6	4.8
	Cape Cod									
901	Chatham, Stage Harbor	41° 40.0'	69° 58.0'	+0 46	+0 19	*0.43	*0.43	3.95	4.50	2.23
903	Chatham Harbor, Aunt Lydias Cove	41° 41.6'	69° 57.0'	+1 08	+1 57	*0.48	*0.35	4.63	5.27	2.43
905	Pleasant Bay	41° 44.2'	69° 58.9'	+2 28	+3 27	*0.34	*0.34	3.2	3.7	1.7
907	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									
909	Saquatucket Harbor	41° 40.1'	70° 03.4'	+0 46	+0 16	*0.41	*0.41	3.72	4.24	2.14
911	Wychmere Harbor	41° 39.9'	70° 03.9'	+0 52	+0 25	*0.39	*0.39	3.7	4.3	1.9
913	Dennisport	41° 39.5'	70° 06.9'	+1 03	+0 38	*0.36	*0.36	3.4	4.1	1.8
915	South Yarmouth, Bass River	41° 39.9'	70° 11.0'	+1 48	+1 46	*0.29	*0.29	2.8	3.4	1.5
917	Hyannis Port	41° 37.8'	70° 18.0'	+1 03	+0 31	*0.32	*0.32	3.1	3.7	1.6
919	Cotuit Highlands	41° 36.5'	70° 26.2'	+1 17	+0 47	*0.26	*0.26	2.5	3.0	1.3
921	PoPONeSset Island, PoPONeSset Bay	41° 35.2'	70° 27.8'	+2 03	+1 52	*0.24	*0.24	2.3	2.8	1.2
923	Falmouth Heights	41° 32.7'	70° 35.9'	-0 16	-0 09	*0.14	*0.14	1.3	1.6	0.6
	Nantucket Island									
925	Great Point	41° 23.2'	70° 02.8'	+0 43	+0 28	*0.32	*0.32	3.1	3.7	1.6
927	NANTUCKET	41° 17.1'	70° 05.8'			<i>Daily predictions, p.44</i>		3.0	3.36	1.7
929	Eel Point	41° 17.5'	70° 12.5'	+0 39	+0 07	*0.24	*0.24	2.3	2.7	1.2
931	Muskeget Island, north side	41° 20.2'	70° 18.3'	+0 25	+0 15	*0.21	*0.21	2.0	2.4	1.1

Endnotes can be found at the end of table 2.

TABLE 2 – TIDAL DIFFERENCES AND OTHER CONSTANTS

No.	PLACE	POSITION		DIFFERENCES				RANGES		Mean Tide Level
		Latitude	Longitude	Time		Height		Mean	Spring	
				High Water	Low Water	High Water	Low Water			
	MASSACHUSETTS Martha's Vineyard Time meridian, 75° W	North	West	h	m	ft	ft	ft	ft	ft
				on Newport, p.52						
933	Wasque Point, Chappaquiddick Island	41° 21.8'	70° 27.0'	+2 02	+3 20	*0.31	*0.31	1.1	1.4	0.6
935	Squibnocket Point	41° 18.7'	70° 46.1'	-0 45	-0 02	*0.82	*0.82	2.9	3.7	1.6
937	Nomans Land	41° 15.7'	70° 49.0'	-0 19	+0 18	*0.85	*0.85	3.0	3.6	1.6
939	Gay Head	41° 21.2'	70° 49.8'	-0 06	+0 45	*0.82	*0.82	2.9	3.5	1.5
941	Cedar Tree Neck	41° 26.1'	70° 41.8'	+0 10	+1 32	*0.62	*0.62	2.2	2.8	1.2
				on Boston, p.40						
943	Oak Bluffs	41° 27.5'	70° 33.3'	+0 32	-0 12	*0.18	*0.18	1.7	2.0	0.9
945	Edgartown	41° 23.3'	70° 30.7'	+0 57	+0 18	*0.20	*0.20	1.9	2.3	1.0
	Vineyard Sound			on Newport, p.52						
	<i>Woods Hole</i>									
947	Little Harbor	41° 31.2'	70° 39.9'	+0 32	+2 21	*0.40	*0.40	1.4	1.8	0.8
949	OCEANOGRAPHIC INSTITUTION	41° 31.4'	70° 40.3'					1.8	2.33	1.0
951	Uncatena Island (south side)	41° 30.9'	70° 42.2'	+0 12	+0 22	*1.02	*1.02	3.6	4.5	1.9
953	Quicks Hole, North side	41° 26.9'	70° 51.4'	-0 08	-0 08	*0.99	*0.99	3.5	4.4	1.8
955	Cuttyhunk	41° 25.5'	70° 55.0'	+1 20	+1 15	*0.97	*0.93	3.37	4.25	1.81
	Buzzards Bay									
957	Penikese Island	41° 27.0'	70° 55.3'	-0 17	-0 16	*0.97	*0.97	3.4	4.2	1.8
959	Chappaquod Point, West Falmouth Harbor	41° 36.3'	70° 39.1'	+0 06	+0 08	*1.11	*1.14	3.82	4.70	2.07
961	Monument Beach	41° 42.9'	70° 37.0'	+0 16	+0 30	*1.15	*1.15	3.97	5.00	2.17
963	Gray Gables	41° 44.1'	70° 37.4'	+0 37	+1 16	*1.05	*1.21	3.62	4.45	1.98
965	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
967	Onset Beach, Onset Bay	41° 44.5'	70° 39.5'	+0 41	+1 25	*1.03	*1.03	3.50	4.41	1.97
969	Great Hill	41° 42.7'	70° 42.9'	+0 12	+0 12	*1.14	*1.21	3.96	4.99	2.15
971	Marion, Sippican Harbor	41° 43.2'	70° 45.6'	+0 10	+0 12	*1.13	*1.29	4.0	4.9	2.2
973	Piney Point	41° 41.7'	70° 43.2'	+0 10	+0 10	*1.13	*1.21	3.91	4.81	2.13
975	Mattapoisett, Mattapoisett Harbor	41° 39'	70° 49'	+0 11	+0 20	*1.09	*1.00	3.9	4.8	2.1
977	Clarks Point	41° 35.6'	70° 54.0'	+0 14	+0 23	*1.03	*1.07	3.56	4.49	1.93
979	New Bedford	41° 38.4'	70° 55.1'	+0 07	+0 07	*1.05	*1.05	3.7	4.6	1.9
981	Round Hill Point	41° 32.3'	70° 55.7'	+0 14	+0 22	*0.99	*1.00	3.43	4.32	1.85
	<i>Westport River</i>									
983	Westport Harbor	41° 31'	71° 05'	+0 09	+0 33	*0.85	*0.85	3.0	3.7	1.6
985	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>Sakonnet River</i>									
987	Sakonnet	41° 27.9'	71° 11.6'	-0 09	+0 13	*0.91	*0.86	3.17	3.99	1.70
989	Sachuest, Flint Point	41° 29.2'	71° 14.3'	-0 05	+0 15	*0.90	*0.93	3.13	3.94	1.69
991	The Glen	41° 33.5'	71° 14.2'	-0 13	-0 03	*0.98	*1.00	3.40	4.28	1.84
993	Nannaquaket Neck	41° 37.1'	71° 12.2'	-0 12	-0 13	*1.01	*1.01	3.50	4.41	1.91
995	Anthony Point	41° 38.3'	71° 12.7'	+0 00	-0 01	*1.09	*1.09	3.75	4.73	2.05
997	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
999	Castle Hill	41° 27.8'	71° 21.7'	-0 05	+0 13	*0.94	*1.00	3.25	4.10	1.77
1001	NEWPORT	41° 30.3'	71° 19.6'					3.47	4.38	1.87
	<i>Conanicut Island</i>									
1003	Beavertail Point	41° 27.1'	71° 24.1'	-0 05	+0 04	*0.98	*0.98	3.34	4.21	1.86
1005	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
1007	Conanicut Point	41° 34.4'	71° 22.3'	+0 07	-0 06	*1.07	*1.07	3.8	4.7	2.0
1009	Prudence Island, (south end)	41° 34.8'	71° 19.3'	+0 08	-0 03	*1.08	*1.14	3.74	4.71	2.03
1011	Bristol Ferry	41° 38.2'	71° 15.3'	+0 15	+0 00	*1.17	*1.14	4.08	5.14	2.20
1013	Bristol, Bristol Harbor	41° 40.1'	71° 16.7'	+0 13	+0 00	*1.16	*1.14	4.1	5.1	2.2
1015	Bristol Highlands	41° 41.8'	71° 17.6'	+0 08	-0 07	*1.18	*1.21	4.2	5.2	2.2
1017	Fall River, Massachusetts	41° 42.3'	71° 09.8'	+0 18	+0 03	*1.25	*1.21	4.36	5.41	2.35
1019	Steep Brook, Taunton River	41° 44.4'	71° 07.9'	+0 26	+0 05	*1.30	*1.29	4.51	5.68	2.44
1021	Bay Spring, Bullock Cove	41° 45.1'	71° 21.1'	+0 12	+0 01	*1.22	*1.21	4.25	5.23	2.30
1023	Pawtuxet, Pawtuxet Cove	41° 45.7'	71° 23.3'	+0 06	-0 11	*1.25	*1.29	4.35	5.35	2.35
1025	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
1027	Rumford, Seekonk River	41° 50.4'	71° 22.4'	+0 12	+0 06	*1.34	*1.29	4.66	5.73	2.51
1029	Pawtucket, Seekonk River	41° 52.1'	71° 22.8'	+0 18	+0 09	*1.31	*1.29	4.6	5.8	2.5
1031	East Greenwich	41° 39.9'	71° 26.7'	+0 13	+0 03	*1.14	*1.14	4.0	5.0	2.1
1033	Wickford	41° 34.3'	71° 26.7'	+0 03	-0 06	*1.07	*1.07	3.71	4.56	2.01
1035	Watson Pier, Boston Neck	41° 27.6'	71° 25.7'	-0 03	+0 16	*0.96	*0.93	3.32	4.18	1.79
1037	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									
1039	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
1041	Block Island (Old Harbor)	41° 10.4'	71° 33.4'	-0 13	+0 15	*0.82	*0.86	2.85	3.51	1.54
1043	Southwest Point, Block Island	41° 09.8'	71° 36.6'	+0 05	+0 42	*0.75	*0.79	2.60	3.20	1.41
1045	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
1047	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						
1049	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, No. 967

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.

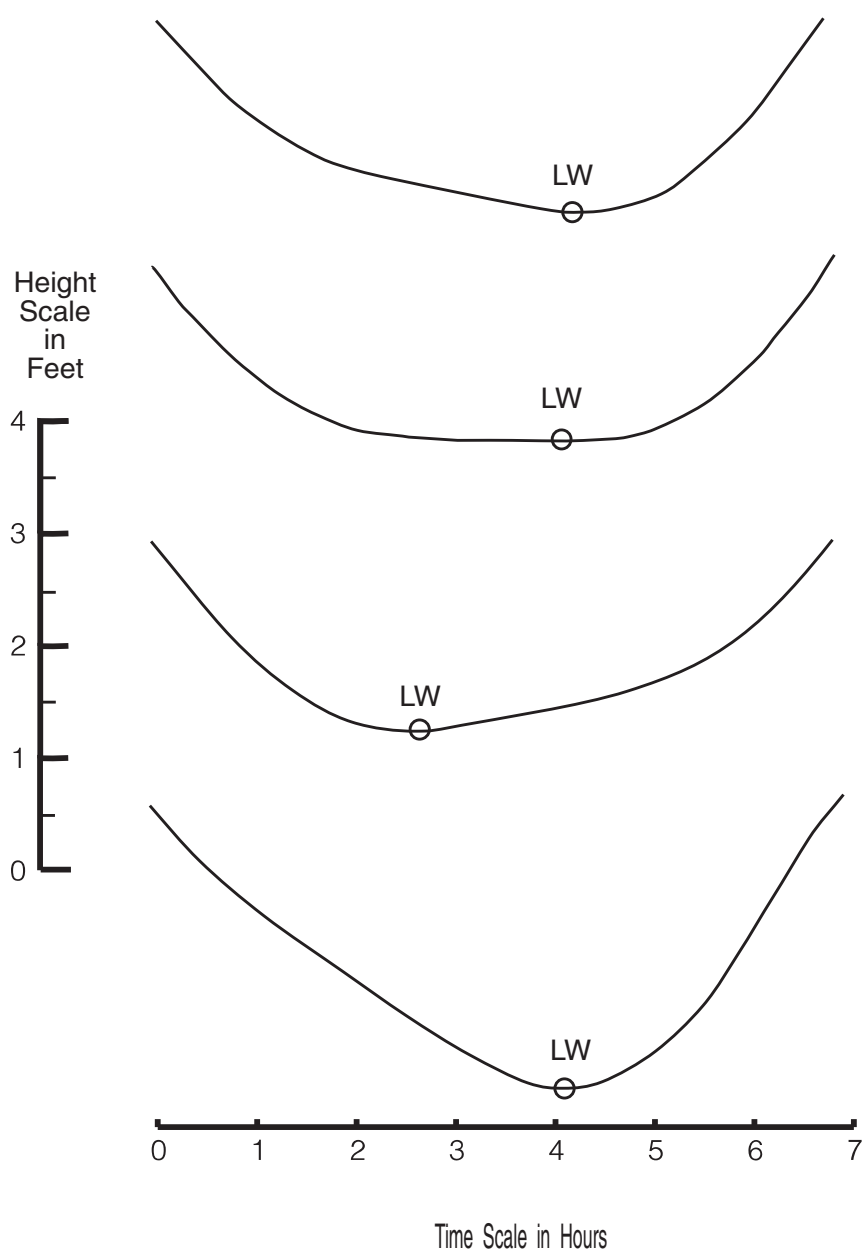


TABLE 2 – TIDAL DIFFERENCES AND OTHER CONSTANTS

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	
				on New London, p.60							
1051	Silver Eel Pond, Fishers Island, N.Y. <i>Thames River</i>	41° 15.4'	72° 01.8'	-0	04	-0	04	*0.91	*1.00	2.33 2.83	1.37
1053	NEW LONDON, State Pier	41° 21.6'	72° 05.5'	<i>Daily predictions</i>				2.56	3.09	1.47	
1055	Yale boathouse	41° 25.8'	72° 05.6'	+0	14	+0	10	*1.07	*1.11	2.73 3.22	1.57
1057	Norwich	41° 31.4'	72° 04.7'	+0	24	+0	19	*1.18	*1.21	3.03 3.57	1.75
1059	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
1061	Saybrook Jetty	41° 15.8'	72° 20.6'	+1	11	+0	45	*1.36	*1.35	3.5 4.2	2.0
1063	Saybrook Point	41° 17.0'	72° 21.0'	+1	11	+0	53	*1.24	*1.25	3.2 3.8	1.8
1065	Lyme, highway bridge	41° 19.3'	72° 21.0'	+1	36	+1	09	*1.26	*0.95	3.31 3.91	1.83
1067	Essex <7>	41° 20.9'	72° 23.1'	+1	39	+1	38	*1.16	*1.15	3.0 3.6	1.7
1069	Hadlyme <7>	41° 25.2'	72° 25.7'	+2	19	+2	23	*1.05	*1.05	2.7 3.2	1.5
1071	Tylerville <7>	41° 27.1'	72° 27.9'	+2	38	+2	51	*1.02	*1.02	2.71 3.20	1.46
1073	Haddam <7>	41° 28.9'	72° 30.4'	+2	48	+3	08	*0.97	*0.95	2.5 3.0	1.4
1075	Higganum Creek <7>	41° 30.2'	72° 33.2'	+3	08	+3	40	*0.91	*0.91	2.40 2.83	1.30
1077	Maromas <7>	41° 32.5'	72° 33.1'	+3	25	+4	01	*0.91	*0.91	2.41 2.84	1.31
1079	Middletown <7>	41° 33.6'	72° 38.7'	+3	54	+4	39	*0.83	*0.83	2.17 2.56	1.19
1081	Rocky Hill <7>	41° 39.8'	72° 37.8'	+4	30	+5	36	*0.72	*0.63	1.88 2.22	1.07
1083	South Hartford <7>	41° 45.3'	72° 39.5'	+5	24	+6	54	*0.74	*0.58	1.94 2.29	1.07
1085	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							
1087	Westbrook, Duck Island Roads	41° 16.4'	72° 28.5'	-0	24	-0	32	*0.61	*0.60	4.1 4.7	2.2
1089	Madison	41° 16.2'	72° 36.2'	-0	21	-0	30	*0.73	*0.72	4.9 5.6	2.6
1091	Guilford Harbor	41° 16.3'	72° 40.0'	-0	11	-0	21	*0.77	*0.96	5.19 5.92	2.83
1093	Sachem Head	41° 14.7'	72° 42.5'	-0	11	-0	15	*0.80	*0.80	5.4 6.2	2.9
1095	Branford, Branford River	41° 15.7'	72° 49.1'	-0	05	-0	13	*0.87	*0.96	5.85 6.67	3.15
1097	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
1099	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
1101	Gulf Beach	41° 12.3'	72° 02.5'	-0	05	-0	08	*0.94	*1.04	6.29 7.17	3.40
1103	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
1105	Sniffens Point	41° 11.2'	73° 06.8'	+0	10	+0	09	*0.96	*1.00	6.43 7.33	3.46
1107	Stratford, I-95 bridge	41° 12.2'	73° 06.7'	+0	23	+0	23	*0.98	*1.00	6.58 7.50	3.53
1109	Long Hill	41° 16.5'	73° 05.3'	+0	43	+1	13	*1.02	*1.04	6.85 7.81	3.67
1111	Shelton	41° 18.1'	73° 04.3'	+0	46	+1	19	*1.04	*0.96	7.01 7.99	3.74
1113	BRIDGEPORT	41° 10.4'	73° 10.9'	<i>Daily predictions</i>				6.74	7.80	3.61	
1115	South Norwalk	41° 05.9'	73° 24.9'	+0	09	+0	15	*1.05	*1.04	7.1 8.2	3.8
1117	Rowayton, Fivemile River	41° 03.9'	73° 26.7'	+0	00	+0	05	*1.05	*1.08	7.09 8.08	3.80
1119	Long Neck Point	41° 02.3'	73° 28.8'	-0	09	+0	01	*1.06	*0.96	7.17 8.17	3.82
1121	Stamford	41° 02.3'	73° 32.8'	+0	03	+0	08	*1.07	*1.08	7.2 8.3	3.9
1123	Cos Cob Harbor	41° 01.0'	73° 35.8'	+0	05	+0	11	*1.07	*1.08	7.2 8.3	3.9
	NEW YORK Long Island Sound, north side			on Kings Point, p.68							
1125	Rye Beach	40° 57.7'	73° 40.3'	-0	20	-0	27	*1.00	*0.86	7.29 7.89	3.88
1127	New Rochelle	40° 53.6'	73° 46.9'	-0	16	-0	18	*1.01	*0.93	7.29 8.46	3.90
1129	Throgs Neck	40° 48.3'	73° 47.7'	+0	11	+0	15	*0.98	*1.11	7.0 8.2	3.8
	East River			on New York, p.72							
1131	Whitestone	40° 47.9'	73° 48.8'	+0	07	+0	09	*1.00	*1.04	7.1 8.3	3.8
1133	College Point, Flushing Bay	40° 47.0'	73° 51.4'	+0	17	+0	16	*0.95	*1.04	6.8 7.9	3.7
1135	Hunts Point	40° 48.0'	73° 52.4'	+0	12	+0	10	*0.97	*1.07	6.92 7.57	3.75
1137	North Brother Island	40° 48.1'	73° 54.0'	+0	18	+0	18	*0.93	*1.11	6.6 7.8	3.6
1139	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							
1141	Hell Gate, Wards Island	40° 47.2'	73° 55.3'	+2	58	+3	45	*1.33	*1.59	6.0 7.3	3.4
1143	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
1145	Queensboro Bridge	40° 45.5'	73° 57.5'	+1	23	+0	57	*0.96	*1.00	4.33 5.24	2.38
1147	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
1149	Hunters Point, Newtown Creek	40° 44.4'	73° 57.7'	+1	22	+0	56	*0.89	*0.90	4.1 4.9	2.2
1151	Williamsburg Bridge	40° 42.7'	73° 58.1'	+0	45	+0	28	*0.93	*0.95	4.22 5.11	2.31
1153	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
1155	Brooklyn Bridge	40° 42.2'	73° 59.3'	+0	24	-0	04	*0.99	*1.00	4.53 5.13	2.48
1157	Harlem River, Randalls Island	40° 48.0'	73° 55.7'	+1	42	+1	27	*1.02	*1.09	4.6 5.6	2.6
	Long Island, Long Island Sound			on Kings Point, p.68							
1159	Willetts Point	40° 47.6'	73° 46.9'	-0	01	+0	00	*1.00	*1.04	7.15 8.21	3.88
1161	KINGS POINT	40° 48.6'	73° 45.9'	<i>Daily predictions</i>				7.16	8.46	3.86	
1163	Port Washington, Manhasset Bay	40° 49.9'	73° 42.2'	-0	12	-0	12	*1.02	*0.96	7.29 8.46	3.92
1165	Glen Cove, Hempstead Harbor	40° 51.8'	73° 39.3'	-0	22	-0	26	*1.01	*0.82	7.27 7.87	3.87
				on Bridgeport, p.64							
1167	Oyster Bay Oyster Bay Harbor	40° 53'	73° 32'	+0	07	+0	13	*1.08	*1.08	7.3 8.4	3.9
1169	Bayville Bridge	40° 54.2'	73° 33.0'	-0	06	+0	04	*1.09	*1.04	7.37 7.99	3.94
1171	Cold Spring Harbor	40° 52.4'	73° 28.2'	-0	07	+0	02	*1.07	*0.92	7.27 7.86	3.86
1173	Eatons Neck Point	40° 57.2'	73° 24.0'	+0	02	+0	08	*1.05	*1.04	7.1 8.2	3.9

Endnotes can be found at the end of table 2.

TABLE 2 – TIDAL DIFFERENCES AND OTHER CONSTANTS

No.	PLACE	POSITION		DIFFERENCES				RANGES		Mean Tide Level
		Latitude	Longitude	Time		Height		Mean	Spring	
				High Water	Low Water	High Water	Low Water			
	NEW YORK Long Island, Long Island Sound—cont. Time meridian, 75° W	North	West	h	m	h	m	ft	ft	ft
				on Bridgeport, p.64						
1175	Lloyd Harbor, Huntington Bay	40° 54.6'	73° 25.9'	-0 01	+0 07	*1.04	*0.88	7.02	7.60	3.73
1177	Northport, Northport Bay	40° 54.0'	73° 21.2'	-0 05	+0 04	*1.07	*0.92	7.25	7.84	3.86
1179	Port Jefferson Harbor entrance	40° 58'	73° 05'	+0 02	+0 01	*0.98	*0.98	6.6	7.6	3.5
1181	Port Jefferson	40° 57.0'	73° 04.6'	+0 04	+0 05	*0.98	*0.92	6.61	7.70	3.53
1183	Cedar Beach	40° 57.9'	73° 02.6'	+0 07	+0 05	*0.96	*1.00	6.43	7.01	3.46
1185	Mount Sinai Harbor	40° 57.8'	73° 02.4'	+0 04	+0 18	*0.89	*0.88	6.0	6.9	3.2
1187	Northville	40° 58.9'	72° 38.7'	+0 05	-0 03	*0.80	*0.92	5.35	6.10	2.89
1189	Mattituck Inlet	41° 00.9'	72° 33.7'	+0 04	-0 04	*0.77	*0.76	5.2	6.0	2.8
1191	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						
1193	Plum Gut Harbor, Plum Island	41° 10.3'	72° 12.3'	+0 28	+0 16	*1.01	*1.01	2.6	3.1	1.5
1195	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>									
1197	Orient	41° 08'	72° 18'	+0 37	+0 36	*0.97	*0.97	2.5	3.0	1.4
1199	Greenport	41° 06'	72° 22'	+1 05	+0 49	*0.93	*0.95	2.4	2.9	1.4
1201	Southold	41° 04'	72° 25'	+1 44	+1 33	*0.89	*0.89	2.3	2.7	1.3
1203	Noyack Bay	41° 00'	72° 20'	+2 06	+1 44	*0.89	*0.89	2.3	2.7	1.3
1205	Sag Harbor	41° 00.2'	72° 17.8'	+1 00	+0 48	*0.97	*0.97	2.5	3.0	1.4
	<i>Peconic Bays</i>									
1207	New Suffolk	41° 00'	72° 28'	+2 27	+2 11	*1.01	*1.00	2.6	3.1	1.5
1209	South Jamesport	40° 56.1'	72° 34.9'	+2 34	+2 43	*1.07	*0.95	2.79	3.29	1.57
1211	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
1213	Lake Montauk	41° 04.4'	71° 56.1'	-0 26	-0 22	*0.77	*0.89	2.01	2.37	1.18
1215	Montauk Harbor entrance	41° 04.5'	71° 56.2'	-0 24	-0 16	*0.74	*0.75	1.9	2.3	1.0
1217	MONTAUK, FORT POND BAY	41° 02.9'	71° 57.6'					2.07	2.66	1.21
	<i>Daily Predictions, p.56</i>									
	Long Island, south shore			on Sandy Hook, p.84						
1219	Shinnecock Inlet (ocean)	40° 50.2'	72° 28.8'	-0 39	-1 04	*0.71	*0.79	3.31	3.97	1.81
	<i>Shinnecock Bay</i>									
1221	Shinnecock Bay entrance	40° 49.2'	72° 33.7'	+1 12	+1 51	*0.51	*0.37	2.41	2.89	1.27
1223	Ponquoque Point	40° 51.0'	72° 30.2'	-0 06	+0 03	*0.60	*0.65	2.81	3.20	1.53
1225	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
1227	Moriches Inlet	40° 45.9'	72° 45.2'	-0 57	-1 09	*0.62	*0.60	2.9	3.5	1.5
1229	Moriches Coast Guard Station	40° 47.2'	72° 45.0'	-0 18	+0 48	*0.47	*0.60	2.16	2.51	1.20
1231	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
1233	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>									
1235	Fire Island Coast Guard Station	40° 37.6'	73° 15.6'	-0 16	-0 03	*0.44	*0.68	2.00	2.40	1.13
1237	Fire Island Light	40° 38.1'	73° 13.2'	+0 46	+1 22	*0.15	*0.15	0.7	0.8	0.3
1239	West Fire Island	40° 39.4'	73° 12.3'	+2 10	+2 18	*0.13	*0.13	0.6	0.7	0.3
1241	Point o' Woods	40° 39.1'	73° 08.2'	+2 27	+2 35	*0.15	*0.15	0.7	0.8	0.3
1243	Patchogue	40° 45.0'	73° 00.0'	+3 14	+3 33	*0.25	*0.53	1.11	1.33	0.66
1245	Great River, Connetquot River	40° 43.4'	73° 09.1'	+3 19	+3 32	*0.15	*0.15	0.7	0.8	0.3
1247	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
1249	Oak Beach	40° 38.5'	73° 17.2'	+2 23	+2 58	*0.15	*0.15	0.7	0.8	0.3
1251	Babylon	40° 41.1'	73° 18.9'	+2 11	+2 41	*0.13	*0.15	0.6	0.7	0.3
1253	Gilgo Heading	40° 37.2'	73° 23.7'	+2 22	+2 58	*0.24	*0.25	1.1	1.3	0.5
1255	Amityville	40° 39.3'	73° 25.1'	+2 20	+3 05	*0.26	*0.25	1.2	1.4	0.7
1257	Biltmore Shores, South Oyster Bay	40° 40'	73° 28'	+2 04	+2 32	*0.30	*0.30	1.4	1.7	0.8
1259	Jones Inlet (Point Lookout)	40° 35.2'	73° 34.7'	-0 20	-0 25	*0.77	*0.75	3.6	4.3	2.0
	<i>Hempstead Bay</i>									
1261	Deep Creek Meadow	40° 36.2'	73° 31.5'	+1 01	+1 11	*0.51	*0.50	2.4	2.9	1.3
1263	Green Island	40° 37.4'	73° 30.1'	+1 21	+1 31	*0.41	*0.40	1.9	2.3	1.0
1265	Cuba Island	40° 37.2'	73° 31.4'	+1 07	+1 22	*0.49	*0.50	2.3	2.8	1.2
1267	Bellmore, Bellmore Creek	40° 39.8'	73° 31.2'	+1 28	+1 58	*0.43	*0.45	2.0	2.4	1.1
1269	Neds Creek	40° 37.4'	73° 33.3'	+0 49	+0 54	*0.58	*0.60	2.7	3.3	1.4
1271	Freeport, Baldwin Bay	40° 38.0'	73° 35.2'	+0 37	+0 55	*0.64	*0.65	3.0	3.6	1.6
1273	Long Beach (Inside)	40° 36'	73° 39'	+0 18	+0 02	*0.84	*0.85	3.9	4.7	2.1
1275	Woodmere, Brosewre Bay	40° 37'	73° 42'	+0 34	+0 50	*0.84	*0.85	3.9	4.7	2.1
1277	East Rockaway Inlet	40° 35.7'	73° 44.6'	-0 07	-0 14	*0.88	*0.90	4.1	5.0	2.2
	<i>Jamaica Bay</i>									
1279	Plumb Beach Channel	40° 35.1'	73° 55.5'	+0 02	-0 03	*1.05	*1.05	4.9	5.9	2.6
1281	Barren Island, Rockaway Inlet	40° 34.7'	73° 53.3'	-0 01	-0 04	*1.07	*1.05	5.0	6.0	2.7
1283	Beach Channel (bridge)	40° 35'	73° 49'	+0 37	+0 24	*1.09	*1.10	5.1	6.2	2.7
1285	Motts Basin	40° 37.0'	73° 45.5'	+0 39	+0 48	*1.16	*1.15	5.4	6.5	2.9
1287	Norton Point, Head of Bay	40° 38.1'	73° 44.8'	+0 38	+0 45	*1.16	*1.16	5.4	6.5	2.9
1289	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
1291	North Channel Bridge, Grassy Bay	40° 39'	73° 50'	+0 43	+0 47	*1.12	*1.10	5.2	6.3	2.8
1293	Canarsie	40° 37.8'	73° 53.1'	+0 27	+0 08	*1.12	*1.10	5.2	6.3	2.8
1295	Mill Basin	40° 37'	73° 55'	+0 28	+0 04	*1.12	*1.10	5.2	6.3	2.8
	NEW YORK and NEW JERSEY New York Harbor									
1297	Coney Island	40° 34'	73° 59'	-0 04	-0 17	*1.01	*1.00	4.7	5.7	2.5
1299	Norton Point, Gravesend Bay	40° 35.4'	73° 59.9'	-0 01	+0 03	*1.02	*1.15	4.7	5.7	2.6
1301	Fort Wadsworth, The Narrows	40° 36.4'	74° 03.3'	+0 06	+0 06	*0.98	*1.05	4.8	5.4	2.5
1303	Fort Hamilton, The Narrows	40° 36.5'	74° 02.1'	+0 02	+0 07	*1.01	*1.00	4.7	5.7	2.5

Endnotes can be found at the end of table 2.

TABLE 2 – TIDAL DIFFERENCES AND OTHER CONSTANTS

No.	PLACE	POSITION		DIFFERENCES				RANGES		Mean Tide Level
		Latitude	Longitude	Time		Height		Mean	Spring	
				High Water	Low Water	High Water	Low Water			
	NEW YORK and NEW JERSEY New York Harbor—cont. Time meridian, 75° W	North	West	h	m	ft	ft	ft	ft	ft
				on New York, p.72						
1305	St. George, Staten Island	40° 38.6'	74° 04.4'	-0 17	-0 15	*0.99	*0.99	4.5	5.4	2.4
1307	Gowanus Bay	40° 39.9'	74° 00.8'	-0 18	-0 12	*1.03	*0.95	4.7	5.7	2.6
1309	NEW YORK (The Battery)	40° 42.0'	74° 00.9'	<i>Daily Predictions</i>				4.53	5.50	2.47
	Hudson River <8>									
1311	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
1313	Edgewater, N.J.	40° 48.8'	73° 58.7'	+0 31	+0 28	*0.93	*0.93	4.24	5.13	2.33
1315	Spuyten 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
1317	Riverdale, N.Y.	40° 54.2'	73° 54.9'	+0 48	+0 49	*0.85	*0.85	3.86	4.67	2.13
1319	Alpine, N.J.	40° 56.7'	73° 55.1'	+1 05	+1 02	*0.83	*0.90	3.75	4.54	2.06
1321	Tarrytown	41° 04.7'	73° 52.2'	+1 49	+1 57	*0.70	*0.70	3.2	3.7	1.8
1323	Haverstraw	41° 13.1'	73° 57.8'	+2 15	+2 42	*0.72	*0.81	3.23	3.91	1.78
1325	Peekskill	41° 17'	73° 56'	+2 28	+3 03	*0.64	*0.64	2.9	3.4	1.8
1327	Newburgh	41° 30.0'	74° 00.4'	+3 46	+4 03	*0.62	*0.64	2.8	3.2	1.5
1329	New Hamburg	41° 35'	73° 57'	+4 04	+4 28	*0.64	*0.64	2.9	3.3	1.6
1331	Poughkeepsie	41° 42'	73° 57'	+4 34	+4 46	*0.68	*0.68	3.1	3.5	1.7
1333	Hyde Park	41° 47'	73° 57'	+5 00	+5 12	*0.70	*0.68	3.2	3.6	1.8
1335	Kingston	41° 55'	73° 59'	+5 20	+5 34	*0.81	*0.82	3.7	4.2	2.0
1337	Tivoli	42° 04'	73° 56'	+5 50	+6 04	*0.86	*0.86	3.9	4.4	1.9
1339	Hudson	42° 15'	73° 48'	+6 58	+7 12	*0.88	*0.86	4.0	4.4	2.2
				on Albany, p.80						
1341	Castleton	42° 32'	73° 46'	-0 17	-0 29	-0.2	+0.1	4.3	4.7	2.2
1343	ALBANY	42° 39.0'	73° 44.8'	<i>Daily predictions</i>				4.6	5.0	2.5
1345	Troy	42° 44'	73° 42'	+0 08	+0 10	*1.00	*1.00	4.7	5.1	2.3
	The Kills and Newark Bay			on New York, p.72						
	<i>Kill Van Kull</i>									
1347	Constable Hook	40° 39.3'	74° 05.2'	-0 18	-0 08	*1.02	*1.02	4.63	5.60	2.54
1349	BAYONNE BRIDGE, STATEN ISLAND	40° 38.4'	74° 08.8'	<i>Daily predictions, p.76</i>				4.98	5.52	2.70
1351	Port Elizabeth	40° 40.4'	74° 08.4'	-0 02	+0 13	*1.11	*0.95	5.05	6.11	2.73
1353	Port Newark Terminal	40° 41'	74° 08'	+0 03	+0 21	*1.12	*1.12	5.1	6.1	2.7
	<i>Passaic River</i>									
1355	Point No Point	40° 43.9'	74° 07.0'	+0 00	+0 22	*1.15	*1.04	5.21	6.30	2.83
1357	Belleville	40° 47.2'	74° 08.8'	+0 09	+0 49	*1.23	*1.19	5.60	6.78	3.08
1359	East Rutherford	40° 50.8'	74° 07.2'	+0 09	+1 06	*1.29	*1.29	5.87	7.10	3.20
1361	Garfield	40° 52.1'	74° 06.7'	+0 08	---	---	---	---	---	---
	<i>Hackensack River</i>									
1363	Kearny Point	40° 43.7'	74° 06.2'	+0 11	+0 22	*1.15	*1.14	5.21	6.30	2.85
1365	Amtrak RR. swing bridge	40° 45.1'	74° 05.8'	+0 33	+0 39	*1.16	*1.10	5.27	6.38	2.87
1367	Fish Creek, Berrys Creek	40° 47.6'	74° 05.5'	+1 02	+1 00	*1.16	*1.00	5.31	6.43	2.86
1369	Carlstadt, Garretts Reach	40° 48.4'	74° 03.6'	+0 59	+0 45	*1.26	*1.29	5.71	6.29	3.12
1371	North Secaucus, Garretts Reach	40° 48.4'	74° 02.6'	+0 57	+0 57	*1.23	*1.23	5.61	6.79	3.06
1373	Mill Creek, 0.8 n.mi. above entrance	40° 47.9'	74° 03.0'	+1 34	---	---	---	---	---	---
1375	Cromakill Creek, N.J. Turnpike	40° 48.2'	74° 02.0'	+1 00	---	---	---	---	---	---
1377	Ridgefield Park	40° 51.0'	74° 01.8'	+1 00	+1 00	*1.26	*1.26	5.73	6.93	---
1379	Hackensack	40° 52.8'	74° 02.4'	+1 06	+1 00	*1.33	*1.38	6.01	7.27	3.29
1381	New Millford	40° 56.1'	74° 01.8'	+1 17	+2 49	*1.02	*1.02	4.76	5.76	2.44
				on Sandy Hook, p.84						
	<i>Arthur Kill</i>									
1383	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
1385	Rahway River, RR. Bridge	40° 35.9'	74° 13.9'	+0 17	+0 30	*1.14	*1.16	5.36	6.49	2.91
1387	Chelsea	40° 36'	74° 12'	+0 23	+0 37	*1.07	*1.05	5.0	6.0	2.7
1389	Carteret	40° 35.2'	74° 12.6'	+0 22	+0 33	*1.09	*1.09	5.1	6.2	2.8
1391	Rossville, N.Y.	40° 33.3'	74° 13.4'	+0 20	+0 29	*1.12	*1.12	5.22	5.84	2.89
1393	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.									
1395	Great Kills Harbor	40° 32.6'	74° 08.4'	+0 06	+0 21	*1.01	*1.00	4.7	5.7	2.6
1397	Princes Bay	40° 30.7'	74° 12.0'	+0 00	+0 06	*1.05	*1.05	4.9	5.9	2.6
	<i>Raritan River</i>									
1399	South Amboy	40° 29.5'	74° 16.9'	-0 04	+0 08	*1.09	*1.09	5.09	6.11	2.77
1401	Keasbey	40° 30.5'	74° 18.7'	+0 06	+0 18	*1.10	*1.00	5.21	6.25	2.85
1403	Sayreville	40° 28.7'	74° 21.4'	+0 11	+0 25	*1.14	*1.21	5.43	6.57	2.95
1405	Old Bridge, South River	40° 25.0'	74° 21.8'	+0 48	+0 59	*1.18	*1.16	5.58	6.75	3.01
1407	New Brunswick	40° 29.3'	74° 26.1'	+0 32	+0 48	*1.21	*1.16	5.71	6.91	3.08
1409	Cheesequake Creek, Garden State Parkway	40° 27.2'	74° 16.4'	+0 12	+0 13	*1.09	*1.05	5.12	6.20	2.77
1411	Keyport	40° 26.4'	74° 11.9'	-0 04	+0 06	*1.08	*1.10	5.05	6.06	2.74
1413	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
1415	Waackaack Creek	40° 26.9'	74° 08.6'	-0 06	+0 21	*0.99	*0.99	4.62	5.54	2.47

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 JERSEY Time meridian, 75° W	North	West	h	m	h	m	ft	ft	ft
	Sandy Hook Bay			on Sandy Hook, p.84						
1417	Pews Creek	40° 26.5'	74° 06.3'	-0	08	---	---	---	---	---
1419	Compton Creek	40° 25.9'	74° 05.1'	+0	13	---	---	---	---	---
1421	Atlantic Highlands	40° 25.1'	74° 02.1'	-0	10	*1.01	*1.01	4.71	5.65	2.55
1423	SANDY HOOK (Fort Hancock)	40° 28.0'	74° 00.6'	<i>Daily predictions</i>				4.70	5.71	2.54
	<i>Shrewsbury River</i>									
1425	Highlands, Route 36 bridge	40° 23.8'	73° 58.9'	+0	17	+0	14	*0.90	*0.90	4.19
1427	Oceanic Bridge, Navesink River	40° 22.6'	74° 00.9'	+1	13	+1	45	*0.72	*0.63	3.41
1429	Red Bank, Navesink River	40° 21.3'	74° 03.9'	+1	17	+1	57	*0.74	*0.63	3.51
1431	Sea Bright	40° 21.9'	73° 58.5'	+1	15	+1	07	*0.68	*0.68	3.15
1433	Gooseneck Point, bridge	40° 19.6'	74° 01.0'	+2	18	+2	41	*0.55	*0.55	2.57
1435	Long Branch Reach	40° 19.5'	73° 59.8'	+2	18	+2	41	*0.56	*0.63	2.60
	Outer Coast									
1437	Long Branch (fishing pier)	40° 18.2'	73° 58.6'	-0	26	-0	36	*0.94	*1.00	4.40
	<i>Shark River</i>									
1439	Shark River Island, fixed RR. bridge	40° 11.2'	74° 01.6'	-0	13	-0	08	*0.93	*0.93	4.32
1441	Shark River Hills	40° 11.6'	74° 02.3'	-0	13	-0	09	*0.94	*0.94	4.40
1443	New Bedford	40° 10.7'	74° 02.8'	-0	13	-0	07	*0.95	*0.95	4.41
1445	Belmar, Atlantic Ocean	40° 11.1'	74° 00.5'	-0	35	-0	45	*0.95	*0.95	4.43
1447	Manasquan Inlet, USCG Station	40° 06.1'	74° 02.1'	-0	12	-0	24	*0.86	*0.95	4.02
	<i>Manasquan River</i>									
1449	Brielle, Route 35 bridge	40° 06.3'	74° 03.3'	-0	06	-0	20	*0.83	*0.83	3.86
1451	Riviera Beach	40° 05.8'	74° 05.2'	+0	08	+0	38	*0.73	*0.73	3.39
	<i>Metedeconk River</i>									
1453	Beaverdam Creek entrance	40° 03.7'	74° 03.7'	+2	41	+2	40	*0.07	*0.37	0.30
1455	Beaverdam Creek, inside	40° 03.7'	74° 04.4'	+2	49	+2	47	*0.06	*0.06	0.29
1457	Forge Pond	40° 03.9'	74° 08.1'	+2	17	+2	07	*0.07	*0.07	0.31
1459	Tall Pines Camp	40° 03.5'	74° 07.0'	+2	23	+2	24	*0.06	*0.06	0.30
1461	Seaside Heights, ocean	39° 56.5'	74° 04.1'	-0	30	-0	32	*0.92	*0.92	4.29
	<i>Barnegat Bay</i>									
1463	Mantoloking	40° 02.2'	74° 03.2'	+4	28	+4	39	*0.07	*0.07	0.33
1465	Kettle Creek, Green Island	40° 00.8'	74° 06.8'	+4	23	+4	41	*0.08	*0.08	0.38
1467	Ocean Beach	39° 59.3'	74° 04.1'	+4	17	+4	36	*0.08	*0.08	0.37
1469	Silver Bay, Silver Bay Marina	39° 59.8'	74° 08.9'	+4	26	+4	39	*0.08	*0.08	0.37
1471	Goose Creek entrance	39° 57.8'	74° 06.9'	+4	06	+4	29	*0.08	*0.08	0.35
1473	Coates Point	39° 56.9'	74° 06.9'	+4	00	+4	21	*0.08	*0.08	0.37
1475	Toms River (town), Toms River	39° 57.0'	74° 11.9'	+4	02	+4	29	*0.09	*0.09	0.42
1477	Seaside Park	39° 55.3'	74° 05.0'	+3	40	+3	05	*0.08	*0.08	0.38
1479	Barnegat Pier	39° 55.1'	74° 06.6'	+3	35	+3	55	*0.08	*0.08	0.36
1481	Sloop Creek	39° 54.3'	74° 08.0'	+3	38	+3	01	*0.08	*0.08	0.35
1483	Cedar Creek	39° 52.2'	74° 09.3'	+3	23	+3	45	*0.08	*0.08	0.35
1485	Island Beach	39° 51.1'	74° 05.4'	+3	04	+3	28	*0.08	*0.08	0.35
1487	Stouts Creek	39° 50.7'	74° 09.1'	+3	16	+3	33	*0.06	*0.06	0.30
1489	Forked River	39° 49.5'	74° 10.4'	+3	08	+3	20	*0.07	*0.07	0.32
1491	Oyster Creek	39° 48.5'	74° 11.3'	+3	30	+3	36	*0.06	*0.06	0.29
1493	Island Beach, Sedge Islands	39° 47.3'	74° 05.9'	+3	00	+3	56	*0.07	*0.07	0.34
1495	Waretown	39° 47.5'	74° 10.9'	+2	43	+3	00	*0.07	*0.07	0.34
1497	Barnegat Inlet, USCG Station	39° 45.7'	74° 06.7'	-0	12	+0	02	*0.47	*0.63	2.16
1499	High Bar	39° 45.4'	74° 07.7'	+1	04	+1	55	*0.12	*0.12	0.54
1501	Double Creek	39° 44.7'	74° 12.1'	+3	03	+3	33	*0.07	*0.07	0.31
1503	Loveladies Harbor	39° 43.5'	74° 08.2'	+3	02	+3	39	*0.10	*0.10	0.46
	<i>Manahawkin Bay</i>									
1505	Flat Creek	39° 42.4'	74° 11.5'	+3	33	+4	35	*0.18	*0.18	0.84
1507	North Beach	39° 40.5'	74° 09.6'	+3	02	+4	07	*0.22	*0.22	1.02
1509	Manahawkin Creek	39° 40.0'	74° 12.9'	+2	50	+3	51	*0.27	*0.27	1.25
1511	Manahawkin Drawbridge	39° 39.2'	74° 11.1'	+2	47	+3	39	*0.27	*0.27	1.26
	<i>Little Egg Harbor</i>									
1513	Mill Creek, 1 n.mi. above entrance	39° 39.9'	74° 13.9'	+2	32	+3	33	*0.35	*0.35	1.61
1515	Cedar Run	39° 39.2'	74° 15.4'	+2	10	+2	56	*0.40	*0.40	1.86
1517	Dinner Point Creek, upper end	39° 39.4'	74° 16.2'	+2	41	+3	17	*0.40	*0.40	1.88
1519	Beach Haven Crest	39° 36.8'	74° 12.6'	+2	13	+2	59	*0.38	*0.32	1.81
1521	Westcunk Creek entrance	39° 36.8'	74° 15.8'	+2	00	+2	40	*0.42	*0.47	1.97
1523	West Creek, Westcunk Creek	39° 37.9'	74° 17.8'	+2	10	+2	40	*0.44	*0.47	2.08
1525	Parker Run, upper end	39° 37.0'	74° 18.6'	+2	05	+2	39	*0.45	*0.47	2.09
1527	Tuckerton Creek entrance	39° 34.6'	74° 19.9'	+1	32	+1	59	*0.45	*0.45	2.11
1529	Tuckerton, Tuckerton Creek	39° 36.1'	74° 20.5'	+1	45	+2	15	*0.45	*0.47	2.11
1531	Beach Haven Coast Guard Station	39° 32.9'	74° 15.4'	+1	18	+1	23	*0.46	*0.58	2.15
	<i>Great Bay</i>									
1533	Shooting Thorofare, Little Egg Inlet	39° 30.5'	74° 19.6'	+0	16	+0	18	*0.73	*0.73	3.39
1535	Little Sheepshead Creek	39° 31.1'	74° 19.2'	+0	35	+0	44	*0.66	*0.68	3.10
1537	Seven Island, Newmans Thorofare	39° 31.0'	74° 20.2'	+0	32	+0	28	*0.73	*0.73	3.4
1539	Graveling Point	39° 32.4'	74° 23.2'	+0	44	+1	14	*0.68	*0.68	3.18
	<i>Mullica River</i>									
1541	Nacote Creek, U.S. Highway 9 bridge	39° 32.1'	74° 27.8'	+1	34	+1	55	*0.66	*0.68	3.09
1543	Cramers Boatyard	39° 32.9'	74° 27.7'	+1	27	+2	01	*0.63	*0.79	2.94
1545	New Gretna, Bass River	39° 35.5'	74° 26.5'	+1	52	+2	06	*0.66	*0.74	3.10
1547	Wading River (town), Wading River	39° 37.1'	74° 29.8'	+2	48	+2	44	*0.64	*0.79	2.98
1549	Green Bank	39° 36.7'	74° 35.4'	+2	59	+3	16	*0.66	*0.66	3.07
1551	Sweetwater, Mullica River Marina	39° 37.5'	74° 38.5'	+3	23	+4	21	*0.56	*0.56	2.42

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 JERSEY Outer Coast—cont. Time meridian, 75° W	North	West	h	m	h	m	ft	ft	ft		
				on Atlantic City, p.88								
1553	Main Marsh Thorofare	39° 28.7'	74° 23.0'	+1	10	+1	52	*0.80	*0.76	3.21	3.92	1.74
1555	Brigantine Channel @ Hoffman Thorofare	39° 26.1'	74° 21.8'	+0	59	+0	58	*0.90	*0.88	3.63	4.43	1.97
1557	Reed Bay, Turtle Cove	39° 27.2'	74° 25.6'	+1	07	---	---	---	---	---	---	---
1559	Absecon, 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
1561	Absecon 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
1563	ATLANTIC CITY, OCEAN	39° 21.3'	74° 25.1'	<i>Daily predictions</i>								
1565	Ventnor City, ocean pier	39° 20.1'	74° 28.6'	-0	02	-0	02	*1.00	*1.00	4.02	4.90	2.18
1567	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
1569	Dock Thorofare, Risley Channel	39° 21.1'	74° 32.4'	+0	55	+1	00	*0.98	*0.94	3.92	4.78	2.12
1571	Pleasantville, Lakes Bay, Great Egg Harbor Inlet <i>Great Egg Harbor Bay</i>	39° 22.9'	74° 31.1'	+1	00	+1	37	*0.98	*0.82	3.96	4.83	2.12
1573	Beesleys Point	39° 17.3'	74° 37.7'	+0	55	+1	32	*0.87	*1.00	3.55	4.26	1.93
1575	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
1577	Tuckahoe, Tuckahoe River	39° 17.7'	74° 44.9'	+2	12	+2	40	*0.86	*1.25	3.47	4.16	1.93
1579	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
1581	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
1583	Mays Landing, Great Egg Harbor River <i>Corson Inlet</i>	39° 26.9'	74° 43.7'	+2	50	+3	10	*1.01	*1.12	4.06	4.95	2.22
1585	Strathmere, Strathmere Bay	39° 12.0'	74° 39.4'	+0	31	+0	38	*0.95	*1.00	3.81	4.65	2.07
1587	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
1589	Ludlam Bay, west side <i>Townsend Inlet</i>	39° 10.6'	74° 42.6'	+0	56	+1	12	*0.98	*0.94	3.94	4.81	2.13
1591	Ocean Drive bridge	39° 07.3'	74° 43.0'	+0	34	+0	34	*0.95	*1.06	3.88	4.66	2.11
1593	Townsend Sound	39° 08.8'	74° 45.0'	+1	08	+1	39	*0.90	*0.59	3.69	4.50	1.95
1595	Stites Sound	39° 07.2'	74° 45.3'	+0	49	+0	49	*0.97	*1.00	3.98	4.78	2.15
1597	Ingram Thorofare	39° 06.6'	74° 44.4'	+0	44	+0	50	*0.96	*1.00	3.93	4.72	2.12
1599	Long Reach, Ingram Thorofare	39° 06.1'	74° 45.3'	+1	06	+1	11	*0.98	*1.06	4.00	4.80	2.17
1601	Great Sound, west side <i>Hereford Inlet</i>	39° 06.1'	74° 47.3'	+0	56	---	---	---	---	---	---	---
1603	Stone Harbor, Great Channel	39° 03.4'	74° 45.9'	+1	01	+1	12	*1.08	*1.00	4.02	4.82	2.17
1605	Jenkins Sound	39° 03.9'	74° 48.5'	+0	52	---	---	---	---	---	---	---
1607	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
1609	West Wildwood, Grassy Sound	39° 00.3'	74° 49.6'	+0	57	+1	11	*1.04	*1.00	4.27	5.12	2.30
1611	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
1613	Wildwood Crest, ocean pier <i>Cape May Inlet</i>	38° 58.5'	74° 49.4'	+0	03	+0	03	*1.07	*1.06	4.31	5.26	2.34
1615	Swain Channel, Taylor Sound	38° 58.8'	74° 51.8'	+0	55	+0	40	*1.09	*1.06	4.46	5.35	2.40
1617	Wildwood Crest, Sunset Lake	38° 58.7'	74° 50.2'	+0	52	+0	47	*1.10	*1.06	4.50	5.40	2.42
1619	Cape May Harbor	38° 56.9'	74° 53.5'	+0	33	+0	19	*1.10	*1.06	4.49	5.39	2.42
1621	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
1623	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								
1625	Brandywine Shoal Light	38° 59.2'	75° 06.8'	-0	01	+0	23	*1.16	*1.06	4.74	5.59	2.54
1627	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
1629	Cape May, ferry terminal	38° 58.1'	74° 57.5'	-0	06	-0	05	*1.18	*1.00	4.85	5.73	2.58
1631	North Highlands Beach	39° 01.1'	74° 57.2'	+0	04	+0	14	*1.26	*1.26	5.24	6.18	2.78
1633	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
1635	Bidwell Creek entrance	39° 07.7'	74° 53.5'	+0	15	+0	46	*1.39	*1.19	5.67	6.69	3.03
1637	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
1639	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
1641	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
1643	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
1645	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
1647	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
1649	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
1651	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
1653	Riggins Ditch, Heislerville	39° 13.1'	74° 58.8'	+1	36	+1	40	*1.12	*1.12	4.65	5.49	2.55
1655	East Point, Maurice River Cove <i>Maurice River</i>	39° 12.0'	75° 01.2'	+0	40	+1	08	*1.39	*1.39	5.75	6.78	3.08
1657	Bivalve	39° 13.8'	75° 02.2'	+0	39	+1	14	*1.35	*1.35	5.60	6.61	3.00
1659	Mauricetown	39° 17.1'	74° 59.5'	+2	17	+2	30	*1.05	*1.05	4.36	5.14	2.42
1661	Port Elizabeth, Manumuskin River	39° 18.8'	74° 59.1'	+2	52	+2	58	*1.05	*1.05	4.34	5.12	2.42
1663	Menantico Creek entrance	39° 20.6'	75° 00.5'	+3	06	+3	09	*1.10	*1.10	4.58	5.40	2.52
1665	Millville	39° 23.5'	75° 02.5'	+3	33	+3	36	*1.21	*1.21	5.01	5.91	2.75
1667	Dividing Creek entrance	39° 13.0'	75° 06.4'	+0	29	+1	05	*1.35	*1.35	5.62	6.63	2.99
1669	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
1671	Dividing Creek (town), Dividing Creek	39° 16.0'	75° 05.7'	+3	07	---	---	---	---	---	---	---
				on Reedy Point, p.96								
1673	Fishing Creek entrance	39° 12.9'	75° 09.6'	-1	51	-2	10	*1.02	*1.02	5.63	6.14	3.00
1675	Fortescue	39° 14.2'	75° 10.4'	-1	51	---	---	---	---	---	---	---
1677	Hollywood Beach, The Glades	39° 16.5'	75° 08.5'	+1	45	+1	13	*0.21	*0.21	1.16	1.26	0.71
1679	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
1681	Newport Landing, Nantuxent Creek	39° 17.5'	75° 11.9'	-0	03	-0	28	*0.74	*0.74	4.06	4.43	2.38
1683	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
1685	Cedarville, Cedar Creek, Nantuxent Cove	39° 19.8'	75° 12.7'	-0	37	---	---	---	---	---	---	---
1687	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
1689	Husted Landing, Ogden Creek, Back Creek	39° 21.1'	75° 15.1'	-0	47	---	---	---	---	---	---	---
1691	Greenwich Pier, Cohansey River	39° 23.0'	75° 21.0'	-0	42	-0	54	*0.99	*0.99	5.47	5.96	2.94
1693	Tindalls Wharf, Cohansey River	39° 22.7'	75° 14.1'	+1	01	-0	02	*1.09	*1.09	5.98	6.52	3.20

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				
	DELAWARE Time meridian, 75° W	North	West	h	m	h	m	ft	ft	ft	
	Delaware Bay, Western Shore			on Breakwater Harbor, p.92							
1695	LEWES (BREAKWATER HARBOR)	38° 46.9'	75° 07.2'					<i>Daily predictions</i>	4.08	4.94	2.19
1697	Mispillion River entrance	38° 56.9'	75° 18.9'	+0 22	+0 50	*1.13	*1.00		4.63	5.46	2.48
1699	Murderkill River entrance	39° 03.5'	75° 23.8'	+0 39	+1 11	*1.25	*0.94		5.12	6.04	2.71
1701	Mahon River entrance	39° 11.1'	75° 24.0'	+0 58	+1 29	*1.30	*1.13		5.33	6.29	2.84
1703	Leipsic, Leipsic River	39° 14.6'	75° 31.1'	+3 35	+3 49	*0.85	*0.63		3.50	4.13	1.80
	DELAWARE and NEW JERSEY Delaware River			on Reedy Point, p.96							
1705	Stathems 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
1707	Woodland Beach, Del.	39° 20.2'	75° 28.3'	-1 07	-1 10	*1.11	*1.11		5.90	6.80	3.00
1709	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
1711	Canton, Stow Creek, N.J. <i>Mad Horse Creek</i>	39° 27.7'	75° 24.2'	+1 36	+0 45	*0.80	*0.80		4.42	4.82	2.49
1713	1 n.mi. above entrance, N.J.	39° 25.9'	75° 26.8'	-0 20	-0 47	*1.07	*1.07		5.86	6.39	3.12
1715	Pine Island, Malapartis Creek, N.J.	39° 25.3'	75° 25.7'	+0 21	-0 18	*0.92	*0.92		5.08	5.54	2.76
1717	Silver Lake Fork, N.J.	39° 27.2'	75° 27.4'	+0 04	---	---	---		---	---	---
1719	Hope Creek, 0.6 n.mi. above entrance, N.J.	39° 27.5'	75° 29.7'	-0 25	-0 36	*1.05	*1.05		5.78	6.30	3.07
1721	Hope Creek, upper end, N.J.	39° 29.1'	75° 29.6'	+0 49	---	---	---		---	---	---
1723	Taylor's Bridge, Blackbird Creek, Del.	39° 24.0'	75° 36.0'	+1 53	+0 57	*0.54	*0.56		2.90	3.30	1.50
1725	Artificial Island, Salem Nuclear Plant, N.J. <i>Alloway Creek, New Jersey</i>	39° 27.7'	75° 31.9'	-0 35	-0 33	*1.08	*1.08		5.93	6.46	3.16
1727	0.8 n.mi. above entrance	39° 29.8'	75° 31.0'	+0 21	-0 10	*0.99	*0.99		5.44	5.93	3.18
1729	Abbots Meadow	39° 30.7'	75° 29.6'	+0 44	+0 12	*0.94	*0.94		5.15	5.61	2.76
1731	2.5 n.mi. above entrance	39° 30.3'	75° 29.0'	+0 51	+0 15	*0.90	*0.90		4.95	5.40	2.67
1733	Coopers Creek bridge	39° 30.8'	75° 26.8'	+1 51	+1 00	*0.78	*0.78		4.30	4.69	2.37
1735	Quinton	39° 32.9'	75° 24.9'	+2 24	+1 30	*0.69	*0.69		3.79	4.13	2.17
1737	Alloway	39° 33.9'	75° 21.8'	+3 37	---	---	---		---	---	---
1739	Mill Creek, Elsinboro, N.J. <i>Salem River, New Jersey</i>	39° 32.1'	75° 30.7'	-0 04	---	---	---		---	---	---
1741	Sinnickson Landing	39° 34.2'	75° 29.9'	+0 04	+0 19	*0.97	*0.97		5.32	5.80	2.83
1743	Salem	39° 34.6'	75° 28.6'	+0 49	+0 41	*0.76	*0.76		4.19	4.57	2.29
1745	Kates Creek Meadow	39° 37.5'	75° 27.2'	+1 54	---	---	---		---	---	---
1747	Winslow Farms	39° 37.7'	75° 28.9'	+2 09	---	---	---		---	---	---
1749	Beaver Dam	39° 39.0'	75° 29.2'	+2 32	---	---	---		---	---	---
1751	REEDY POINT <i>Chesapeake and Delaware Canal</i>	39° 33.5'	75° 34.4'					<i>Daily predictions</i>	5.34	5.81	2.85
1753	St. Georges, Delaware	39° 33.3'	75° 38.9'	-0 16	-0 17	*0.83	*1.00		4.41	4.81	2.39
1755	Summit Bridge, Delaware	39° 32.0'	75° 44.0'	-0 28	-0 52	*0.65	*0.56		3.50	3.90	1.80
1757	Chesapeake City, Maryland	39° 31.6'	75° 48.6'	-0 45	-1 12	*0.56	*1.28		2.86	3.14	1.66
1759	Delaware City Branch Channel bridge	39° 34.2'	75° 35.4'	+0 00	+0 05	*1.02	*0.89		5.45	5.94	2.88
1761	Delaware City	39° 34.9'	75° 35.3'	+0 11	+0 14	*0.99	*1.00		5.28	5.76	2.82
1763	Pea Patch Island, Bulkhead Shoal Channel, Del.	39° 35.1'	75° 34.4'	+0 03	+0 00	*1.05	*1.00		5.62	6.13	2.99
1765	Mill Creek, Penns Neck, N.J.	39° 36.6'	75° 31.2'	+0 08	---	---	---		---	---	---
1767	New Castle, Delaware	39° 39.4'	75° 33.7'	+0 29	+0 40	*0.98	*1.00		5.21	5.68	2.78
1769	Salem Canal entrance, N.J. <i>Christina River, Delaware</i>	39° 41.0'	75° 30.6'	+0 36	+0 52	*1.00	*1.00		5.52	6.02	2.94
1771	Wilmington Marine Terminal	39° 43.1'	75° 31.2'	+0 50	+1 06	*0.99	*1.11		5.27	5.74	2.83
1773	Millside, RR. bridge	39° 43.5'	75° 33.6'	+1 08	+1 19	*0.99	*1.06		5.30	5.78	2.84
1775	Edgemoor, Del.	39° 45.0'	75° 29.6'	+0 52	+1 11	*1.02	*1.17		5.52	6.02	2.97
1777	Pedricktown, Oldmans Creek, N.J.	39° 45.7'	75° 24.2'	+2 11	+2 07	*0.75	*0.75		4.13	4.50	2.32
1779	Auburn, Oldmans Creek, N.J.	39° 42.9'	75° 21.6'	+4 12	+3 30	*0.55	*0.55		2.74	2.99	1.65
	NEW JERSEY and PENNSYLVANIA Delaware River-cont.			on Philadelphia, p.100							
1781	Marcus Hook, Pa.	39° 48.7'	75° 24.7'	-1 23	-1 07	*0.92	*0.95		5.53	5.86	2.96
1783	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
1785	Swedesboro, Raccoon Creek, N.J. <i>Darby Creek, Pennsylvania</i>	39° 45.1'	75° 18.4'	+0 40	---	---	---		---	---	---
1787	Wanamaker Bridge	39° 52.6'	75° 18.3'	-0 46	-0 34	*0.95	*0.95		5.71	6.05	3.05
1789	Norwood City	39° 52.8'	75° 17.4'	-0 42	-0 35	*0.97	*1.00		5.79	6.13	3.09
1791	Tinicum National Wildlife Refuge	39° 52.7'	75° 16.6'	-0 22	-0 08	*0.91	*0.90		5.47	5.80	2.91
1793	Tinicum National Wildlife Refuge	39° 53.2'	75° 15.9'	-0 24	+0 27	*0.74	*0.74		4.51	4.78	2.33
1795	Tinicum Nat. Wildlife Refuge, Visitor Center	39° 53.5'	75° 15.5'	-0 10	---	---	---		---	---	---
1797	Billingsport, N.J.	39° 51.0'	75° 15.0'	-0 35	-0 28	*0.93	*0.95		5.59	5.93	2.99
1799	Paulsboro, Mantua Creek, N.J.	39° 50.1'	75° 14.3'	-0 24	-0 19	*0.94	*0.90		5.64	5.88	3.01
1801	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
1803	Woodbury Creek, N.J. <i>Schuylkill River, Pennsylvania</i>	39° 51.6'	75° 11.2'	-0 13	-0 14	*0.96	*0.95		5.75	6.10	3.07
1805	Penrose Avenue Bridge	39° 53.9'	75° 12.7'	-0 22	-0 11	*0.96	*0.85		5.79	6.14	3.07
1807	Market Street Bridge	39° 57.3'	75° 10.8'	-0 20	+0 00	*0.99	*0.80		5.94	6.30	3.13
1809	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
1811	Sunset Beach, Big Timber Creek, N.J.	39° 48.9'	75° 05.3'	+1 32	---	---	---		---	---	---
1813	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
1815	PHILADELPHIA, US Coast Guard Station, Pa.	39° 56.0'	75° 08.5'					<i>Daily predictions</i>	5.99	6.32	3.30
1817	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
1819	Bridesburg, Philadelphia, Pa.	39° 59.0'	75° 04.5'	+0 17	+0 22	*1.06	*1.00		6.38	6.76	3.39
1821	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
1823	Cinnaminson, Pennsauken Ck., Rt. 130 bridge, N.J.	39° 59.1'	75° 00.9'	+1 37	---	---	---		---	---	---
1825	Pompeston Creek, N.J.	40° 00.8'	75° 00.5'	+0 21	+0 43	*1.05	*1.05		6.39	6.68	3.30

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			
	NEW JERSEY and PENNSYLVANIA Delaware River—cont. Time meridian, 75° W	North	West	h	m	h	m	ft	ft	ft
				on Philadelphia, p.100						
	<i>Rancocas Creek, New Jersey</i>									
1827	Bridgeboro	40° 01.7'	74° 55.9'	+1 15	+1 18	*1.06	*1.00	6.35	6.73	3.38
1829	North Branch	39° 59.9'	74° 49.1'	+2 58	+3 29	*0.48	*0.60	2.86	3.03	1.55
1831	Hainesport, South Branch	39° 58.7'	74° 49.4'	+2 58	+3 05	*0.62	*0.62	3.63	3.85	2.05
1833	Cornwells Heights, Pa.	40° 04.1'	74° 56.3'	+0 46	+0 58	*1.17	*1.00	7.02	7.44	3.71
1835	Burlington, N.J.	40° 04.8'	74° 52.5'	+0 53	+1 07	*1.20	*1.00	7.24	7.63	3.83
1837	Assiscunk Creek, Route 130 bridge, N.J.	40° 04.4'	74° 50.9'	+1 04	+1 31	*1.12	*0.85	6.75	7.16	3.54
1839	Edgely, Pa.	40° 07.7'	74° 49.4'	+1 08	+1 28	*1.27	*1.15	7.64	8.10	4.05
1841	Fieldsboro, N.J.	40° 08.2'	74° 44.2'	+1 07	+1 39	*1.29	*1.10	7.78	8.25	4.11
1843	Newbold, Pa.	40° 08.2'	74° 45.1'	+1 10	+1 31	*1.30	*1.00	7.86	8.33	4.13
1845	Blacks Creek, Route 130 bridge, N.J.	40° 08.3'	74° 42.7'	+1 13	---	---	---	---	---	---
1847	Sylvan Glen, Crosswicks Ck., Rt. 206 bridge, N.J.	40° 10.9'	74° 42.3'	+2 03	---	---	---	---	---	---
1849	Crosswicks Creek, Route 130 bridge, N.J.	40° 10.4'	74° 40.8'	+3 07	---	---	---	---	---	---
1851	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			on Ocean City, p.104						
1853	Rehoboth Beach	38° 43.2'	75° 04.6'	+0 15	+0 08	*1.13	*1.33	3.9	4.7	2.1
1855	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									
1857	OCEAN CITY (FISHING PIER)	38° 19.6'	75° 05.0'			<i>Daily predictions</i>		3.36	4.00	1.84
1859	Ocean City Inlet	38° 19.7'	75° 05.5'	+0 28	+0 14	*0.65	*1.00	2.13	2.62	1.23
1861	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
1863	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									
1865	Assateague Beach, Toms Cove	37° 52.0'	75° 22.0'	+0 35	+0 48	*1.08	*1.25	3.60	4.28	2.00
1867	Harbor of Refuge	37° 54.2'	75° 24.4'	+0 31	+0 35	*0.73	*0.88	2.43	2.89	1.35
1869	Chincoteague Channel (south end)	37° 54.4'	75° 24.3'	+0 39	+0 47	*0.64	*0.69	2.16	2.57	1.19
1871	Wishart Point, Bogue Bay	37° 52.9'	75° 29.5'	+0 52	+1 13	*0.77	*0.63	2.60	3.09	1.40
1873	Chincoteague Island, USCG Station	37° 55.9'	75° 23.0'	+0 56	+1 11	*0.48	*0.56	1.59	1.89	0.89
1875	Chincoteague Island, Lewis Creek	37° 56.3'	75° 22.4'	+1 17	+1 38	*0.40	*0.63	1.32	1.57	0.76
1877	Chincoteague Island, Oyster Bay	37° 56.5'	75° 20.8'	+1 44	+2 05	*0.46	*0.56	1.54	1.83	0.86
1879	Chincoteague Island, Blake Cove	37° 57.1'	75° 21.3'	+1 51	+2 32	*0.28	*0.56	0.89	1.06	0.53
1881	Jesters Island	37° 58.9'	75° 18.1'	+2 32	+3 24	*0.24	*0.24	0.76	0.90	0.48
1883	Franklin City	38° 00.4'	75° 23.0'	+2 20	+3 00	*0.22	*0.63	0.66	0.79	0.43
1885	Public Landing	38° 08.9'	75° 17.1'	+4 41	+5 21	*0.18	*0.18	0.53	0.63	0.36
1887	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									
1889	Wallops Island	37° 50.5'	75° 28.7'	+0 04	-0 04	*1.06	*0.31	3.67	4.37	1.89
1891	Gargathy Neck	37° 46.6'	75° 33.7'	+1 31	+1 27	*0.88	*0.63	3.01	3.58	1.60
1893	Metompkin Inlet	37° 40.3'	75° 35.7'	+1 01	+0 44	*1.08	*1.25	3.60	4.28	2.00
1895	Folly Creek, Metompkin Inlet	37° 41.8'	75° 38.1'	+1 24	+1 12	*0.97	*0.63	3.30	3.93	1.80
1897	Wachapreague, Wachapreague Channel	37° 36.4'	75° 41.2'	+1 10	+0 56	*1.19	*1.06	4.02	4.85	2.18
1899	Revel Creek, Revel Island	37° 29.8'	75° 41.0'	+0 35	+0 27	*1.19	*1.00	4.04	4.81	2.18
1901	Great Machipongo Inlet (inside)	37° 23.6'	75° 42.8'	+1 05	+0 56	*1.16	*1.25	3.86	4.59	2.10
1903	Upshur Neck, south end	37° 28.0'	75° 48.0'	+1 09	+1 14	*1.31	*1.25	4.40	5.24	2.40
1905	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
1907	Oyster Harbor	37° 17.3'	75° 55.5'	+1 00	+0 36	*1.34	*1.13	4.52	5.38	2.40
1909	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			on Ches. Bay Bridge Tunnel, p.116						
1911	Fishermans Island	37° 05.8'	75° 58.9'	+0 02	+0 11	*1.19	*1.25	3.02	3.62	1.71
1913	Kiptopeke Beach	37° 10.0'	75° 59.3'	+0 23	+0 32	*1.01	*0.92	2.60	3.09	1.41
1915	Old Plantation Light	37° 14'	76° 03'	+0 33	+0 52	*0.92	*0.83	2.4	2.9	1.3
1917	Cape Charles Harbor	37° 15.8'	76° 00.9'	+0 45	+1 03	*0.90	*0.92	2.3	2.8	1.3
1919	Gaskins Point, Occohannock Creek	37° 33.3'	75° 55.2'	+2 35	+3 13	*0.66	*0.83	1.70	2.00	0.94
1921	Harborton, Pungoteague Creek	37° 40.0'	75° 50.0'	+3 11	+3 33	*0.70	*0.83	1.76	2.11	0.98
1923	Onancock, Onancock Creek	37° 42.7'	75° 45.4'	+3 55	+4 19	*0.71	*0.83	1.80	2.16	1.00
1925	Chesconessex Creek, Schooner Bay	37° 45.8'	75° 46.4'	+3 41	+3 59	*0.78	*1.25	1.94	2.33	1.12
1927	Watts Island	37° 47.9'	75° 53.8'	+4 02	+4 12	*0.64	*0.83	1.60	1.92	0.90
1929	Tangier Island	37° 49.7'	75° 59.6'	+3 58	+4 16	*0.60	*0.75	1.41	1.69	0.80
1931	Muddy Creek Entrance	37° 51.3'	75° 40.5'	+4 14	+4 51	*0.86	*0.83	2.20	2.64	1.20
1933	Guard Shore	37° 51.0'	75° 42.0'	+4 06	+4 47	*0.90	*0.83	2.30	2.76	1.27
	MARYLAND Chesapeake Bay, Eastern Shore									
1935	Saxis, Starling Creek, Pocomoke Sound	37° 55.3'	75° 43.7'	+3 52	+4 36	*0.89	*1.17	2.24	2.69	1.26
1937	Ape Hole Creek, Pocomoke Sound <i>Pocomoke River</i>	37° 57.7'	75° 49.3'	+4 27	+4 58	*0.90	*0.83	2.30	2.80	1.20
1939	Shelltown	37° 58.8'	75° 38.3'	+4 32	+5 16	*0.94	*1.00	2.40	2.90	1.30
1941	Snowhill, city park	38° 10.5'	75° 24.0'	+8 44	+8 54	*0.58	*1.33	1.39	1.67	0.86
1943	Crisfield, Little Annemessex River	37° 58.6'	75° 51.8'	+4 34	+4 51	*0.75	*1.00	1.86	2.23	1.05
1945	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
1947	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

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	
MARYLAND										
Chesapeake Bay, Eastern Shore—cont.										
Time meridian, 75° W										
on Ches. Bay Bridge Tunnel, p.116										
1949	Teague Creek, Manokin River	38° 06.5'	75° 50.3'	+5 38	+6 05	*0.82	*0.83	2.10	2.50	1.10
1951	Ewell, Smith Island	37° 59.7'	76° 01.9'	+4 56	+5 19	*0.61	*1.00	1.53	1.84	0.88
1953	Holland Island Bar Light	38° 04.1'	76° 05.8'	+5 16	+5 30	*0.56	*0.58	1.40	1.70	0.80
1955	Chance	38° 10.2'	75° 56.8'	+5 29	+5 57	*0.78	*1.17	1.94	2.33	1.11
1957	Sharkfin Shoal Light	38° 12.1'	75° 59.2'	+5 46	+6 06	*0.86	*0.92	2.20	2.64	1.20
1959	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
<i>Wicomico River</i>										
1961	Whitehaven	38° 16.0'	75° 47.0'	+6 26	+6 46	*0.94	*1.00	2.40	2.90	1.30
1963	Salisbury	38° 22.0'	75° 36.0'	+7 21	+7 24	*1.20	*1.25	3.00	3.60	1.70
<i>Nanticoke River</i>										
1965	Roaring Point	38° 15.7'	75° 55.2'	+6 00	+6 35	*0.90	*0.92	2.30	2.76	1.30
1967	Vienna	38° 29.0'	75° 49.1'	+8 25	+8 32	*0.79	*1.33	1.94	2.33	1.13
1969	Sharptown	38° 32.5'	75° 43.4'	+9 19	+9 28	*0.97	*1.00	2.50	3.00	1.40
1971	McCreedy's Creek, Fishing Bay	38° 18.0'	76° 00.4'	+5 49	+6 22	*0.82	*1.17	2.05	2.46	1.16
1973	Hooper Strait Light	38° 13.6'	76° 04.6'	+5 26	+5 51	*0.61	*1.17	1.48	1.77	0.88
1975	Bishops Head, Hooper Strait	38° 13.2'	76° 02.3'	+5 32	+6 04	*0.70	*1.08	1.73	2.08	0.99
on Baltimore, p.108										
1977	Middle Hooper Island	38° 17.8'	76° 12.3'	-4 40	-4 39	*1.32	*1.50	1.51	1.71	1.09
1979	Barren Island	38° 20.5'	76° 15.9'	-4 45	-4 56	*1.01	*0.68	1.22	1.38	0.77
<i>Little Choptank River</i>										
1981	Smithville Road Bridge, Beaverdam Creek	38° 25.7'	76° 14.2'	-2 26	-2 49	*1.01	*0.82	1.19	1.34	0.78
1983	Taylor's Island, Slaughter Creek	38° 28.0'	76° 17.7'	-3 15	-3 00	*1.10	*1.18	1.30	1.47	0.88
1985	Woolford, Church Creek	38° 30.4'	76° 10.4'	-3 11	-2 55	*1.25	*1.41	1.40	1.58	1.00
1987	Cherry Island, Beckwith's Creek	38° 33.7'	76° 12.5'	-3 07	-2 57	*1.18	*1.27	1.34	1.51	0.90
<i>Choptank River</i>										
1989	Cambridge	38° 34.4'	76° 04.1'	-2 42	-2 28	*1.23	*0.95	1.62	1.83	1.02
1991	Dover Bridge	38° 45.4'	75° 59.9'	-0 18	-0 41	*1.54	*1.68	1.70	1.92	1.24
1993	Hillsboro, Tuckahoe Creek	38° 55.0'	75° 56.7'	+1 21	+1 18	*1.83	*0.86	2.30	2.60	1.34
<i>Tred Avon River</i>										
1995	Oxford	38° 42.0'	76° 10.4'	-2 50	-2 45	*1.25	*1.41	1.40	1.58	1.00
1997	Easton Point	38° 46.1'	76° 05.9'	-2 45	-2 35	*1.47	*1.59	1.60	1.81	1.20
1999	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
2001	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
2003	Avalon, Dogwood Harbor	38° 42.5'	76° 19.8'	-2 54	-2 48	*1.18	*1.36	1.30	1.47	0.90
2005	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
2007	Claiborne, Eastern Bay	38° 50.2'	76° 16.8'	-2 26	-2 28	*0.96	*1.09	1.10	1.24	0.70
2009	St. Michaels, Miles River	38° 47.2'	76° 13.3'	-2 12	-2 02	*1.22	*1.18	1.40	1.58	0.96
2011	Kent Island Narrows	38° 58.0'	76° 14.6'	-1 30	-1 23	*1.10	*1.18	1.20	1.36	0.90
2013	Matapeake, Kent Island	38° 57.4'	76° 21.3'	-1 30	-1 49	*0.90	*0.95	1.02	1.15	0.72
2015	Kent Point Marina	38° 50.2'	76° 22.4'	-2 21	-2 29	*0.97	*0.95	1.11	1.25	0.76
<i>Chester River</i>										
2017	Love Point	39° 01.9'	76° 18.1'	-0 25	-0 41	*1.03	*0.95	1.19	1.34	0.84
2019	Queenstown	38° 59.8'	76° 09.5'	+0 05	-0 08	*1.18	*1.27	1.30	1.47	0.90
2021	Centreville Landing, Corsica River	39° 03.2'	76° 04.5'	+0 20	+0 14	*1.47	*1.89	1.60	1.81	1.20
2023	Cliffs Point	39° 06.4'	76° 08.5'	+0 12	-0 02	*1.32	*1.50	1.50	1.70	1.00
2025	Cliffs Wharf	39° 06.7'	76° 08.3'	+0 09	-0 08	*1.33	*1.27	1.53	1.73	1.05
2027	Chestertown	39° 12.4'	76° 03.8'	+1 03	+0 36	*1.62	*1.77	1.80	2.03	1.31
2029	Crumpton	39° 14.7'	75° 55.5'	+1 10	+1 04	*1.82	*0.91	2.28	2.58	1.34
2031	Deep Landing, Swan Creek	39° 08.7'	76° 15.6'	+0 02	-0 04	*0.96	*1.09	1.13	1.28	0.70
2033	Tolchester Beach	39° 12.8'	76° 14.7'	+0 18	+0 11	*1.04	*0.95	1.21	1.35	0.81
2035	Worton Creek entrance	39° 17.8'	76° 10.3'	+1 22	+1 19	*1.18	*1.27	1.30	1.47	0.90
2037	Sassafras River, Betterton	39° 22.3'	76° 03.8'	+2 35	+2 15	*1.34	*1.00	1.60	1.81	1.02
<i>Elk River</i>										
2039	Town Point Wharf	39° 30.2'	75° 55.0'	+3 18	+2 59	*1.74	*0.86	2.17	2.45	1.28
C & D Canal (see Delaware River)										
Chesapeake City, Maryland (see C & D Canal)										
2041	Old Frenchtown Wharf	39° 34.5'	75° 50.6'	+3 13	+3 00	*2.06	*2.27	2.30	2.60	1.60
2043	Charlestown, Northeast River	39° 34.4'	75° 58.2'	+3 52	+4 03	*1.69	*1.86	1.90	2.15	1.30
Chesapeake Bay, western shore										
<i>Susquehanna River</i>										
2045	Havre de Grace	39° 32.2'	76° 05.4'	+3 13	+3 27	*1.55	*0.95	1.90	2.15	1.16
2047	Port Deposit	39° 36.0'	76° 06.8'	+3 24	+3 49	*1.51	*1.14	1.81	2.04	1.16
2049	Pond Point, Bush River	39° 23.3'	76° 15.3'	+1 52	+1 31	*1.06	*0.86	1.25	1.41	0.81
<i>Patapsco River</i>										
2051	North Point	39° 11.8'	76° 26.8'	+0 12	+0 04	*0.93	*1.09	1.03	1.16	0.75
2053	Stony Creek	39° 09.8'	76° 31.6'	+0 03	-0 05	*0.95	*0.91	1.09	1.23	0.75
2055	Hawkins Point	39° 12.5'	76° 32.0'	+0 00	+0 06	*1.03	*0.95	1.19	1.34	0.80
2057	BALTIMORE, Fort McHenry	39° 16.0'	76° 34.7'			<i>Daily predictions</i>		1.14	1.25	0.79
2059	Fort McHenry Marsh	39° 15.7'	76° 35.1'	-0 01	-0 01	*1.00	*1.00	1.14	1.29	0.78
2061	Mountain Point, Magothy River	39° 03.7'	76° 26.0'	-0 04	-0 04	*0.74	*0.77	0.80	0.90	0.60
2063	Cornfield Creek, Magothy River	39° 06.0'	76° 26.7'	-0 29	-0 38	*0.89	*0.95	0.99	1.12	0.71
<i>Severn River</i>										
2065	Brewer Point	39° 01.6'	76° 32.0'	-0 45	-0 54	*0.74	*0.91	0.80	0.90	0.60
2067	Annapolis (US Naval Academy)	38° 59.0'	76° 28.8'	-1 30	-1 44	*0.88	*1.00	0.97	1.12	0.71
2069	Thomas Point Shoal Light	38° 54.0'	76° 26.0'	-1 56	-2 11	*0.81	*0.91	0.90	1.02	0.60
2071	Edgewater, South River	38° 57.0'	76° 33.0'	-1 51	-2 07	*0.81	*0.91	0.90	1.02	0.60
2073	Gingerville Creek, South River	38° 57.5'	76° 33.3'	-2 01	-2 06	*0.92	*1.00	1.03	1.16	0.74
2075	Rhode River (County Wharf)	38° 53.2'	76° 32.4'	-2 07	-2 17	*0.88	*1.00	0.98	1.10	0.70
2077	Galesville, West River	38° 50.0'	76° 32.0'	-1 39	-1 34	*0.81	*0.91	0.90	1.01	0.60

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					
	MARYLAND Chesapeake Bay, western shore—cont. Time meridian, 75° W	North	West	h	m	h	m	ft	ft	ft		
				on Baltimore, p.108								
2079	Rose Haven	38° 43.5'	76° 32.5'	-2	37	-2	44	*0.81	*0.91	0.90	1.01	0.60
2081	Chesapeake Beach	38° 41.0'	76° 32.0'	-2	47	-3	05	*0.88	*1.00	1.00	1.13	0.70
2083	Long Beach	38° 27.9'	76° 28.4'	-3	47	-4	04	*0.87	*0.77	1.01	1.14	0.67
2085	Cove Point	38° 23.5'	76° 23.9'	-4	10	-4	25	*0.83	*0.83	1.04	1.18	0.61
	<i>Patuxent River</i>											
2087	Solomons Island	38° 19.0'	76° 27.1'	-4	38	-4	46	*0.98	*0.73	1.17	1.34	0.74
2089	Broomes Island	38° 24.9'	76° 32.7'	-4	13	-4	19	*1.18	*1.36	1.30	1.47	0.94
2091	Benedict	38° 30.8'	76° 40.2'	-3	54	-3	54	*1.47	*1.82	1.60	1.81	0.81
2093	Lower Marlboro	38° 39.3'	76° 41.0'	-2	44	-2	51	*1.44	*0.77	1.80	2.03	1.07
2095	Point Lookout	38° 02.4'	76° 1.4'	-5	28	-5	37	*1.02	*0.77	1.22	1.38	0.78
	MD., VA. and DISTRICT OF COLUMBIA Potomac River			on Washington, p.112								
2097	Cornfield Harbor, Md.	38° 03.7'	76° 21.5'	-6	16	-7	35	*0.48	*0.53	1.30	1.43	0.76
2099	Lewisetta, Va.	37° 59.7'	76° 27.9'	-6	19	-7	31	*0.46	*0.80	1.25	1.42	0.74
2101	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
2103	Kinsale, Yeocomico River, Va.	38° 01.9'	76° 34.6'	-5	46	-6	53	*0.44	*0.67	1.20	1.32	0.70
2105	Piney Point, Md.	38° 08.0'	76° 32.0'	-5	54	-7	16	*0.51	*0.60	1.40	1.54	0.80
2107	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
2109	Mount Holly, Nomini Creek, Va.	38° 05.9'	76° 44.1'	-4	51	-6	14	*0.54	*0.67	1.50	1.65	0.80
2111	Colton Point, Md.	38° 13.2'	76° 45.0'	-5	18	-6	43	*0.65	*0.73	1.80	1.98	1.03
2113	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
2115	Colonial Beach, Va.	38° 15.1'	76° 57.6'	-5	08	-6	13	*0.61	*0.93	1.63	1.79	0.96
2117	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
2119	Lower Cedar Point, Md.	38° 20.5'	76° 58.6'	-4	48	-5	56	*0.54	*0.60	1.50	1.65	0.80
2121	Mathias Point, Va.	38° 23.9'	77° 03.2'	-4	00	-4	56	*0.44	*0.67	1.20	1.32	0.70
2123	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
2125	Riverside, Md.	38° 23.2'	77° 08.7'	-3	23	-4	24	*0.48	*0.53	1.28	1.41	0.78
2127	Aquia Creek, Va.	38° 25.1'	77° 21.2'	-1	28	-2	32	*0.48	*0.67	1.26	1.39	0.71
2129	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
2131	Liverpool Point, Md.	38° 27.6'	77° 16.2'	-0	39	-1	58	*0.44	*0.67	1.20	1.32	0.70
2133	Quantico, Va.	38° 31.2'	77° 17.2'	-0	52	-2	04	*0.51	*0.67	1.40	1.54	0.80
2135	Indian Head, Md.	38° 36.1'	77° 11.1'	-0	14	-1	33	*0.65	*0.73	1.80	1.98	1.03
2137	Marshall Hall, Md.	38° 41.2'	77° 06.1'	+0	10	-0	55	*0.82	*0.93	2.30	2.53	1.27
2139	Alexandria, Va.	38° 48.3'	77° 02.3'	+0	18	-0	11	*0.96	*1.33	2.62	2.88	1.51
2141	Bellevue, D.C.	38° 49.6'	77° 01.6'	+0	34	-0	11	*1.02	*1.33	2.80	3.08	1.60
2143	WASHINGTON, Washington Channel, D.C.	38° 52.3'	77° 01.2'	<i>Daily predictions</i>				2.77	3.07	1.55		
	<i>Anacostia River</i>											
2145	Washington Naval Yard	38° 52.3'	76° 59.7'	+0	18	-0	06	*1.01	*1.20	2.80	3.08	1.57
2147	Kingman Lake	38° 53.7'	76° 58.1'	+0	22	+0	04	*1.03	*1.20	2.84	3.12	1.60
2149	Kenilworth Aquatic Garden	38° 54.6'	76° 57.3'	+0	29	+0	10	*1.05	*1.07	2.92	3.21	1.62
2151	Bladensburg, Md.	38° 56.0'	76° 56.3'	+0	31	+0	25	*1.06	*1.13	2.95	3.25	1.64
	VIRGINIA Chesapeake Bay, western shore—cont.			on Ches. Bay Bridge Tunnel, p.116								
2153	Sunnybank, Little Wicomico River	37° 53.2'	76° 16.0'	+6	41	+6	45	*0.30	*0.30	0.80	0.96	0.40
2155	Great Wicomico River Light	37° 48.3'	76° 16.1'	+3	58	+4	11	*0.41	*0.41	1.10	1.32	0.50
2157	Fleeton Point	37° 48.8'	76° 16.5'	+3	58	+4	14	*0.41	*0.41	1.10	1.32	0.59
2159	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
2161	Windmill Point Light	37° 35.8'	76° 14.2'	+2	48	+3	12	*0.41	*0.41	1.10	1.32	0.50
	<i>Rappahannock River</i>			on Hampton Roads, p.120								
2163	Windmill Point	37° 36.9'	76° 17.4'	+1	55	+2	14	*0.49	*0.83	1.16	1.40	0.68
2165	Mill Creek (Grey Point)	37° 35.0'	76° 25.1'	+2	28	+2	42	*0.55	*0.83	1.30	1.57	0.69
2167	Millenbeck, Corrotoman River	37° 40.1'	76° 29.2'	+2	37	+3	05	*0.55	*0.83	1.30	1.57	0.70
2169	Urbanna	37° 39.0'	76° 34.5'	+2	50	+3	09	*0.59	*0.83	1.40	1.69	0.79
2171	Bayport	37° 45.3'	76° 40.4'	+3	22	+3	51	*0.67	*0.83	1.60	1.94	0.90
2173	Wares Wharf	37° 52.4'	76° 47.0'	+4	04	+4	34	*0.75	*0.33	1.88	2.27	0.98
2175	Tappahannock	37° 55.8'	76° 51.4'	+4	40	+5	18	*0.71	*0.83	1.74	2.11	0.95
				on Washington, p.112								
2177	Saunders Wharf	38° 05.4'	77° 02.0'	-3	53	-4	41	*0.54	*0.66	1.50	1.65	0.85
2179	Port Royal	38° 10.4'	77° 11.4'	-2	19	-3	02	*0.68	*0.67	1.90	2.09	1.10
2181	Park Turn	38° 12.8'	77° 14.6'	-1	35	-2	30	*0.73	*0.20	2.13	2.34	1.09
2183	Hopyard Landing	38° 14.6'	77° 13.6'	-1	07	-1	57	*0.75	*0.67	2.10	2.31	1.19
2185	Massaponax	38° 15.3'	77° 24.6'	-0	39	-0	41	*0.88	*1.33	2.50	2.75	1.39
	<i>Piankatank River</i>			on Hampton Roads, p.120								
2187	Jackson Creek, Deltaville	37° 32.9'	76° 19.9'	+1	36	+2	04	*0.51	*0.83	1.20	1.45	0.70
2189	Dixie	37° 30.5'	76° 25.0'	+1	34	+2	14	*0.55	*0.83	1.30	1.57	0.72
2191	Wolf Trap Light	37° 23.4'	76° 11.4'	-0	02	+0	32	*0.67	*0.83	1.60	1.94	0.90
	<i>Mobjack Bay</i>											
2193	Mobjack, East River	37° 22.4'	76° 20.8'	-0	17	+0	02	*0.98	*0.83	2.40	2.90	1.30
2195	Belleville	37° 24.7'	76° 26.3'	-0	06	+0	00	*1.02	*0.83	2.48	3.00	1.36
2197	Browns Bay	37° 18.1'	76° 24.2'	-0	11	-0	03	*0.98	*1.58	2.32	2.81	1.35

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 York River Time meridian, 75° W	North	West	h	m	h	m	ft	ft	ft
				on Hampton Roads, p.120						
2199	Tue Marshes Light	37° 14.1'	76° 23.1'	+0 03	+0 03	*0.90	*0.83	2.17	2.63	1.19
2201	Yorktown, Goodwin Neck	37° 13.4'	76° 26.4'	+0 18	+0 15	*0.90	*0.83	2.20	2.66	1.23
2203	Yorktown, USCG Training Center	37° 13.6'	76° 28.7'	+0 10	+0 15	*0.95	*1.08	2.29	2.77	1.28
2205	Gloucester Point	37° 14.8'	76° 30.0'	+0 10	+0 11	*0.98	*1.00	2.38	2.93	1.30
2207	Cheatham Annex	37° 17.5'	76° 35.2'	+0 48	+0 40	*1.02	*0.83	2.50	3.03	1.34
2209	Roane Point	37° 26.9'	76° 42.4'	+1 47	+1 50	*1.14	*0.83	2.81	3.40	1.54
2211	West Point	37° 32.1'	76° 47.6'	+2 12	+2 38	*1.14	*0.83	2.80	3.39	1.50
2213	Wakema (Fraziers Ferry), Mattaponi River <i>Pamunkey River</i>	37° 39.0'	76° 54.0'	+3 34	+3 57	*1.41	*1.67	3.42	4.14	1.90
2215	Lester Manor	37° 35.0'	76° 59.4'	+4 45	+5 00	*1.05	*0.83	2.80	3.39	1.50
2217	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.									
2219	Messick Point, Back River <i>Hampton Roads</i>	37° 06.5'	76° 19.1'	-0 07	+0 02	*0.97	*0.97	2.30	2.78	1.33
2221	Old Point Comfort	37° 00.2'	76° 18.9'	+0 01	+0 09	*1.02	*0.83	2.52	3.05	1.38
2223	HAMPTON ROADS (Sewells Point) <i>Elizabeth River</i>	36° 56.8'	76° 19.8'			<i>Daily predictions</i>		2.43	2.95	1.34
2225	Craney Island Light	36° 53.5'	76° 20.3'	+0 18	+0 04	*1.06	*0.83	2.60	3.15	1.40
2227	Norfolk	36° 51.1'	76° 17.9'	+0 23	+0 20	*1.14	*0.83	2.82	3.41	1.50
2229	Portsmouth, Naval Shipyard	36° 49.3'	76° 17.6'	+0 08	+0 10	*1.13	*1.17	2.76	3.26	1.52
2231	Money Point	36° 46.7'	76° 18.1'	+0 16	+0 12	*1.18	*1.17	2.86	3.46	1.57
2233	Deep Creek Entrance <i>Nansemond River</i>	36° 45.3'	76° 17.6'	+0 22	+0 18	*1.21	*1.25	2.92	3.53	1.61
2235	Pig Point	36° 55.0'	76° 26.1'	+0 42	+0 40	*1.05	*0.83	2.80	3.39	1.50
2237	Town Point	36° 53.0'	76° 30.5'	+0 37	+0 44	*1.22	*0.83	3.00	3.63	1.60
2239	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									
2241	Newport News	36° 58.4'	76° 26.0'	+0 29	+0 28	*1.08	*0.83	2.60	3.15	1.40
2243	Huntington Park	37° 00.8'	76° 27.5'	+0 38	+0 39	*1.07	*0.92	2.62	3.17	1.42
2245	Menchville	37° 04.9'	76° 31.5'	+1 03	+1 19	*1.06	*0.83	2.60	3.15	1.40
2247	Smithfield, Pagan River	36° 59.1'	76° 37.8'	+1 34	+1 38	*1.14	*0.83	2.78	3.36	1.50
2249	Burwell Bay	37° 03.4'	76° 40.1'	+1 17	+1 39	*1.00	*1.17	2.42	2.93	1.35
2251	Mulberry Point, Fort Eustis	37° 08.2'	76° 38.0'	+2 05	+2 26	*0.98	*0.83	2.40	2.90	1.30
2253	Kingsmill	37° 13.2'	76° 39.8'	+2 05	+2 26	*0.94	*1.33	2.26	2.73	1.29
2255	Scotland	37° 11.1'	76° 47.0'	+2 44	+3 13	*0.78	*1.08	1.84	2.22	1.06
2257	Jamestown Island, Church Point <i>Chickahominy River</i>	37° 12.4'	76° 46.7'	+3 03	+3 36	*0.82	*0.83	2.00	2.42	1.10
2259	Ferry Point (bridge)	37° 15.8'	76° 52.7'	+4 01	+4 26	*0.78	*0.83	1.90	2.30	1.04
2261	Wright Island Landing	37° 20.7'	76° 52.5'	+4 44	+5 03	*0.90	*0.83	2.20	2.66	1.20
2263	Claremont	37° 13.9'	76° 56.9'	+3 51	+4 25	*0.76	*1.17	1.79	2.11	1.06
2265	Sturgeon Point	37° 18.4'	77° 00.4'	+4 37	+5 09	*0.86	*0.83	2.10	2.54	1.10
2267	Willcox Wharf, Charles City	37° 19.0'	77° 05.9'	+5 30	+5 50	*0.90	*0.83	2.15	2.60	1.09
2269	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						
2271	City Point, Hopewell	37° 18.8'	77° 16.2'	-4 30	-5 24	*0.86	*1.00	2.40	2.64	1.35
2273	Puddledock, Appomattox River	37° 16.0'	77° 22.3'	-3 49	-4 32	*1.00	*1.07	2.80	3.08	1.55
2275	Haxall	37° 22.4'	77° 14.6'	-4 10	-4 53	*0.99	*1.33	2.70	2.97	1.60
2277	Chester	37° 23.0'	77° 22.7'	-3 39	-3 59	*1.02	*0.67	2.90	3.19	1.60
2279	Meadowville	37° 22.7'	77° 19.4'	-3 46	-4 17	*1.05	*1.33	2.90	3.19	1.60
2281	Richmond (river locks)	37° 31.5'	77° 25.2'	-3 16	-3 26	*1.16	*1.33	3.20	3.52	1.80
	Chesapeake Bay, southern shore									
				on Ches. Bay Bridge Tunnel, p.116						
2283	Little Creek, NAB	36° 54.7'	76° 10.5'	+0 08	+0 09	*1.01	*1.17	2.57	3.08	1.42
2285	CHESAPEAKE BAY BRIDGE TUNNEL	36° 58.0'	76° 06.8'			<i>Daily predictions</i>		2.55	3.07	1.40
2287	Lynnhaven Inlet, Virginia Pilots Dock <i>Lynnhaven Bay</i>	36° 54.4'	76° 05.4'	+0 40	+0 38	*0.88	*1.08	2.22	2.66	1.24
2289	Bayville	36° 53.6'	76° 06.3'	+1 52	+2 48	*0.67	*0.83	1.70	2.04	1.00
2291	Buchanan Creek entrance	36° 51.7'	76° 06.9'	+2 02	+2 56	*0.75	*0.83	1.90	2.28	1.00
2293	Brown Cove	36° 52.5'	76° 03.7'	+2 05	+2 43	*0.65	*0.83	1.64	1.96	0.92
2295	Broad Bay Canal	36° 54.1'	76° 03.7'	+2 05	+2 00	*0.56	*0.92	1.38	1.66	0.80
2297	Long Creek	36° 54.2'	76° 04.2'	+1 15	+1 15	*0.68	*1.08	1.68	2.02	0.97
	VIRGINIA, outer coast									
				on Duck Pier, p.124						
2299	Cape Henry	36° 55.8'	76° 00.4'	+0 31	+0 36	*0.96	*0.93	3.12	3.71	1.68
2301	Virginia Beach	36° 50.6'	75° 58.3'	+0 15	+0 16	*1.07	*1.07	3.34	3.97	1.85
2303	Rudee Inlet entrance	36° 49.9'	75° 58.1'	+0 02	+0 02	*1.01	*0.86	3.28	3.90	1.77
2305	Rudee Inlet, interior channel	36° 49.9'	75° 58.4'	+0 17	+0 16	*1.02	*1.00	3.28	3.92	1.79
2307	Rudee Heights, Lake Wesley	36° 49.5'	75° 58.5'	+0 18	+0 16	*1.03	*1.00	3.32	3.95	1.81
2309	Lake Rudee, south end	36° 49.5'	75° 58.9'	+0 20	+0 19	*1.05	*1.07	3.39	4.03	1.85
2311	Sandbridge	36° 41.5'	75° 55.2'	+0 07	+0 07	*1.04	*1.04	3.35	3.99	1.85

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 CAROLINA, outer coast Time meridian, 75° W	North	West	h	m	h	m	ft	ft	ft
				on Duck Pier, p.124						
				<i>Daily predictions</i>						
2313	DUCK PIER	36° 11.0'	75° 44.8'	---	---	---	---	3.22	3.96	1.75
2315	Albemarle and Pamlico Sounds <9>	---	---	---	---	---	---	---	---	---
2317	Kitty Hawk (ocean)	36° 06.1'	75° 42.6'	-0 01	+0 02	*1.01	*1.43	3.19	3.80	1.80
2319	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						
				<i>Daily predictions</i>						
2321	Roanoke Sound Channel	35° 48'	75° 35'	+1 37	+1 17	*0.47	*0.14	0.5	0.6	0.3
2323	OREGON INLET MARINA	35° 47.7'	75° 32.9'	<i>Daily predictions</i>				0.89	1.08	0.58
2325	Oregon Inlet	35° 46'	75° 31'	-0 03	-0 27	*1.98	*0.71	2.0	2.4	1.1
2327	Oregon Inlet (USCG Station)	35° 46.1'	75° 31.6'	-0 22	-0 51	*2.00	*0.69	1.97	2.30	1.07
2329	Oregon Inlet Bridge	35° 46.4'	75° 32.3'	-0 17	-0 55	*1.89	*0.64	1.9	2.3	1.1
2331	Oregon Inlet Channel	35° 46.5'	75° 33.5'	-0 09	-0 34	*1.23	*0.43	1.2	1.4	0.7
2333	Old House Channel	35° 46.5'	75° 34.9'	+0 34	+0 28	*0.66	*0.21	0.7	0.8	0.4
2335	Davis Slough	35° 44.9'	75° 33.2'	+0 09	-0 01	*0.85	*0.29	0.9	1.1	0.5
2337	Rodanthe, Pamlico Sound	35° 35.7'	75° 28.3'	+2 03	+1 36	*0.79	*0.69	0.72	0.84	0.45
				on Cape Hatteras, p.132						
				<i>Daily predictions</i>						
2339	Cape Hatteras	35° 14'	75° 31'	+0 01	+0 01	*1.00	*1.08	3.6	4.3	2.0
2341	CAPE HATTERAS FISHING PIER	35° 13.4'	75° 38.1'	<i>Daily predictions</i>				2.99	3.60	1.61
2343	Hatteras (ocean)	35° 12'	75° 42'	-0 15	-0 13	*1.14	*1.67	3.4	4.1	1.9
2345	Hatteras Inlet	35° 12'	75° 44'	+0 08	+0 13	*0.66	*0.83	2.0	2.4	1.1
2347	Ocracoke Inlet	35° 04'	76° 01'	+0 09	+0 11	*0.63	*0.83	1.9	2.3	1.0
2349	Ocracoke, Ocracoke Island	35° 06.9'	75° 59.3'	+0 15	+0 47	*0.34	*0.50	0.99	1.19	0.56
2351	Cape Lookout Bight	34° 36.8'	76° 32.3'	-0 17	-0 12	*1.35	*1.33	4.05	4.86	2.19
2353	Cape Lookout (ocean)	34° 36.5'	76° 31.7'	-0 22	-0 22	*1.15	*1.25	3.44	4.13	1.87
2355	Shell Point, Harkers Island	34° 41'	76° 32'	+1 52	+2 34	*0.54	*0.83	1.6	1.8	0.9
2357	Harkers Island Bridge	34° 43'	76° 35'	+2 08	+2 31	*0.52	*0.67	1.6	1.7	0.9
2359	Channel Marker Lt. 59	34° 42'	76° 37'	+1 25	+1 27	*0.66	*0.83	2.0	2.3	1.1
2361	Lenoxville Point	34° 42.5'	76° 37.2'	+1 18	+1 11	*0.80	*1.00	2.37	2.84	1.31
2363	North River Bridge	34° 47'	76° 37'	+2 25	+3 08	*0.59	*0.67	1.8	2.0	1.0
2365	Beaufort Inlet Channel Range	34° 42'	76° 40'	+0 07	+0 11	*1.07	*1.67	3.2	3.8	1.6
2367	Beaufort, Taylor Creek	34° 42.7'	76° 38.7'	+0 52	+0 48	*0.95	*1.17	2.82	3.38	1.55
2369	Beaufort, Duke Marine Lab	34° 43.2'	76° 40.2'	+0 39	+0 36	*1.05	*1.17	3.11	3.58	1.70
2371	Gallant Channel	34° 44'	76° 40'	+0 49	+0 44	*1.01	*1.25	3.0	3.5	1.7
2373	Newport River (Yacht Club)	34° 46.1'	76° 40.3'	+1 03	+1 13	*1.03	*1.00	3.08	3.70	1.66
2375	Core Creek Bridge	34° 50'	76° 42'	+1 26	+1 46	*0.68	*0.83	2.1	2.3	1.1
2377	Fort Macon, USCG Station	34° 42'	76° 41'	+0 17	+0 18	*1.03	*1.25	3.1	3.7	1.7
2379	Morehead City	34° 43'	76° 42'	+0 26	+0 27	*1.04	*1.25	3.1	3.7	1.7
2381	Morehead City Harbor	34° 43.2'	76° 43.7'	+0 35	+0 37	*1.04	*1.17	3.08	3.70	1.68
2383	Atlantic Beach	34° 41.6'	76° 42.7'	-0 02	+0 01	*1.23	*1.25	3.65	4.38	1.98
2385	Triple ESS Marina, Bogue Sd.	34° 42'	76° 43'	+0 35	+0 28	*0.93	*1.17	2.8	3.3	1.5
2387	Atlantic Beach Bridge	34° 43'	76° 44'	+0 48	+1 02	*0.79	*0.83	2.4	2.8	1.2
2389	N.C. State Fisheries	34° 43'	76° 45'	+1 05	+1 32	*0.66	*0.83	2.0	2.3	1.1
2391	Coral Bay, Atlantic Beach	34° 42'	76° 46'	+1 47	+2 14	*0.53	*0.83	1.6	1.8	0.9
2393	Spooner Creek	34° 44'	76° 48'	+2 20	+2 44	*0.41	*0.50	1.2	1.4	0.7
2395	Bogue Inlet	34° 39'	77° 06'	+0 13	+0 15	*0.73	*0.83	2.2	2.6	1.2
2397	New River Inlet	34° 32'	77° 20'	+0 16	+0 17	*0.98	*0.83	3.0	3.6	1.6
2399	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
2401	New Topsail Inlet	34° 22'	77° 38'	+0 20	+1 00	*0.98	*0.83	3.0	3.5	1.6
2403	Wrightsville Beach	34° 12.8'	77° 47.2'	+0 18	+0 23	*1.27	*1.25	3.80	4.56	2.05
2405	Wilmington Beach	34° 01.9'	77° 53.6'	+0 18	+0 10	*1.40	*1.25	4.21	5.05	2.26
2407	Cape Fear	33° 51'	77° 58'	+0 04	+0 07	*1.47	*1.33	4.5	5.1	2.3
				on Wilmington, p.136						
	<i>Cape Fear River</i>									
2409	Bald Head	33° 52.8'	78° 00.1'	-2 06	-2 43	*1.05	*1.13	4.49	4.89	2.41
2411	Fort Caswell	33° 54'	78° 01'	-2 02	-2 45	*1.03	*1.25	4.2	4.8	2.3
2413	Southport	33° 54.9'	78° 01.1'	-1 49	-2 22	*0.99	*1.00	4.24	4.62	2.28
2415	Zekes Island	33° 57.0'	77° 57.1'	-1 12	-1 43	*0.96	*1.07	4.09	4.46	2.20
2417	Federal Point	33° 57.7'	77° 56.4'	-1 17	-1 52	*0.94	*0.93	4.04	4.40	2.16
2419	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
2421	Reaves Point	34° 00.2'	77° 57.3'	-0 54	-1 18	*0.96	*1.07	4.09	4.46	2.21
2423	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
2425	Orton Point	34° 03.4'	77° 56.4'	-0 36	-0 58	*0.98	*1.00	4.17	4.55	2.24
2427	WILMINGTON	34° 13.6'	77° 57.2'	<i>Daily predictions</i>				4.28	4.70	2.29
2429	Castle Hayne, Northeast River	34° 21'	77° 56'	+2 44	+2 54	*0.42	*0.42	1.7	1.9	0.9
2431	Bannermans Branch, Northeast River	34° 35'	77° 46'	+5 58	+6 08	*0.32	*0.31	1.3	1.4	0.6
				on Myrtle Beach, p.140						
2433	Oak Island, Yaupon Beach	33° 54.1'	78° 04.9'	-0 05	-0 05	*0.94	*0.84	4.72	5.57	2.53
2435	Lockwoods Folly Inlet	33° 55'	78° 14'	+0 04	+0 15	*0.84	*1.00	4.2	4.8	2.3
2437	Shalotte Inlet (Bowen Point)	33° 55'	78° 22'	+0 43	+0 55	*0.91	*1.00	4.6	5.4	2.5
2439	Tubbs Inlet	33° 53'	78° 29'	+0 14	+0 15	*0.89	*1.00	4.5	5.1	2.4
2441	Sunset Beach Pier	33° 51.9'	78° 30.4'	+0 02	-0 03	*0.97	*1.11	4.82	5.78	2.62
2443	Sunset Beach Bridge	33° 52.9'	78° 30.6'	+0 34	+0 56	*0.94	*0.84	4.72	5.57	2.52

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, outer coast Time meridian, 75° W	North	West	h	m	h	m	ft	ft	ft
				on Myrtle Beach, p.140						
2445	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
2447	Dunn Sound, north end	33° 51.6'	78° 34.8'	+0 25	+0 40	*0.93	*0.84	4.67	5.51	2.50
2449	Dunn Sound, west end	33° 51.1'	78° 35.3'	+0 29	+0 36	*0.96	*1.00	4.85	5.58	2.63
2451	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
2453	Cherry Grove (inside)	33° 50.1'	78° 38.0'	+0 40	+0 44	*0.92	*0.74	4.67	5.51	2.47
2455	Hog Inlet Pier	33° 50.2'	78° 36.4'	-0 06	-0 07	*0.99	*0.90	5.0	5.7	2.7
2457	MYRTLE BEACH, SPRINGMAID PIER	33° 39.3'	78° 55.1'			<i>Daily predictions</i>		5.02	6.00	2.70
2459	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>									
2461	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
2463	Divine's Dock	33° 32.5'	79° 01.7'	+0 40	+1 18	*0.84	*0.84	4.22	5.06	2.27
2465	Smith's Dock	33° 32.7'	79° 02.7'	+1 01	+1 36	*0.86	*0.95	4.29	5.06	2.32
2467	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
2469	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
2471	Allston Creek	33° 31.9'	79° 03.2'	+0 52	+1 32	*0.84	*0.95	4.24	4.92	2.31
2473	Oaks Creek, upper end	33° 30.7'	79° 04.1'	+1 10	+1 43	*0.87	*1.05	4.35	5.22	2.37
2475	Litchfield Beach bridge	33° 28.3'	79° 06.1'	+1 10	+3 02	*0.58	*0.75	2.89	3.35	1.59
2477	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
2479	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
2481	Pawleys Island Pier (ocean)	33° 25.9'	79° 07.0'	+0 06	+0 06	*0.98	*0.95	4.92	5.81	2.65
2483	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
2485	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
	Intercoastal Waterway Little River Inlet to Winyah Bay									
				on Charleston, p.144						
2487	Little River (town)	33° 52.2'	78° 36.5'	+0 13	+0 39	*0.84	*0.79	4.41	5.07	2.35
2489	Nixon Crossroads	33° 51.3'	78° 38.9'	+0 27	+0 51	*0.78	*0.68	4.10	4.55	2.18
2491	Myrtle Beach Airport	33° 49.2'	78° 43.1'	+1 09	+1 47	*0.56	*0.84	2.88	3.34	1.60
2493	North Myrtle Beach	33° 46.0'	78° 48.9'	+2 15	+3 12	*0.36	*0.84	1.78	2.10	1.25
2495	Myrtle Beach, Combination Bridge	33° 42.8'	78° 55.3'	+2 56	+4 18	*0.35	*0.89	1.71	2.02	1.03
2497	Socastee Bridge	33° 41.2'	79° 00.3'	+3 27	+4 41	*0.41	*0.74	2.08	2.45	1.18
	Winyah Bay									
2499	Winyah Bay Entrance (South Jetty)	33° 11'	79° 09'	-0 21	-0 24	*0.87	*0.89	4.6	5.4	2.5
2501	Georgetown Lighthouse	33° 13.4'	79° 11.1'	+0 26	+0 25	*0.75	*1.05	3.89	4.51	2.15
2503	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
2505	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
2507	Frazier Point	33° 19'	79° 17'	+1 26	+2 07	*0.66	*0.68	3.5	4.1	1.8
	<i>Sampit River</i>									
2509	Georgetown	33° 21.7'	79° 16.8'	+1 25	+2 09	*0.71	*0.79	3.72	4.32	2.01
2511	Jacobs Wharf	33° 21.8'	79° 21.3'	+2 15	+2 22	*0.73	*0.74	3.84	4.45	2.06
2513	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>									
2515	Windsor Plantation, Black River	33° 24.9'	79° 15.0'	+2 00	+2 45	*0.66	*0.74	3.45	3.97	1.86
2517	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
2519	Winea Plantation, Black River	33° 32.1'	79° 23.3'	+4 23	+4 39	*0.47	*0.84	2.37	2.73	1.34
2521	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
2523	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
2525	Weymouth Plantation	33° 27.3'	79° 12.3'	+2 16	+3 02	*0.68	*0.89	3.56	4.13	1.95
2527	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
2529	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
2531	Arundel Plantation	33° 29.0'	79° 10.7'	+2 38	+3 39	*0.53	*0.79	2.75	3.19	1.53
2533	Holly Grove Plantation	33° 33.1'	79° 10.6'	+3 20	+4 12	*0.50	*0.68	2.59	3.00	1.43
2535	Lower Topsaw Landing	33° 36.5'	79° 09.1'	+4 48	+5 20	*0.20	*0.53	0.96	1.13	0.58
2537	Yauhannah Bridge	33° 39.6'	79° 09.3'	+4 33	+5 24	*0.33	*0.68	1.66	1.91	0.96
	<i>Waccamaw River</i>									
2539	Entrance	33° 22.0'	79° 15.3'	+1 19	+2 11	*0.69	*0.58	3.60	4.14	1.91
2541	Hagley Landing	33° 26.1'	79° 10.9'	+1 58	+2 53	*0.67	*0.79	3.47	3.99	1.88
2543	Thoroughfare Creek entrance	33° 30.4'	79° 08.8'	+2 32	+3 15	*0.64	*0.89	3.34	3.94	1.84
2545	Wachesaw Landing	33° 33.6'	79° 05.1'	+3 11	+4 00	*0.53	*0.84	2.74	3.18	1.53
2547	Bull Creek entrance	33° 35.8'	79° 05.9'	+3 36	+4 22	*0.48	*0.79	2.46	2.85	1.38
2549	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
2551	Bucksport	33° 38.8'	79° 05.7'	+4 23	+4 53	*0.43	*0.89	2.16	2.48	1.25
2553	Enterprise Landing	33° 40'	79° 04'	+5 01	+5 35	*0.38	*0.37	2.0	2.4	1.1
2555	Keysfield	33° 44.7'	79° 03.9'	+6 09	+6 20	*0.28	*0.89	1.37	1.59	0.85
2557	Pitch Landing	33° 48.0'	79° 03.3'	+7 25	+7 30	*0.20	*0.74	0.94	1.09	0.61
2559	Conway, RR. bridge	33° 50.1'	79° 02.5'	+7 19	+7 28	*0.25	*0.74	1.24	1.44	0.76
2561	Grahamville	33° 49.8'	78° 57.2'	+8 17	+8 32	*0.20	*0.58	0.97	1.13	0.60
2563	North Santee River Inlet	33° 08'	79° 15'	-0 09	+0 04	*0.85	*0.84	4.5	5.3	2.3
2565	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
2567	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
2569	North Santee Bridge	33° 12.6'	79° 23.1'	+1 09	+1 54	*0.72	*0.74	3.8	4.2	2.0
2571	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
2573	Brown Island, South Santee River	33° 09'	79° 20'	+0 27	+1 31	*0.78	*0.79	4.1	4.8	2.1
2575	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
2577	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
2579	Jamestown Bridge, Santee River	33° 18.3'	79° 40.7'	+4 15	+6 30	*0.22	*0.37	1.12	1.29	0.63
2581	Cape Romain	33° 01'	79° 21'	-0 22	-0 17	*0.89	*0.89	4.7	5.5	2.5
2583	Cape Romain, 46 miles east of	33° 06'	78° 26'	-1 05	-1 13	*0.78	*0.79	4.1	4.8	2.1
2585	Casino Creek, ICWW	33° 06.5'	79° 23.6'	+0 40	+0 53	*0.87	*0.79	4.55	5.37	2.42

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 Winyah Bay–cont. Time meridian, 75° W	North	West	h	m	h	m	ft	ft	ft
				on Charleston, p.144						
	<i>Bulls Bay</i>									
2587	Five Fathom Creek entrance	33° 00'	79° 30'	-0 06	-0 07	*0.93	*0.95	4.9	5.8	2.6
2589	McClellanville, Jeremy Creek	33° 04.7'	79° 27.6'	+0 31	+0 24	*0.93	*0.89	4.86	5.59	2.60
2591	Harbor River entrance	33° 02.0'	79° 32.1'	+0 03	+0 36	*0.93	*0.95	4.9	5.8	2.6
2593	Buck Hall, Awendaw Creek	33° 02.4'	79° 33.6'	+0 22	+0 37	*0.95	*1.00	4.97	5.77	2.67
2595	Jack Creek entrance	32° 56'	79° 35'	-0 14	-0 15	*0.95	*0.95	5.0	5.9	2.7
2597	Wharf Creek entrance	32° 55'	79° 37'	+0 12	-0 08	*0.97	*0.95	5.1	6.0	2.7
2599	Moore's Landing, ICWW, Sewee Bay	32° 56.2'	79° 39.3'	+0 11	+0 08	*0.96	*1.00	5.04	5.85	2.71
2601	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
2603	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
2605	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
2607	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
2609	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
2611	Hamlin Sound	32° 49.6'	79° 47.2'	+0 13	-0 13	*0.99	*1.00	5.19	5.97	2.78
2613	Isle of Palms Pier	32° 47.0'	79° 47.1'	-0 25	-0 28	*0.95	*0.89	4.94	5.68	2.65
2615	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
2617	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
2619	Sullivan's Island (outer coast)	32° 46'	79° 50'	-0 08	-0 12	*0.99	*1.00	5.2	6.1	2.8
2621	Ben Sawyer Bridge, ICWW	32° 46.4'	79° 50.5'	+0 06	-0 12	*0.97	*1.00	5.05	5.81	2.71
	Charleston Harbor									
2623	Fort Sumter	32° 45.2'	79° 52.6'	+0 02	-0 01	*0.97	*0.95	5.09	5.90	2.72
2625	The Cove, Fort Moultrie	32° 45.8'	79° 51.4'	-0 01	-0 10	*0.97	*0.95	5.08	5.84	2.72
2627	Fort Johnson	32° 45.1'	79° 53.9'	-0 05	-0 02	*0.97	*1.00	5.09	5.90	2.74
2629	Shem Creek	32° 47.6'	79° 52.9'	-0 02	-0 03	*0.99	*1.00	5.20	6.03	2.79
2631	CHARLESTON (Customhouse Wharf)	32° 46.9'	79° 55.5'			<i>Daily predictions</i>		5.22	6.15	2.80
2633	Shipyards Creek, 0.8 mile above entrance.	32° 50'	79° 57'	+0 34	+0 20	*1.01	*1.00	5.3	6.1	2.8
	<i>Cooper River</i>									
2635	Clouter Creek, south entrance	32° 51.6'	79° 56.3'	+0 25	+0 19	*1.02	*1.00	5.35	6.31	2.87
2637	Goose Creek entrance	32° 54.6'	79° 57.1'	+0 42	+0 33	*1.04	*1.00	5.41	6.22	2.90
2639	Yeamans Hall, Goose Creek	32° 55.5'	79° 59.2'	+2 06	+1 31	*1.00	*1.37	5.14	6.07	2.84
2641	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
2643	Clouter Creek, north entrance	32° 54.4'	79° 56.1'	+0 45	+0 33	*1.04	*1.00	5.43	6.41	2.91
2645	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
2647	General Dynamics Pier	33° 00.5'	79° 55.4'	+1 40	+1 24	*0.84	*1.11	4.35	5.03	2.39
2649	Dupont, Dean Hall	33° 03.5'	79° 56.2'	+2 21	+2 07	*0.68	*1.58	3.43	3.98	2.01
2651	Bonneau Ferry, East Branch	33° 04.3'	79° 53.0'	+3 14	+2 49	*0.63	*1.79	3.11	3.61	1.90
2653	Blessing Plantation, East Branch	33° 03.3'	79° 52.8'	+3 24	+3 20	*0.56	*1.32	2.79	3.29	1.64
2655	Richmond Plantation, East Branch	33° 04.6'	79° 51.3'	+3 43	+3 43	*0.54	*1.37	2.67	3.07	1.59
2657	Quincy Creek bridge, East Branch	33° 05.7'	79° 48.5'	+4 37	+4 12	*0.56	*1.42	2.75	3.25	1.65
2659	Huger Landing, East Branch	33° 07.8'	79° 48.7'	+4 46	---	---	---	---	---	---
2661	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
2663	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
2665	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>									
2667	Hobcaw Point	32° 49.3'	79° 54.0'	+0 19	+0 13	*1.03	*0.95	5.39	6.20	2.88
2669	Parker Island, Horlbeck Creek	32° 53.1'	79° 50.7'	+0 43	+0 27	*1.09	*1.11	5.70	6.73	3.06
2671	Nowell Creek	32° 54.0'	79° 54.0'	+0 47	+0 23	*1.13	*1.05	5.91	6.80	3.16
2673	Cainhoy	32° 55.6'	79° 49.8'	+0 49	+0 31	*1.15	*1.00	6.02	6.92	3.20
2675	Big Paradise Island	32° 54.9'	79° 44.8'	+1 24	+0 52	*1.24	*1.11	6.48	7.45	3.45
2677	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>									
2679	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
2681	Wappoo Creek, highway bridge	32° 46.0'	79° 58.4'	+0 22	+0 22	*0.99	*0.99	5.2	6.0	2.8
2683	South Ashley Bridge	32° 47.0'	79° 57.4'	+0 04	+0 07	*1.01	*1.05	5.34	6.19	2.87
2685	Duck Island	32° 49.8'	79° 58.0'	+0 23	+0 17	*1.06	*1.06	5.6	6.5	3.0
2687	Cosgrove Bridge	32° 50.1'	79° 59.2'	+0 25	+0 17	*1.07	*1.05	5.57	6.57	2.99
2689	I-526 bridge	32° 50.2'	80° 01.3'	+0 30	+0 29	*1.08	*1.11	5.68	6.53	3.05
2691	Drayton, Bee's Ferry	32° 50.9'	80° 03.1'	+0 41	+0 39	*1.09	*1.05	5.69	6.54	3.05
2693	Magnolia Gardens	32° 52.6'	80° 04.9'	+1 02	+0 54	*1.10	*1.05	5.79	6.72	3.10
2695	Greggs Landing, Matceba Gardens	32° 55.7'	80° 09.3'	+2 06	+1 42	*1.15	*1.16	6.06	7.03	3.25
2697	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.									
2699	Secessionville, Secessionville Creek	32° 42.4'	79° 56.2'	+0 22	---	---	---	---	---	---
2701	Folly Island (outer coast)	32° 39'	79° 56'	-0 08	-0 14	*0.98	*1.00	5.2	6.1	2.8
2703	Folly River Bridge, Floy Island	32° 39.7'	79° 56.7'	+0 21	-0 03	*1.01	*0.95	5.27	6.06	2.22
2705	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
2707	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
	<i>Stono River</i>									
2709	Snake Island	32° 38.4'	80° 00.9'	+0 01	-0 12	*1.01	*1.00	5.27	6.06	2.83
2711	Abbaopola Creek entrance	32° 40.6'	80° 00.4'	+0 17	+0 02	*1.01	*0.95	5.36	6.22	2.86
2713	Elliott Cut entrance	32° 45.8'	80° 00.1'	+0 48	+0 52	*0.99	*1.16	5.14	5.91	2.79
2715	Pennys Creek, west entrance	32° 46.1'	80° 04.2'	+1 23	+1 20	*1.03	*1.32	5.32	6.12	2.91
2717	Sandblasters, Pennys Creek	32° 46.2'	80° 03.8'	+1 30	+1 18	*1.02	*1.02	5.26	6.21	2.91
2719	Limehouse Bridge	32° 47.2'	80° 06.3'	+1 43	+1 34	*1.08	*1.08	5.58	6.58	3.04
2721	Church Flats	32° 44.8'	80° 09.9'	+1 51	+1 14	*1.22	*1.16	6.37	7.33	3.41
2723	Kiawah River Bridge	32° 36.2'	80° 07.9'	+0 14	+0 06	*1.07	*0.89	5.60	6.44	2.97

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, outer coast—cont. Time meridian, 75° W	North	West	h	m	h	m	ft	ft	ft
				on Charleston, p.144						
	<i>North Edisto River</i>									
2725	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
2727	Rockville, Bohicket Creek	32° 35.9'	80° 11.7'	+0 19	+0 07	*1.09	*1.11	5.76	6.68	3.09
2729	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
2731	Oak Branch, Bohicket Creek	32° 41.0'	80° 05.8'	+1 39	+0 57	*1.26	*1.16	6.66	7.73	3.55
2733	Point of Pines	32° 35.1'	80° 13.7'	+0 15	+0 11	*1.08	*1.05	5.66	6.51	3.04
2735	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
2737	Steamboat Landing, Steamboat Creek	32° 36.2'	80° 17.2'	+0 45	+0 25	*1.15	*1.11	6.02	6.92	3.22
2739	Windsor Plantation, Russel Creek	32° 35.9'	80° 20.7'	+1 16	+0 35	*1.21	*1.11	6.40	7.42	3.41
2741	Dawho Bridge, Dawho River	32° 38.2'	80° 20.5'	+0 56	+0 47	*1.18	*1.11	6.17	7.10	3.29
2743	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
2745	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
2747	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
	<i>Wadmalaw River</i>									
2749	Bluff Point	32° 38.8'	80° 15.4'	+0 58	+0 31	*1.17	*1.11	6.13	7.05	3.28
2751	Yonges Island	32° 41.7'	80° 13.4'	+1 22	+0 45	*1.24	*1.16	6.50	7.48	3.47
2753	Johns Island, Church Creek	32° 42.4'	80° 09.4'	+1 43	+1 00	*1.30	*1.16	6.85	7.88	3.64
2755	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						
2757	Edisto Beach, Edisto Island	32° 30.1'	80° 17.8'	-0 21	-0 29	*0.84	*0.95	5.75	6.61	3.08
	<i>South Edisto River</i>									
2759	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
2761	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
2763	Scott Creek, 0.5 mi. above ent., Big Bay Creek	32° 30.1'	80° 19.1'	+0 29	---	---	---	---	---	---
2765	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
2767	Fenwick Island	32° 33.6'	80° 25.1'	+0 15	+0 25	*0.90	*1.09	6.19	7.12	3.32
2769	Pine Landing	32° 36.2'	80° 23.3'	+0 29	+0 45	*0.92	*0.95	6.29	7.30	3.36
2771	Dawho River	32° 39.4'	80° 23.5'	+1 07	+1 31	*0.89	*0.95	6.15	7.07	3.29
2773	Willtown Bluff, Edisto River	32° 40.9'	80° 25.0'	+1 34	+2 03	*0.83	*1.00	5.69	6.54	3.06
2775	Hope Creek, Edisto River	32° 42.0'	80° 25.6'	+1 46	+2 13	*0.82	*1.05	5.62	6.46	3.04
2777	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
2779	Jacksonboro Camp	32° 45.2'	80° 27.0'	+2 46	+3 34	*0.59	*0.86	4.04	4.65	2.21
2781	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
2783	Hart Bluff, Edisto River <24>	32° 55.6'	80° 23.9'	---	---	---	---	---	---	---
	St. Helena Sound									
2785	Otter Island	32° 28.6'	80° 25.2'	+0 04	+0 07	*0.87	*0.95	6.01	6.91	3.21
2787	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
2789	Harbor River Bridge	32° 24.2'	80° 27.2'	+0 03	-0 06	*0.88	*0.95	6.09	7.00	3.25
	<i>Ashepoo River</i>									
2791	Seabrook	32° 31.4'	80° 24.4'	+0 11	+0 18	*0.90	*0.91	6.2	7.3	3.3
2793	Ashepoo-Coosaw Cutoff, ICWW	32° 31.5'	80° 27.1'	+0 15	+0 23	*0.90	*0.91	6.20	7.19	3.30
2795	Musselboro Island, Mosquito Creek	32° 34.7'	80° 26.9'	+1 21	+0 57	*0.90	*0.91	6.22	7.15	3.31
2797	Hutchinson Island	32° 33.1'	80° 28.9'	+0 31	+0 44	*0.87	*0.91	6.01	6.97	3.20
2799	Bluff Islands	32° 34.7'	80° 29.6'	+0 46	+1 04	*0.84	*0.91	5.79	6.72	3.10
2801	Brickyard Ferry, swing bridge	32° 36.8'	80° 28.9'	+1 27	+1 34	*0.71	*0.86	4.82	5.59	2.60
2803	Airy Hall Plantation	32° 37.9'	80° 28.3'	+1 57	+1 59	*0.60	*1.00	4.16	4.71	2.25
2805	Ashepoo	32° 44.6'	80° 33.4'	+4 18	+4 00	*0.34	*1.05	2.18	2.53	1.32
	<i>Morgan River</i>									
2807	Village Creek Entrance	32° 26.7'	80° 30.2'	+0 17	+0 07	*0.93	*1.00	6.35	7.37	3.40
2809	Village Creek Cemetery	32° 25.0'	80° 31.2'	+0 36	+0 15	*0.94	*0.95	6.45	7.48	3.43
2811	Edding Point, Edding Creek	32° 26.8'	80° 32.0'	+0 31	+0 14	*0.93	*0.95	6.41	7.37	3.42
2813	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
2815	Jenkins Creek, Polawana Island	32° 25.2'	80° 34.6'	+0 55	+0 27	*1.01	*1.05	6.91	8.02	3.69
2817	Lucy Point Creek entrance	32° 27.1'	80° 36.6'	+0 53	+0 33	*0.90	*0.88	6.32	7.33	3.21
	<i>Combahee River</i>									
2819	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
2821	Wiggins, Chehaw River	32° 36.1'	80° 32.5'	+1 45	+1 20	*0.88	*1.18	6.03	6.93	3.28
2823	Fields Point	32° 34.0'	80° 33.7'	+0 42	+0 52	*0.91	*0.91	6.2	7.3	3.3
2825	Railroad Bridge	32° 35.4'	80° 37.8'	+1 37	---	---	---	---	---	---
2827	U.S. 17 Bridge	32° 39.1'	80° 41.0'	+3 00	+2 29	*0.71	*1.14	4.83	5.55	2.66
2829	Bluff Plantation	32° 41.0'	80° 44.3'	+4 17	+3 51	*0.50	*1.59	3.12	3.59	1.95
2831	Cuckolds Creek	32° 42.8'	80° 41.7'	+4 45	+4 12	*0.51	*1.73	3.26	3.81	2.01
	<i>Coosaw River</i>									
2833	Summerhouse Point, Bull River	32° 31.6'	80° 34.4'	+0 55	+0 37	*0.96	*0.95	6.58	7.63	3.50
2835	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
2837	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
2839	Brickyard Point, Brickyard Creek	32° 29.6'	80° 41.1'	+1 27	+1 19	*1.08	*0.95	7.45	8.64	3.94
2841	Whale Branch entrance	32° 31.5'	80° 40.5'	+1 27	+1 20	*1.06	*0.95	7.32	8.49	3.87
2843	Lobeco, Whale Branch	32° 34.4'	80° 44.7'	+1 40	+1 28	*1.11	*0.95	7.75	8.91	4.08
2845	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
2847	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									
2849	Capers Island, Trenchards Inlet	32° 16.4'	80° 35.1'	-0 01	-0 18	*0.93	*0.95	6.37	7.39	3.39
2851	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
2853	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
2855	The Folly, Hilton Head Island	32° 11.4'	80° 42.1'	+0 03	---	---	---	---	---	---
2857	Station Creek, west end	32° 16.8'	80° 38.3'	+0 16	+0 13	*0.96	*0.91	6.62	7.68	3.51
2859	Station Creek, County Landing	32° 19.5'	80° 36.1'	+0 27	-0 16	*0.99	*1.00	6.84	7.87	3.64

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 Port Royal Sound—cont. Time meridian, 75° W	North	West	h	m	h	m	ft	ft	ft
				on Savannah River Ent., p.148						
	<i>Beaufort River</i>									
2861	Fort Fremont	32° 18.4'	80° 38.7'	+0 19	+0 17	*0.95	*0.64	6.63	7.69	3.45
2863	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
2865	Distant Island, Cowen Creek	32° 22.7'	80° 38.0'	+0 43	+0 27	*1.06	*1.05	7.29	8.46	3.87
2867	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
2869	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
2871	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
2873	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
2875	Beaufort	32° 25.8'	80° 40.5'	+1 09	+0 51	*1.07	*0.95	7.39	8.17	3.90
2877	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
2879	Albergottie Creek, Rt. 21 bridge	32° 27.0'	80° 43.9'	+1 48	+2 02	*0.98	*0.45	6.83	7.92	3.52
2881	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
2883	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
2885	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
2887	Colleton River Entrance	32° 19.3'	80° 47.5'	+0 49	+0 37	*1.05	*1.05	7.2	8.4	3.8
2889	Callawassie Creek, Colleton River	32° 19.0'	80° 50.5'	+1 15	+0 53	*1.13	*1.14	7.8	9.1	4.1
2891	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
2893	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
2895	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
2897	Chechessee Bluff, Chechessee River	32° 22.4'	80° 50.2'	+1 06	+0 48	*1.10	*1.00	7.62	8.84	4.03
	<i>Broad River</i>									
2899	Hwy. 170 bridge	32° 23.2'	80° 46.6'	+0 51	+0 45	*1.06	*0.91	7.35	8.45	3.88
2901	Broughton Point, Hazzard Creek	32° 24.6'	80° 53.1'	+1 34	+1 30	*1.10	*0.82	7.61	8.83	3.99
2903	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
2905	Salvesburg Landing, West Branch Boyds Creek	32° 28.5'	80° 51.0'	+1 29	-- --	-- --	-- --	-- --	-- --	-- --
2907	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
2909	Corning Landing, Whale Branch	32° 30.0'	80° 47.1'	+1 37	+1 25	*1.15	*0.77	8.00	9.28	4.17
2911	RR. Bridge, Hall Island	32° 31.3'	80° 50.3'	+1 39	+1 24	*1.17	*1.05	8.08	9.37	4.27
2913	Pocotaligo River, 4 mi. above entrance	32° 35.7'	80° 49.9'	+2 21	+1 48	-- --	-- --	-- --	-- --	-- --
2915	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
2917	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									
2919	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
2921	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
2923	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
2925	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
2927	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
2929	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
2931	Savage I., Savage Creek, Bull Creek	32° 11.1'	80° 51.6'	+0 46	+0 19	*1.10	*1.00	7.56	8.77	4.00
	<i>May River</i>									
2933	Moreland Cemetery	32° 10.5'	80° 53.5'	+0 49	+0 23	*1.11	*0.77	7.73	8.97	4.04
2935	Bull Island North	32° 12.0'	80° 48.9'	+0 40	+0 25	*1.09	*1.05	7.52	8.72	3.99
2937	Bluffton	32° 13.8'	80° 51.7'	+1 00	+0 37	*1.16	*1.05	8.01	9.29	4.23
2939	Rose Dew Creek	32° 13.2'	80° 55.2'	+1 19	-- --	-- --	-- --	-- --	-- --	-- --
	<i>New River</i>									
2941	Bloody Point, Daufuskie Island	32° 04.9'	80° 52.7'	+0 01	+0 19	*0.98	*0.91	6.77	7.79	3.59
2943	Hargray Pier, Daufuskie Island	32° 05.9'	80° 53.9'	+0 19	+0 27	*1.01	*1.05	6.96	8.07	3.71
2945	Daufuskie Landing, Daufuskie Island	32° 06.2'	80° 53.7'	+0 30	+0 33	*1.01	*0.95	7.02	8.07	3.72
2947	Doughboy Island	32° 08.3'	80° 55.9'	+1 04	+1 06	*1.01	*1.05	6.96	8.07	3.71
2949	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
2951	Cook Landing Cemetery	32° 11.7'	81° 00.0'	+3 09	+3 00	*0.69	*1.41	4.58	5.31	2.60
2953	Rt. 170 bridge	32° 14.2'	81° 00.7'	+4 12	+3 53	*0.51	*0.51	3.33	3.83	2.01
2955	Fields Cut, Wright River	32° 05.2'	80° 56.0'	+0 16	+0 29	*1.02	*1.05	6.98	8.10	3.72
2957	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
	GEORGIA Savannah River									
2959	Tybee Light	32° 02'	80° 51'	-0 10	-0 12	*0.99	*0.99	6.8	8.0	3.6
2961	SAVANNAH RIVER ENTRANCE, FORT PULASKI	32° 02.0'	80° 54.1'	<i>Daily predictions</i>				6.92	8.03	3.67
				on Savannah, p.152						
2963	Fort Jackson	32° 05'	81° 02'	-0 04	-0 01	*0.95	*0.94	8.1	8.7	4.0
2965	SAVANNAH	32° 05'	81° 05'	<i>Daily predictions</i>				7.9	8.8	4.2
2967	Port Wentworth	32° 08.6'	81° 08.5'	+0 11	-0 02	*1.03	*0.84	8.14	9.12	4.28
2969	Little Back River, Hwy. 17, Back River, S.C.	32° 09.9'	81° 07.8'	+0 55	+0 58	*0.97	*1.00	7.63	8.55	4.06
2971	S.C.L. RR. bridge	32° 14'	81° 09'	+1 18	+2 25	*0.79	*0.80	6.2	7.2	3.3
2973	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									
				on Savannah River Ent., p.148						
2975	Tybee Creek entrance	31° 59'	80° 51'	-0 09	+0 05	*0.99	*1.00	6.8	8.0	3.6
2977	Beach Hammock	31° 57'	80° 56'	-0 01	-0 07	*1.00	*1.00	6.9	8.1	3.7
2979	Romerly Marsh Creek	31° 56'	81° 00'	+0 08	-0 03	*1.03	*1.03	7.1	8.3	3.7
	<i>Wilmington River</i>									
2981	Savannah Sheraton Resort Hotel	32° 00'	81° 00'	+0 14	+0 06	*1.13	*1.14	7.8	9.1	4.2
2983	Thunderbolt	32° 02'	81° 03'	+0 32	+0 12	*1.15	*1.14	7.9	9.2	4.2
2985	North entrance	32° 04'	81° 00'	+0 40	+0 44	*1.10	*1.09	7.6	8.9	4.0
2987	Isle of Hope, Skidaway River	31° 59'	81° 03'	+0 50	+0 28	*1.13	*1.13	7.8	9.1	4.1

Endnotes can be found at the end of table 2.

TABLE 2 – TIDAL DIFFERENCES AND OTHER CONSTANTS

No.	PLACE	POSITION		DIFFERENCES				RANGES		Mean Tide Level
		Latitude	Longitude	Time		Height		Mean	Spring	
				High Water	Low Water	High Water	Low Water			
	GEORGIA Ossabaw Sound Time meridian, 75° W	North	West	h	m	h	m	ft	ft	ft
				on Savannah River Ent., p.148						
2989	Egg Islands	31° 50'	81° 05'	+0 04	+0 10	*1.04	*1.04	7.2	8.4	3.8
2991	Vernon View, Burnside River	31° 56'	81° 06'	+0 40	+0 31	*1.09	*1.09	7.5	8.8	4.0
2993	Coffee Bluff, Forest River	31° 56'	81° 09'	+1 05	+0 42	*1.09	*1.09	7.5	8.8	3.9
2995	Fort McAllister, Ogeechee River	31° 53'	81° 13'	+0 48	+1 16	*1.00	*1.00	6.9	8.1	3.6
2997	Highway bridge, Ogeechee River	31° 59'	81° 17'	+3 19	+4 25	*0.15	*0.14	1.0	1.2	0.5
2999	Florida Passage, Ogeechee River	31° 51'	81° 09'	+0 34	+0 46	*1.05	*0.91	7.3	8.5	3.8
3001	Florida Passage, Bear River	31° 49'	81° 10'	+0 46	+0 49	*1.09	*0.95	7.6	8.8	4.0
3003	Cane Patch Creek entrance	31° 49'	81° 09'	+0 55	+0 43	*1.05	*1.05	7.2	8.4	3.8
3005	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									
3007	Walburg Creek entrance	31° 42'	81° 09'	+0 16	+0 21	*1.03	*1.00	7.1	8.3	3.8
3009	Kilkenny Club, Kilkenny Creek	31° 47'	81° 12'	+0 48	+0 37	*1.09	*0.91	7.5	8.8	4.0
3011	Bear River, (Range 'A' Light)	31° 48'	81° 11'	+0 43	+0 39	*1.09	*0.95	7.6	8.8	4.0
3013	Bear River Entrance	31° 43'	81° 08'	+0 10	+0 17	*1.03	*1.09	7.0	8.2	3.8
3015	Sunbury, Medway River	31° 46'	81° 17'	+0 53	+0 52	*1.05	*0.73	7.3	8.6	3.8
3017	Belfast, Belfast River	31° 49'	81° 18'	+1 23	+1 10	*1.13	*1.14	7.8	9.1	4.2
3019	North Newport River (Daymark 119)	31° 41'	81° 12'	+0 35	+0 31	*1.05	*1.00	7.2	8.4	3.8
3021	North Newport River	31° 40'	81° 16'	+0 56	+0 36	*1.10	*1.09	7.6	8.9	4.0
3023	South Newport Cut, N. Newport River	31° 40'	81° 16'	+1 01	+0 54	*1.08	*1.04	7.5	8.7	4.0
3025	Halfmoon, Timmons River	31° 41.7'	81° 16.3'	+1 21	+1 09	*1.06	*1.05	7.35	8.45	3.90
3027	Eagle Neck, South Newport River	31° 39'	81° 18'	+1 16	+1 06	*1.09	*1.00	7.5	8.8	4.0
3029	Thomas Landing, S. Newport River	31° 39'	81° 15'	+0 57	+0 46	*1.06	*0.95	7.4	8.6	3.9
3031	South Newport River (Daymark 135)	31° 34'	81° 11'	+0 27	+0 20	*1.03	*1.05	7.1	8.3	3.8
3033	Dallas Bluff, Julienton River	31° 35'	81° 19'	+0 48	+1 04	*1.10	*1.09	7.6	8.9	4.0
3035	Harris Neck, Barbour Island River	31° 37'	81° 16'	+0 54	+0 32	*1.08	*1.00	7.5	8.8	4.0
3037	Barbour Island, Barbour Island River	31° 35'	81° 14'	+0 36	+0 24	*1.06	*1.00	7.3	8.5	3.9
3039	Blackbeard Island	31° 32'	81° 12'	+0 18	+0 22	*1.00	*1.00	6.9	8.1	3.6
3041	Dog Hammock, Sapelo River	31° 32'	81° 16'	+0 33	+0 22	*1.04	*0.91	7.2	8.4	3.8
3043	Bellville Point, Sapelo River	31° 32'	81° 22'	+1 12	+1 02	*1.08	*0.86	7.5	8.8	3.9
3045	Pine Harbor, Sapelo River	31° 33'	81° 22'	+1 03	+1 04	*1.05	*1.05	7.2	8.4	3.8
3047	Eagle Creek, Mud River	31° 31'	81° 17'	+0 21	+0 19	*1.05	*1.05	7.2	8.4	3.8
3049	Creighton Narrows Entrance, Crescent River	31° 29'	81° 20'	+0 49	+0 37	*1.08	*1.09	7.4	8.6	4.0
3051	Mud River, at Old Teakettle Creek	31° 29'	81° 19'	+0 45	+0 46	*1.08	*1.09	7.4	8.7	3.9
	Doboy and Altamaha Sounds									
3053	Old Tea Kettle Creek (Daymark 173)	31° 26'	81° 18'	+0 39	+0 39	*0.96	*0.82	6.7	7.8	3.5
3055	Blackbeard Creek, Blackbeard Island	31° 29'	81° 13'	+0 19	+0 47	*0.94	*0.95	6.5	7.6	3.5
3057	Old Tower, Sapelo Island	31° 23.4'	81° 17.3'	+0 15	+0 14	*0.99	*0.95	6.82	7.84	3.62
3059	Hudson Creek entrance	31° 27'	81° 21'	+0 37	+0 31	*1.05	*1.05	7.2	8.4	3.8
3061	Threemile Cut entrance, Darien River	31° 21'	81° 23'	+0 44	+0 55	*1.03	*1.05	7.1	8.3	3.7
3063	Darien, Darien River	31° 22'	81° 26'	+1 08	+1 15	*1.06	*1.05	7.3	8.5	3.9
3065	Rockdedundy River (Daymark 185)	31° 22'	81° 20'	+0 29	+0 41	*1.00	*1.01	6.9	8.0	3.7
3067	Wolf Island, south end	31° 20'	81° 19'	+0 25	+0 45	*0.97	*1.09	6.7	7.8	3.6
3069	Champney Island, South Altamaha River	31° 20'	81° 28'	+1 10	+2 33	*0.76	*0.77	5.2	6.1	2.8
3071	Hampton River entrance	31° 13'	81° 19'	+0 16	+0 04	*0.96	*0.95	6.6	7.8	3.5
3073	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									
3075	St. Simons Sound Bar	31° 06'	81° 19'	-0 01	-0 02	*0.95	*0.95	6.5	7.6	3.4
3077	St. Simons Light	31° 07.9'	81° 23.8'	+0 14	+0 16	*0.95	*0.91	6.60	7.72	3.50
3079	Frederick River Bridge	31° 10'	81° 25'	+0 43	+0 45	*1.00	*1.09	6.9	8.0	3.7
3081	Frederica River	31° 13'	81° 24'	+0 48	+0 56	*1.05	*1.05	7.2	8.4	3.8
3083	Mackay River (Daymark 239)	31° 13'	81° 26'	+0 58	+0 56	*1.03	*1.09	7.1	8.3	3.8
3085	Mackay River (ICVW), Buttermilk Sound	31° 17.1'	81° 23.1'	+0 58	+1 23	*1.00	*1.09	6.87	7.90	3.68
3087	Brunswick, East River	31° 09'	81° 30'	+0 59	+0 51	*1.05	*1.09	7.2	8.4	3.8
	Turtle River									
3089	Crispen Island	31° 13'	81° 33'	+1 33	+0 55	*1.15	*1.05	7.9	9.3	4.2
3091	Allied Chemical Corp. docks	31° 11'	81° 31'	+1 03	+0 42	*1.10	*1.09	7.6	8.9	4.0
3093	Dillard Creek	31° 14'	81° 34'	+1 32	+1 02	*1.16	*1.18	8.0	9.4	4.3
3095	Buffalo River entrance	31° 13'	81° 35'	+1 37	+0 58	*1.16	*1.18	8.0	9.4	4.3
3097	Highway bridge, South Brunswick River	31° 09'	81° 34'	+1 07	+0 49	*1.10	*1.09	7.6	8.9	4.0
	St. Andrew Sound									
				on Fernandina Beach, p.156						
3099	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
3101	Jointer Island, Jointer Creek	31° 06'	81° 30'	+0 11	+0 31	*1.18	*1.18	7.2	8.4	3.8
	Little Satilla River									
3103	2.5 miles above mouth	31° 04'	81° 30'	-0 04	+0 31	*1.12	*1.12	6.8	7.9	3.6
3105	8 miles above mouth	31° 06'	81° 34'	+0 24	+1 02	*1.20	*1.20	7.3	8.5	3.8
3107	Below Spring Bluff	31° 10'	81° 37'	+1 09	+1 31	*1.23	*1.23	7.5	8.7	3.9
3109	Dover Bluff, Dover Creek	31° 01'	81° 32'	+0 06	+0 31	*1.15	*1.15	7.0	8.1	3.7
	Satilla River									
3111	Todd Creek entrance	30° 58'	81° 31'	-0 08	+0 41	*1.10	*1.10	6.7	7.8	3.5
3113	Bailey Cut, 0.8 mile west of	30° 59'	81° 36'	+0 06	+1 02	*1.13	*1.13	6.9	8.0	3.6
3115	Ceylon	30° 58'	81° 39'	+0 34	+1 35	*1.09	*1.09	6.6	7.7	3.5
3117	Burnt Fort	30° 57'	81° 54'	+3 55	+5 05	*0.53	*0.53	3.2	3.7	1.7
3119	Cumberland Wharf, Cumberland River	30° 55.8'	81° 26.8'	+0 00	+0 26	*1.12	*1.12	6.8	7.9	3.6
3121	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

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 and FLORIDA Time meridian, 75° W	North	West	h	m	h	m	ft	ft	ft
	Cumberland Sound			on Fernandina Beach, p.156						
3123	St. Marys Entrance, North Jetty	30° 43'	81° 26'	-0 36	-0 03	*0.96	*0.96	5.8	6.7	3.1
3125	Kings Bay, Navy Base	30° 48.1'	81° 30.9'	+0 12	+0 10	*1.09	*1.05	6.43	7.39	3.42
3127	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
3129	Seacamp Dock, Cumberland Island	30° 45.8'	81° 28.3'	+0 12	+0 16	*1.04	*1.05	6.23	7.16	3.31
3131	Crooked River, Cumberland Dividings	30° 50.6'	81° 29.2'	+0 44	+0 56	*1.12	*1.12	6.8	7.9	3.6
3133	Harrietts Bluff, Crooked River	30° 52.2'	81° 35.1'	+1 29	+1 56	*1.05	*1.05	6.4	7.4	3.4
	<i>St. Marys River</i>									
3135	St. Marys	30° 43.2'	81° 32.9'	+0 38	+0 45	*0.98	*1.05	5.86	6.74	3.13
3137	Crandall	30° 43.3'	81° 37.3'	+1 06	+1 25	*0.81	*1.00	4.84	5.57	2.61
3139	U.S. Highway 17	30° 44.5'	81° 41.3'	+2 30	---	---	---	---	---	---
3141	Little St. Marys River	30° 43.9'	81° 43.6'	+2 49	+2 36	*0.71	*0.79	4.27	4.91	2.29
3143	Kings Ferry	30° 47.2'	81° 50.4'	+4 05	+4 09	*0.49	*1.16	2.83	3.25	1.63
3145	Chester, Bells River	30° 41.0'	81° 32.0'	+0 27	+0 19	*1.04	*1.11	6.27	7.21	3.34
3147	Roses Bluff, Bells River	30° 42.2'	81° 34.6'	+0 35	+0 35	*1.03	*0.95	6.18	7.11	3.28
3149	Lofton, Lanceford Creek	30° 38.6'	81° 31.4'	+0 18	-0 01	*1.05	*1.05	6.33	7.28	3.36
3151	FERNANDINA BEACH, Amelia River	30° 40.5'	81° 27.9'			<i>Daily Predictions</i>		6.02	7.07	3.20
3153	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									
3155	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
	<i>Nassau River</i>									
3157	entrance	30° 31.1'	81° 27.2'	-0 18	+0 41	*0.86	*1.00	5.16	5.93	2.77
3159	Nassauville	30° 34.1'	81° 30.9'	+0 24	+1 09	*0.80	*1.00	4.75	5.46	2.56
3161	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
3163	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
3165	Cuno, Lofton Creek	30° 34.6'	81° 34.3'	+2 14	+2 48	*0.60	*1.05	3.55	4.12	1.98
3167	Mink Creek entrance	30° 32.2'	81° 34.9'	+1 13	+2 05	*0.72	*1.05	4.26	4.90	2.33
3169	Halfmoon Island, highway bridge	30° 34.6'	81° 36.5'	+2 00	+2 39	*0.70	*1.05	4.16	4.78	2.28
3171	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
3173	Sawpit Creek entrance, bridge	30° 30.8'	81° 27.4'	-0 14	+0 21	*0.84	*1.00	5.05	5.81	2.71
3175	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
3177	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
3179	Little Talbot Island, ocean	30° 25.8'	81° 24.3'	-0 36	-0 13	*0.91	*1.00	5.45	6.27	2.91
3181	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									
				on Mayport, p.160						
3183	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
3185	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
3187	MAYPORT (BAR PILOT DOCK)	30° 23.8'	81° 25.8'			<i>Daily predictions</i>		4.57	5.32	2.44
3189	Pablo Creek entrance	30° 22.6'	81° 26.9'	+0 29	+0 33	*0.85	*0.73	3.89	4.24	2.05
3191	Pablo Creek, ICWW bridge	30° 19.4'	81° 26.3'	+1 14	+1 20	*0.84	*1.00	3.82	4.16	2.06
3193	Sisters Creek	30° 25.0'	81° 27.2'	+0 32	+0 50	*0.95	*0.93	4.34	4.70	2.31
3195	Clapboard Creek, Pelotes Island	30° 24.4'	81° 30.6'	+0 32	+0 56	*0.79	*0.80	3.64	3.94	1.94
3197	Fulton	30° 23.4'	81° 30.4'	+0 24	+0 40	*0.80	*0.73	3.66	3.97	1.94
3199	Blount Island Bridge	30° 24.8'	81° 32.7'	+0 42	+1 05	*0.77	*0.73	3.51	3.80	1.87
3201	Dame Point	30° 23.2'	81° 33.5'	+0 42	+1 12	*0.70	*0.67	3.19	3.44	1.70
3203	Mill Cove	30° 22.2'	81° 33.5'	+0 51	---	---	---	---	---	---
3205	Cedar Heights, Broward River	30° 26.2'	81° 38.5'	+1 08	+1 53	*0.65	*0.53	2.99	3.47	1.58
3207	Jacksonville, Navy Fuel Depot	30° 24.0'	81° 37.6'	+1 14	+1 48	*0.56	*0.53	2.60	2.81	1.37
	<i>Trout River</i>									
3209	Moncrief Creek entrance	30° 23.5'	81° 39.7'	+1 11	+1 53	*0.55	*0.53	2.51	2.91	1.34
3211	Lake Forest, Ribault River	30° 23.9'	81° 41.9'	+1 13	+2 10	*0.58	*0.60	2.64	2.82	1.41
3213	Sherwood Forest	30° 25.2'	81° 43.7'	+1 42	+2 13	*0.58	*0.67	2.65	2.88	1.43
3215	Phoenix Park	30° 23.0'	81° 38.2'	+1 02	+1 47	*0.56	*0.60	2.54	2.75	1.36
3217	Jacksonville, Long Branch	30° 21.6'	81° 37.2'	+1 15	+1 54	*0.55	*0.73	2.49	2.89	1.35
3219	Little Pottsburg Creek	30° 18.6'	81° 36.6'	+1 31	+2 09	*0.44	*0.53	2.02	2.34	1.09
3221	Jacksonville, Main Street Bridge	30° 19.2'	81° 39.5'	+1 39	+2 09	*0.40	*0.73	1.79	1.95	1.00
3223	Ortega River entrance	30° 16.7'	81° 42.3'	+2 09	+2 47	*0.25	*0.47	1.11	1.26	0.63
3225	Piney Point	30° 13.7'	81° 39.8'	+2 39	+3 36	*0.20	*0.40	0.87	1.01	0.49
3227	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
3229	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
3231	Peoria Point, Doctors Lake	30° 07.2'	81° 45.5'	+3 36	+4 56	*0.18	*0.33	0.80	0.93	0.45
3233	Julington Creek	30° 08.1'	81° 37.8'	+3 58	+5 13	*0.16	*0.47	0.71	0.83	0.43
3235	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
3237	Green Cove Springs	29° 59.4'	81° 39.8'	+4 57	+5 55	*0.17	*0.27	0.78	0.90	0.43
3239	Tocoi	29° 51.5'	81° 33.2'	+6 02	+7 03	*0.21	*0.27	0.95	1.10	0.51
3241	Palmetto Bluff	29° 45.8'	81° 33.7'	+6 35	+7 36	*0.23	*0.47	1.04	1.18	0.59
3243	Palatka	29° 38.6'	81° 37.9'	+7 11	+8 38	*0.25	*0.53	1.09	1.22	0.63
3245	Sutherlands Still, Dunns Creek	29° 34.3'	81° 36.4'	+7 35	+9 05	*0.18	*0.20	0.84	0.97	0.45
3247	Buffalo Bluff	29° 35.7'	81° 40.9'	+7 27	+8 58	*0.21	*0.40	0.93	1.03	0.52
3249	Welaka	29° 28.6'	81° 40.5'	+7 16	+8 07	*0.10	*0.27	0.43	0.50	0.25
3251	Georgetown <24>	29° 23.1'	81° 38.2'	---	---	---	---	---	---	---
	FLORIDA, East Coast									
				on Fernandina Beach, p.156						
3253	Atlantic Beach	30° 20.1'	81° 23.7'	-0 41	-0 23	*0.86	*0.86	5.2	6.0	2.8
3255	Jacksonville Beach	30° 17.0'	81° 23.2'	-0 50	-0 27	*0.84	*0.84	5.07	5.83	2.70
3257	Oak Landing, ICWW	30° 15.2'	81° 25.8'	+2 15	+2 03	*0.68	*0.80	4.07	4.72	2.20
3259	Palm Valley, ICWW	30° 08.0'	81° 23.2'	+2 00	+1 49	*0.79	*0.75	4.79	5.56	2.55

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					
	FLORIDA, East Coast–cont. Time meridian, 75° W	North	West	h	m	h	m	ft	ft	ft		
				on Fernandina Beach, p.156								
3261	Vilano Beach, Tolomato River	29° 55.0'	81° 18.0'	-0	20	-0	05	*0.74	*0.90	4.48	5.20	2.42
3263	St. Augustine, city dock	29° 53.5'	81° 18.6'	-0	20	+0	01	*0.75	*0.89	4.48	5.15	2.41
3265	St. Augustine Beach	29° 51.4'	81° 15.8'	-0	51	-0	32	*0.77	*0.84	4.61	5.48	2.47
3267	Fort Matanzas, Matanzas River, ICWW	29° 42.9'	81° 14.3'	+0	03	+0	49	*0.65	*0.95	3.86	4.44	2.11
3269	Smith Creek, Flagler Beach	29° 28.7'	81° 08.2'	+4	33	+5	00	*0.15	*0.30	0.86	1.00	0.49
3271	Ormond Beach, Halifax River	29° 17.1'	81° 03.2'	+3	17	+4	31	*0.11	*0.45	0.60	0.70	0.39
3273	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
				on Miami Harbor Entrance, p.168								
3275	Ponce de Leon Inlet	29° 03.8'	80° 54.9'	-0	11	+0	19	*1.17	*0.92	2.76	3.37	1.48
3277	Ponce Inlet, Halifax River	29° 04.9'	80° 56.2'	+0	05	+0	33	*1.18	*1.00	2.75	3.36	1.52
3279	Cape Canaveral	28° 26'	80° 34'	-1	06	-0	44	*1.50	*1.42	3.5	4.1	2.0
3281	Oak Hill, Mosquito Lagoon <21>	28° 52'	80° 50'	---	---	---	---	---	---	---	---	---
3283	PORT CANAVERAL (TRIDENT PIER)	28° 24.9'	80° 35.6'	<i>Daily predictions, p.164</i>				3.47	4.13	1.89		
3285	Cocoa Beach	28° 22.1'	80° 36.0'	-1	01	-0	38	*1.47	*1.14	3.46	4.22	1.89
3287	Patrick Air Force Base <i>Banana River</i>	28° 14.7'	80° 36.0'	-1	04	-0	38	*1.50	*1.43	3.50	4.20	1.95
3289	Kennedy Pkwy., Banana Creek, Merritt I. <22>	28° 35.4'	80° 39.5'	---	---	---	---	---	---	---	---	---
3291	VAB Turning Basin, Merritt Island <22>	28° 35.1'	80° 38.6'	---	---	---	---	---	---	---	---	---
3293	Orsino Causeway <22>	28° 30.8'	80° 36.7'	---	---	---	---	---	---	---	---	---
3295	Port Canaveral locks <22>	28° 24.5'	80° 38.3'	---	---	---	---	---	---	---	---	---
3297	Sykes Creek <22>	28° 24.3'	80° 41.8'	---	---	---	---	---	---	---	---	---
3299	Carter's Cut, Merritt Island <22> <i>Indian River</i>	28° 09.5'	80° 36.7'	---	---	---	---	---	---	---	---	---
3301	Titusville <22>	28° 37.2'	80° 48.0'	---	---	---	---	---	---	---	---	---
3303	Williams Point <22>	28° 27.4'	80° 45.6'	---	---	---	---	---	---	---	---	---
3305	Pineda <22>	28° 12.7'	80° 39.8'	---	---	---	---	---	---	---	---	---
3307	Canova Beach <i>Indian River – cont.</i>	28° 08.3'	80° 34.7'	-0	53	-0	26	*1.49	*1.50	3.45	4.14	1.93
3309	Eau Gallie <22>	28° 08.0'	80° 37.5'	---	---	---	---	---	---	---	---	---
3311	Melbourne <22>	28° 06.0'	80° 36.7'	---	---	---	---	---	---	---	---	---
3313	Palm Bay <22>	28° 02.5'	80° 34.9'	---	---	---	---	---	---	---	---	---
3315	Micco	27° 52.4'	80° 29.8'	+1	14	+2	19	*0.14	*0.57	0.26	0.31	0.21
3317	Sebastian Inlet bridge <i>Indian River – cont.</i>	27° 51.6'	80° 26.9'	-0	48	-0	24	*0.93	*1.00	2.16	2.64	1.22
3319	Sebastian	27° 48.7'	80° 27.8'	+1	32	+2	36	*0.15	*0.50	0.30	0.36	0.22
3321	Wabasso	27° 45.3'	80° 25.6'	+2	20	+3	24	*0.17	*0.42	0.37	0.44	0.25
3323	Vero Beach	27° 38.0'	80° 22.5'	+2	56	+3	41	*0.37	*0.79	0.80	0.96	0.51
3325	Oslo	27° 35.6'	80° 21.4'	+3	00	+3	59	*0.34	*0.50	0.77	0.92	0.46
3327	St. Lucie	27° 28.7'	80° 20.0'	+0	41	+1	46	*0.48	*1.00	1.05	1.26	0.66
3329	Vero Beach (ocean)	27° 40.2'	80° 21.6'	-0	55	-0	35	*1.45	*1.36	3.39	4.03	1.88
3331	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
3333	Fort Pierce Inlet <i>Indian River – cont.</i>	27° 28.1'	80° 17.8'	-0	14	-0	01	*0.82	*1.28	1.85	2.22	1.11
3335	Fort Pierce	27° 27.4'	80° 19.4'	+0	49	+1	01	*0.56	*1.14	1.22	1.46	0.77
3337	Ankona	27° 21.3'	80° 16.5'	+2	16	+3	03	*0.52	*0.85	1.10	1.32	0.67
3339	Eden, Nettles Island	27° 17.2'	80° 13.6'	+2	35	+3	31	*0.45	*0.92	0.98	1.18	0.62
3341	Jensen Beach <i>St. Lucie River</i>	27° 14.1'	80° 12.6'	+2	17	+3	04	*0.48	*0.90	1.05	1.26	0.65
3343	North Fork	27° 14.6'	80° 18.8'	+2	28	+3	28	*0.46	*0.92	0.99	1.19	0.63
3345	Stuart	27° 12.0'	80° 15.5'	+2	13	+3	30	*0.40	*0.86	0.88	1.06	0.56
3347	South Fork	27° 09.9'	80° 15.3'	+2	35	+3	32	*0.43	*0.92	0.93	1.12	0.59
3349	Sewall Point	27° 10.5'	80° 11.3'	+1	13	+2	10	*0.43	*0.93	0.93	1.11	0.59
3351	Port Salerno, Manatee Pocket	27° 09.1'	80° 11.7'	+0	51	+1	46	*0.42	*0.92	0.90	1.08	0.58
3353	Seminole Shores	27° 11.0'	80° 09.5'	-0	59	-0	35	*1.29	*1.28	3.00	3.60	1.68
3355	Great Pocket	27° 09.1'	80° 10.3'	+0	55	+1	42	*0.50	*1.00	1.08	1.30	0.68
3357	Peck Lake, ICWW	27° 06.8'	80° 08.7'	+1	13	+2	10	*0.58	*1.00	1.28	1.54	0.78
3359	Gomez, South Jupiter Narrows	27° 05.7'	80° 08.2'	+1	33	+2	37	*0.60	*1.07	1.32	1.58	0.81
3361	Hobe Sound bridge	27° 03.8'	80° 07.4'	+1	28	+2	25	*0.68	*1.00	1.53	1.84	0.90
3363	Hobe Sound, Jupiter Island	27° 02.2'	80° 06.4'	+1	16	+2	12	*0.75	*1.00	1.72	2.06	1.00
3365	Conch Bar, Jupiter Sound	26° 59.3'	80° 05.6'	+0	56	+1	34	*0.74	*1.07	1.68	2.02	0.99
3367	Jupiter Sound, south end	26° 57.1'	80° 04.7'	+0	22	+0	45	*0.88	*1.36	1.98	2.38	1.18
3369	Jupiter Inlet, south jetty	26° 56.6'	80° 04.4'	-0	10	-0	09	*1.08	*1.42	2.46	2.95	1.43
3371	Jupiter Inlet, U.S. Highway 1 Bridge <i>Loxahatchee River</i>	26° 56.9'	80° 05.1'	+0	28	+1	05	*0.86	*1.14	1.96	2.35	1.14
3373	A1A highway bridge	26° 56.8'	80° 05.4'	+0	34	+0	54	*0.87	*1.14	2.00	2.40	1.16
3375	Tequesta	26° 57.0'	80° 06.1'	+0	59	+1	58	*0.80	*1.14	1.83	2.20	1.08
3377	Tequesta, North Fork entrance	26° 57.1'	80° 06.1'	+0	51	+1	42	*0.78	*0.92	1.80	2.16	1.03
3379	Tequesta, North Fork	26° 57.6'	80° 06.3'	+1	14	+2	13	*0.75	*1.00	1.72	2.06	1.00
3381	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
3383	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
3385	Boy Scout Dock	26° 59.2'	80° 08.5'	+1	01	+1	57	*0.92	*1.36	2.09	2.51	1.23
3387	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
3389	Southwest Fork (spillway)	26° 56.1'	80° 08.6'	+0	52	+1	45	*0.86	*1.28	1.94	2.33	1.15
3391	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
3393	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
3395	Donald Ross Bridge, ICWW	26° 52.9'	80° 04.2'	+0	20	+0	50	*1.00	*1.21	2.31	2.77	1.32
3397	PGA Boulevard Bridge, ICWW	26° 50.6'	80° 04.0'	-0	02	+0	31	*1.16	*1.36	2.68	3.22	1.53

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					
	FLORIDA, East Coast—cont. Time meridian, 75° W	North	West	h	m	h	m	ft	ft	ft		
	<i>Lake Worth</i>			on Miami Harbor Entrance, p.168								
3399	North Palm Beach	26° 49.6'	80° 03.3'	-0	17	+0	15	*1.22	*1.29	2.81	3.34	1.59
3401	Port of Palm Beach	26° 46.2'	80° 03.1'	-0	21	+0	04	*1.18	*1.36	2.72	3.26	1.55
3403	Palm Beach	26° 44.0'	80° 02.5'	-0	11	+0	16	*1.17	*1.29	2.69	3.20	1.54
3405	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
3407	West Palm Beach Canal	26° 38.7'	80° 02.7'	+0	48	+1	35	*1.07	*1.14	2.46	2.92	1.40
3409	Boynton Beach	26° 32.9'	80° 03.2'	+1	05	+2	07	*1.06	*1.07	2.47	2.94	1.38
3411	Lake Worth Pier (ocean)	26° 36.7'	80° 02.0'	-0	45	-0	19	*1.16	*1.00	2.73	3.25	1.50
3413	Ocean Ridge, ICWW	26° 31.6'	80° 03.2'	+1	16	+2	10	*1.10	*1.21	2.54	3.05	1.44
3415	Delray Beach, ICWW	26° 28.4'	80° 03.7'	+1	24	+2	07	*1.07	*1.14	2.47	2.94	1.40
3417	South Delray Beach, ICWW	26° 26.8'	80° 03.9'	+1	21	+1	58	*1.06	*1.21	2.43	2.89	1.39
3419	Yamato, ICWW	26° 24.2'	80° 04.2'	+1	22	+1	57	*1.02	*1.14	2.35	2.80	1.34
3421	Lake Wyman, ICWW	26° 22.2'	80° 04.2'	+1	17	+1	49	*0.96	*1.14	2.21	2.63	1.26
3423	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
3425	Deerfield Beach, Hillsboro River	26° 18.8'	80° 04.9'	+0	28	+1	03	*1.02	*1.07	2.36	2.83	1.33
3427	Hillsboro Beach, ICWW	26° 16.5'	80° 04.8'	+0	02	+0	34	*1.06	*1.07	2.47	2.96	1.39
3429	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
3431	Hillsboro Inlet Marina	26° 15.6'	80° 05.1'	-0	06	+0	24	*1.06	*1.14	2.45	2.94	1.38
3433	Hillsboro Inlet (ocean)	26° 15.4'	80° 04.8'	-0	23	+0	00	*1.12	*1.21	2.60	3.12	1.47
3435	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
	<i>Fort Lauderdale</i>											
3437	Bahia Mar Yacht Club	26° 06.8'	80° 06.5'	-0	05	+0	33	*1.05	*1.21	2.42	2.90	1.38
3439	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
3441	Mayan Lake	26° 06.0'	80° 06.5'	+0	20	+1	02	*0.91	*1.00	2.11	2.53	1.19
3443	Port Everglades, Turning Basin	26° 05.5'	80° 07.4'	-0	29	-0	09	*1.09	*1.14	2.53	3.01	1.43
3445	South Port Everglades, ICWW	26° 04.9'	80° 07.0'	-0	23	-0	03	*1.10	*1.42	2.52	3.02	1.46
3447	Whiskey Creek, north end	26° 04.8'	80° 06.7'	-0	23	-0	06	*1.10	*1.28	2.52	3.02	1.44
3449	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
3451	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
3453	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
3455	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
3457	Hollywood Beach	26° 02.4'	80° 06.9'	+0	37	+1	41	*0.91	*1.14	2.08	2.50	1.20
3459	Golden Beach, ICWW	25° 58.0'	80° 07.4'	+1	13	+1	57	*0.91	*1.07	2.10	2.52	1.20
3461	Dumfoundling Bay	25° 56.5'	80° 07.5'	+1	17	+2	07	*0.88	*1.00	2.02	2.40	1.15
3463	Sunny Isles, Biscayne Creek	25° 55.7'	80° 07.8'	+2	00	+2	24	*0.77	*0.71	1.8	2.2	1.0
3465	Biscayne Creek, ICWW	25° 52.8'	80° 09.8'	+0	47	+1	39	*0.93	*1.00	2.15	2.56	1.21
3467	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
3469	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
3471	Bakers Haulover Inlet (inside)	25° 54.2'	80° 07.5'	+0	57	+1	37	*0.87	*0.92	2.01	2.20	1.13
3473	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
3475	Miami Harbor Entrance	25° 46.1'	80° 07.9'	-0	22	-0	02	*1.07	*1.14	2.46	2.93	1.39
3477	GOVERNMENT CUT, MIAMI HARBOR ENTRANCE	25° 45.8'	80° 07.8'					<i>Daily predictions</i>		2.32	2.83	1.32
	<i>Biscayne Bay</i>											
3479	San Marino Island	25° 47.6'	80° 09.8'	+0	37	+0	58	*0.92	*1.00	2.14	2.57	1.21
3481	Miami, Marina	25° 46.7'	80° 11.1'	+0	20	+0	49	*0.94	*0.92	2.18	2.59	1.22
3483	Dodge Island, Fishermans Channel	25° 46.2'	80° 10.1'	+0	34	+1	10	*0.91	*1.00	2.10	2.52	1.19
3485	Dinner Key Marina	25° 43.6'	80° 14.2'	+0	54	+1	48	*0.84	*0.92	1.94	2.33	1.10
	Florida Keys											
3487	Bear Cut, Virginia Key	25° 43.9'	80° 09.7'	+0	28	+0	51	*0.88	*0.86	2.05	2.44	1.15
3489	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
3491	Coral Shoal, Biscayne Channel	25° 39.1'	80° 09.4'	+0	11	+0	37	*0.88	*0.92	2.05	2.46	1.15
3493	Cutler, Biscayne Bay	25° 36.9'	80° 18.3'	+1	01	+1	58	*0.84	*0.92	1.94	2.31	1.10
3495	Soldier Key	25° 35'	80° 10'	+0	30	+1	16	*0.81	*0.71	1.9	2.3	1.0
3497	Ragged Keys, Biscayne Bay	25° 32.0'	80° 10.3'	+0	43	+1	18	*0.73	*1.00	1.65	1.96	0.96
3499	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
3501	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
3503	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
3505	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
3507	Turkey Point, Biscayne Bay	25° 26.2'	80° 19.7'	+2	11	+3	21	*0.70	*0.79	1.61	1.92	0.92
3509	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
3511	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
3513	Christmas Point, Elliott Key	25° 23.5'	80° 13.8'	+0	13	+0	37	*0.80	*1.07	1.82	2.13	1.06
3515	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
3517	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
3519	East Arsenicker, Card Sound	25° 22.4'	80° 17.5'	+2	26	+3	09	*0.40	*0.64	0.91	1.04	0.54
3521	Card Sound, western side	25° 20.7'	80° 19.9'	+2	51	+3	40	*0.30	*0.43	0.68	0.77	0.40
3523	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
3525	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
3527	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
3529	Little Card Sound bridge	25° 17.3'	80° 22.2'	+3	30	+4	03	*0.24	*0.43	0.53	0.63	0.33
3531	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
3533	Main Key, Barnes Sound	25° 14.4'	80° 24.0'	+5	04	+6	16	*0.19	*0.36	0.41	0.46	0.26
3535	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
3537	Manatee Creek, Hwy. 1 bridge, Long Sound <26>	25° 14.1'	80° 26.1'	---	---	---	---	---	---	---	---	---
3539	Carysfort Reef	25° 13.3'	80° 12.7'	+0	19	+0	39	*1.03	*1.36	2.34	2.60	1.36
3541	Jewfish Creek entrance, Blackwater Sound <26>	25° 11.0'	80° 23.2'	---	---	---	---	---	---	---	---	---
3543	Deep Six Marina, Blackwater Sound <26>	25° 08.4'	80° 24.2'	---	---	---	---	---	---	---	---	---
3545	Garden Cove, Key Largo	25° 10.3'	80° 22.0'	-0	01	+0	25	*0.94	*1.14	2.16	2.53	1.24
3547	Largo Sound, Key Largo	25° 08.4'	80° 23.7'	+2	13	+3	03	*0.35	*0.50	0.80	0.96	0.47
3549	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
3551	Point Charles, Key Largo	25° 04.9'	80° 27.0'	+0	25	+1	53	*0.77	*0.64	1.80	2.14	0.99
3553	Rock Harbor, Key Largo	25° 04.9'	80° 26.8'	+0	22	+0	36	*0.94	*1.21	2.14	2.57	1.24

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			
	FLORIDA Florida Keys—cont. Time meridian, 75° W	North	West	h	m	h	m	ft	ft	ft
on Miami Harbor Entrance, p.168										
3555	Sunset Cove, Key Largo, Buttonwood Sound <26>	25° 05.7'	80° 26.6'	---	---	---	---	---	---	---
3557	Hammer Point, Key Largo, Florida Bay <26>	25° 02.1'	80° 30.3'	---	---	---	---	---	---	---
3559	Tavernier, Key Largo, Florida Bay <26>	25° 00.9'	80° 30.9'	---	---	---	---	---	---	---
3561	Tavernier Harbor, Hawk Channel	25° 00.3'	80° 31.0'	+0 07	+0 26	*0.90	*1.36	2.04	2.43	1.21
3563	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
3565	Plantation Key, northern end, Florida Bay <26>	25° 00.1'	80° 32.6'	---	---	---	---	---	---	---
3567	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
3569	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
3571	Plantation Key, Hawk Channel	24° 58.4'	80° 33.0'	+0 05	+0 12	*0.96	*1.21	2.20	2.64	1.27
3573	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
3575	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
3577	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
3579	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
3581	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
3583	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
3585	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.176										
3587	Flamingo, Florida Bay	25° 08.5'	80° 55.4'	+5 28	+7 20	*1.47	*1.08	2.02	2.52	1.27
3589	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
3591	Indian Key, Hawk Channel	24° 52.6'	80° 40.6'	-0 58	-0 35	*1.30	*0.71	1.84	2.30	1.09
3593	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
3595	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
3597	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
3599	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
3601	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
3603	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
3605	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
3607	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
3609	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
3611	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
3613	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
3615	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
3617	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
3619	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
3621	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
3623	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
3625	Long Key, western end	24° 48.1'	80° 51.0'	-1 01	-0 54	*0.82	*0.33	1.19	1.49	0.67
3627	Conch Key, eastern end	24° 47.5'	80° 53.0'	-1 09	-0 45	*0.85	*0.54	1.18	1.48	0.72
3629	Toms Harbor Cut	24° 47.0'	80° 54.4'	-1 19	-0 30	*0.37	*0.38	0.48	0.60	0.33
3631	Toms Harbor, Duck Key <26>	24° 46.4'	80° 54.9'	---	---	---	---	---	---	---
3633	Duck Key, Hawk Channel	24° 45.9'	80° 54.8'	-1 11	-0 40	*0.97	*0.55	1.34	1.66	0.80
3635	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
3637	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
3639	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
3641	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
3643	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
3645	Key Colony Beach	24° 43.1'	81° 01.0'	-1 17	-0 53	*1.22	*0.83	1.66	2.06	1.03
3647	VACA KEY, USCG STATION, FLORIDA BAY	24° 42.7'	81° 06.3'	---	---	---	---	---	---	---
3649	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
3651	Sombrero Key, Hawk Channel	24° 37.6'	81° 06.7'	-1 03	-0 39	*1.18	*0.79	1.64	2.02	1.01
3653	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
3655	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
3657	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
3659	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
3661	Money Key	24° 41.0'	81° 12.9'	+0 03	+1 17	*0.58	*0.58	0.76	0.95	0.54
3663	Little Duck Key, east end, Hawk Channel	24° 40.9'	81° 13.7'	-0 49	+0 05	*0.67	*0.67	0.88	1.10	0.60
3665	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
3667	Cocoaanut Key, Florida Bay	24° 44.7'	81° 14.2'	+3 52	+2 50	*0.55	*0.55	0.72	0.90	0.66
3669	West Bahia Honda Key	24° 46.8'	81° 16.3'	+3 59	+4 01	*0.97	*1.00	1.27	1.59	0.88
3671	Horseshoe Keys, south end	24° 46.0'	81° 17.0'	+3 54	+3 09	*0.86	*1.00	1.09	1.36	0.79
3673	Johnson Keys, south end	24° 44.6'	81° 18.0'	+3 36	+2 33	*0.72	*0.96	0.88	1.10	0.67
3675	Johnson Keys, north end	24° 46.0'	81° 19.4'	+3 35	+4 22	*1.31	*1.38	1.70	2.12	1.18
3677	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
3679	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
3681	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
3683	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
3685	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
3687	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
3689	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
3691	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
3693	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
3695	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
3697	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
3699	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
3701	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
3703	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
3705	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
3707	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
3709	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
3711	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
3713	Big Spanish Key	24° 47.3'	81° 24.7'	+3 19	+4 29	*1.97	*1.50	2.69	3.36	1.71

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						
	FLORIDA Florida Keys—cont. Time meridian, 75° W	North	West	h	m	h	m	ft	ft	ft			
				on Key West, p.176									
3715	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	
3717	Ramrod Key, Newfound Harbor	24° 39.0'	81° 24.2'	-0	41	+0	05	*0.90	*0.50	1.28	1.60	0.76	
3719	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	
3721	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	
3723	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	
3725	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	
3727	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	
3729	Little Torch Key, Pine Channel Bridge, south side	24° 39.9'	81° 23.2'	-0	13	+0	54	*0.69	*0.38	0.98	1.22	0.58	
3731	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	
3733	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	
3735	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	
3737	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	
3739	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	
3741	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	
3743	Howe Key, northwest end	24° 45.5'	81° 25.7'	+3	29	+5	22	*1.68	*1.33	2.28	2.85	1.46	
3745	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	
3747	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	
3749	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	
3751	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	
3753	Knockemdown Key, north end	24° 42.9'	81° 28.7'	+3	30	+4	54	*1.35	*1.21	1.80	2.25	1.19	
3755	Raccoon Key, east side	24° 44.5'	81° 29.0'	+3	20	+5	09	*1.50	*1.21	2.04	2.55	1.31	
3757	Content Keys, Content Passage	24° 47.4'	81° 29.0'	+2	46	+3	49	*2.13	*1.83	2.79	3.46	1.84	
3759	Key Lois, southeast end	24° 36.4'	81° 28.2'	-1	15	-0	45	*1.06	*0.75	1.46	1.82	0.91	
3761	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	
3763	Gopher Key, Cudjoe Bay	24° 38.5'	81° 29.1'	-0	46	+0	17	*0.90	*0.71	1.22	1.52	0.78	
3765	Sugarloaf Key, Pirates Cove	24° 39.2'	81° 30.9'	-0	48	+1	41	*0.59	*0.75	0.74	0.92	0.55	
3767	Cudjoe Key, Cudjoe Bay	24° 39.6'	81° 29.5'	-0	38	+0	41	*0.87	*0.71	1.18	1.48	0.76	
3769	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	
3771	Cudjoe Key, Kemp Channel Bridge	24° 39.7'	81° 28.1'	---	---	---	---	*0.59	*0.50	0.79	0.99	0.52	
3773	Cudjoe Key, northeast side, Kemp Channel	24° 41.2'	81° 29.0'	+3	45	---	---	---	---	---	---	---	
3775	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	
3777	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	
3779	Cudjoe Key, Pirates Cove	24° 39.7'	81° 30.9'	+3	50	+2	54	*0.77	*0.79	0.98	1.21	0.68	
3781	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	
3783	Pumpkin Key, Bow Channel	24° 43.0'	81° 33.7'	+3	17	+4	39	*1.56	*1.17	2.14	2.68	1.35	
3785	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	
3787	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	
3789	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	
	<i>Upper Sugarloaf Sound</i>												
3791	Perky	24° 38.9'	81° 34.2'	+5	37	+8	25	*0.28	*0.08	0.42	0.52	0.23	
3793	Park Channel Bridge	24° 39.3'	81° 32.4'	+5	47	+8	33	*0.26	*0.29	0.34	0.42	0.24	
3795	North Harris Channel	24° 39.0'	81° 33.2'	+5	32	+8	04	*0.25	*0.25	0.33	0.41	0.22	
3797	Sugarloaf Shores East <26>	24° 38.6'	81° 33.6'	---	---	---	---	---	---	---	---	---	
3799	Tarpon Creek	24° 37.8'	81° 31.0'	-0	29	+0	17	*0.35	*0.38	0.46	0.58	0.32	
	<i>Lower Sugarloaf Sound <27></i>												
3801	Sugarloaf Shores <27>	24° 38.0'	81° 33.1'	---	---	---	---	---	---	---	---	---	
3803	Sugarloaf Beach <27>	24° 36.4'	81° 34.0'	---	---	---	---	---	---	---	---	---	
3805	Sugarloaf Shores North <27>	24° 38.4'	81° 34.2'	---	---	---	---	---	---	---	---	---	
3807	Saddlebunch Keys, south end <27>	24° 36.1'	81° 34.9'	---	---	---	---	---	---	---	---	---	
3809	Lower Sugarloaf Channel Bridge <27>	24° 38.0'	81° 35.2'	---	---	---	---	---	---	---	---	---	
3811	Saddlebunch Keys, Channel No. 2 <27>	24° 37.6'	81° 35.9'	---	---	---	---	---	---	---	---	---	
3813	Saddlebunch Keys <27>	24° 37.1'	81° 36.1'	---	---	---	---	---	---	---	---	---	
3815	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	
3817	Snipe Keys, Middle Narrows	24° 40.0'	81° 37.8'	+3	44	+5	54	*1.02	*0.67	1.42	1.78	0.87	
3819	Snipe Keys, Snipe Point	24° 41.5'	81° 40.4'	+2	15	+3	33	*1.69	*1.29	2.31	2.89	1.47	
3821	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	
3823	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	
3825	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	
3827	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	
3829	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	
3831	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	
3833	Bird Key, Similar Sound	24° 35.3'	81° 38.3'	-0	21	+1	03	*0.59	*0.42	0.82	1.02	0.51	
3835	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	
3837	Saddlebunch Keys, Similar Sound	24° 36.0'	81° 37.3'	+0	39	+2	41	*0.37	*0.21	0.52	0.65	0.31	
3839	Geiger Key, inside <26>	24° 35.0'	81° 39.3'	---	---	---	---	---	---	---	---	---	
3841	Big Coppitt 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	
3843	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	
3845	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	
3847	Channel Key, west side	24° 36.2'	81° 43.5'	+3	09	+3	07	*0.70	*0.71	0.91	1.14	0.62	
3849	Boca Chica Marina	24° 34.5'	81° 42.5'	+0	20	+1	11	*0.66	*0.71	0.83	1.03	0.58	
3851	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	
3853	Boca Chica Channel Bridge	24° 34.6'	81° 43.2'	+1	23	+1	29	*0.57	*0.67	0.72	0.90	0.52	
3855	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	
3857	Cow Key Channel	24° 34.2'	81° 45.0'	+1	55	+2	05	*0.65	*0.71	0.82	1.01	0.58	
3859	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	
3861	Fleming Key, north end	24° 35.5'	81° 47.7'	+1	38	+1	54	*0.79	*0.79	1.01	1.25	0.69	
3863	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	
3865	KEY WEST	24° 33.2'	81° 48.5'	<i>Daily predictions</i>							1.28	1.65	0.88
3867	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	
3869	Garden Key, Dry Tortugas	24° 37.6'	82° 52.3'	+0	29	+0	33	*0.94	*1.33	1.14	1.42	0.89	

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 Time meridian, 75° W	North	West	h	m	h	m	ft	ft	ft
on Naples, p. 180										
3871	Cape Sable, East Cape	25° 07'	81° 05'	+1	33	+1	50	*1.30	*0.98	2.9 3.8
3873	Shark River entrance	25° 21'	81° 08'	+0	57	+1	45	*1.43	*0.98	3.6 4.5
3875	Whitewater Bay	25° 19'	81° 02'	+3	53	+4	38	*0.26	*0.33	0.5 0.8
3877	Lostmans River entrance	25° 33'	81° 13'	+1	09	+1	59	*1.33	*0.98	3.0 3.9
3879	Onion Key, Lostmans River	25° 37'	81° 08'	+3	09	+4	53	*0.26	*0.16	0.6 0.9
3881	Chatham River entrance	25° 41'	81° 17'	+0	59	+1	53	*1.43	*0.66	3.3 4.2
3883	Chokoloskee	25° 48.8'	81° 21.8'	+2	15	+3	14	*1.11	*0.62	2.53 3.18
3885	Everglades City, Barron River	25° 51.5'	81° 23.2'	+2	25	+3	26	*0.99	*0.57	2.26 2.84
3887	Indian Key	25° 48'	81° 28'	+0	55	+1	19	*1.48	*0.98	3.4 4.3
3889	Round Key	25° 50'	81° 32'	+0	54	+1	12	*1.48	*0.98	3.4 4.3
3891	Pumpkin Bay	25° 55'	81° 33'	+2	39	+3	07	*0.89	*0.49	2.1 2.7
3893	Marco Island, Caxambas Pass	25° 54.5'	81° 43.7'	+0	25	+0	18	*1.07	*0.98	2.22 3.05
3895	Coon Key	25° 54'	81° 38'	+1	15	+1	31	*1.19	*0.98	2.6 3.5
3897	Cape Romano	25° 51'	81° 41'	+0	43	+1	04	*1.19	*0.98	2.6 3.5
3899	Marco, Big Marco River	25° 58.3'	81° 43.7'	+1	00	+0	46	*0.98	*0.85	2.04 2.78
3901	Naples, Naples Bay, north end	26° 08.2'	81° 47.3'	+0	43	+0	56	*0.97	*0.90	2.06 2.85
3903	NAPLES (outer coast)	26° 07.8'	81° 48.4'	<i>Daily Predictions</i>						2.01 2.87
3905	Wiggins Pass, Cocohatchee River	26° 17.4'	81° 49.1'	+0	44	+0	59	*0.77	*0.73	1.59 2.26
3907	Cocohatchee River, U.S. 41 bridge	26° 16.9'	81° 48.1'	+1	10	+1	28	*0.74	*0.65	1.54 2.18
on St. Petersburg, p.184										
<i>Estero Bay</i>										
3909	Little Hickory Island	26° 21'	81° 51'	-0	58	-1	05	*1.09	*1.09	-- 2.5
3911	Coconut Point	26° 24'	81° 50'	-0	47	-0	40	*1.17	*1.17	-- 2.7
3913	Carlos Point	26° 24'	81° 53'	-1	08	-1	28	*1.17	*1.17	-- 2.7
3915	Estero River	26° 25.8'	81° 51.4'	-0	45	-0	10	*1.09	*1.11	1.74 2.45
3917	Matanzas Pass (fixed bridge) Estero Island	26° 27'	81° 57'	-1	10	-1	34	*1.22	*1.22	-- 2.8
3919	Point Ybel, San Carlos Bay entrance	26° 27'	82° 01'	-1	50	-1	12	*1.21	*1.21	-- 2.6
3921	Punta Rassa, San Carlos Bay	26° 29'	82° 01'	-1	01	-1	19	*1.04	*1.04	-- 2.4
<i>Caloosahatchee River</i>										
3923	Iona Shores	26° 31'	81° 58'	+1	18	+1	40	*0.43	*0.43	-- 1.0
3925	Cape Coral Bridge	26° 34'	81° 56'	+1	05	+2	02	*0.43	*0.43	-- 1.0
3927	Fort Myers	26° 38.8'	81° 52.3'	+1	56	+2	23	*0.56	*0.39	0.95 1.32
3929	St. James City, Pine Island	26° 30'	82° 05'	-0	30	-0	44	*1.04	*1.04	-- 2.4
3931	Galt Island, Pine Island Sound	26° 31'	82° 06'	-0	25	+0	16	*0.91	*0.91	-- 2.1
3933	Captiva Island (outside)	26° 29'	82° 11'	-2	20	-2	28	*1.13	*1.13	-- 2.6
3935	Captiva Island, Pine Island Sound	26° 31'	82° 11'	-0	46	-0	20	*0.91	*0.91	-- 2.1
3937	Redfish Pass, Captiva Island (north end)	26° 33'	82° 12'	-0	55	-1	14	*0.91	*0.91	-- 2.1
3939	Tropical Homesites Landing, Pine Island	26° 33'	82° 05'	-0	08	+0	22	*0.87	*0.87	-- 2.0
3941	Matlacha Pass (bascule bridge)	26° 38'	82° 04'	+0	43	+1	28	*0.83	*0.83	-- 1.9
3943	Pineland, Pine Island	26° 40'	82° 09'	-0	19	+0	26	*0.83	*0.83	-- 1.9
3945	Port Boca Grande, Charlotte Harbor	26° 43'	82° 15'	-1	12	-1	56	*0.74	*0.74	-- 1.7
3947	Punta Gorda, Charlotte Harbor	26° 56'	82° 04'	+1	06	+1	27	*0.83	*0.83	-- 1.9
3949	Shell Point, Peace River, Charlotte Harbor	26° 59'	82° 00'	+1	52	+2	30	*0.91	*0.91	-- 2.1
3951	El Jobean, Myakka River	26° 58'	82° 13'	+1	38	+1	56	*0.83	*0.83	-- 1.9
3953	Placida, Gasparilla Sound	26° 50'	82° 16'	-1	27	-0	59	*0.70	*0.70	-- 1.6
3955	Englewood, Lemon Bay	26° 56.0'	82° 21.2'	-0	17	-0	17	*0.66	*0.82	1.00 1.57
3957	Venice Inlet (inside)	27° 07'	82° 28'	-2	02	-1	38	*0.91	*0.91	-- 2.1
3959	Sarasota, Sarasota Bay	27° 20'	82° 33'	-1	38	-0	58	*0.91	*0.91	-- 2.1
3961	Cortez, Sarasota Bay	27° 28'	82° 41'	-2	00	-1	25	*0.96	*0.96	-- 2.2
Tampa Bay										
3963	Egmont Key, Egmont Channel	27° 36.1'	82° 45.6'	-2	15	-3	20	*0.96	*1.00	-- 2.16
3965	Anna Maria Key, Bradenton Beach	27° 29.8'	82° 42.8'	-2	53	-2	46	*1.02	*1.02	-- 2.28
3967	Anna Maria Key, city pier	27° 32.0'	82° 43.8'	-2	10	-2	19	*0.99	*0.99	-- 2.22
3969	Bradenton, Manatee River	27° 30'	82° 34'	-1	24	-0	55	*0.97	*0.95	-- 2.3
3971	Redfish Point, Manatee River	27° 32'	82° 29'	+0	30	+0	14	*0.92	*1.00	-- 2.2
3973	Mullet Key Channel (Skyway)	27° 36.9'	82° 43.6'	-2	03	-2	01	*0.92	*0.92	1.48 2.08
3975	Port Manatee	27° 38.2'	82° 33.8'	-1	00	-0	48	*0.97	*0.95	1.56 2.19
3977	Shell Point	27° 43'	82° 29'	+0	08	+0	17	*0.91	*0.91	-- 2.3
3979	Point Pinellas	27° 42'	82° 38'	-0	22	-0	29	*0.86	*0.86	-- 2.0
3981	ST. PETERSBURG	27° 46.4'	82° 37.3'	<i>Daily predictions</i>						1.59 2.26
3983	Ballast Point	27° 53.4'	82° 28.8'	+0	20	+0	22	*1.22	*1.13	-- 2.0
3985	Pendola Point, Hillsborough Bay	27° 53.9'	82° 25.6'	+0	21	+0	05	*1.14	*1.18	1.81 2.61
3987	Davis Island, Hillsborough Bay	27° 54.5'	82° 27.1'	+0	03	+0	32	*1.16	*1.24	1.82 2.63
3989	McKay Bay entrance	27° 54.8'	82° 25.5'	+0	02	+0	28	*1.19	*1.26	1.89 2.69
3991	Old Port Tampa	27° 51.5'	82° 33.2'	+0	25	+0	39	*1.10	*1.18	1.73 2.48
3993	Gandy Bridge, Old Tampa Bay	27° 53.6'	82° 32.3'	+0	59	+0	57	*1.12	*1.24	1.75 2.55
3995	Bay Aristocrat Village, Old Tampa Bay	27° 56.5'	82° 43.2'	+1	01	+1	32	*1.24	*1.37	1.95 2.81
3997	Safety Harbor, Old Tampa Bay	27° 59.3'	82° 41.1'	+1	32	+1	34	*1.23	*1.39	1.91 2.79
3999	Mobbly Bayou	28° 01.3'	82° 39.3'	+2	38	+2	54	*0.71	*0.45	1.24 1.77
<i>Boca Ciega Bay</i>										
4001	Pass-a-Grille Beach	27° 41'	82° 44'	-1	34	-1	30	*0.87	*0.87	-- 2.1
4003	Gulfport	27° 44'	82° 42'	-1	32	-1	05	*0.96	*0.96	-- 2.3
4005	Long Key, 0.5mi N. of Corey Causeway	27° 44.7'	82° 44.8'	-1	18	-0	44	*0.92	*1.00	-- 2.2
4007	Johns Pass	27° 47'	82° 47'	-2	14	-2	04	*0.97	*1.02	-- 2.3
4009	Madeira Beach Causeway	27° 48.5'	82° 47.7'	-1	32	-1	45	*1.08	*1.18	-- 2.42

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
				on Cedar Key, p.188						
4011	Indian Rocks Beach (inside)	27° 52'	82° 51'	-0 57	-0 53	*0.65	*0.63	1.8	2.6	1.3
4013	Clearwater	27° 57'	82° 48'	-1 48	-1 35	*0.65	*0.63	1.8	2.6	1.3
4015	Clearwater Beach	27° 58.7'	82° 49.9'	-2 07	-2 19	*0.69	*0.84	1.87	2.74	1.46
4017	Dunedin, St. Joseph Sound	28° 01'	82° 48'	-1 50	-1 45	*0.70	*0.79	1.9	2.8	1.4
4019	Anclote Key, southern end	28° 09.9'	82° 50.6'	-1 53	-1 50	*0.81	*0.65	2.35	3.04	1.59
4021	Anclote, Anclote River	28° 10.3'	82° 47.1'	-1 28	-1 24	*0.78	*0.87	2.16	3.07	1.63
4023	Tarpon Springs, Anclote River	28° 09.6'	82° 46.1'	-1 16	-1 03	*0.77	*0.83	2.10	3.00	1.57
4025	North Anclote Key	28° 12.6'	82° 50.4'	-1 55	-1 38	*0.80	*0.86	2.20	3.11	1.64
4027	Gulf Harbors	28° 14.6'	82° 45.8'	-1 15	-0 52	*0.84	*0.90	2.30	3.26	1.72
4029	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
4031	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
4033	Hudson, Hudson Creek	28° 21.7'	82° 42.6'	-1 12	-1 02	*0.91	*0.89	2.53	3.48	1.82
4035	Aripeka, Hammock Creek	28° 26.0'	82° 40.1'	-0 37	+0 23	*0.81	*0.63	2.37	3.15	1.58
4037	Hernando Beach, Rocky Creek, Little Pine I. Bay	28° 29.2'	82° 39.7'	-0 20	+0 58	*0.83	*0.83	2.16	--	--
4039	Bayport	28° 32.0'	82° 39.0'	-0 03	+0 36	*0.84	*0.78	2.36	3.28	1.67
4041	Johns Island, Chassahowitzka Bay	28° 41.5'	82° 38.3'	+1 09	+2 14	*0.62	*0.49	1.81	2.53	1.22
4043	Chassahowitzka, Chassahowitzka River	28° 42.9'	82° 34.6'	+3 59	+5 45	*0.14	*0.16	0.39	0.60	0.30
4045	Mason Creek, Homosassa Bay	28° 45.7'	82° 38.3'	+3 09	+4 44	*0.32	*0.25	0.96	1.35	0.64
4047	Tuckers Island, Homosassa River	28° 46.3'	82° 41.7'	+1 26	+2 23	*0.47	*0.33	1.38	1.92	0.90
4049	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
4051	Ozello, St. Martins River	28° 49.5'	82° 39.5'	+4 25	+5 21	*0.17	*0.14	0.49	0.74	0.33
4053	Mangrove Pt., Crystal Bay	28° 52.2'	82° 43.4'	+0 22	+0 41	*0.95	*0.76	2.82	3.65	1.89
4055	Ozello north, Crystal Bay	28° 51.8'	82° 40.0'	+1 25	+3 17	*0.50	*0.25	1.53	2.03	0.93
4057	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
	<i>Crystal River</i>									
4059	Florida Power	28° 57.6'	82° 43.5'	-0 03	+0 30	*1.04	*0.89	3.00	3.90	2.06
4061	Shell Island, north end	28° 55.4'	82° 41.5'	+0 36	+1 30	*0.79	*0.59	2.32	3.01	1.53
4063	Twin Rivers Marina	28° 54.3'	82° 38.3'	+1 46	+2 30	*0.64	*0.49	1.90	2.53	1.26
4065	Kings Bay	28° 53.9'	82° 35.9'	+2 20	+3 07	*0.59	*0.41	1.76	2.31	1.14
4067	Withlacochee River entrance	29° 00'	82° 46'	+0 07	+0 55	*0.91	*0.95	2.5	3.5	1.8
4069	CEDAR KEY	29° 08.1'	83° 01.9'			<i>Daily predictions</i>		2.83	3.80	2.05
4071	Suwannee River entrance	29° 17'	83° 09'	+0 06	+0 18	*0.88	*0.95	2.4	3.4	1.8
4073	Suwannee, Salt Creek	29° 19.7'	83° 09.1'	-0 07	+0 24	*0.91	*0.83	2.65	3.47	1.84
4075	Pepperfish Keys	29° 30'	83° 22'	+0 12	+0 24	*0.88	*0.95	2.4	3.4	1.8
4077	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.192						
4079	Fishermans Rest	29° 44'	83° 32'	-0 14	-0 02	*0.93	*0.86	2.4	3.4	1.8
4081	Spring Warrior Creek	29° 55'	83° 41'	-0 09	+0 03	*0.92	*0.91	2.4	3.4	1.8
4083	Rock Islands	29° 58'	83° 50'	-0 03	+0 04	*0.93	*0.91	2.4	3.3	1.8
	<i>Apalachee Bay</i>									
4085	Mandalay, Aucilla River	30° 07.6'	83° 58.5'	+0 25	+0 57	*0.69	*0.55	1.92	2.47	1.30
4087	ST. MARKS RIVER ENTRANCE	30° 04.7'	84° 10.7'			<i>Daily predictions</i>		2.63	3.49	1.94
4089	St. Marks, St. Marks River	30° 09'	84° 12'	+0 36	+1 04	*0.93	*0.91	2.4	3.3	1.8
4091	Shell Point, Walker Creek	30° 03.6'	84° 17.4'	-0 03	-0 03	*1.02	*1.08	2.65	3.56	2.00
4093	Bald Point, Ochlockonee Bay	29° 56.9'	84° 20.5'	+0 33	+0 19	*0.85	*0.70	2.28	3.07	1.60
4095	Panacea, Dickerson Bay	30° 01.7'	84° 23.2'	+0 16	+0 20	*1.01	*0.82	2.73	3.66	1.90
4097	Alligator Point, St. James Island	29° 54.2'	84° 24.8'	-0 08	+0 11	*0.75	*0.73	1.95	2.82	1.45
4099	Turkey Point, St. James Island	29° 54.9'	84° 30.7'	-0 16	-0 21	*0.78	*0.98	1.92	2.74	1.57
				on Apalachicola, p.196						
	<i>St. George Sound</i>									
4101	Dog Island, west end	29° 47'	84° 40'	-1 53	-2 38	*1.73	*1.40	--	2.6	1.3
4103	Carrabelle, Carrabelle River	29° 51'	84° 40'	-1 25	-2 13	*1.60	*1.60	--	2.6	1.3
4105	St. George Island, East End	29° 41.2'	84° 47.2'	-2 02	-2 48	*1.13	*1.00	--	1.9	1.1
4107	St. George Island, Rattlesnake Cove	29° 41.5'	84° 47.5'	-1 00	-1 35	*1.33	*1.20	--	2.2	1.3
4109	St. George Island, 12th St. W (Bayside)	29° 39'	84° 54'	-0 55	-1 08	*1.26	*1.26	--	2.2	1.1
4111	St. George Island, Sikes Cut	29° 36.8'	84° 57.5'	-0 58	-1 22	*1.00	*1.00	--	1.6	1.0
	<i>Apalachicola Bay</i>									
4113	Cat Point	29° 43'	84° 53'	-0 40	-1 17	*1.07	*0.60	--	2.2	1.1
4115	APALACHICOLA	29° 43.6'	84° 58.9'			<i>Daily predictions</i>		1.11	1.61	0.96
4117	Apalachicola River (A&N RR bridge)	29° 45.8'	85° 02.0'	+0 28	+0 35	*0.85	*0.83	0.97	1.39	0.81
4119	Lower Anchorage	29° 36'	85° 03'	-0 17	-0 35	*0.93	*1.00	--	1.5	0.8
4121	West Pass	29° 38'	85° 06'	-0 27	-0 27	*0.87	*1.00	--	1.4	0.7
				on Pensacola, p.200						
4123	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
	Time meridian, 90° W									
	<i>St. Andrew Bay</i>									
4125	Channel entrance †	30° 07.5'	85° 43.8'	-1 39	-1 50	*1.02	*1.02	1.20	1.29	0.67
4127	Panama City †	30° 09.1'	85° 40.0'	-0 57	-1 11	*1.05	*1.66	1.25	1.34	0.7
4129	Panama City Beach (outside) †	30° 12.8'	85° 52.7'	-2 17	-2 44	*1.05	*1.05	1.22	1.37	0.68
4131	Parker †	30° 08'	85° 37'	-0 05	+0 22	*1.20	*1.20	--	1.5	0.7
4133	Laird Bayou, East Bay †	30° 07.3'	85° 32.7'	-0 28	-1 05	*1.13	*1.13	1.28	1.47	0.75
4135	Farmdale, East Bay †	30° 01.0'	85° 28.2'	-0 16	-0 59	*1.17	*1.17	1.31	1.56	0.78
4137	Allanton, East Bay †	30° 01.8'	85° 27.9'	-0 16	-1 01	*1.15	*1.15	1.30	1.53	0.76
4139	Wetappo Creek, East Bay †	30° 02'	85° 24'	+1 01	+1 40	*1.10	*1.10	--	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			
	FLORIDA Gulf Coast—cont. Time meridian, 90° W	North	West	h	m	h	m	ft	ft	ft
				on Pensacola, p.200						
	<i>St. Andrew Bay—cont.</i>									
4141	Alligator Bayou †	30° 10.2'	85° 45.3'	-0 47	-1 10	*1.07	*1.07	1.25	1.37	0.68
4143	Lynn Haven, North Bay †	30° 15.3'	85° 38.9'	-0 31	-1 01	*1.10	*1.10	1.25	1.47	0.73
4145	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
	<i>Choctawhatchee Bay <11></i>									
4147	East Pass (Destin)	30° 23.7'	86° 30.8'	-0 33	-0 34	*0.49	*0.33	0.59	0.61	0.31
4149	Shalimar, Garnier Bayou †	30° 26.1'	86° 35.2'	+3 33	+3 03	*0.32	*0.32	0.36	0.41	0.21
4151	Harris, The Narrows †	30° 24'	86° 44'	+1 37	+2 51	*1.10	*1.10	--	1.4	0.7
4153	Navarre Beach	30° 22.6'	86° 51.9'	-2 07	-2 26	*1.07	*1.67	1.26	1.38	0.69
4155	Fishing Bend, Santa Rosa Sound †	30° 20'	87° 08'	+0 41	+0 51	*1.10	*1.10	--	1.4	0.7
	<i>Pensacola Bay</i>									
4157	Entrance †	30° 20'	87° 19'	-1 23	-0 34	*0.80	*0.80	--	1.1	0.5
4159	Warrington, 2 miles south of †	30° 21'	87° 16'	-0 27	-0 30	*1.00	*1.00	--	1.3	0.6
4161	PENSACOLA †	30° 24.2'	87° 13.8'					1.20	1.26	0.63
4163	Lora Point, Escambia Bay †	30° 31'	87° 10'	+0 36	+1 03	*1.20	*1.20	--	1.5	0.7
4165	East Bay †	30° 27'	86° 55'	+0 44	+1 17	*1.20	*1.20	--	1.6	0.8
4167	Bay Point, Blackwater River †	30° 34'	87° 00'	+1 23	+1 27	*1.20	*1.20	--	1.6	0.8
4169	Milton, Blackwater River †	30° 37'	87° 02'	+1 40	+1 47	*1.20	*1.20	--	1.6	0.8
4171	Nix Point, Perdido Bay †	30° 23.6'	87° 25.5'	+2 29	+3 37	*0.57	*0.33	0.69	0.71	0.35
	ALABAMA									
				on Mobile, p.208						
4173	Perdido Bay <11>	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --
4175	Mobile Point (Fort Morgan) †	30° 14'	88° 01'	-1 46	-1 32	*0.80	*0.80	--	1.2	0.6
4177	DAUPHIN ISLAND †	30° 15.0'	88° 04.5'					1.18	1.20	0.60
4179	Bon Secour, Bon Secour River †	30° 18'	87° 44'	-1 13	-1 17	*1.07	*1.07	--	1.6	0.8
4181	Fowl River, Mobile Bay Entrance †	30° 26'	88° 07'	-0 19	-0 09	*1.00	*1.00	--	1.5	0.8
4183	Great Point Clear, Mobile Bay †	30° 29'	87° 56'	-1 03	-0 57	*0.93	*0.93	--	1.4	0.7
4185	MOBILE, Mobile River (State Dock) †	30° 42.3'	88° 02.4'					--	1.5	0.8
4187	Lower Hall Landing, Tensaw River †	30° 49'	87° 55'	+2 16	+3 05	*0.87	*0.87	--	1.3	0.6
				on South Pass, p.212						
4189	Bayou La Batre, Mississippi Sound †	30° 22'	88° 16'	+1 52	+1 14	*1.23	*1.23	--	1.5	0.8
	MISSISSIPPI									
4191	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
4193	Hollingsworth Point, Davis Bayou †	30° 23.2'	88° 46.4'	+2 24	+1 52	*1.42	*1.42	1.59	1.80	0.91
4195	Ship Island, Mississippi Sound †	30° 12.8'	88° 58.3'	+1 52	+1 22	*1.30	*1.30	1.44	1.68	0.84
4197	Horn Island, Mississippi Sound †	30° 14.3'	88° 40.0'	+1 34	+0 59	*1.25	*1.25	1.38	1.60	0.81
4199	Pascagoula, Mississippi Sound †	30° 20.4'	88° 32.0'	+1 20	+0 48	*1.21	*1.21	1.37	1.53	0.86
4201	Gulfport Harbor, Mississippi Sound †	30° 21.6'	89° 04.9'	+2 09	+1 09	*1.29	*1.29	1.38	1.64	0.86
4203	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
4205	Turkey Creek, Bernard Bayou †	30° 25.6'	89° 03.2'	+3 23	+2 27	*1.54	*1.54	1.65	2.00	1.02
4207	Cat Island †	30° 13.9'	89° 07.0'	+2 13	+2 00	*1.23	*1.23	1.39	1.57	0.78
4209	Pass Christian Yacht Club, Mississippi Sound †	30° 18.6'	89° 14.7'	+2 36	+2 04	*1.37	*1.37	1.53	1.73	0.87
4211	Wolf River, Henderson Avenue bridge	30° 21.5'	89° 16.4'	+3 18	+2 51	*1.36	*1.36	1.47	1.80	0.90
4213	St. Louis Bay entrance †	30° 19.5'	89° 19.5'	+3 17	+2 57	*1.36	*1.36	1.52	1.73	0.87
4215	Waveland †	30° 16.9'	89° 22.0'	+3 09	+2 49	*1.28	*1.28	1.44	1.60	0.81
4217	Pearlington, Pearl River †	30° 14.4'	89° 36.9'	+5 51	+5 31	*0.99	*0.99	1.15	1.23	0.62
	LOUISIANA									
4219	Bayou BonFouca, Route 433 †	30° 16.3'	89° 47.6'	+11 12	+11 31	*0.43	*0.43	0.53	0.53	0.26
4221	Tchefuncta River, Lake Pontchartrain	30° 22.7'	90° 09.6'	+11 36	+12 21	*0.48	*0.48	0.57	0.57	0.28
4223	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
4225	Chef Menteur, Chef Menteur Pass †	30° 03.9'	89° 48.0'	+6 25	+6 27	*0.88	*0.88	0.97	1.06	0.56
4227	Michoud Substation, ICWW †	30° 00.4'	89° 56.2'	+6 37	+6 22	*1.09	*1.09	1.23	1.39	0.70
4229	Shell Beach, Lake Borgne †	29° 52.1'	89° 40.4'	+5 45	+5 45	*1.13	*1.13	1.28	1.41	0.72
4231	Grand Pass †	30° 07.6'	89° 13.3'	+3 01	+2 36	*1.18	*1.18	1.14	1.47	0.73
4233	Chandeleur Light †	30° 03'	88° 52'	+1 50	+1 54	*0.98	*0.98	--	1.2	0.6
4235	Comfort Island †	29° 49.4'	89° 16.2'	+2 47	+2 14	*1.28	*1.28	1.45	1.57	0.80
4237	Bay Gardene †	29° 35.9'	89° 37.1'	+4 04	+4 04	*1.16	*1.16	1.34	1.44	0.75
4239	Breton Islands †	29° 29.6'	89° 10.4'	+2 07	+2 08	*1.14	*1.14	1.37	1.37	0.69
4241	Jack Bay †	29° 22.0'	89° 20.7'	+3 12	+2 48	*1.00	*1.00	--	1.2	0.6
4243	Grand Bay †	29° 23.1'	89° 22.8'	+2 54	+2 56	*1.08	*1.08	1.25	1.34	0.67
4245	Lonesome Bayou (Thomasin) †	29° 14'	89° 03'	+0 34	-0 29	*0.90	*0.90	--	1.1	0.5
	<i>Mississippi River</i>									
4247	North Pass, Pass a Loutre †	29° 12.3'	89° 02.2'	+0 42	+0 43	*0.91	*0.91	1.08	1.10	0.55
4249	Southeast Pass †	29° 07.0'	89° 02.7'	+0 37	-0 28	*0.98	*0.98	--	1.2	0.6
4251	SOUTH PASS †	28° 59.4'	89° 08.4'					1.18	1.22	0.61
4253	Port Eads, South Pass †	29° 00.9'	89° 09.6'	+0 56	-0 17	*0.90	*0.90	--	1.1	0.5
4255	Southwest Pass †	28° 55.9'	89° 25.7'	+0 35	-0 13	*1.07	*1.07	--	1.3	0.6
4257	Joseph Bayou †	29° 03.5'	89° 16.3'	+0 37	-0 17	*1.15	*1.15	--	1.4	0.7
4259	New Orleans <12> †	29° 55'	90° 04'	-- --	-- --	-- --	-- --	-- --	-- --	-- --
				on Grand Isle, p.216						
4261	Paris Road Bridge (ICWW) †	30° 00'	89° 56'	+5 53	+5 58	*1.04	*1.04	--	1.1	0.6
4263	Empire Jetty †	29° 15.0'	89° 36.5'	-1 03	-1 45	*1.23	*1.23	--	1.3	0.7
4265	Bastian Island †	29° 17.2'	89° 39.8'	+0 41	+0 12	*1.13	*1.13	--	1.2	0.6
4267	Quatre Bayous Pass †	29° 18.6'	89° 51.2'	+2 18	+0 17	*1.23	*1.23	--	1.3	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	Diurnal	
				High Water	Low Water	High Water	Low Water			
	LOUISIANA—cont. Time meridian, 90° W	North	West	h	m	h	m	ft	ft	ft
				on Grand Isle, p.216						
4269	Barataria Pass †	29° 16'	89° 57'	+1 00	-0 10	*1.13	*1.13	--	1.2	0.6
	<i>Barataria Bay</i>									
4271	EAST POINT, GRAND ISLE	29° 15.8'	89° 57.4'	<i>Daily predictions</i>				1.04	1.06	0.53
4273	Bayou Rigaud, Grand Isle †	29° 16'	89° 58'	+1 32	+0 46	*0.94	*0.94	--	1.0	0.5
4275	Independence Island †	29° 18.6'	89° 56.3'	+2 29	+1 59	*0.85	*0.85	--	0.9	0.4
4277	Manilla †	29° 25.6'	89° 58.6'	+2 32	+3 13	*0.94	*0.94	--	1.0	0.5
4279	Caminada Pass (bridge) †	29° 12.6'	90° 02.4'	+0 20	+0 12	*0.94	*0.94	0.99	0.99	0.50
4281	Timbalier Island, Timbalier Bay †	29° 05'	90° 32'	+0 19	+0 23	*1.13	*1.13	--	1.2	0.6
4283	Pelican Islands, Timbalier Bay †	29° 07.7'	90° 25.4'	+2 26	+2 26	*1.13	*1.13	--	1.2	0.6
4285	Wine Island, Terrebonne Bay †	29° 04.7'	90° 37.1'	+1 08	+1 02	*1.23	*1.23	--	1.3	0.6
4287	Cocodrie, Terrebonne Bay †	29° 14.7'	90° 39.7'	+1 22	+1 33	*0.98	*0.98	1.01	1.05	0.53
4289	Caillou Boca †	29° 03.8'	90° 48.4'	+0 40	+0 48	*1.32	*1.32	--	1.4	0.7
4291	Raccoon Point, Caillou Bay †	29° 03.5'	90° 57.7'	-0 03	-0 20	*1.60	*1.60	--	1.7	0.8
4293	Ship Shoal Light †	28° 55'	91° 04'	-1 54	-1 50	*1.51	*1.51	--	1.6	0.8
				on Galveston, p.220						
4295	Eugene Island †	29° 22'	91° 23'	-0 25	-2 03	*1.40	*1.40	--	1.9	1.0
4297	Point Au Fer †	29° 20'	91° 21'	-0 21	-2 26	*1.40	*1.40	--	2.0	1.0
4299	Shell Island †	29° 28'	91° 18'	+0 54	-0 39	*1.07	*1.07	--	1.5	0.7
4301	Point Chevreuil †	29° 31'	91° 33'	+1 02	-0 54	*1.07	*1.07	--	1.5	0.8
4303	Rabbit Island, 5 miles south of †	29° 25'	91° 36'	-0 13	-2 00	*1.40	*1.40	--	2.0	1.0
4305	South Point, Marsh Island †	29° 29'	91° 46'	-0 19	-1 57	*1.30	*1.30	--	1.8	0.9
4307	Lighthouse Point †	29° 31'	92° 03'	-1 16	-2 17	*1.40	*1.40	--	2.0	1.0
4309	Cote Blanche Island, West Cote Blanche Bay †	29° 44'	91° 43'	+2 19	+2 16	*1.00	*1.00	--	1.4	0.7
4311	Southwest Pass, Vermilion Bay †	29° 35'	92° 02'	-0 32	-0 33	*1.14	*1.14	--	1.6	0.8
4313	Weeks Bay, Vermilion Bay †	29° 48'	91° 50'	+1 44	+2 32	*1.07	*1.07	--	1.5	0.7
4315	Mermentau River entrance †	29° 45'	93° 06'	-1 54	-0 59	*1.79	*1.79	--	2.5	1.2
4317	Calcasieu Pass, Lighthouse wharf †	29° 47'	93° 21'	-2 14	-1 24	*1.43	*1.43	--	2.0	1.0
	TEXAS									
4319	Sabine Bank Lighthouse †	29° 28'	93° 43'	-1 46	-1 31	*2.00	*2.00	--	2.8	1.4
4321	Sabine Pass (jetty) †	29° 39'	93° 50'	-1 26	-1 31	*1.79	*1.79	--	2.5	1.2
4323	Sabine Pass †	29° 43.8'	93° 52.2'	-1 18	-0 38	*1.14	*1.14	1.09	1.60	0.96
4325	Mesquite Point, Sabine Pass †	29° 46'	93° 54'	-0 04	-0 25	*0.93	*0.93	--	1.3	0.6
4327	Galveston Bay entrance, south jetty †	29° 20'	94° 42'	-0 39	-1 05	*1.43	*1.43	--	2.0	1.0
4329	GALVESTON, Galveston Channel †	29° 18.6'	94° 47.6'	<i>Daily predictions</i>				1.02	1.41	0.81
	<i>Galveston Bay</i>									
4331	Port Bolivar †	29° 21.9'	94° 46.8'	+0 57	+0 09	*1.00	*0.63	1.13	1.40	0.85
4333	Texas City, Turning Basin †	29° 23'	94° 53'	+0 33	+0 41	*1.00	*1.00	--	1.4	0.7
4335	Eagle Point <20> †	29° 28.8'	94° 55.1'	+5 34	+2 38	*0.80	*0.80	1.01	1.09	0.60
4337	Clear Lake <20> †	29° 33.8'	95° 04.0'	+6 57	+5 19	*0.83	*0.83	1.05	1.16	0.63
4339	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
4341	Lynchburg Landing, San Jacinto River <20> †	29° 45.9'	95° 04.7'	+4 55	+4 51	*1.05	*0.57	1.21	1.48	0.78
4343	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
4345	Round Point, Trinity Bay <20> †	29° 44'	94° 42'	+10 39	+5 15	*0.71	*0.71	--	1.0	0.5
4347	Point Barrow, Trinity Bay †	29° 44'	94° 50'	+5 48	+4 43	*0.79	*0.79	--	1.1	0.5
4349	Gilchrist, East Bay †	29° 31'	94° 29'	+3 16	+4 18	*0.86	*0.86	--	1.2	0.6
4351	Jamaica Beach, West Bay †	29° 12'	94° 59'	+2 38	+3 31	*0.71	*0.71	--	1.0	0.5
4353	Alligator Point, West Bay †	29° 10'	95° 08'	+2 39	+2 33	*0.64	*0.64	--	0.9	0.4
4355	Christmas Bay †	29° 02.5'	95° 10.5'	+4 47	+2 37	*0.58	*0.23	0.71	0.82	0.42
4357	Galveston Pleasure Pier †	29° 17.1'	94° 47.3'	-1 33	-1 03	*1.40	*1.30	1.46	2.04	1.12
4359	San Luis Pass †	29° 05'	95° 07'	-0 09	-0 09	*0.86	*0.86	--	1.2	0.6
4361	Freeport Harbor †	28° 56.9'	95° 18.5'	-1 17	-1 08	*1.23	*0.90	1.35	1.76	0.95
4363	PORT O'CONNOR, MATAGORDA BAY †	28° 27'	96° 24'	<i>Daily predictions, p.224</i>				--	0.5	0.2
4365	Port Lavaca, Matagorda Bay †	28° 37'	96° 37'	--	--	--	--	--	0.7	0.3
4367	Rockport, Aransas Bay †	28° 01.3'	97° 02.8'	--	--	--	--	0.36	0.36	0.18
4369	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
4371	Corpus Christi †	27° 34.8'	97° 13.0'	-1 09	-1 30	*1.17	*0.73	1.31	1.63	0.93
4373	Riviera Beach, Baffin Bay †	27° 17'	97° 40'	--	--	--	--	--	0.3	0.1
				on Padre Island, p.228						
4375	PADRE ISLAND (south end) †	26° 04.1'	97° 09.4'	<i>Daily predictions</i>				1.25	1.47	0.87
4377	Queen Isabella Causeway (east end) †	26° 04.7'	97° 10.2'	+0 24	+0 21	*0.87	*0.75	1.11	1.28	0.68
4379	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
4381	Port Isabel †	26° 03.6'	97° 12.9'	+0 10	+0 26	*0.92	*1.00	1.15	1.37	0.74
4383	South Bay entrance †	26° 03.1'	97° 10.9'	+0 14	+0 21	*0.91	*0.94	1.14	1.35	0.72
	MEXICO <13> Gulf of Mexico			on Tampico Harbor, p.232						
4385	Matamoros †	25° 53'	97° 31'	+0 55	+0 40	*1.00	*1.00	--	1.4	0.7
4387	TAMPICO HARBOR (Madero) †	22° 13'	97° 51'	<i>Daily predictions</i>				--	1.4	0.7
4389	Tuxpan †	21° 00'	97° 20'	+0 02	+0 04	*1.21	*1.21	--	1.7	0.8
4391	Veracruz †	19° 12'	96° 08'	-0 19	-0 12	*1.21	*1.21	--	1.7	0.8
4393	Alvarado †	18° 46'	95° 46'	+0 51	+0 27	*0.93	*0.93	--	1.3	0.6
4395	Coatzacoalcos †	18° 09'	94° 25'	-0 40	+0 05	*1.07	*1.07	--	1.5	0.7
4397	Frontera †	18° 32'	92° 39'	-0 18	-0 27	*1.14	*1.14	--	1.6	0.8
4399	Progreso †	21° 18'	89° 40'	+1 19	+0 23	*1.29	*1.29	--	1.8	0.9

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	Diurnal	
				High Water	Low Water	High Water	Low Water			
	BELIZE Time meridian, 90° W	North	West	h m	h m	ft	ft	ft	ft	ft
				on Key West, p.176						
4401	Belize City	17° 30'	88° 11'	+0 14	+0 47	*0.46	*0.46	0.6	0.7	0.4
4403	Punta Gorda	16° 06'	88° 49'	-0 27	+0 30	*0.46	*0.46	0.6	0.8	0.4
	GUATEMALA <13>									
4405	Rio Dulce entrance	15° 50'	88° 49'	-1 25	-1 35	*0.92	*0.92	1.2	1.5	0.7
	HONDURAS <13>									
4407	Puerto Cortes	15° 50'	87° 57'	-0 43	-0 02	*0.38	*0.38	0.5	0.6	0.2
4409	Port Royal, Isla de Roatan	16° 24'	86° 20'	-2 41	-2 35	*0.92	*0.92	1.2	1.4	0.6
4411	Puerto Castilla	16° 00'	86° 02'	-0 48	-0 13	*0.46	*0.46	0.6	0.8	0.4
4413	Isla de Guanaja	16° 29'	85° 54'	-1 26	-1 42	*0.72	*0.72	1.0	1.3	0.6
4415	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						
4417	Cabo Gracias a Dios	15° 00'	83° 10'	+0 23	-0 32	*0.57	*0.57	1.2	1.6	0.8
4419	Puerto Cabezas	14° 01'	83° 23'	+3 05	+3 11	*0.56	*0.56	1.4	1.9	0.9
4421	Cayos de Perlas	12° 25'	83° 25'	+4 53	+4 33	*0.46	*0.46	0.9	1.3	0.6
4423	Isla del Maiz Grande	12° 10'	83° 03'	+4 38	+4 13	*0.46	*0.46	0.9	1.3	0.3
4425	Bluefields Lagoon entrance	12° 00'	83° 42'	+3 54	+3 27	*0.28	*0.28	0.7	1.0	0.4
4427	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.236						
4429	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									
4431	Bocas del Toro, Almirante Bay	9° 21'	82° 15'	+0 21	+0 24	*1.14	*1.14	0.8	1.2	0.6
4433	CRISTOBAL	9° 21'	79° 55'			<i>Daily Predictions</i>		0.7	1.1	0.4
4435	Bahia de Caledonia	8° 54'	77° 41'	+0 12	+0 00	*1.00	*1.00	0.7	1.1	0.4
	BERMUDA ISLANDS Time meridian, 60° W							Mean	Spring	
				on Bermuda Esso Pier, p.240						
4437	Ireland Island	32° 19'	64° 50'	+0 11	+0 13	*1.07	*1.23	2.6	3.1	1.6
4439	Ferry Reach (Biological Station)	32° 22.2'	64° 41.7'	-0 04	+0 03	*0.93	*1.00	2.4	2.9	1.3
4441	ESSO PIER, ST. GEORGES ISLAND	32° 22.4'	64° 42.2'			<i>Daily Predictions</i>		2.5	3.0	1.3
	BAHAMAS Time meridian, 75° W									
				on Settlement Point, p.244						
4443	Guinchos Cay	22° 45'	78° 07'	+0 06	+0 16	*0.79	*1.11	2.1	2.6	1.2
4445	Elbow Cay, Cay Sal Bank	23° 57'	80° 28'	+1 18	+1 28	*0.79	*1.11	2.1	2.6	1.2
4447	Fresh Creek, Andros Island	24° 44'	77° 48'	+0 05	-0 08	*0.97	*1.11	2.4	2.9	1.3
4449	North Cat Cay	25° 33'	79° 17'	+0 22	+0 32	*0.86	*1.11	2.3	2.8	1.3
4451	North Bimini	25° 44'	79° 18'	+0 05	+0 22	*0.90	*1.11	2.4	2.9	1.3
4453	Memory Rock	26° 57'	79° 07'	+0 16	+0 26	*0.86	*1.11	2.3	2.7	1.3
4455	SETTLEMENT POINT, GRAND BAHAMAS ISLAND	26° 42.6'	78° 59.8'			<i>Daily predictions</i>		2.7	3.1	1.4
4457	Pelican Harbor	26° 23'	76° 58'	+0 18	+0 28	*0.97	*1.11	2.6	3.1	1.4
4459	Nassau, New Providence Island	25° 05'	77° 21'	-0 08	-0 03	*0.98	*1.44	2.6	3.1	1.9
4461	Eleuthera Island, west coast	25° 15'	76° 19'	+2 09	2 33	*0.94	*1.11	2.4	2.9	1.3
4463	Eleuthera Island, east coast	24° 56'	76° 09'	+0 11	+0 23	*0.82	*1.11	2.2	2.6	1.2
4465	The Bight, Cat Island	24° 19'	75° 26'	-0 37	-0 27	*0.97	*1.11	2.6	3.1	1.4
4467	San Salvador	24° 03'	74° 33'	-0 08	-0 06	*0.86	*1.11	2.3	2.8	1.3
4469	Clarence Harbor, Long Island	23° 06'	74° 59'	+0 41	+0 51	*0.97	*1.11	2.6	3.1	1.4
4471	Nurse Channel	22° 31'	75° 51'	+0 00	+0 10	*0.79	*1.11	2.1	2.6	1.1
4473	Datum Bay, Acklin Island	22° 10'	74° 18'	-0 21	-0 11	*0.75	*1.11	2.0	2.6	1.1
4475	Mathew Town, Great Inagua Island	20° 57'	73° 41'	+0 08	+0 28	*0.79	*1.11	2.1	2.6	1.2
4477	Abraham Bay, Mayaguana Island	22° 22'	73° 00'	+0 02	-0 10	*0.79	*1.11	2.0	2.5	1.1
4479	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						
4481	La Isabela	22° 56'	80° 00'	+0 20	+0 16	*0.64	*0.64	1.6	2.0	0.9
4483	Bahia de Nuevitas entrance	21° 38'	77° 07'	-0 05	-0 46	*0.52	*0.52	1.3	1.5	0.7
4485	Nuevitas, Bahia de Nuevitas	21° 35'	77° 15'	+1 32	+1 33	*0.56	*0.56	1.4	1.6	0.7
4487	Puerto Padre	21° 14'	76° 33'	-0 05	-0 10	*0.84	*0.84	2.1	2.4	1.1
4489	Puerto de Gibara	21° 07'	76° 07'	-1 06	-1 03	*0.76	*0.76	1.9	2.2	1.0
4491	Bahia de Nipe entrance	20° 47'	75° 34'	-0 55	-1 01	*0.81	*0.81	2.0	2.3	1.1
4493	Antilla, Bahia de Nipe	20° 50'	75° 44'	-0 37	-0 44	*0.89	*0.89	2.2	2.5	1.2
4495	Bahia de Levisa entrance	20° 45'	75° 28'	-1 03	-1 07	*0.77	*0.77	1.9	2.2	1.0
4497	Sagua de Tanamo, Bahia de	20° 43'	75° 19'	-1 00	-1 08	*0.76	*0.76	1.9	2.2	1.0
4499	Baracoa	20° 21'	74° 30'	-1 14	-1 18	*0.68	*0.68	1.7	2.0	0.9
4501	Punta Maisi	20° 15'	74° 08'	-1 16	-1 20	*0.88	*0.88	2.2	2.8	1.2

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	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.252						
4503	Guantanamo Bay	19° 54'	75° 09'	-0 17	-0 23	*0.89	*0.89	--	1.4	0.7
4505	Puerto de Santiago de Cuba	19° 59'	75° 52'	+0 30	+0 17	*0.89	*0.89	--	1.4	0.7
4507	Puerto de Pilon	19° 54'	77° 19'	+0 11	+0 13	*0.72	*0.72	--	1.2	0.6
4509	Manzanillo, Golfo de Guacanayabo	20° 21'	77° 07'	+1 41	+1 38	+1.39	+1.39	--	2.2	1.1
4511	Casilda	21° 45'	79° 59'	+1 04	+0 52	*0.65	*0.65	--	1.0	0.5
	<i>Bahia de Cienfuegos</i>									
4513	Punta Pasacaballos	22° 04'	80° 27'	+0 49	+0 58	*0.80	*0.80	--	1.3	0.6
4515	Cienfuegos	22° 08'	80° 27'	+0 51	+0 58	*0.81	*0.81	--	1.3	0.6
4517	Carapachibey, Isla de Pinos	21° 27'	82° 55'	+0 43	+0 52	*0.54	*0.54	--	0.9	0.4
4519	La Coloma	22° 14'	83° 34'	+2 04	+2 23	*0.54	*0.54	--	0.9	0.4
4521	Cabo San Antonio	21° 52'	84° 58'	-0 50	-0 07	*0.92	*0.92	1.2	1.5	0.8
				on Key West, p.176						
								Mean Spring		
4523	Bahia Honda	22° 58'	83° 13'	-1 04	-0 23	*0.76	*0.76	1.0	1.4	0.7
4525	Havana	23° 09'	82° 20'	-0 48	-0 40	*0.76	*0.76	1.0	1.2	0.6
4527	Matanzas	23° 04'	81° 32'	-0 59	-0 59	*0.92	*0.92	1.2	1.5	0.8
4529	Cardenas	23° 04'	81° 12'	-0 11	+0 34	*1.08	*1.08	1.4	1.8	1.0
	JAMAICA			on Galveston, p.220						
								Mean Diurnal		
4531	Port Morant	17° 53'	76° 20'	-7 45	-7 45	*0.57	*0.57	--	0.8	0.4
4533	Port Royal †	17° 56'	76° 51'	-7 07	-8 14	*0.50	*0.50	--	0.7	0.3
4535	Galleon Harbour	17° 54'	77° 04'	--	--	--	--	--	0.8	0.4
4537	South Negril Point †	18° 18'	78° 24'	-2 47	-2 47	*1.21	*1.21	--	1.7	0.8
4539	Montego Bay	18° 28'	77° 55'	-6 44	-6 40	*0.71	*0.71	--	1.0	0.5
4541	St. Anns Bay	18° 25'	77° 14'	-7 17	-7 17	*0.57	*0.57	--	0.8	0.4
4543	Grand Cayman †	19° 20'	81° 20'	-8 01	-8 01	*0.93	*0.93	--	1.3	0.6
	HAITI and DOMINICAN REPUBLIC			on San Juan, p.252						
4545	Port-au-Prince	18° 33'	72° 21'	-0 35	-0 38	*0.99	*0.99	--	1.6	0.8
4547	Massacre, Riviere du entrance	19° 43'	71° 46'	-1 04	-1 07	*1.44	*1.44	--	2.3	1.2
4549	Puerto Plata	19° 49'	70° 42'	-1 12	-1 20	*1.44	*1.44	--	2.3	1.2
4551	Santa Barbara de Samana	19° 12'	69° 20'	-0 54	-0 53	*1.25	*1.25	--	2.0	1.0
4553	Sanchez	19° 13'	69° 36'	-0 40	-0 43	*2.05	*2.05	--	3.3	1.6
				on Galveston, p.220						
4555	Saona, Isla †	18° 10'	68° 40'	--	--	--	--	--	0.6	0.3
4557	La Romana †	18° 25'	68° 57'	--	--	--	--	--	0.6	--
4559	Santo Domingo †	18° 27'	69° 53'	-6 28	-11 01	*0.57	*0.57	--	0.8	0.4
4561	Barahona †	18° 12'	71° 05'	--	--	--	--	--	0.7	0.3
4563	Jacmel †	18° 13'	72° 34'	-10 00	-10 00	*1.43	*1.43	--	2.0	1.0
	PUERTO RICO Time meridian, 60° W			on Magueyes, p.248						
4565	MAGUEYES ISLAND †	17° 58.3'	67° 02.8'			<i>Daily predictions</i>		0.65	0.67	0.34
4567	Guanica †	17° 58'	66° 55'	-1 22	+0 18	*1.00	*1.00	--	0.7	0.3
4569	Playa de Ponce †	17° 58'	66° 37'	-0 39	-0 13	*1.14	*1.14	--	0.8	0.4
4571	Playa Cortada †	17° 59'	66° 27'	+0 16	-0 37	*1.14	*1.14	--	0.8	0.4
4573	Arroyo †	17° 58'	66° 04'	+0 52	+0 13	*1.14	*1.14	--	0.8	0.4
4575	Puerto Maunabo †	18° 00'	65° 53'	-0 56	+1 13	*1.00	*1.00	--	0.7	0.4
4577	Culebrita, Isla †	18° 19'	65° 14'	-2 34	+2 40	*1.57	*1.57	--	1.1	0.6
4579	Puerto Ferro, Isla de Vieques †	18° 06'	65° 26'	-2 26	+3 01	*1.14	*1.14	--	0.8	0.4
				on San Juan, p.252						
4581	Punta Mulas, Isla de Vieques	18° 09'	65° 26'	-0 14	-0 17	*0.72	*0.72	--	1.2	0.6
4583	Roosevelt Roads	18° 14'	65° 37'	+0 02	+0 20	*0.63	*0.63	--	1.0	0.5
4585	Ensenada Honda, Culebra Island	18° 18'	65° 17'	-0 34	-0 15	*0.63	*0.63	--	1.0	0.5
4587	Playa de Fajardo	18° 20'	65° 38'	-0 10	-0 13	*0.99	*0.99	--	1.6	0.8
4589	SAN JUAN	18° 27.5'	66° 07.0'			<i>Daily predictions</i>		1.10	1.58	0.76
4591	Mayaguez	18° 13.2'	67° 09.6'	-0 09	-0 11	*0.93	*0.76	1.06	1.40	0.69
4593	Puerto Real	18° 05'	67° 11'	-0 33	-0 26	*0.72	*0.72	--	1.2	0.6
	LESSER ANTILLES & VIRGIN ISLANDS			on Charlotte Amalie, p.256						
	<i>St. Thomas Island</i>									
4595	Magens Bay, St. Thomas Island †	18° 22'	64° 55'	-0 06	-0 17	*1.59	*1.59	1.0	1.4	0.7
4597	CHARLOTTE AMALIE, ST. THOMAS ISLAND †	18° 20.1'	64° 55.2'			<i>Daily predictions</i>		0.70	0.79	0.40
4599	Redhook Bay, St. Thomas Island †	18° 19.1'	64° 51.1'	-0 46	+0 44	*1.28	*1.28	0.82	1.09	0.54
				on Lime Tree Bay, p.260						
	<i>St. Croix Island</i>									
4601	Christiansted, St. Croix Island †	17° 45'	64° 42'	-2 43	+1 06	*1.07	*1.00	--	0.8	0.4
4603	LIME TREE BAY, ST. CROIX ISLAND †	17° 41.8'	64° 45.2'			<i>Daily predictions</i>		0.69	0.71	0.36
4605	St. Barthelemy †	17° 54'	62° 51'	-3 26	-1 11	*1.87	*1.00	--	1.4	0.7
4607	Pointe-a-Pitre, Guadeloupe	16° 14'	61° 32'	-4 28	-0 33	*3.24	*1.80	--	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			
	LESSER ANTILLES & VIRGIN ISLANDS--cont. Time meridian, 60° W	North	West	h m	h m	ft	ft	ft	ft	ft
				on Key West, p.176						
4609	Roseau, Dominica	15° 18'	61° 24'	-6 29	-6 05	*0.65	*0.65	0.7	1.2	0.6
4611	Fort-de-France, Martinique	14° 35'	61° 03'	-6 55	-6 18	*0.38	*0.38	0.5	--	0.5
4613	Castries, St. Lucia	14° 01'	61° 00'	-7 09	-7 05	*0.62	*0.62	0.8	1.2	0.6
4615	Vieux Fort Bay, St. Lucia	13° 44'	60° 58'	-6 02	-5 38	*0.69	*0.69	0.9	--	0.7
				on Cristobal, p.236						
4617	Kingstown, St. Vincent <15>	13° 10'	61° 13'	-7 09	-6 38	*1.53	*1.53	2.0	2.7	1.4
4619	Bridgetown, Barbados	13° 06'	59° 38'	-6 28	-5 47	*1.30	*1.30	1.7	2.1	1.0
4621	Grenada	12° 04'	61° 45'	-7 26	-6 51	*0.92	*0.92	1.2	1.5	0.8
4623	Scarborough, Tobago	11° 11'	60° 44'	-6 40	-6 22	*1.60	*1.60	2.1	2.7	1.4
4625	Schottegat, Curacao †	12° 07'	68° 56'	+0 25	+1 09	*0.82	*0.82	--	0.9	0.5
4627	St. Nicolaas Bay, Aruba †	12° 26'	69° 54'	--	--	--	--	--	0.8	0.4
	COLOMBIA <13> Time meridian, 75° W			on Hampton Roads, p.120						
4629	Isla de Providencia	13° 20'	81° 23'	+7 53	+7 53	*0.28	*0.28	0.7	1.1	0.4
				on Cristobal, p.236						
4631	Turbo	8° 10'	76° 45'	-0 49	-0 30	*1.43	*1.43	1.0	1.4	0.6
4633	Covenas	9° 20'	75° 40'	-1 06	-0 46	*1.14	*1.14	0.8	1.2	0.5
4635	Cartagena, Bahia de Cartagena	10° 24'	75° 33'	-1 16	-0 48	*1.00	*1.00	0.7	1.1	0.4
4637	Puerto Colombia	11° 00'	74° 58'	-0 52	-1 08	*1.29	*1.29	0.9	1.3	0.5
4639	Santa Marta	11° 18'	74° 12'	-1 19	-1 08	*1.00	*1.00	0.7	1.1	0.4
4641	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			on Isla Zapara, p.264				Mean Spring		
4643	ISLA ZAPARA, Lake Maracaibo	11° 00'	71° 35'	<i>Daily predictions</i>				2.8	3.0	2.7
4645	Bahia de Tablazos, Lake Maracaibo	10° 53'	71° 35'	+0 30	+0 11	*0.61	*0.31	2.1	2.3	1.5
4647	Punta de Palmas	10° 48'	71° 37'	+0 35	+0 16	*0.49	*0.31	1.6	1.8	1.2
				on Amuay, p.268				Mean Diurnal		
4649	AMUAY	11° 45'	70° 13'	<i>Daily predictions</i>				--	1.2	0.6
4651	La Guaira †	10° 36'	66° 56'	-2 29	-1 59	+0.8	+1.0	--	1.0	1.5
4653	Carenero †	10° 32'	66° 07'	-1 51	-1 59	+0.8	+1.0	--	1.0	1.5
4655	Cumana †	10° 28'	64° 11'	-2 37	-1 02	-0.1	0.0	--	1.1	0.5
4657	Portamar, Isla de Margarita †	10° 57'	63° 51'	-1 19	-0 59	+0.6	0.0	--	1.8	0.9
4659	Carupano †	10° 40'	63° 15'	-1 17	-0 42	+0.2	0.0	--	1.4	0.7
				on Punta Gorda, p.272				Mean Spring		
4661	Gulf of Paria Macuro	10° 39'	61° 56'	-1 15	-2 05	*0.38	*0.38	2.2	2.7	1.4
4663	Puerto de Hierro	10° 37'	62° 05'	-0 46	-1 19	*0.59	*0.59	3.3	4.2	2.0
4665	Barra de Maturin, channel entrance	10° 18'	62° 31'	-0 22	-0 45	-1.0	+0.2	4.6	5.7	2.8
4667	PUNTA GORDA, Rio San Juan	10° 10'	62° 38'	<i>Daily predictions</i>				5.8	7.1	3.2
4669	Boca Pedemales entrance	10° 01'	62° 12'	-0 03	-0 34	-1.3	+0.2	4.3	5.4	2.6
4671	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									
4673	Staubles Bay	10° 41'	61° 39'	-0 37	-1 32	(*0.33+1.7)		1.9	2.5	2.8
4675	Carenage Bay	10° 41'	61° 36'	-0 28	-1 10	(*0.34+1.6)		2.0	2.6	2.7
4677	Port of Spain	10° 39'	61° 31'	-0 14	-0 42	(*0.31+1.4)		1.8	2.3	2.4
4679	Bonasse pier	10° 05'	61° 52'	-0 13	-0 45	-1.0	+1.4	3.4	4.4	3.4
4681	Erin Bay	10° 04'	61° 39'	-0 20	-1 11	-0.3	+1.2	4.3	5.6	3.6
4683	Guayaguayare Bay	10° 09'	61° 01'	-1 02	-1 39	(*0.53+1.3)		3.1	3.8	3.0
4685	Nariva River	10° 24'	61° 02'	-0 36	-1 46	(*0.41+1.3)		2.4	3.1	2.5
	GUYANA Time meridian, 56° 15' W			on Suriname Rivier, p.276						
4687	Parika, Essequibo River	6° 52'	58° 25'	+0 07	+0 31	+1.6	+1.0	6.6	8.3	5.6
4689	Georgetown	6° 48'	58° 10'	-0 13	-0 29	+0.9	+1.1	5.8	8.0	5.3
	SURINAM Time meridian, 45° W									
4691	Nickerie River	5° 57'	56° 59'	+0 09	+0 21	+1.1	0.0	7.1	9.2	4.9
4693	SURINAME RIVIER ENTRANCE	6° 00'	55° 14'	<i>Daily predictions</i>				6.0	7.6	4.3
4695	Paramaribo, Suriname Rivier	5° 49'	55° 09'	+1 09	+1 42	0.0	0.0	6.0	7.3	4.3
	FRENCH GUIANA Time meridian, 60° W									
4697	Rio Maroni entrance	5° 45'	53° 58'	+0 18	+0 24	+0.7	+1.2	5.5	7.2	5.2
4699	Iles du Salut	5° 17'	52° 35'	-0 07	-0 07	+1.7	+2.2	5.5	7.2	6.2
4701	Cayenne	4° 56'	52° 20'	+0 15	+0 15	+2.4	+1.8	6.6	7.8	6.4

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			
		North	West	h m	h m	ft	ft	ft	ft	ft
	BRAZIL <16> Time meridian, 45° W			on Suriname Rivier, p.276						
4703	Cape Cassipore	3° 49'	51° 01'	+1 24	+1 19	+1.5	+0.3	7.2	9.5	5.2
4705	Rio Cunani entrance	2° 50'	50° 53'	+2 10	+2 24	(*2.42-0.2)		14.5	19.0	10.1
		South	West							
4707	Ilha de Maraca anchorage	2° 09'	50° 30'	+1 40	+1 52	(*2.42-0.2)		14.5	19.0	10.1
4709	Ilha do Brigue, Amazon River	0° 55'	50° 05'	+7 09	+7 40	+8.3	+1.1	13.2	15.7	9.0
4711	Ponta Pedreira, Amazon River	0° 11'	50° 43'	+6 31	+6 43	*2.08	*2.23	12.3	16.2	9.0
4713	Macapa, Amazon River	0° 03'	51° 11'	+10 57	+12 13	+2.8	+0.4	8.4	9.5	5.9
4715	Canal de Braganca, Rio Para entrance	0° 23'	47° 55'	+6 09	+6 09	+1.8	-0.1	7.9	10.4	5.1
4717	Salinopolis	0° 39'	47° 23'	+2 38	+2 52	*1.99	*1.54	12.5	15.9	8.3
4719	Belem (Para)	1° 27'	48° 30'	+6 34	+7 37	+2.9	+0.7	8.2	10.1	6.1
4721	Ilhas de Sao Joao	1° 17'	44° 55'	+1 31	+1 31	*1.70	*1.31	10.7	14.1	7.0
4723	Sao Luiz	2° 32'	44° 18'	+2 28	+2 25	(*2.35-0.7)		14.1	17.1	9.3
4725	Santana, Recifes de	2° 16'	43° 36'	+0 46	+0 45	*1.58	*1.15	10.0	13.1	6.5
4727	Tutoia, Baia da	2° 46'	42° 14'	+0 11	+0 10	+2.4	+0.4	8.0	10.0	5.7
4729	Luis Correia	2° 53'	41° 40'	+0 01	+0 13	+1.8	+0.4	7.4	9.4	5.4
4731	Camocim	2° 53'	40° 52'	+1 07	+1 06	+2.0	+0.4	7.6	9.7	5.5
4733	Rio Ceara (bar)	3° 41'	38° 37'	-0 13	-0 21	+0.2	-0.1	6.3	8.3	4.3
4735	Fortaleza	3° 43'	38° 29'	-0 08	-0 12	+0.2	-0.3	6.5	8.5	4.2
	Time meridian, 30° W			n Recife, p.280						
4737	Fernando de Noronha	3° 50'	32° 25'	+1 32	+1 33	-1.2	-0.5	4.5	6.0	2.9
4739	Rocas, Atol das	3° 51'	33° 49'	+1 43	+1 44	+2.3	0.0	7.5	10.0	4.9
	Time meridian, 45° W									
4741	Macau, Rio Acu	5° 06'	36° 41'	+1 29	+1 58	+0.6	-0.1	5.9	7.6	4.1
4743	Natal	5° 47'	35° 12'	+0 28	+0 30	+0.1	-0.2	5.5	7.3	3.7
4745	Cabedelo	6° 58'	34° 50'	+0 36	+0 37	+0.1	-0.2	5.5	7.2	3.7
4747	Tambau	7° 06'	34° 50'	-0 04	-0 03	+0.7	-0.1	6.0	7.6	4.1
4749	RECIFE	8° 03'	34° 52'	<i>Daily predictions</i>				5.3	7.1	3.8
4751	Maceio	9° 40'	35° 43'	+0 10	+0 14	-0.3	-0.2	5.1	6.8	3.6
4753	Rio Sao Francisco (bar)	10° 31'	36° 24'	+0 06	+0 14	-0.7	0.0	4.5	6.0	3.5
4755	Aracaju	10° 56'	37° 03'	+0 33	+0 48	-0.8	-0.3	4.7	6.1	3.3
4757	Salvador	12° 58'	38° 31'	-0 02	-0 08	+0.6	+0.4	5.5	7.4	4.3
4759	Ponta da Areia	12° 47'	38° 30'	+0 10	+0 06	+0.6	-0.1	5.9	7.6	4.0
4761	Morro de Sao Paulo	13° 21'	38° 54'	-0 11	-0 13	-0.6	0.0	4.6	6.0	3.5
4763	Camamu	13° 54'	38° 58'	-0 08	-0 04	-0.2	+0.1	4.9	6.5	3.8
4765	Ilheus	14° 48'	39° 02'	-0 33	-0 32	-0.9	-0.3	4.6	5.8	3.2
4767	Canavieiras	15° 40'	38° 56'	+0 16	+0 22	-1.0	-0.2	4.5	5.8	3.1
4769	Santa Cruz Cabralia	16° 17'	39° 02'	-0 35	-0 35	-1.2	-0.5	4.5	6.0	2.9
4771	Cumuruxatiba	17° 06'	39° 11'	-0 23	-0 09	+0.4	+0.3	5.3	7.2	4.2
4773	Caravelas	17° 43'	39° 09'	-0 50	-0 49	-0.8	-0.5	4.9	6.4	3.1
4775	Abrolhos Anchorage	17° 58'	38° 42'	-0 01	+0 04	+0.6	+0.1	5.7	7.6	4.2
4777	Vitoria	20° 19'	40° 19'	-0 34	-0 35	*0.66	*0.75	3.3	4.6	2.6
4779	Guarapari	20° 40'	40° 30'	+0 12	+0 17	*0.62	*0.75	3.1	4.2	2.5
				on Rio de Janeiro, p.284						
4781	Sao Joao da Barra	21° 38'	41° 03'	+0 34	-0 42	-0.1	-0.2	2.6	3.6	2.1
4783	Macaee (Imbitiba Bay)	22° 23'	41° 46'	-0 23	-1 08	0.0	-0.2	2.7	3.6	2.1
4785	Armacao dos Buzios	22° 45'	41° 53'	-0 01	-0 55	-0.1	-0.1	2.5	3.4	2.1
4787	Cabo Frio	23° 00'	42° 03'	-0 03	-0 05	*0.91	*0.90	2.3	3.2	2.0
4789	RIO DE JANEIRO	22° 54'	43° 10'	<i>Daily predictions</i>				2.5	3.5	2.2
4791	Itacurussa	22° 56'	43° 55'	+0 50	-0 26	0.0	-0.1	2.6	3.3	2.2
4793	Angra dos Reis	23° 01'	44° 19'	-0 35	-0 40	*0.86	*0.86	2.1	3.0	1.9
4795	Parati	23° 14'	44° 43'	-0 09	-1 25	-0.1	0.0	2.4	3.4	2.2
4797	Sao Sebastiao	23° 49'	45° 24'	-0 28	-1 24	*0.94	*1.00	2.3	3.3	2.2
4799	SANTOS	23° 57'	46° 19'	<i>Daily predictions, p.288</i>				2.6	3.8	2.4
4801	Cananea	25° 01'	47° 56'	+1 09	-1 09	+0.4	+0.2	2.7	4.1	2.6
4803	Paranagua	25° 31'	48° 27'	+1 51	-1 32	+1.8	+0.2	4.1	6.0	3.2
4805	Sao Francisco do Sul	26° 15'	48° 38'	+0 38	-	+0.8	-0.1	3.4	4.8	2.6
4807	Itajai	26° 54'	48° 39'	-0 08	-0 16	(*0.76+0.4)		1.9	2.8	2.1
4809	Porto Belo	27° 09'	48° 33'	-0 38	-0 28	*0.74	*0.74	1.8	2.5	1.7
4811	Florianopolis	27° 36'	48° 34'	-0 14	+0 15	*0.69	*0.70	1.7	2.4	1.6
4813	Imbituba	28° 14'	48° 39'	-0 17	-1 10	*0.54	*0.50	1.4	2.0	1.2
4815	Laguna	28° 30'	48° 47'	+1 10	-1 31	(*0.32+0.4)		0.8	1.2	1.1
4817	Barra do Rio Grande <18> †	32° 10'	52° 05'	-	-	-	-	-	0.8	0.3
	URUGUAY			on Buenos Aires, p.292						
4819	Montevideo	34° 55'	56° 13'	-5 10	-7 11	(*0.52+1.6)		1.1	1.4	3.0
4821	Colonia, Rio de la Plata	34° 28'	57° 51'	+0 17	-0 33	(*0.52+1.2)		1.1	1.3	2.6

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			
	ARGENTINA Time meridian, 45° W	South	West	h	m	h	m	ft	ft	ft
				on Buenos Aires, p.292						
	<i>Rio de la Plata</i>									
4823	BUENOS AIRES	34° 34'	58° 23'	<i>Daily predictions</i>				2.1	2.5	2.6
4825	La Plata	34° 50'	57° 53'	-1 50	-2 04	+0.2	+0.6	1.7	2.0	3.0
4827	Banco Chico	34° 50'	57° 30'	-3 00	-3 24	+0.8	+0.8	2.1	2.5	3.4
4829	Banco Cuirassier	35° 06'	57° 08'	-5 25	-5 39	+0.8	+0.8	2.1	2.5	3.4
4831	Punta Piedras	35° 26'	57° 07'	-7 10	-7 23	+2.2	+1.1	3.2	3.8	4.2
4833	Punta Norte del Cabo San Antonio <17>	36° 18'	56° 47'	-8 50	-9 26	+1.2	+0.3	3.0	3.7	3.3
4835	Mar del Plata <17>	38° 03'	57° 33'	-0 02	+0 14	+0.7	+0.2	2.6	3.0	3.0
4837	Quequen <17>	38° 35'	58° 42'	-0 18	-0 22	+1.5	-0.3	3.9	4.2	3.2
				on Puerto Ingeniero White, p.296						
4839	Faro Recalada	39° 00'	61° 16'	-0 48	-0 28	-4.9	-1.3	6.5	7.1	5.3
4841	Monte Hermoso	38° 59'	61° 41'	-0 46	-0 40	-3.4	-1.2	7.9	9.1	6.2
	<i>Bahia Blanca</i>									
4843	Punta Ancla	38° 57'	62° 00'	-0 57	-0 21	-1.9	-0.9	9.1	9.9	7.1
4845	Puerto Rosales	38° 55'	62° 04'	-0 28	-0 06	-0.5	-0.5	10.1	11.0	8.0
4847	Puerto Belgrano	38° 53'	62° 06'	-0 22	-0 07	-0.5	-0.3	9.9	11.0	8.0
4849	PUERTO INGENIERO WHITE	38° 47'	62° 16'	<i>Daily Predictions</i>				10.1	11.6	8.5
4851	General Daniel Cerri	38° 45'	62° 24'	+0 16	+0 20	+1.8	+0.1	11.8	12.9	9.4
4853	Canal del Sur, Isla Bermejo	39° 01'	61° 58'	-0 55	-0 24	-2.2	-0.9	8.8	9.6	6.9
4855	Canal Bermejo, Isla Trinidad	39° 05'	61° 58'	-0 57	-0 26	-2.7	-1.0	8.4	9.2	6.6
4857	Punta Lobos, Isla Trinidad	39° 11'	61° 52'	-0 58	-0 41	-3.3	-1.2	8.0	8.8	6.2
4859	El Chara (Punta Laberinto)	39° 26'	62° 03'	-1 19	-0 51	-2.9	-1.0	8.3	9.2	6.5
4861	Bahia Aneгада, Islote NW	40° 01'	62° 10'	-2 07	-2 00	(*0.63-0.6)	6.4	7.1	4.8	
4863	Bahia San Blas	40° 33'	62° 14'	-3 47	-3 41	*0.50 *0.35	5.6	6.0	4.0	
4865	Faro Segunda Barranca	40° 47'	62° 17'	-4 51	-4 40	(*0.53-0.5)	5.4	5.9	4.0	
4867	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.300						
4869	Caleta de los Loros	41° 02'	64° 06'	+7 14	+7 08	*1.45	*1.39	20.3	24.0	14.8
4871	Puerto San Antonio	40° 48'	64° 52'	+7 30	+7 23	(*1.57-1.6)	21.9	25.6	14.6	
	<i>Golfo San Jose</i>									
4873	San Roman	42° 15'	64° 14'	+7 15	+7 18	(*1.42-1.1)	19.8	23.4	13.5	
4875	Pueyrredon (Fondeadero)	42° 24'	64° 09'	+7 46	+7 40	(*1.52-2.2)	21.2	24.6	13.5	
4877	La Argentina (Fondeadero)	42° 23'	64° 34'	+7 04	+6 58	*1.31 *1.36	18.0	23.3	13.5	
4879	Punta Norte	42° 05'	63° 46'	+6 50	+6 44	-0.8	-1.4	14.5	17.0	9.5
4881	Caleta Valdes	42° 31'	63° 36'	+5 04	+4 58	-5.2	-1.9	10.6	12.4	6.7
4883	Punta Delgada	42° 46'	63° 38'	+4 08	+4 02	-5.8	-2.0	10.1	11.7	6.4
	<i>Golfo Nuevo</i>									
4885	Punta Ninfas (Fondeadero)	42° 57'	64° 25'	+2 48	+3 31	-2.3	-1.0	12.6	15.4	8.6
4887	Puerto Piramides	42° 35'	64° 17'	+2 56	+3 33	-2.7	-1.3	12.5	15.0	8.3
4889	Puerto Madryn	42° 46'	65° 02'	+3 08	+3 42	-0.8	-0.1	13.2	16.0	9.8
4891	Bahia Engano	43° 20'	65° 04'	+2 06	+2 00	-2.7	-1.3	12.5	15.2	8.2
4893	Isla Escondida	43° 43'	65° 17'	+2 10	+2 05	-3.3	-0.3	10.9	13.1	8.5
4895	Bahia Janssen	44° 02'	65° 14'	+1 48	+2 03	-4.1	-1.9	11.7	13.9	7.3
4897	Cabo Raso	44° 20'	65° 14'	+1 41	+1 26	-4.8	-1.6	10.7	12.4	7.0
4899	Bahia Cruz	44° 27'	65° 19'	+2 13	+2 07	-6.1	-2.1	9.9	11.5	6.2
4901	Santa Elena, Puerto	44° 31'	65° 22'	+1 45	+1 40	-3.1	-0.4	11.2	13.6	8.5
4903	Bahia Camarones	44° 54'	65° 36'	+1 10	+1 14	-2.3	+0.1	11.5	13.7	9.2
	<i>Golfo San Jorge</i>									
4905	Caleta Leones	45° 03'	65° 37'	+1 11	+1 05	-0.7	-0.2	13.4	14.7	9.8
4907	Bahia Gil (Caleta Horno)	45° 02'	65° 41'	+0 42	+0 36	-1.7	+0.3	11.9	14.1	9.6
4909	Puerto Melo	45° 01'	65° 50'	+0 27	+0 24	-1.5	+0.1	12.3	14.6	9.6
4911	Isla Tova	45° 06'	65° 59'	+0 27	+0 24	-1.5	+0.1	12.3	14.6	9.6
4913	Bahia Bustamante	45° 07'	66° 32'	+0 28	+0 23	-0.8	+0.7	12.4	14.7	10.2
4915	COMODORO RIVADAVIA	45° 52'	67° 29'	<i>Daily predictions</i>				14.0	16.3	10.3
4917	Cabo Blanco	47° 12'	65° 45'	-1 15	-1 20	-2.3	-0.3	11.9	13.2	9.0
4919	Puerto Deseado	47° 45'	65° 55'	-2 52	-2 44	-0.6	+1.0	12.4	14.5	10.5
4921	Bahia Oso Marino	47° 56'	65° 48'	-3 35	-3 40	-1.2	+1.2	11.5	14.1	10.3
4923	Bahia de los Nodales	48° 01'	65° 57'	-3 01	-3 06	-1.2	+0.1	12.6	15.3	9.7
4925	Bahia Laura	48° 23'	66° 29'	-5 28	-5 28	+6.7	-1.9	22.5	25.4	12.7
4927	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.304						
4929	Santa Cruz (Punta Quilla)	50° 07'	68° 25'	+0 43	+0 44	+0.2	+0.1	26.0	32.4	20.4
4931	Ria Coig	50° 57'	69° 10'	-0 05	-0 04	0.0	-0.7	26.6	32.2	19.9
4933	PUNTA LOYOLA	51° 36'	69° 01'	<i>Daily predictions</i>				25.9	32.4	20.3
4935	Rio Gallegos (Reduccion Beacon)	51° 37'	69° 13'	+0 21	+0 30	+4.2	+1.1	29.0	36.2	22.9
4937	Cabo Virgenes	52° 21'	68° 22'	-0 36	-0 55	-2.1	0.0	23.8	29.8	19.2
	<i>Tierra del Fuego <19></i>									
				on Comodoro Rivadavia, p.300						
4939	Bahia San Sebastian	53° 10'	68° 30'	-7 50	-7 55	*1.69	*1.91	22.8	28.6	17.7
4941	Rio Grande (Muelle)	53° 48'	67° 41'	-7 50	-7 55	*1.15	*1.18	15.8	19.2	11.8
4943	Cabo San Pablo	54° 17'	66° 42'	-8 48	-8 53	*1.17	*1.27	16.0	19.3	12.2
				on Puerto Ingeniero White, p.296						
4945	Bahia Thetis	54° 38'	65° 15'	+1 00	+1 07	-2.0	-0.6	8.7	10.6	7.2

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			
	SOUTH ATLANTIC OCEAN ISLANDS Time meridian, 60° W	South	West	h	m	h	m	ft	ft	ft
				on Pictou, p.8						
	<i>Falkland Islands</i>									
4947	Port Louis (Berkeley Sound)	51° 33'	58° 09'	+7 50	+7 47	-0.9	-1.0	3.3	4.2	3.0
4949	Stanley Harbor	51° 42'	57° 51'	+7 51	+7 48	-1.0	-1.0	3.2	4.2	2.9
	<i>South Georgia</i>									
4951	Royal Bay (Moltke Harbor)	54° 31'	36° 01'	+9 58	+10 19	*0.36	*0.13	1.7	2.3	1.2
4953	Leith Harbor	54° 08'	36° 41'	+9 15	+9 35	*0.64	*0.65	2.0	2.7	2.5
	Time meridian, local									
	<i>South Orkneys</i>									
4955	Scotia Bay, Laurie Island	60° 44'	44° 39'	+8 21	+8 32	-0.3	-0.6	3.5	5.0	3.5
	<i>South Shetlands</i>									
4957	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									
4959	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 309.
- <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 321.
- <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 Albermarle 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 Araguay, 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), New York, on a day when the predicted tides from table 1 are given as:

<i>Low Water</i>		<i>High Water</i>	
<i>Time</i>	<i>Height</i>	<i>Time</i>	<i>Height</i>
<i>h.m.</i>	<i>ft</i>	<i>h.m.</i>	<i>ft</i>
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:

<i>High Water</i>		<i>Low Water</i>	
<i>Time</i>	<i>Height</i>	<i>Time</i>	<i>Height</i>
<i>h.m.</i>	<i>ft</i>	<i>h.m.</i>	<i>ft</i>
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.

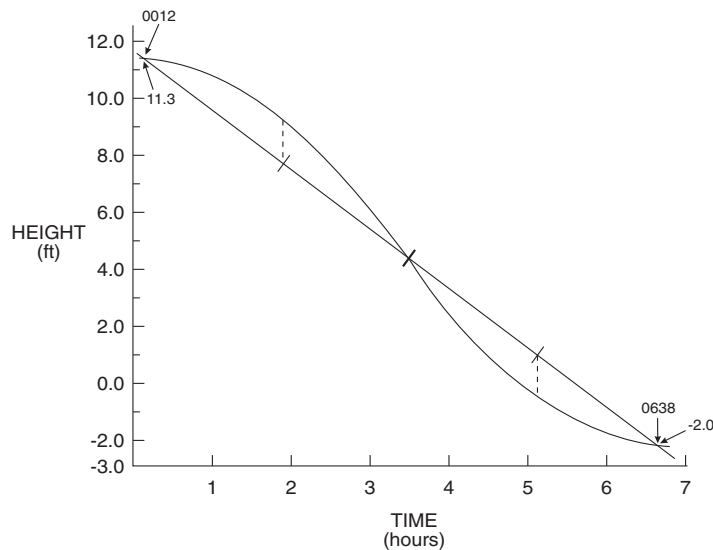


TABLE 3. —HEIGHT OF TIDE AT ANYTIME

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

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

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

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

When the nearest tide is low, add the correction.

TABLE 4.—LOCAL MEAN TIME OF SUNRISE AND SUNSET

EXPLANATION OF TABLE

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

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

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

TABLE 4. -SUNRISE AND SUNSET, 2009

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

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

TABLE 4. - SUNRISE AND SUNSET, 2009

Date	30° N.		32° N.		34° N.		36° N.		38° N.		40° N.	
	Ri se h. m.	Set h. m.	Ri se h. m.	Set h. m.	Ri se h. m.	Set h. m.	Ri se h. m.	Set h. m.	Ri se h. m.	Set h. m.	Ri se h. m.	Set h. m.
Jan. 1	06 56	17 11	07 01	17 07	07 06	17 02	07 11	16 57	07 16	16 51	07 22	16 46
6	06 57	17 15	07 01	17 11	07 06	17 06	07 11	17 01	07 16	16 56	07 22	16 50
11	06 57	17 19	07 01	17 15	07 06	17 10	07 11	17 05	07 16	17 00	07 21	16 55
16	06 56	17 23	07 01	17 19	07 05	17 15	07 10	17 10	07 14	17 06	07 20	17 00
21	06 55	17 28	06 59	17 24	07 03	17 20	07 08	17 15	07 12	17 11	07 17	17 06
26	06 53	17 32	06 57	17 28	07 01	17 25	07 05	17 21	07 09	17 16	07 14	17 12
31	06 51	17 36	06 54	17 33	06 58	17 30	07 01	17 26	07 05	17 22	07 09	17 18
Feb. 5	06 48	17 41	06 51	17 38	06 54	17 35	06 57	17 31	07 01	17 28	07 05	17 24
10	06 44	17 45	06 47	17 42	06 50	17 39	06 53	17 36	06 56	17 33	06 59	17 30
15	06 40	17 49	06 42	17 46	06 45	17 44	06 47	17 41	06 50	17 39	06 53	17 36
20	06 35	17 53	06 37	17 51	06 39	17 49	06 42	17 46	06 44	17 44	06 46	17 42
25	06 30	17 56	06 32	17 55	06 34	17 53	06 35	17 51	06 37	17 49	06 39	17 47
Mar. 2	06 25	18 00	06 26	17 59	06 27	17 57	06 29	17 56	06 30	17 54	06 32	17 53
7	06 19	18 03	06 20	18 02	06 21	18 01	06 22	18 00	06 23	17 59	06 24	17 58
12	06 13	18 06	06 14	18 06	06 15	18 05	06 15	18 05	06 16	18 04	06 16	18 04
17	06 07	18 10	06 08	18 09	06 08	18 09	06 08	18 09	06 08	18 09	06 08	18 09
22	06 01	18 13	06 01	18 13	06 01	18 13	06 01	18 13	06 01	18 14	06 00	18 14
27	05 55	18 16	05 55	18 16	05 54	18 17	05 54	18 18	05 53	18 18	05 52	18 19
Apr. 1	05 49	18 19	05 48	18 20	05 47	18 21	05 46	18 22	05 45	18 23	05 44	18 24
6	05 43	18 22	05 42	18 23	05 41	18 25	05 39	18 26	05 38	18 28	05 36	18 29
11	05 38	18 25	05 36	18 27	05 34	18 28	05 32	18 30	05 30	18 32	05 28	18 34
16	05 32	18 28	05 30	18 30	05 28	18 32	05 26	18 34	05 23	18 37	05 21	18 39
21	05 27	18 31	05 24	18 33	05 22	18 36	05 19	18 39	05 16	18 42	05 13	18 45
26	05 22	18 34	05 19	18 37	05 16	18 40	05 13	18 43	05 10	18 46	05 07	18 50
May 1	05 17	18 37	05 14	18 41	05 11	18 44	05 07	18 47	05 04	18 51	05 00	18 55
6	05 13	18 41	05 10	18 44	05 06	18 48	05 02	18 51	04 58	18 55	04 54	19 00
11	05 09	18 44	05 06	18 48	05 02	18 51	04 58	18 56	04 53	19 00	04 49	19 05
16	05 06	18 47	05 02	18 51	04 58	18 55	04 53	19 00	04 49	19 04	04 44	19 09
21	05 03	18 50	04 59	18 54	04 55	18 59	04 50	19 04	04 45	19 09	04 40	19 14
26	05 01	18 53	04 57	18 58	04 52	19 02	04 47	19 07	04 42	19 13	04 36	19 18
31	05 00	18 56	04 55	19 01	04 50	19 06	04 45	19 11	04 40	19 16	04 34	19 22
June 5	04 59	18 59	04 54	19 03	04 49	19 08	04 44	19 14	04 38	19 19	04 32	19 25
10	04 58	19 01	04 53	19 06	04 48	19 11	04 43	19 16	04 37	19 22	04 31	19 28
15	04 58	19 03	04 54	19 08	04 48	19 13	04 43	19 18	04 37	19 24	04 31	19 31
20	04 59	19 04	04 54	19 09	04 49	19 14	04 43	19 20	04 37	19 26	04 31	19 32
25	05 00	19 05	04 55	19 10	04 50	19 15	04 45	19 21	04 39	19 27	04 32	19 33
30	05 02	19 05	04 57	19 10	04 52	19 15	04 47	19 21	04 41	19 27	04 34	19 33
July 5	05 04	19 05	04 59	19 10	04 54	19 15	04 49	19 20	04 43	19 26	04 37	19 32
10	05 07	19 04	05 02	19 09	04 57	19 14	04 52	19 19	04 46	19 24	04 40	19 30
15	05 09	19 03	05 05	19 07	05 00	19 12	04 55	19 17	04 49	19 22	04 44	19 28
20	05 12	19 00	05 08	19 05	05 03	19 09	04 58	19 14	04 53	19 19	04 48	19 24
25	05 15	18 58	05 11	19 02	05 06	19 06	05 02	19 11	04 57	19 15	04 52	19 20
30	05 18	18 55	05 14	18 58	05 10	19 02	05 06	19 07	05 01	19 11	04 57	19 16
Aug. 4	05 21	18 51	05 17	18 54	05 14	18 58	05 10	19 02	05 06	19 06	05 01	19 10
9	05 24	18 47	05 21	18 50	05 17	18 53	05 14	18 57	05 10	19 00	05 06	19 04
14	05 27	18 42	05 24	18 45	05 21	18 48	05 18	18 51	05 14	18 54	05 11	18 58
19	05 30	18 37	05 27	18 40	05 24	18 42	05 22	18 45	05 19	18 48	05 15	18 51
24	05 33	18 32	05 30	18 34	05 28	18 36	05 26	18 39	05 23	18 41	05 20	18 44
29	05 35	18 26	05 33	18 28	05 32	18 30	05 29	18 32	05 27	18 34	05 25	18 36
Sept. 3	05 38	18 20	05 37	18 22	05 35	18 23	05 33	18 25	05 32	18 26	05 30	18 28
8	05 41	18 14	05 40	18 15	05 38	18 16	05 37	18 18	05 36	18 19	05 34	18 20
13	05 43	18 08	05 43	18 09	05 42	18 09	05 41	18 10	05 40	18 11	05 39	18 12
18	05 46	18 02	05 46	18 02	05 45	18 02	05 45	18 03	05 44	18 03	05 44	18 04
23	05 49	17 55	05 49	17 55	05 49	17 55	05 49	17 55	05 49	17 55	05 49	17 55
28	05 52	17 49	05 52	17 49	05 52	17 48	05 53	17 48	05 53	17 48	05 53	17 47
Oct. 3	05 55	17 43	05 55	17 42	05 56	17 42	05 57	17 41	05 57	17 40	05 58	17 39
8	05 57	17 37	05 59	17 36	06 00	17 35	06 01	17 34	06 02	17 32	06 03	17 31
13	06 01	17 31	06 02	17 30	06 03	17 28	06 05	17 27	06 07	17 25	06 08	17 23
18	06 04	17 26	06 06	17 24	06 08	17 22	06 09	17 20	06 11	17 18	06 14	17 16
23	06 07	17 21	06 09	17 19	06 12	17 17	06 14	17 14	06 16	17 12	06 19	17 09
28	06 11	17 16	06 13	17 14	06 16	17 11	06 19	17 08	06 22	17 06	06 25	17 02
Nov. 2	06 15	17 12	06 17	17 09	06 20	17 06	06 24	17 03	06 27	17 00	06 30	16 56
7	06 19	17 08	06 22	17 05	06 25	17 02	06 28	16 59	06 32	16 55	06 36	16 51
12	06 23	17 05	06 26	17 02	06 30	16 58	06 33	16 54	06 37	16 50	06 42	16 46
17	06 27	17 03	06 30	16 59	06 34	16 55	06 39	16 51	06 43	16 47	06 47	16 42
22	06 31	17 01	06 35	16 57	06 39	16 53	06 43	16 49	06 48	16 44	06 53	16 39
27	06 35	17 00	06 39	16 56	06 44	16 51	06 48	16 47	06 53	16 42	06 59	16 37
Dec. 2	06 39	17 00	06 43	16 55	06 48	16 51	06 53	16 46	06 58	16 41	07 04	16 35
7	06 43	17 00	06 47	16 55	06 52	16 51	06 57	16 46	07 03	16 40	07 08	16 35
12	06 46	17 01	06 51	16 56	06 56	16 51	07 01	16 46	07 07	16 41	07 12	16 35
17	06 50	17 03	06 54	16 58	06 59	16 53	07 05	16 48	07 10	16 42	07 16	16 36
22	06 52	17 05	06 57	17 00	07 02	16 55	07 07	16 50	07 13	16 44	07 19	16 39
27	06 54	17 08	06 59	17 03	07 04	16 58	07 09	16 53	07 15	16 47	07 21	16 42
Jan. 1	06 56	17 11	07 01	17 07	07 05	17 02	07 11	16 57	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, 2009

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

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

TABLE 4. - SUNRISE AND SUNSET, 2009

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

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

TABLE 4. -SUNRISE AND SUNSET, 2009

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

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

TABLE 4. - SUNRISE AND SUNSET, 2009

Date	0°		5° S.		10° S.		15° S.		20° S.		25° S.		
	Ri se h. m.	Set h. m.	Ri se h. m.	Set h. m.	Ri se h. m.	Set h. m.	Ri se h. m.	Set h. m.	Ri se h. m.	Set h. m.	Ri se h. m.	Set h. m.	
Jan.	1	06 00	18 07	05 51	18 16	05 43	18 25	05 34	18 34	05 24	18 43	05 14	18 53
	6	06 02	18 10	05 54	18 18	05 45	18 26	05 37	18 35	05 27	18 44	05 17	18 54
	11	06 04	18 12	05 56	18 20	05 48	18 28	05 40	18 36	05 31	18 45	05 21	18 55
	16	06 06	18 13	05 58	18 21	05 51	18 29	05 43	18 37	05 34	18 46	05 25	18 55
	21	06 08	18 15	06 00	18 22	05 53	18 30	05 45	18 37	05 37	18 45	05 28	18 54
	26	06 09	18 16	06 02	18 23	05 55	18 30	05 48	18 37	05 40	18 44	05 32	18 53
	31	06 10	18 17	06 04	18 23	05 57	18 30	05 51	18 36	05 44	18 43	05 36	18 51
Feb.	5	06 11	18 18	06 05	18 23	05 59	18 29	05 53	18 35	05 47	18 41	05 40	18 48
	10	06 11	18 18	06 06	18 23	06 00	18 28	05 55	18 33	05 49	18 39	05 43	18 45
	15	06 11	18 18	06 06	18 22	06 02	18 26	05 57	18 31	05 52	18 36	05 46	18 41
	20	06 10	18 17	06 06	18 21	06 03	18 25	05 58	18 29	05 54	18 33	05 49	18 38
	25	06 10	18 16	06 06	18 19	06 03	18 23	06 00	18 26	05 56	18 30	05 52	18 33
Mar.	2	06 09	18 15	06 06	18 18	06 04	18 20	06 01	18 23	05 58	18 26	05 55	18 29
	7	06 08	18 14	06 06	18 16	06 04	18 18	06 02	18 20	06 00	18 22	05 58	18 24
	12	06 06	18 13	06 05	18 14	06 04	18 15	06 03	18 16	06 01	18 18	06 00	18 19
	17	06 05	18 12	06 05	18 12	06 04	18 12	06 04	18 13	06 03	18 13	06 02	18 14
	22	06 04	18 10	06 04	18 10	06 04	18 10	06 04	18 09	06 04	18 09	06 05	18 09
	27	06 02	18 09	06 03	18 08	06 04	18 07	06 05	18 06	06 06	18 05	06 07	18 04
Apr.	1	06 01	18 07	06 02	18 05	06 04	18 04	06 05	18 02	06 07	18 00	06 09	17 58
	6	05 59	18 06	06 01	18 03	06 04	18 01	06 06	17 59	06 08	17 56	06 11	17 53
	11	05 58	18 04	06 01	18 01	06 04	17 58	06 07	17 55	06 10	17 52	06 13	17 49
	16	05 56	18 03	06 00	17 59	06 04	17 56	06 07	17 52	06 11	17 48	06 15	17 44
	21	05 55	18 02	06 00	17 58	06 04	17 53	06 08	17 49	06 13	17 44	06 18	17 39
	26	05 54	18 01	05 59	17 56	06 04	17 51	06 09	17 46	06 14	17 41	06 20	17 35
May	1	05 54	18 00	05 59	17 55	06 05	17 49	06 10	17 44	06 16	17 38	06 22	17 32
	6	05 53	18 00	05 59	17 54	06 05	17 48	06 11	17 42	06 18	17 35	06 25	17 28
	11	05 53	18 00	05 59	17 53	06 06	17 47	06 13	17 40	06 20	17 33	06 27	17 25
	16	05 53	18 00	06 00	17 53	06 07	17 46	06 14	17 39	06 22	17 31	06 30	17 23
	21	05 53	18 00	06 00	17 53	06 08	17 45	06 16	17 37	06 24	17 29	06 32	17 21
	26	05 53	18 01	06 01	17 53	06 09	17 45	06 17	17 37	06 26	17 28	06 35	17 19
	31	05 54	18 01	06 02	17 53	06 10	17 45	06 19	17 37	06 28	17 28	06 37	17 18
June	5	05 55	18 02	06 03	17 54	06 12	17 45	06 20	17 37	06 29	17 28	06 39	17 18
	10	05 56	18 03	06 04	17 55	06 13	17 46	06 22	17 37	06 31	17 28	06 41	17 18
	15	05 57	18 04	06 05	17 56	06 14	17 47	06 23	17 38	06 33	17 28	06 43	17 18
	20	05 58	18 05	06 07	17 57	06 15	17 48	06 24	17 39	06 34	17 29	06 44	17 19
	25	05 59	18 06	06 08	17 58	06 16	17 49	06 25	17 40	06 35	17 30	06 45	17 20
	30	06 00	18 07	06 09	17 59	06 17	17 50	06 26	17 41	06 36	17 32	06 46	17 22
July	5	06 01	18 08	06 09	18 00	06 18	17 51	06 27	17 43	06 36	17 33	06 46	17 24
	10	06 02	18 09	06 10	18 01	06 18	17 53	06 27	17 44	06 36	17 35	06 45	17 26
	15	06 02	18 10	06 10	18 02	06 18	17 54	06 26	17 46	06 35	17 37	06 44	17 28
	20	06 03	18 10	06 10	18 02	06 18	17 55	06 26	17 47	06 34	17 39	06 43	17 30
	25	06 03	18 10	06 10	18 03	06 17	17 56	06 25	17 48	06 33	17 41	06 41	17 32
	30	06 03	18 10	06 10	18 03	06 16	17 57	06 23	17 50	06 31	17 42	06 38	17 35
Aug.	4	06 03	18 10	06 09	18 03	06 15	17 57	06 22	17 51	06 28	17 44	06 35	17 37
	9	06 02	18 09	06 08	18 03	06 13	17 58	06 19	17 52	06 25	17 46	06 32	17 39
	14	06 01	18 08	06 06	18 03	06 12	17 58	06 17	17 53	06 22	17 47	06 28	17 41
	19	06 00	18 07	06 05	18 02	06 09	17 58	06 14	17 53	06 19	17 49	06 24	17 43
	24	05 59	18 06	06 03	18 02	06 07	17 58	06 11	17 54	06 15	17 50	06 20	17 45
	29	05 58	18 04	06 01	18 01	06 04	17 58	06 08	17 54	06 11	17 51	06 15	17 47
Sept.	3	05 56	18 03	05 59	18 00	06 01	17 57	06 04	17 55	06 07	17 52	06 10	17 49
	8	05 54	18 01	05 56	17 59	05 58	17 57	06 00	17 55	06 02	17 53	06 05	17 51
	13	05 53	17 59	05 54	17 58	05 55	17 57	05 57	17 55	05 58	17 54	05 59	17 53
	18	05 51	17 57	05 51	17 57	05 52	17 56	05 53	17 56	05 53	17 55	05 54	17 55
	23	05 49	17 56	05 49	17 56	05 49	17 56	05 49	17 56	05 49	17 56	05 48	17 57
	28	05 47	17 54	05 47	17 55	05 46	17 56	05 45	17 56	05 44	17 57	05 43	17 58
Oct.	3	05 46	17 52	05 44	17 54	05 43	17 55	05 41	17 57	05 40	17 59	05 38	18 00
	8	05 44	17 51	05 42	17 53	05 40	17 55	05 38	17 57	05 35	18 00	05 33	18 03
	13	05 43	17 50	05 40	17 52	05 37	17 55	05 34	17 58	05 31	18 01	05 28	18 05
	18	05 42	17 48	05 38	17 52	05 35	17 56	05 31	17 59	05 27	18 03	05 23	18 07
	23	05 41	17 48	05 37	17 52	05 33	17 56	05 28	18 00	05 24	18 05	05 19	18 10
	28	05 40	17 47	05 36	17 52	05 31	17 57	05 26	18 02	05 21	18 07	05 15	18 13
Nov.	2	05 40	17 47	05 35	17 52	05 29	17 58	05 24	18 04	05 18	18 10	05 11	18 16
	7	05 40	17 47	05 34	17 53	05 28	17 59	05 22	18 05	05 15	18 12	05 08	18 19
	12	05 41	17 48	05 34	17 54	05 28	18 01	05 21	18 08	05 14	18 15	05 06	18 23
	17	05 41	17 49	05 34	17 56	05 27	18 03	05 20	18 10	05 12	18 18	05 04	18 26
	22	05 43	17 50	05 35	17 57	05 28	18 05	05 20	18 13	05 12	18 21	05 03	18 30
	27	05 44	17 51	05 36	17 59	05 28	18 07	05 20	18 15	05 11	18 24	05 02	18 34
Dec.	2	05 46	17 53	05 38	18 01	05 29	18 10	05 21	18 18	05 12	18 27	05 02	18 37
	7	05 48	17 55	05 39	18 04	05 31	18 12	05 22	18 21	05 13	18 31	05 02	18 41
	12	05 50	17 58	05 41	18 06	05 33	18 15	05 24	18 24	05 14	18 34	05 04	18 44
	17	05 52	18 00	05 44	18 09	05 35	18 17	05 26	18 27	05 16	18 36	05 05	18 47
	22	05 55	18 02	05 46	18 11	05 37	18 20	05 28	18 29	05 18	18 39	05 08	18 50
	27	05 57	18 05	05 49	18 14	05 40	18 22	05 31	18 32	05 21	18 41	05 10	18 52
Jan.	1	06 00	18 07	05 51	18 16	05 43	18 24	05 33	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, 2009

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

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

TABLE 4. - SUNRISE AND SUNSET, 2009

Date	42° S.		44° S.		46° S.		48° S.		50° S.		52° S.		
	Ri se h. m.	Set h. m.	Ri se h. m.	Set h. m.	Ri se h. m.	Set h. m.	Ri se h. m.	Set h. m.	Ri se h. m.	Set h. m.	Ri se h. m.	Set h. m.	
Jan.	1	04 28	19 39	04 21	19 46	04 13	19 54	04 05	20 02	03 55	20 12	03 45	20 22
	6	04 33	19 38	04 26	19 45	04 18	19 53	04 10	20 01	04 01	20 10	03 51	20 20
	11	04 38	19 37	04 32	19 44	04 24	19 51	04 16	19 59	04 08	20 08	03 58	20 17
	16	04 44	19 35	04 38	19 41	04 31	19 48	04 23	19 56	04 15	20 04	04 06	20 13
	21	04 50	19 32	04 44	19 38	04 38	19 44	04 31	19 51	04 23	19 59	04 14	20 07
	26	04 57	19 28	04 51	19 33	04 45	19 39	04 39	19 46	04 31	19 53	04 24	20 01
	31	05 03	19 23	04 58	19 28	04 53	19 34	04 47	19 39	04 40	19 46	04 33	19 53
Feb.	5	05 10	19 18	05 05	19 22	05 00	19 27	04 55	19 32	04 49	19 38	04 42	19 44
	10	05 16	19 11	05 12	19 15	05 08	19 20	05 03	19 24	04 58	19 30	04 52	19 35
	15	05 23	19 05	05 19	19 08	05 15	19 12	05 11	19 16	05 07	19 21	05 02	19 25
	20	05 29	18 57	05 26	19 00	05 23	19 04	05 19	19 07	05 15	19 11	05 11	19 15
	25	05 36	18 50	05 33	18 52	05 30	18 55	05 27	18 58	05 24	19 01	05 20	19 04
Mar.	2	05 42	18 42	05 40	18 44	05 37	18 46	05 35	18 48	05 32	18 51	05 30	18 53
	7	05 48	18 34	05 46	18 35	05 45	18 37	05 43	18 38	05 41	18 40	05 39	18 42
	12	05 54	18 25	05 53	18 26	05 51	18 27	05 50	18 28	05 49	18 29	05 48	18 31
	17	05 59	18 17	05 59	18 17	05 58	18 17	05 58	18 18	05 57	18 19	05 56	18 19
	22	06 05	18 08	06 05	18 08	06 05	18 08	06 05	18 08	06 05	18 08	06 05	18 08
	27	06 11	17 59	06 11	17 59	06 12	17 58	06 12	17 58	06 13	17 57	06 14	17 56
Apr.	1	06 16	17 51	06 17	17 50	06 18	17 49	06 19	17 47	06 21	17 46	06 22	17 45
	6	06 22	17 43	06 23	17 41	06 25	17 39	06 27	17 37	06 29	17 35	06 31	17 33
	11	06 27	17 34	06 29	17 32	06 31	17 30	06 34	17 28	06 36	17 25	06 39	17 22
	16	06 32	17 26	06 35	17 24	06 38	17 21	06 41	17 18	06 44	17 15	06 47	17 11
	21	06 38	17 19	06 41	17 16	06 44	17 12	06 48	17 09	06 52	17 05	06 56	17 01
	26	06 43	17 12	06 47	17 08	06 51	17 04	06 55	17 00	06 59	16 56	07 04	16 51
May	1	06 49	17 05	06 53	17 01	06 57	16 57	07 02	16 52	07 07	16 47	07 12	16 41
	6	06 54	16 59	06 59	16 54	07 03	16 49	07 08	16 44	07 14	16 38	07 20	16 32
	11	06 59	16 53	07 04	16 48	07 09	16 43	07 15	16 37	07 21	16 31	07 28	16 24
	16	07 04	16 48	07 10	16 43	07 15	16 37	07 21	16 31	07 28	16 24	07 36	16 17
	21	07 09	16 44	07 15	16 38	07 21	16 32	07 27	16 25	07 35	16 18	07 43	16 10
	26	07 14	16 40	07 20	16 34	07 26	16 28	07 33	16 21	07 41	16 13	07 49	16 04
	31	07 18	16 38	07 24	16 31	07 31	16 24	07 38	16 17	07 46	16 09	07 55	16 00
June	5	07 21	16 36	07 28	16 29	07 35	16 22	07 42	16 14	07 51	16 06	08 00	15 57
	10	07 24	16 35	07 31	16 28	07 38	16 21	07 46	16 13	07 55	16 04	08 04	15 54
	15	07 27	16 34	07 33	16 28	07 41	16 20	07 49	16 12	07 58	16 03	08 07	15 53
	20	07 28	16 35	07 35	16 28	07 42	16 21	07 51	16 13	07 59	16 04	08 09	15 54
	25	07 29	16 36	07 36	16 30	07 43	16 22	07 51	16 14	08 00	16 05	08 10	15 55
	30	07 29	16 38	07 36	16 32	07 43	16 24	07 51	16 16	08 00	16 08	08 10	15 58
July	5	07 28	16 41	07 35	16 35	07 42	16 28	07 50	16 20	07 58	16 11	08 08	16 02
	10	07 26	16 45	07 33	16 38	07 40	16 31	07 47	16 24	07 55	16 16	08 05	16 06
	15	07 24	16 48	07 30	16 42	07 37	16 36	07 44	16 29	07 52	16 21	08 00	16 12
	20	07 21	16 53	07 26	16 47	07 33	16 41	07 39	16 34	07 47	16 26	07 55	16 18
	25	07 16	16 57	07 22	16 52	07 28	16 46	07 34	16 39	07 41	16 33	07 49	16 25
	30	07 11	17 02	07 17	16 57	07 22	16 51	07 28	16 46	07 34	16 39	07 41	16 32
Aug.	4	07 06	17 07	07 11	17 02	07 16	16 57	07 21	16 52	07 27	16 46	07 33	16 40
	9	07 00	17 12	07 04	17 08	07 08	17 03	07 13	16 58	07 19	16 53	07 24	16 47
	14	06 53	17 17	06 57	17 13	07 01	17 09	07 05	17 05	07 10	17 00	07 15	16 55
	19	06 46	17 22	06 49	17 19	06 53	17 15	06 56	17 11	07 00	17 07	07 05	17 03
	24	06 38	17 27	06 41	17 24	06 44	17 21	06 47	17 18	06 51	17 15	06 55	17 11
	29	06 30	17 32	06 33	17 30	06 35	17 27	06 38	17 25	06 41	17 22	06 44	17 19
Sept.	3	06 22	17 37	06 24	17 35	06 26	17 34	06 28	17 32	06 30	17 29	06 33	17 27
	8	06 14	17 42	06 15	17 41	06 16	17 40	06 18	17 38	06 19	17 37	06 21	17 35
	13	06 05	17 47	06 06	17 47	06 07	17 46	06 08	17 45	06 09	17 44	06 10	17 43
	18	05 56	17 53	05 57	17 52	05 57	17 52	05 57	17 52	05 58	17 51	05 58	17 51
	23	05 47	17 58	05 47	17 58	05 47	17 58	05 47	17 59	05 47	17 59	05 46	17 59
	28	05 39	18 03	05 38	18 04	05 37	18 05	05 36	18 06	05 36	18 07	05 35	18 08
Oct.	3	05 30	18 09	05 29	18 10	05 28	18 11	05 26	18 13	05 25	18 14	05 23	18 16
	8	05 22	18 14	05 20	18 16	05 18	18 18	05 16	18 20	05 14	18 22	05 12	18 25
	13	05 13	18 20	05 11	18 22	05 09	18 25	05 06	18 27	05 03	18 30	05 00	18 33
	18	05 05	18 26	05 03	18 29	05 00	18 32	04 56	18 35	04 53	18 38	04 49	18 42
	23	04 58	18 32	04 54	18 35	04 51	18 39	04 47	18 42	04 43	18 47	04 39	18 51
	28	04 50	18 38	04 47	18 42	04 43	18 46	04 38	18 50	04 34	18 55	04 28	19 00
Nov.	2	04 44	18 44	04 40	18 48	04 35	18 53	04 30	18 58	04 25	19 04	04 19	19 10
	7	04 38	18 50	04 33	18 55	04 28	19 00	04 22	19 06	04 16	19 12	04 10	19 19
	12	04 32	18 57	04 27	19 02	04 21	19 08	04 15	19 14	04 09	19 21	04 01	19 28
	17	04 28	19 03	04 22	19 09	04 16	19 15	04 09	19 22	04 02	19 29	03 54	19 37
	22	04 24	19 09	04 18	19 15	04 11	19 22	04 04	19 29	03 56	19 37	03 47	19 46
	27	04 21	19 15	04 14	19 21	04 07	19 28	04 00	19 36	03 52	19 45	03 42	19 54
Dec.	2	04 19	19 20	04 12	19 27	04 05	19 35	03 57	19 43	03 48	19 52	03 38	20 01
	7	04 18	19 25	04 11	19 32	04 03	19 40	03 55	19 48	03 46	19 58	03 35	20 08
	12	04 18	19 30	04 11	19 37	04 03	19 45	03 54	19 53	03 45	20 03	03 34	20 14
	17	04 19	19 33	04 12	19 41	04 04	19 49	03 55	19 57	03 45	20 07	03 35	20 18
	22	04 21	19 36	04 14	19 43	04 06	19 51	03 57	20 00	03 47	20 10	03 36	20 21
	27	04 24	19 38	04 17	19 45	04 09	19 53	04 00	20 02	03 51	20 11	03 40	20 22
Jan.	1	04 28	19 39	04 21	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, 2009

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

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

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

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

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

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

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

TABLE 6.—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.

Boston, Massachusetts

Day	JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE		Day
	Ri se h m	Set h m	Ri se h m	Set h m	Ri se h m	Set h m	Ri se h m	Set h m	Ri se h m	Set h m	Ri se h m	Set h m	
1	0956	2137	0930	....	0803	2304	0910	0025	1042	0042	1320	0032	1
2	1017	2242	0959	0000	0837	....	1020	0120	1157	0114	1428	0055	2
3	1038	2349	1035	0114	0919	0018	1135	0205	1309	0140	1535	0119	3
4	1101	....	1122	0228	1012	0128	1251	0241	1419	0204	1642	0145	4
5	1127	0100	1221	0338	1117	0231	1406	0311	1528	0227	1747	0216	5
6	1200	0214	1332	0440	1230	0323	1519	0336	1636	0250	1848	0252	6
7	1241	0331	1450	0530	1348	0406	1630	0400	1744	0315	1943	0335	7
8	1335	0447	1612	0610	1506	0440	1740	0423	1851	0343	2031	0425	8
9	1442	0557	1731	0642	1622	0509	1849	0447	1956	0415	2112	0521	9
10	1600	0655	1847	0710	1736	0534	1958	0513	2056	0454	2145	0621	10
11	1722	0740	2001	0734	1848	0558	2105	0542	2149	0539	2213	0723	11
12	1843	0817	2111	0757	1959	0621	2209	0617	2235	0632	2237	0826	12
13	2000	0846	2221	0820	2109	0646	2307	0658	2313	0729	2259	0928	13
14	2114	0911	2329	0845	2217	0713	2357	0746	2344	0830	2320	1030	14
15	2223	0934	....	0913	2322	0744	....	0840	....	0933	2341	1133	15
16	2331	0956	0035	0946	....	0821	0040	0940	0011	1036	....	1238	16
17	....	1019	0137	1025	0023	0904	0115	1042	0034	1139	0004	1346	17
18	0038	1044	0235	1111	0118	0954	0144	1145	0056	1242	0029	1458	18
19	0143	1114	0326	1204	0205	1051	0210	1249	0117	1348	0100	1613	19
20	0247	1148	0410	1302	0244	1152	0233	1353	0140	1456	0139	1729	20
21	0348	1229	0447	1405	0317	1255	0255	1459	0204	1607	0228	1841	21
22	0443	1317	0517	1509	0345	1400	0316	1607	0232	1723	0331	1942	22
23	0531	1412	0543	1614	0409	1505	0340	1717	0307	1840	0445	2032	23
24	0612	1513	0607	1719	0431	1610	0405	1832	0351	1955	0605	2112	24
25	0646	1616	0628	1825	0453	1717	0436	1948	0447	2101	0726	2144	25
26	0715	1721	0649	1932	0515	1826	0514	2104	0554	2156	0844	2211	26
27	0740	1825	0711	2040	0539	1938	0602	2214	0710	2240	0959	2235	27
28	0802	1930	0735	2151	0606	2052	0702	2314	0829	2315	1110	2259	28
29	0823	2035	....	....	0638	2207	0811	....	0946	2344	1219	2323	29
30	0843	2141	....	....	0718	2319	0926	0003	1100	....	1327	2348	30
31	0905	2249	....	....	0809	....	....	....	1211	0009	....	....	31
Day	JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER		Day
	Ri se h m	Set h m	Ri se h m	Set h m	Ri se h m	Set h m	Ri se h m	Set h m	Ri se h m	Set h m	Ri se h m	Set h m	
1	1434	....	1626	0017	1650	0200	1602	0257	1538	0502	1526	0616	1
2	1540	0018	1711	0109	1715	0303	1623	0400	1610	0613	1623	0726	2
3	1642	0052	1749	0206	1737	0406	1646	0504	1649	0726	1731	0829	3
4	1739	0133	1820	0307	1758	0509	1710	0611	1738	0837	1846	0922	4
5	1829	0220	1847	0410	1819	0612	1738	0719	1838	0943	2004	1004	5
6	1911	0314	1910	0512	1841	0716	1811	0830	1947	1040	2121	1039	6
7	1947	0413	1931	0615	1906	0822	1853	0941	2101	1127	2236	1108	7
8	2017	0515	1952	0717	1935	0931	1944	1050	2217	1205	2348	1134	8
9	2042	0618	2013	0820	2010	1041	2046	1152	2332	1237	....	1158	9
10	2104	0720	2035	0924	2053	1151	2156	1245	....	1304	0058	1223	10
11	2125	0822	2101	1030	2148	1258	2310	1328	0044	1330	0208	1249	11
12	2146	0924	2131	1139	2253	1357	....	1404	0156	1354	0317	1319	12
13	2207	1027	2209	1250	....	1448	0026	1434	0307	1419	0425	1353	13
14	2231	1133	2257	1401	0006	1530	0142	1501	0417	1447	0531	1434	14
15	2258	1241	2357	1508	0124	1604	0256	1526	0528	1518	0631	1521	15
16	2332	1352	....	1606	0242	1634	0409	1551	0636	1555	0725	1615	16
17	....	1506	0108	1655	0400	1700	0521	1618	0742	1639	0810	1714	17
18	0014	1618	0226	1734	0516	1726	0634	1647	0840	1729	0848	1816	18
19	0109	1724	0348	1807	0630	1751	0745	1721	0931	1825	0919	1918	19
20	0217	1819	0508	1835	0744	1819	0853	1800	1014	1925	0945	2019	20
21	0334	1904	0626	1901	0856	1849	0956	1846	1049	2027	1009	2120	21
22	0456	1940	0741	1926	1006	1925	1052	1939	1118	2129	1030	2221	22
23	0618	2010	0855	1952	1111	2007	1139	2037	1143	2230	1051	2322	23
24	0737	2036	1007	2020	1210	2055	1218	2137	1206	2331	1112	....	24
25	0852	2101	1116	2052	1302	2149	1250	2239	1227	....	1135	0025	25
26	1004	2125	1223	2129	1345	2248	1318	2341	1248	0033	1201	0130	26
27	1115	2151	1325	2212	1421	2350	1342	....	1311	0136	1233	0239	27
28	1224	2220	1421	2303	1451	....	1404	0043	1336	0242	1313	0350	28
29	1331	2252	1508	2358	1517	0052	1426	0146	1405	0351	1403	0502	29
30	1435	2331	1548	....	1540	0154	1447	0249	1441	0503	1506	0609	30
31	1534	....	1622	0058	....	....	1511	0354	....	....	1739	0708	31

Time meridi an 75° W. 0000 is midnight. 1200 is noon.

New York, New York

Day	JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE		Day
	Ri se h m	Set h m	Ri se h m	Set h m	Ri se h m	Set h m	Ri se h m	Set h m	Ri se h m	Set h m	Ri se h m	Set h m	
1	1007	2150	0945	.....	0819	2312	0929	0030	1059	0050	1331	0044	1
2	1028	2254	1016	0009	0854	.....	1039	0126	1212	0122	1438	0108	2
3	1051	.....	1053	0121	0938	0024	1153	0211	1323	0150	1544	0133	3
4	1115	0000	1141	0234	1031	0133	1308	0249	1431	0216	1649	0201	4
5	1143	0109	1240	0344	1136	0236	1421	0320	1539	0240	1753	0233	5
6	1217	0222	1351	0445	1249	0329	1532	0347	1646	0304	1854	0310	6
7	1300	0338	1508	0536	1405	0413	1642	0412	1752	0330	1949	0354	7
8	1354	0453	1628	0618	1522	0449	1750	0436	1858	0359	2037	0444	8
9	1502	0602	1746	0651	1636	0519	1858	0501	2002	0433	2118	0540	9
10	1619	0701	1901	0720	1749	0545	2006	0528	2102	0512	2152	0639	10
11	1740	0748	2013	0746	1859	0610	2112	0559	2155	0558	2221	0740	11
12	1859	0825	2122	0810	2009	0635	2215	0635	2241	0651	2247	0841	12
13	2015	0856	2230	0835	2117	0701	2312	0717	2319	0748	2310	0943	13
14	2126	0922	2337	0901	2224	0729	.....	0805	2352	0848	2332	1044	14
15	2235	0946	.....	0930	2329	0801	0003	0859	.....	0949	2354	1146	15
16	2341	1010	0041	1004	.....	0839	0046	0958	0019	1051	.....	1249	16
17	.....	1034	0143	1044	0029	0923	0122	1059	0044	1153	0018	1356	17
18	0047	1101	0241	1130	0123	1014	0152	1201	0107	1255	0045	1507	18
19	0151	1131	0332	1223	0210	1110	0219	1304	0129	1359	0117	1621	19
20	0254	1206	0416	1321	0250	1210	0243	1407	0153	1506	0157	1735	20
21	0353	1248	0453	1422	0324	1312	0306	1512	0218	1617	0247	1846	21
22	0448	1336	0525	1526	0353	1415	0329	1618	0248	1731	0350	1948	22
23	0537	1431	0552	1629	0419	1519	0353	1727	0324	1847	0503	2039	23
24	0618	1531	0616	1733	0442	1624	0421	1840	0409	2000	0623	2120	24
25	0653	1633	0639	1838	0505	1729	0453	1955	0506	2107	0742	2153	25
26	0723	1737	0702	1943	0528	1837	0532	2110	0613	2203	0859	2222	26
27	0749	1840	0725	2050	0553	1947	0621	2220	0728	2247	1012	2247	27
28	0812	1943	0750	2200	0621	2100	0721	2320	0846	2323	1122	2312	28
29	0834	2047	.....	.....	0655	2213	0830	.....	1002	2353	1230	2337	29
30	0856	2152	.....	.....	0737	2325	0944	0010	1114	.....	1336	.....	30
31	0919	2259	.....	.....	0828	.....	.....	.....	1224	0020	.....	.....	31
Day	JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER		Day
	Ri se h m	Set h m	Ri se h m	Set h m	Ri se h m	Set h m	Ri se h m	Set h m	Ri se h m	Set h m	Ri se h m	Set h m	
1	1442	0004	1632	0036	1658	0217	1613	0311	1553	0512	1545	0623	1
2	1547	0035	1717	0128	1724	0319	1636	0413	1627	0622	1642	0732	2
3	1648	0110	1755	0225	1747	0421	1659	0516	1707	0733	1749	0835	3
4	1745	0151	1827	0325	1810	0522	1725	0621	1757	0844	1904	0928	4
5	1835	0239	1855	0426	1832	0624	1754	0728	1857	0949	2021	1012	5
6	1918	0333	1920	0528	1855	0727	1829	0838	2006	1047	2136	1048	6
7	1954	0432	1942	0629	1921	0832	1911	0948	2119	1134	2249	1118	7
8	2024	0532	2004	0730	1951	0939	2003	1056	2233	1213	.....	1145	8
9	2051	0634	2026	0832	2027	1048	2105	1158	2346	1246	0000	1211	9
10	2114	0735	2050	0935	2112	1157	2214	1251	.....	1315	0109	1237	10
11	2136	0836	2116	1040	2207	1303	2327	1335	0058	1341	0218	1305	11
12	2158	0937	2148	1148	2311	1403	.....	1412	0208	1407	0326	1335	12
13	2221	1039	2227	1257	.....	1455	0042	1444	0317	1434	0433	1411	13
14	2245	1143	2316	1407	0024	1537	0156	1512	0427	1502	0537	1452	14
15	2314	1250	.....	1513	0141	1613	0309	1539	0536	1535	0637	1540	15
16	2349	1400	0016	1612	0258	1644	0420	1605	0643	1613	0730	1634	16
17	.....	1513	0127	1702	0414	1712	0532	1633	0748	1657	0816	1733	17
18	0033	1624	0244	1742	0528	1738	0643	1703	0846	1748	0854	1833	18
19	0128	1730	0404	1816	0641	1805	0753	1738	0937	1844	0927	1934	19
20	0236	1826	0523	1846	0753	1834	0900	1818	1020	1943	0954	2034	20
21	0353	1912	0639	1913	0904	1906	1002	1905	1056	2044	1019	2134	21
22	0513	1949	0753	1940	1013	1943	1057	1958	1126	2145	1041	2233	22
23	0633	2020	0905	2007	1117	2025	1145	2055	1152	2245	1103	2333	23
24	0751	2048	1015	2036	1216	2114	1225	2155	1216	2345	1125	.....	24
25	0904	2114	1124	2109	1308	2208	1258	2256	1239	.....	1150	0035	25
26	1015	2139	1230	2147	1351	2306	1326	2357	1301	0045	1217	0140	26
27	1124	2206	1331	2231	1428	.....	1352	.....	1324	0147	1250	0247	27
28	1232	2236	1426	2322	1459	0007	1415	0058	1351	0252	1331	0357	28
29	1338	2310	1514	.....	1526	0108	1437	0159	1421	0400	1422	0508	29
30	1441	2350	1555	0017	1550	0210	1500	0301	1458	0510	1525	0615	30
31	1540	.....	1629	0116	.....	.....	1525	0405	.....	.....	1756	0714	31

Time meridi an 75° W. 0000 is midnight. 1200 is noon.

TABLE 6-MOONRI SE AND MOONSET, 2009

Bal timore, MD and Washi ngton, DC

Day	JANUARY		FEBRUARY		MARCH		APRI L		MAY		JUNE		Day
	Ri se h m	Set h m	Ri se h m	Set h m	Ri se h m	Set h m	Ri se h m	Set h m	Ri se h m	Set h m	Ri se h m	Set h m	
1	1017	2202	1000	.....	0834	2319	0947	0035	1114	0057	1342	0056	1
2	1040	2305	1031	0017	0911	.....	1056	0131	1226	0131	1447	0121	2
3	1103	.....	1110	0128	0955	0030	1209	0218	1336	0200	1552	0148	3
4	1129	0010	1159	0240	1050	0139	1323	0256	1443	0226	1656	0216	4
5	1158	0118	1258	0349	1154	0241	1435	0329	1549	0252	1759	0249	5
6	1233	0229	1409	0451	1306	0335	1544	0357	1655	0317	1859	0327	6
7	1317	0344	1525	0542	1421	0420	1653	0423	1800	0344	1954	0412	7
8	1412	0458	1644	0625	1536	0456	1800	0449	1905	0415	2042	0502	8
9	1520	0607	1800	0700	1650	0528	1907	0515	2008	0449	2124	0557	9
10	1636	0706	1914	0730	1801	0556	2014	0543	2107	0530	2159	0656	10
11	1756	0754	2024	0757	1910	0622	2119	0615	2200	0616	2229	0756	11
12	1914	0833	2132	0823	2018	0648	2221	0652	2246	0708	2255	0856	12
13	2028	0905	2239	0848	2125	0715	2318	0735	2325	0805	2320	0956	13
14	2138	0933	2344	0916	2231	0744	.....	0823	2359	0905	2343	1056	14
15	2245	0958	.....	0946	2335	0818	0008	0917	.....	1005	.....	1157	15
16	2351	1023	0048	1021	.....	0857	0051	1015	0027	1106	0006	1300	16
17	.....	1048	0149	1101	0034	0941	0128	1115	0053	1206	0031	1405	17
18	0055	1116	0246	1148	0128	1032	0200	1217	0117	1308	0059	1515	18
19	0158	1147	0337	1241	0216	1128	0227	1318	0141	1410	0132	1627	19
20	0300	1223	0421	1338	0256	1227	0253	1420	0205	1516	0213	1741	20
21	0359	1306	0459	1439	0331	1328	0317	1523	0232	1625	0305	1852	21
22	0453	1355	0532	1541	0401	1430	0341	1629	0303	1738	0408	1954	22
23	0542	1449	0600	1644	0427	1533	0406	1737	0340	1853	0521	2045	23
24	0624	1548	0626	1747	0452	1636	0435	1848	0427	2006	0639	2127	24
25	0700	1650	0650	1850	0516	1740	0508	2002	0524	2112	0757	2202	25
26	0730	1752	0713	1954	0540	1847	0549	2116	0631	2209	0913	2232	26
27	0757	1854	0737	2100	0607	1956	0639	2225	0746	2254	1024	2259	27
28	0822	1956	0804	2208	0636	2107	0739	2326	0902	2331	1133	2325	28
29	0845	2058	.....	.....	0711	2220	0848	.....	1016	.....	1239	2351	29
30	0908	2202	.....	.....	0754	2330	1001	0016	1127	0003	1345	.....	30
31	0932	2308	.....	.....	0846	.....	.....	.....	1236	0030	.....	.....	31
Day	JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER		Day
	Ri se h m	Set h m	Ri se h m	Set h m	Ri se h m	Set h m	Ri se h m	Set h m	Ri se h m	Set h m	Ri se h m	Set h m	
1	1450	0019	1637	0053	1706	0233	1624	0324	1608	0521	1602	0629	1
2	1553	0051	1722	0146	1733	0334	1647	0425	1642	0629	1700	0738	2
3	1654	0127	1801	0242	1757	0434	1712	0527	1724	0740	1807	0841	3
4	1750	0209	1835	0342	1820	0535	1739	0631	1815	0850	1921	0934	4
5	1840	0257	1903	0442	1844	0636	1809	0737	1915	0955	2036	1019	5
6	1923	0351	1929	0542	1908	0738	1845	0845	2023	1052	2151	1056	6
7	2000	0449	1952	0643	1935	0841	1928	0954	2135	1141	2302	1128	7
8	2032	0549	2015	0742	2007	0947	2021	1101	2248	1221	.....	1156	8
9	2059	0649	2038	0843	2044	1055	2122	1203	.....	1255	0012	1223	9
10	2124	0749	2103	0945	2129	1203	2231	1257	0000	1325	0120	1250	10
11	2147	0849	2131	1049	2225	1309	2344	1342	0111	1352	0227	1319	11
12	2210	0949	2204	1155	2329	1409	.....	1420	0219	1419	0334	1351	12
13	2233	1049	2244	1304	.....	1501	0057	1453	0327	1447	0440	1427	13
14	2259	1152	2333	1413	0041	1544	0210	1522	0436	1517	0543	1509	14
15	2329	1258	.....	1519	0156	1621	0321	1550	0543	1551	0643	1558	15
16	.....	1407	0034	1618	0312	1653	0431	1618	0650	1630	0736	1652	16
17	0005	1519	0144	1708	0427	1723	0541	1647	0754	1715	0822	1750	17
18	0050	1629	0301	1750	0540	1751	0651	1718	0852	1806	0901	1850	18
19	0146	1735	0419	1825	0651	1819	0800	1754	0943	1901	0934	1950	19
20	0254	1832	0537	1856	0802	1849	0906	1836	1026	2000	1003	2049	20
21	0410	1918	0652	1925	0912	1922	1008	1923	1103	2100	1028	2147	21
22	0529	1957	0804	1952	1019	2000	1103	2016	1134	2200	1052	2246	22
23	0648	2030	0915	2021	1123	2043	1150	2113	1201	2259	1114	2345	23
24	0804	2059	1024	2051	1221	2132	1231	2212	1226	2358	1138	.....	24
25	0916	2126	1131	2125	1313	2226	1305	2312	1249	.....	1203	0045	25
26	1026	2153	1236	2204	1357	2324	1334	.....	1313	0057	1232	0148	26
27	1133	2221	1337	2249	1434	.....	1401	0012	1337	0158	1306	0255	27
28	1240	2252	1431	2339	1507	0023	1425	0111	1405	0301	1348	0404	28
29	1345	2327	1519	.....	1535	0123	1449	0211	1436	0408	1439	0514	29
30	1447	.....	1601	0035	1600	0224	1513	0312	1515	0518	1542	0620	30
31	1545	0007	1636	0133	.....	.....	1539	0415	.....	.....	1812	0720	31

Time meridi an 75° W. 0000 is mi dnight. 1200 is noon.

TABLE 6-MOONRI SE AND MOONSET, 2009

Charleston, SC and Savannah, GA

Day	JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE		Day
	Ri se h m	Set h m	Ri se h m	Set h m	Ri se h m	Set h m	Ri se h m	Set h m	Ri se h m	Set h m	Ri se h m	Set h m	
1	1027	2221	1026	.....	0904	2317	1025	0028	1144	0057	1354	0112	1
2	1054	2319	1102	0018	0944	.....	1133	0125	1251	0135	1455	0142	2
3	1122	.....	1145	0125	1032	0025	1242	0215	1355	0209	1555	0212	3
4	1152	0019	1236	0234	1128	0132	1351	0257	1458	0240	1656	0245	4
5	1225	0122	1337	0341	1232	0234	1458	0334	1559	0309	1755	0322	5
6	1305	0230	1446	0444	1341	0330	1603	0407	1701	0339	1853	0403	6
7	1353	0340	1559	0538	1452	0418	1706	0438	1802	0411	1947	0449	7
8	1451	0452	1713	0625	1603	0459	1809	0508	1903	0445	2036	0540	8
9	1558	0600	1824	0705	1711	0535	1912	0538	2003	0523	2119	0634	9
10	1712	0700	1933	0739	1817	0608	2014	0611	2100	0606	2157	0730	10
11	1827	0752	2038	0811	1922	0638	2115	0647	2153	0654	2231	0827	11
12	1940	0835	2141	0841	2025	0709	2215	0727	2240	0746	2301	0924	12
13	2049	0912	2243	0912	2128	0740	2310	0812	2322	0841	2329	1020	13
14	2155	0944	2344	0943	2230	0814	.....	0901	2358	0938	2356	1116	14
15	2257	1014	.....	1018	2330	0851	0001	0954	.....	1035	.....	1212	15
16	2358	1044	0045	1056	.....	0933	0046	1050	0031	1132	0024	1310	16
17	.....	1113	0143	1139	0027	1019	0125	1148	0100	1228	0053	1412	17
18	0058	1145	0238	1226	0121	1110	0200	1245	0128	1325	0125	1517	18
19	0157	1220	0329	1319	0209	1204	0232	1343	0156	1424	0203	1625	19
20	0255	1259	0415	1414	0252	1301	0301	1440	0224	1525	0248	1736	20
21	0352	1344	0456	1512	0329	1359	0329	1539	0256	1630	0342	1845	21
22	0445	1433	0532	1611	0403	1457	0358	1640	0331	1738	0446	1948	22
23	0534	1527	0604	1709	0433	1556	0428	1744	0413	1849	0557	2042	23
24	0618	1623	0633	1808	0502	1655	0501	1850	0502	2000	0712	2129	24
25	0657	1722	0701	1906	0530	1754	0539	2000	0601	2106	0825	2208	25
26	0732	1820	0729	2006	0559	1856	0623	2110	0708	2204	0935	2242	26
27	0802	1918	0758	2107	0630	2000	0716	2218	0820	2253	1042	2314	27
28	0831	2016	0829	2211	0704	2107	0817	2319	0932	2335	1146	2344	28
29	0858	2114	.....	.....	0743	2216	0924	.....	1042	.....	1248	.....	29
30	0926	2213	.....	.....	0829	2324	1034	0012	1149	0010	1349	0015	30
31	0954	2314	.....	.....	0924	.....	.....	.....	1252	0042	.....	.....	31
Day	JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER		Day
	Ri se h m	Set h m	Ri se h m	Set h m	Ri se h m	Set h m	Ri se h m	Set h m	Ri se h m	Set h m	Ri se h m	Set h m	
1	1450	0047	1630	0131	1708	0304	1636	0345	1635	0526	1638	0625	1
2	1550	0122	1717	0223	1738	0401	1703	0441	1713	0631	1737	0732	2
3	1648	0202	1758	0318	1807	0458	1732	0539	1758	0737	1843	0835	3
4	1743	0246	1834	0415	1834	0554	1803	0639	1851	0844	1954	0931	4
5	1833	0335	1906	0512	1901	0651	1837	0741	1952	0949	2106	1019	5
6	1918	0428	1936	0608	1930	0748	1917	0845	2058	1047	2215	1100	6
7	1958	0524	2003	0704	2001	0848	2004	0951	2207	1138	2322	1136	7
8	2033	0621	2030	0800	2036	0949	2058	1056	2316	1222	.....	1209	8
9	2104	0718	2057	0856	2117	1053	2159	1157	.....	1300	0027	1240	9
10	2132	0814	2126	0954	2206	1158	2306	1252	0024	1335	0130	1312	10
11	2159	0909	2158	1054	2302	1302	.....	1340	0129	1407	0233	1345	11
12	2226	1005	2235	1156	.....	1402	0015	1422	0233	1438	0336	1421	12
13	2254	1102	2319	1301	0006	1456	0124	1500	0337	1510	0438	1501	13
14	2324	1200	.....	1407	0115	1544	0232	1534	0441	1544	0539	1545	14
15	2358	1302	0011	1512	0226	1625	0338	1606	0544	1622	0637	1635	15
16	.....	1407	0112	1612	0337	1702	0444	1638	0647	1704	0730	1728	16
17	0038	1515	0220	1705	0447	1736	0549	1711	0748	1751	0817	1825	17
18	0126	1623	0333	1751	0555	1808	0654	1747	0845	1843	0858	1922	18
19	0224	1728	0447	1831	0702	1841	0759	1827	0937	1937	0935	2018	19
20	0331	1827	0559	1907	0808	1915	0902	1911	1022	2034	1007	2114	20
21	0444	1917	0709	1940	0913	1953	1002	2000	1101	2131	1036	2208	21
22	0600	2001	0817	2012	1017	2034	1056	2053	1136	2227	1103	2303	22
23	0713	2038	0923	2045	1118	2119	1145	2148	1206	2323	1130	2358	23
24	0824	2112	1027	2120	1215	2209	1227	2245	1235	.....	1157	.....	24
25	0931	2144	1131	2158	1306	2303	1305	2341	1302	0018	1226	0054	25
26	1036	2215	1232	2240	1352	2359	1337	.....	1329	0113	1259	0153	26
27	1139	2247	1330	2326	1432	.....	1407	0038	1358	0210	1337	0256	27
28	1242	2322	1424	.....	1507	0055	1435	0133	1429	0309	1422	0401	28
29	1343	.....	1513	0017	1539	0152	1503	0229	1505	0411	1516	0509	29
30	1442	0001	1556	0111	1608	0248	1531	0326	1548	0517	1619	0614	30
31	1538	0043	1634	0207	.....	.....	1601	0425	.....	.....	1844	0715	31

Time meridi an 75° W. 0000 is mi dnight. 1200 is noon.

Galveston, Texas

Day	JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE		Day
	Ri se h m	Set h m	Ri se h m	Set h m	Ri se h m	Set h m	Ri se h m	Set h m	Ri se h m	Set h m	Ri se h m	Set h m	
1	1023	2221	1029	.....	0908	2310	1034	0018	1149	0049	1352	0111	1
2	1052	2318	1107	0012	0950	.....	1141	0116	1254	0129	1451	0143	2
3	1122	.....	1152	0118	1040	0016	1249	0206	1357	0205	1550	0215	3
4	1154	0016	1245	0225	1137	0122	1356	0250	1457	0237	1648	0250	4
5	1229	0118	1346	0332	1241	0224	1501	0329	1557	0309	1747	0328	5
6	1311	0223	1455	0434	1349	0320	1604	0403	1656	0340	1844	0410	6
7	1401	0332	1607	0529	1459	0410	1705	0436	1756	0414	1937	0457	7
8	1500	0442	1718	0617	1607	0452	1806	0508	1856	0450	2026	0548	8
9	1607	0550	1828	0659	1713	0530	1907	0540	1954	0529	2110	0642	9
10	1720	0651	1934	0736	1817	0605	2007	0615	2051	0614	2149	0737	10
11	1834	0744	2037	0809	1920	0637	2107	0652	2143	0702	2224	0833	11
12	1945	0829	2138	0841	2021	0710	2205	0734	2231	0754	2255	0928	12
13	2051	0907	2238	0914	2122	0743	2300	0820	2313	0849	2325	1022	13
14	2155	0942	2338	0947	2222	0819	2351	0910	2350	0945	2354	1116	14
15	2255	1013	.....	1023	2321	0857	.....	1003	.....	1040	.....	1211	15
16	2354	1045	0036	1103	.....	0940	0036	1058	0024	1135	0023	1308	16
17	.....	1116	0134	1147	0018	1027	0117	1154	0055	1230	0054	1407	17
18	0052	1150	0228	1235	0111	1118	0153	1250	0125	1326	0128	1511	18
19	0149	1226	0319	1327	0159	1212	0226	1346	0154	1422	0208	1618	19
20	0246	1307	0405	1422	0242	1308	0257	1442	0225	1522	0255	1727	20
21	0342	1352	0447	1519	0321	1405	0326	1539	0258	1625	0350	1835	21
22	0435	1442	0524	1616	0356	1502	0357	1638	0335	1731	0455	1939	22
23	0524	1535	0557	1713	0428	1558	0429	1740	0419	1841	0606	2034	23
24	0609	1631	0629	1809	0458	1655	0504	1845	0510	1950	0719	2122	24
25	0649	1728	0658	1906	0528	1753	0544	1953	0610	2056	0830	2203	25
26	0724	1824	0728	2004	0559	1853	0630	2102	0717	2155	0938	2239	26
27	0757	1921	0759	2104	0632	1956	0724	2209	0828	2245	1043	2312	27
28	0827	2017	0831	2206	0708	2101	0826	2310	0938	2328	1145	2344	28
29	0856	2113	.....	.....	0749	2208	0933	.....	1046	.....	1245	.....	29
30	0925	2210	.....	.....	0837	2315	1041	0003	1150	0006	1344	0017	30
31	0956	2310	.....	.....	0932	.....	.....	.....	1252	0039	.....	.....	31
Day	JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER		Day
	Ri se h m	Set h m	Ri se h m	Set h m	Ri se h m	Set h m	Ri se h m	Set h m	Ri se h m	Set h m	Ri se h m	Set h m	
1	1443	0051	1620	0139	1701	0310	1633	0346	1638	0522	1646	0617	1
2	1542	0128	1707	0231	1733	0405	1702	0441	1719	0624	1745	0723	2
3	1639	0209	1749	0326	1803	0500	1733	0537	1805	0730	1852	0826	3
4	1733	0254	1826	0421	1832	0555	1805	0635	1859	0836	2001	0922	4
5	1823	0343	1900	0517	1901	0650	1842	0735	2000	0939	2111	1011	5
6	1909	0436	1931	0612	1931	0746	1923	0838	2106	1038	2219	1054	6
7	1949	0531	2000	0706	2004	0843	2011	0942	2214	1130	2324	1132	7
8	2025	0627	2028	0800	2041	0944	2106	1046	2321	1215	.....	1207	8
9	2058	0722	2057	0855	2124	1046	2208	1147	.....	1255	0027	1240	9
10	2128	0817	2128	0951	2214	1150	2314	1243	0027	1331	0128	1313	10
11	2156	0911	2202	1049	2311	1253	.....	1332	0130	1405	0229	1348	11
12	2225	1005	2241	1150	.....	1353	0021	1416	0232	1438	0330	1426	12
13	2254	1100	2326	1253	0014	1447	0128	1455	0334	1512	0431	1507	13
14	2326	1157	.....	1358	0123	1536	0234	1530	0436	1548	0530	1553	14
15	.....	1257	0019	1502	0232	1619	0339	1605	0538	1627	0627	1643	15
16	0002	1400	0120	1603	0341	1657	0442	1639	0640	1711	0720	1736	16
17	0044	1506	0229	1657	0449	1733	0546	1714	0739	1759	0808	1832	17
18	0134	1614	0340	1744	0555	1808	0649	1752	0836	1851	0850	1928	18
19	0233	1719	0452	1826	0659	1843	0752	1833	0927	1945	0927	2023	19
20	0340	1818	0602	1903	0803	1919	0854	1918	1013	2041	1000	2117	20
21	0452	1910	0710	1939	0907	1958	0952	2008	1053	2137	1031	2210	21
22	0606	1955	0815	2013	1009	2041	1047	2101	1129	2231	1100	2303	22
23	0717	2034	0919	2048	1109	2127	1135	2156	1201	2325	1128	2356	23
24	0826	2109	1022	2124	1205	2218	1219	2251	1231	.....	1157	.....	24
25	0931	2143	1123	2204	1257	2311	1257	2347	1259	0019	1228	0051	25
26	1033	2216	1224	2247	1343	.....	1331	.....	1328	0112	1302	0149	26
27	1135	2251	1321	2334	1423	0006	1402	0041	1359	0207	1342	0250	27
28	1235	2327	1415	.....	1500	0101	1432	0136	1432	0305	1429	0354	28
29	1335	.....	1503	0025	1533	0157	1501	0230	1510	0406	1524	0500	29
30	1433	0007	1547	0119	1603	0252	1531	0325	1554	0510	1628	0605	30
31	1528	0051	1626	0214	.....	.....	1603	0422	.....	.....	1850	0706	31

Time meridi an 90° W. 0000 is midnight. 1200 is noon.

Panama Canal (east end)

Day	JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE		Day
	Ri se h m	Set h m	Ri se h m	Set h m	Ri se h m	Set h m	Ri se h m	Set h m	Ri se h m	Set h m	Ri se h m	Set h m	
1	1011	2225	1053	2339	0938	2230	1120	.....	1216	0013	1341	0113	1
2	1050	2311	1140	.....	1028	2329	1222	0027	1311	0103	1430	0154	2
3	1129	2359	1232	0035	1124	.....	1323	0124	1404	0148	1520	0236	3
4	1211	.....	1330	0136	1223	0030	1420	0216	1454	0231	1610	0319	4
5	1256	0051	1433	0239	1326	0132	1515	0305	1543	0313	1702	0404	5
6	1347	0146	1538	0343	1429	0232	1608	0350	1633	0354	1754	0452	6
7	1443	0246	1643	0444	1530	0329	1658	0433	1723	0437	1847	0542	7
8	1546	0351	1745	0541	1628	0422	1749	0515	1815	0521	1937	0633	8
9	1653	0457	1844	0633	1724	0510	1840	0558	1908	0608	2025	0725	9
10	1801	0602	1939	0721	1817	0555	1931	0641	2001	0657	2110	0815	10
11	1905	0703	2031	0805	1908	0639	2024	0727	2053	0748	2153	0904	11
12	2006	0758	2122	0848	1959	0722	2117	0815	2143	0840	2233	0951	12
13	2102	0847	2212	0931	2050	0805	2209	0905	2230	0931	2311	1037	13
14	2154	0933	2302	1013	2142	0849	2301	0956	2314	1021	2349	1122	14
15	2244	1015	2353	1058	2235	0936	2349	1047	2355	1109	.....	1208	15
16	2332	1056	.....	1144	2327	1024	.....	1138	.....	1156	0027	1255	16
17	.....	1137	0045	1232	.....	1114	0036	1228	0035	1242	0108	1344	17
18	0021	1219	0136	1322	0019	1205	0119	1316	0114	1328	0151	1437	18
19	0111	1303	0227	1413	0109	1256	0200	1403	0152	1415	0240	1536	19
20	0201	1350	0317	1504	0157	1347	0240	1450	0233	1504	0334	1638	20
21	0252	1438	0404	1555	0242	1436	0319	1537	0315	1557	0435	1744	21
22	0343	1529	0448	1644	0325	1524	0359	1626	0402	1654	0540	1849	22
23	0434	1620	0530	1732	0406	1612	0441	1717	0455	1755	0647	1951	23
24	0522	1711	0610	1819	0446	1659	0526	1812	0553	1900	0752	2048	24
25	0608	1801	0650	1906	0525	1747	0615	1911	0656	2005	0854	2139	25
26	0651	1849	0729	1954	0606	1837	0709	2013	0801	2108	0952	2226	26
27	0732	1937	0809	2043	0648	1929	0809	2117	0906	2206	1045	2310	27
28	0812	2023	0852	2135	0734	2024	0912	2220	1008	2259	1137	2353	28
29	0850	2109	.....	.....	0824	2123	1015	2319	1106	2347	1227	.....	29
30	0929	2157	.....	.....	0919	2224	1117	.....	1200	.....	1317	0035	30
31	1009	2246	.....	.....	1018	2326	.....	.....	1251	0031	.....	.....	31
Day	JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER		Day
	Ri se h m	Set h m	Ri se h m	Set h m	Ri se h m	Set h m	Ri se h m	Set h m	Ri se h m	Set h m	Ri se h m	Set h m	
1	1407	0118	1530	0225	1630	0341	1625	0355	1703	0457	1728	0531	1
2	1458	0202	1619	0316	1710	0429	1703	0441	1751	0550	1829	0633	2
3	1550	0249	1706	0407	1749	0515	1743	0527	1845	0647	1934	0737	3
4	1642	0338	1750	0457	1827	0600	1825	0616	1943	0748	2037	0838	4
5	1733	0429	1832	0546	1905	0646	1910	0706	2044	0849	2139	0935	5
6	1822	0520	1911	0632	1945	0732	1959	0800	2147	0950	2237	1027	6
7	1908	0611	1949	0718	2027	0820	2053	0857	2248	1048	2331	1115	7
8	1951	0701	2027	0803	2112	0911	2151	0957	2346	1142	.....	1200	8
9	2032	0749	2105	0848	2202	1005	2252	1057	.....	1231	0024	1244	9
10	2111	0835	2145	0934	2257	1103	2353	1156	0042	1317	0115	1327	10
11	2148	0920	2227	1023	2356	1202	.....	1252	0135	1401	0206	1411	11
12	2226	1004	2314	1115	.....	1303	0053	1344	0226	1444	0258	1457	12
13	2304	1050	.....	1210	0058	1402	0151	1433	0318	1528	0351	1545	13
14	2346	1137	0006	1309	0200	1458	0246	1519	0410	1613	0444	1635	14
15	.....	1227	0104	1411	0301	1551	0340	1604	0503	1701	0538	1727	15
16	0030	1322	0206	1513	0400	1640	0433	1649	0557	1750	0631	1820	16
17	0121	1420	0310	1614	0456	1727	0526	1734	0652	1842	0722	1912	17
18	0217	1523	0414	1710	0551	1812	0619	1820	0746	1935	0809	2002	18
19	0318	1628	0517	1803	0645	1857	0714	1909	0839	2028	0853	2050	19
20	0424	1731	0616	1851	0739	1943	0809	2000	0928	2119	0934	2136	20
21	0530	1831	0712	1938	0833	2031	0904	2053	1014	2208	1013	2221	21
22	0635	1926	0806	2022	0927	2120	0957	2145	1057	2256	1050	2304	22
23	0736	2016	0859	2107	1022	2211	1048	2237	1137	2341	1127	2349	23
24	0833	2103	0952	2153	1115	2303	1136	2327	1215	.....	1205	.....	24
25	0927	2147	1045	2240	1207	2355	1220	.....	1253	0026	1244	0034	25
26	1019	2231	1139	2329	1256	.....	1302	0016	1331	0110	1328	0123	26
27	1111	2315	1232	.....	1343	0046	1342	0103	1410	0156	1415	0215	27
28	1202	2359	1324	0020	1426	0135	1420	0148	1453	0244	1509	0311	28
29	1254	.....	1414	0111	1507	0223	1458	0233	1539	0336	1608	0412	29
30	1346	0046	1502	0202	1546	0310	1537	0319	1631	0431	1711	0515	30
31	1438	0135	1547	0252	.....	.....	1618	0407	.....	.....	1922	0618	31

Time meridi an 75° W. 0000 is mi dni ght. 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

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 Dif-ferences				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	-0.10	-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	1984	>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	0.00

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).

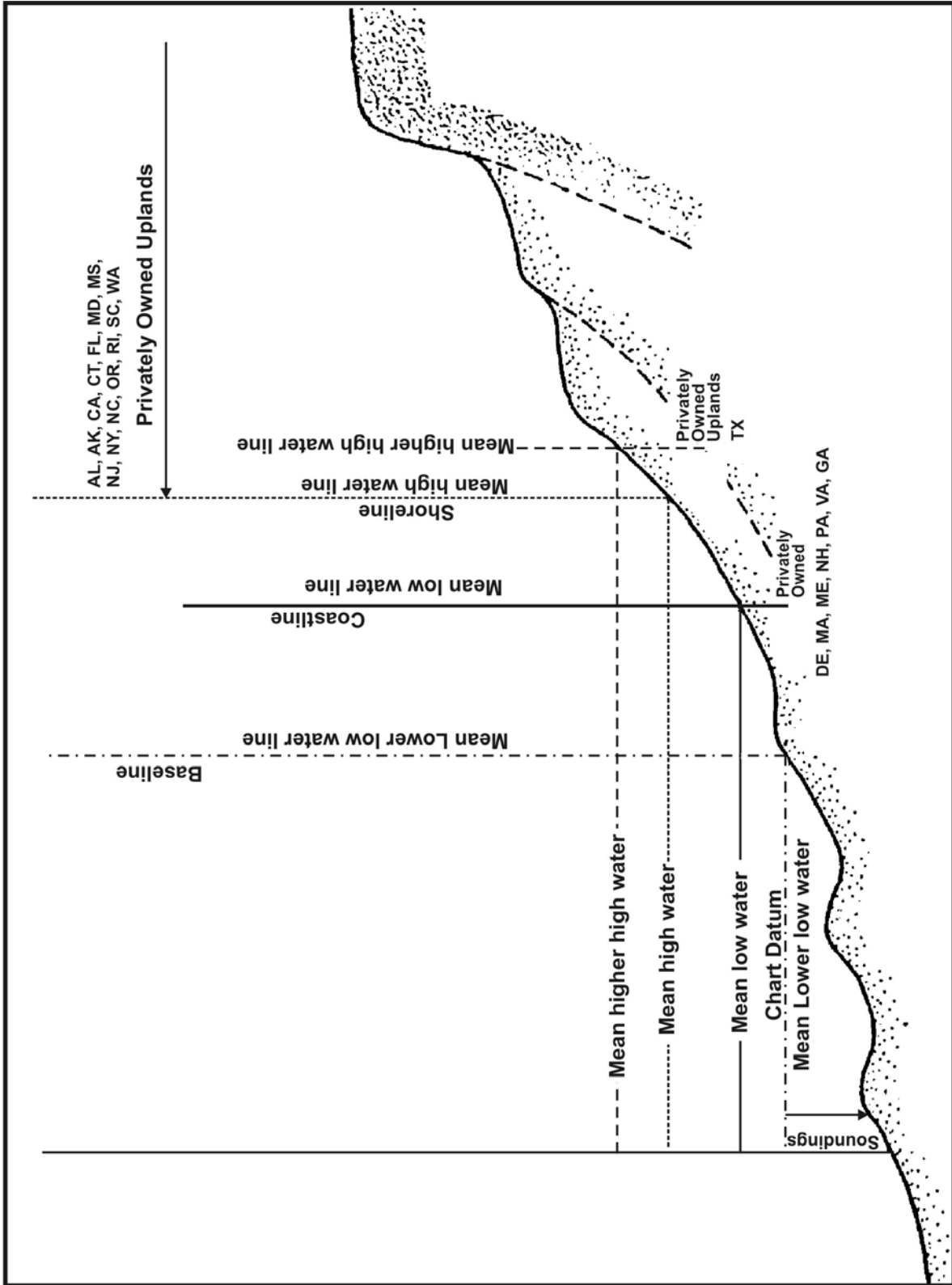
TIDAL CURRENT TABLES

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:

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

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

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

GLOSSARY OF TERMS

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

GLOSSARY OF TERMS

- 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.

GLOSSARY OF TERMS

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.

SEMIDIURNAL—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

GLOSSARY OF TERMS

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.

INDEX TO STATIONS
(Numbers refer to table 2)

[Stations marked with an asterisk (*) are reference stations for which daily predictions are given in table 1. Page numbers of reference stations are given in parentheses.]

A	No.	No.
Abbapoola Creek ent., S.C.	2711	Apalachicola River (A&N RR bridge) 4117
Abbots Meadow, N.J.	1729	Lower Anchorage. 4119
Abraham Bay, Bahamas.	4477	West Pass. 4121
Abrolhos Anchorage, Brazil.	4775	Ape Hole Creek, Md. 1937
Absecon Channel, N.J.	1561	Appomattox River, Va. 2273
Absecon Creek, N.J.	1559	Aquia Creek, Va. 2127
Absecon, N.J.	1559	Aracaju, Brazil. 4755
Acklin Island, Bahamas.	4473	Arctic Archipelago. 1-41
Adams Key, Fla.	3515	Argentina, Newfoundland * (4). 239
Admiralty Bay, South Shetland Islands.	4959	Argentina. 4823-4937
Airy Hall Plantation, S.C.	2803	Ari chat, Nova Scotia. 471
Alabama. 4173-4189		Ari ege Bay, Newfoundland. 215
Albany, N.Y. * (80). 1343		Ari peka, Fla. 4035
Albemarle and Pamlico Sounds, N.C.	2315	Armacao dos Buzios, Brazil. 4785
Albergottie Creek, S.C.	2879	Arroyo, Puerto Rico. 4573
Alberton, Prince Edward Island. 411		Arsook Fjord, Greenland. 71
Alert, Arctic. 35		Arthur Kill. 1383-1393
Alexandria, Va. 2139		Artificial Island, N.J. 1725
Allanton, East Bay, Fla. 4137		Aruba, Lesser Antilles. 4627
Allied Chemical Corp. Docks, Ga. 3091		Arundel Plantation, S.C. 2531
Alligator Bayou, Fla. 4141		Ashe Inlet, Hudson Strait. 127
Alligator Point, Fla. 4097		Ashepoo, S.C. 2805
Alligator Point, Texas. 4353		Ashepoo-Coosaw Cutoff, S.C. 2793
Alligator Reef Light, Fla. 3585		Ashepoo River, S.C. 2791-2805
Alloway Creek, N.J. 1727-1737		Ashley River, S.C. 2679-2697
Alloway, N.J. 1737		Assateague Beach, Toms Cove, Va. 1865
Alston Creek, S.C. 2483		Assiscunk Creek, N.J. 1837
Almirante Bay, Panama. 4431		Assistance Bay. 25
Alpine, N.J. 1319		Atchafalaya Bay, La. 4295-4307
Altamaha Sound, Ga. 3055-3073		Atlantic Beach, Fla. 3253
Alvarado, Mexico. 4393		Atlantic Beach Bridge, N.C. 2387
Amazon River. 4709-4713		Atlantic Beach, N.C. 2383, 2391
Amelia City, Fla. 3155		Atlantic City, N.J. * (88). 1563
Amelia Earhart Dam, Mass. 853		Atlantic Heights, N.H. 807
Amelia River, Fla. 3151, 3155		Atlantic Highlands, N.J. 1421
Amherst Harbour, Gulf of St. Lawrence. 433		Auburn, N.J. 1779
Amherst Point, Nova Scotia. 555		Aucilla River, Fla. 4085
Amityville, N.Y. 1255		Auld Cove, Nova Scotia. 447
Amuay, Venezuela * (268). 4649		Avalon, Md. 2003
Anacostia River. 2145-2151		Avon River, Nova Scotia. 543
Anclote, Fla. 4021		Awandaw Creek, S.C. 2593
Anclote Keys, Fla. 4019, 4025		
Anclote River, Fla. 4021, 4023		B
Ancona, Fla. 3337		Babylon, N.Y. 1251
Andrews Ave. bridge, New River, Fla. 3439		Back Bay, New Brunswick. 589
Andros Island, Bahamas. 4447		Back Cove, Maine. 761
Androscoggin River, Maine. 727, 729		Back Creek, N.J. 1687, 1689
Anglin Fishing Pier, Fla. 3435		Back River, Ga. 2969
Angmagssalik, Greenland. 57		Back River, Maine. 713
Angra dos Reis, Brazil. 4793		Back River, S.C. 2969
Aningaq, Greenland. 85		Back River, Va. 2219
Anna Maria Key, Fla. 3965, 3967		Back River Reservoir, S.C. 2663
Annapolis, Severn River, Md. 2067		Baffin Bay, Greenland. 101-109
Annapolis River, Nova Scotia. 533		Baffin Bay, Texas. 4373
Annapolis Royal, Nova Scotia. 533		Baffin Island. 111-115, 129
Annette Key, Fla. 3709		Bahamas. 4443-4479
Annisquam, Mass. 835		Bahia Anegada, Argentina. 4861
Anthony Point, R.I. 995		Bahia Blanca, Argentina. 4843-4851
Anticosti Island, Quebec. 303-307		Bahia Bustamante, Argentina. 4913
Antigonish Harbour, Nova Scotia. 443		Bahia Camarones, Argentina. 4903
Antilla, Cuba. 4493		Bahia Cruz, Argentina. 4899
Apalachee Bay, Fla. 4085-4099		Bahia de Cal edonia, Panama. 4435
Apalachicola Bay, Fla. 4109-4121		Bahia de Cartagena, Colombia. 4635
Apalachicola * (196). 4115		Bahia de Cienfuegos, Cuba. 4513, 4515
		Bahia de Levi sa entrance, Cuba. 4495

	No.		No.
Bahia de los Nodales, Argentina.....	4923	Bayou La Batre, Ala.....	4189
Bahia de Nipe, Cuba.....	4491, 4493	Bayou Rigaud, Grand Isle, La.....	4273
Bahia de Nuevitas, Cuba.....	4483, 4485	Bayport, Fla.....	4039
Bahia de Sagua de Tanamo, Cuba.....	4497	Bayport, Va.....	2171
Bahia de Tablazos, Venezuela.....	4645	Bayville, Va.....	2289
Bahia Engano, Argentina.....	4891	Bayville Bridge, N.Y.....	1169
Bahia Gil, Argentina.....	4907	Beach Channel (bridge), N.Y.....	1283
Bahia Honda, Cuba.....	4523	Beach Creek, Ga.....	3127
Bahia Honda Channel, Fla.....	3683, 3691	Beach Hammock, Ga.....	2977
Bahia Honda Key, Fla.....	3681, 3683	Beach Haven Crest, N.J.....	1519
Bahia Honda Key Channel, Fla.....	3681	Beach Haven Coast Guard Station, N.J....	1531
Bahia Janssen, Argentina.....	4895	Beach Point, Mass.....	893
Bahia Laura, Argentina.....	4925	Bear Cut, Fla.....	3487
Bahia Mar Yacht Club, Fla.....	3437	Bear River, Ga.....	3001, 3011
Bahia Oso Marino, Argentina.....	4921	Bear River Entrance, Ga.....	3013
Bahia San Blas, Argentina.....	4863	Beaufort Inlet Channel Range, N.C.....	2365
Bahia San Julian, Argentina.....	4927	Beaufort, N.C.....	2367, 2369
Bahia San Sebastian, Argentina.....	4939	Beaufort River, S.C.....	2861-3231
Bahia Thetis, Argentina.....	4945	Beaufort, S.C.....	2875
Baie Verte, New Brunswick.....	407	Beaujeu Channel, Quebec.....	345
Bailey Cut, Ga.....	3113	Beaver Dam, N.J.....	1749
Baileys Landing, S.C.....	2895	Beaverdam Creek, N.J.....	1453, 1455
Bakers Haulover Inlet (inside), Fla....	3471	Beavertail Point, R.I.....	1003
Bald Head, N.C.....	2409	Beckwiths Creek, Md.....	1987
Bald Point, Fla.....	4093	Beechy Island, Arctic.....	23
Baldwin Bay, N.Y.....	1271	Bees Ferry, S.C.....	2691
Ballast Point, Fla.....	3983	Beesleys Point, N.J.....	1573
Baltimore, Md. * (108).....	2057	Belém (Para), Brazil.....	4719
Baltimore Harbor, Md.....	2057-2059	Belfast, Ga.....	3017
Banana Creek, Fla.....	3289	Belfast River, Ga.....	3017
Banana River, Fla.....	3289-3299	Belfast, Maine.....	665
Banco Chico, Argentina.....	4827	Belize.....	4401, 4403
Banco Cui rasser, Argentina.....	4829	Belize City, Belize.....	4401
Bangor, Maine.....	663	Belleoram, Newfoundland.....	251
Bannermans Bridge, N.C.....	2431	Belleville, N.J.....	1357
Bar Harbor, Maine * (32).....	623	Belleville, Va.....	2195
Baracoa, Cuba.....	4499	Bellevue, D.C.....	2141
Barahona, Dominican Republic.....	4561	Belmore, N.Y.....	1267
Barataria Bay, La.....	4273-4277	Bellmore Creek, N.Y.....	1267
Barataria Pass, La.....	4269	Bellot Strait, Arctic.....	17
Barbados, Lesser Antilles.....	4619	Bellville Point, Ga.....	3043
Barbour Island, Ga.....	3037	Bells River, Fla.....	3147, 3145
Barbour Island River, Ga.....	3035-3037	Belmar, N.J.....	1445
Barnegat Bay, N.J.....	1463-1503	Ben Sawyer Bridge, S.C.....	2621
Barnegat Inlet, N.J.....	1497	Benedict, Md.....	2091
Barnegat Pier, N.J.....	1479	Bennet's Dock, S.C.....	2491
Barnes Sound, Fla.....	3533, 3535	Berkley Sound, Falkland Is.....	4947
Barnstable Harbor, Mass.....	893	Bermuda Esso Pier * (240).....	4441
Barra de Maturin, Venezuela.....	4665	Bermuda Islands.....	4437, 4439
Barra do Rio Grande, Brazil.....	4817	Bernard Bayou, Miss.....	4205
Barren Island, Jamaica Bay, N.Y.....	1281	Berrys Creek, N.J.....	1367
Barren Island, Md.....	1979	Berthier, Quebec.....	349
Barrington Passage, Nova Scotia.....	517	Betchewun Harbour, Quebec.....	297
Barron River, Fla.....	3885	Betsiamites River, Quebec.....	325
Barrow Strait, Arctic.....	23-27	Betterton, Md.....	2037
Bass Harbor, Maine.....	627	Biddeford, Maine.....	779
Bass River, Mass.....	915	Bidwell Creek, N.J.....	1635, 1637
Bastian Island, La.....	4265	Big Bay Creek, S.C.....	2759-2763
Batiscan, Quebec.....	367	Big Copitt Key, Fla.....	3841
Bath, Maine.....	723	Big Island, Ashe Inlet, Hudson Bay.....	127
Bathurst, New Brunswick.....	387	Big Marco River, Fla.....	3911
Battery Creek, S.C.....	2873	Big Paradise Island, S.C.....	2675
Battle Harbour, Labrador.....	205	Big Pine Key, Fla.....	3685-3735
Bay Aristocrat Village, Fla.....	3995	Big Spanish Channel, Fla.....	3691-3713
Bay d'Espoir, Newfoundland.....	253, 255	Big Spanish Key, Fla.....	3713
Bay Gardene, La.....	4237	Big Timber Creek, N.J.....	1809, 1811
Bay of Fundy.....	521-593	Big Torch Key, Fla.....	3751, 3739
Bay of Islands, Newfoundland.....	273	Billingsport, N.J.....	1797
Bay Point, Fla.....	4167	Billys Point, Fla.....	3509
Bay Shore, N.Y.....	1247	Biloxi, Biloxi Bay, Miss.....	4203
Bay Spring, R.I.....	1021	Biltmore Shores, N.Y.....	1257
Bayonne Bridge, N.Y. * (76).....	1349	Biological Station, Bermuda Is.....	4439
Bayou Boufouca, La.....	4219	Birch Islands, Maine.....	601
Bayou Cumbest, Miss.....	4191	Bird Key, Fla.....	3833

	No.		No.
Caleta Leones, Argentina.....	4905	Capers Inlet, S.C.....	2605
Caleta Valdes, Argentina.....	4881	Capers Island, S.C.....	2601, 2603, 2607
Calibogue Cay, S.C.....	2921	Capers Island, Port Royal Sound, S.C...	2849
Calibogue Sound, S.C.....	2919-2953	Captain Alex's Marina, S.C.....	2479
Callawassie Creek, S.C.....	2889	Captiva Island, Fla.....	3933, 3935, 3937
Callawassie Island, S.C.....	2891	Carapachi bey, Cuba.....	4517
Callawassie Island Bridge, S.C.....	2893	Caraquet Harbour, New Brunswick.....	389
Caloosahatchee River, Fla.....	3923-3927	Caravelas, Brazil.....	4773
Camamu, Brazil.....	4763	Card Sound, Fla.....	3519-3529
Cambridge, Md.....	1989	Cardenas, Cuba.....	4529
Cambridge Bay, Arctic.....	11	Carenage Bay, Trinidad.....	4675
Caminada Pass, La.....	4279	Carenero, Venezuela.....	4653
Camocim, Brazil.....	4731	Carl eton Point, Quebec.....	381
Camp Ellis, Maine.....	777	Carlos Point, Fla.....	3913
Camp Lloyd, Greenland.....	79	Carlstadt, N.J.....	1369
Camp Michigan, Greenland.....	83	Carr Creek, S.C.....	2527
Campbellton, New Brunswick.....	383	Carrabelle, Carrabelle River, Fla.....	4103
Campobello Island, New Brunswick.....	585, 587	Cartagena, Colombia.....	4635
Canaday Landing, S.C.....	2781	Carteret, N.J.....	1389
Canal Bermejo, Argentina.....	4855	Carter's Cut, Fla.....	3299
Canal de Braganca, Brazil.....	4715	Carters Dock, S.C.....	2761
Canal del Sur, Argentina.....	4853	Cartwright Harbour, Labrador.....	195
Cananea, Brazil.....	4801	Carupano, Venezuela.....	4659
Canarsie, N.Y.....	1293	Carysfort Reef, Fla.....	3539
Canavieiras, Brazil.....	4767	Casco Bay, Maine.....	733-773
Cane Patch Creek, Ga.....	3003	Casilda, Cuba.....	4511
Canova Beach, Fla.....	3307	Casino Creek, S.C.....	2585
Canso, Strait of, Nova Scotia.....	473	Castine, Maine.....	653
Canso Harbour, Nova Scotia.....	477	Castle Hayne, N.C.....	2429
Canton, N.J.....	1711	Castle Hill, R.I.....	999
Cap a la Roche, Quebec.....	365	Castleton-on-Hudson, N.Y.....	1341
Cap Chat, Quebec.....	317	Castors Harbour, Newfoundland.....	281
Cape Adair, Arctic.....	107	Castries, St. Lucia.....	4613
Cape Bear, Prince Edward Island.....	425	Cat Island, Bahamas.....	4465
Cape Borgen, Arctic.....	45	Cat Island, Miss.....	4207
Cape Breton Island, Nova Scotia.....	449-453	Cat Point, Fla.....	4113
Cape Bryant, Arctic.....	39	Cathance River, Maine.....	731
Cape Canaveral, Fla.....	3279	Cawee Islands, Quebec.....	313
Cape Cassipore, Brazil.....	4703	Caxambas Pass, Fla.....	3893
Cape Charles Harbor, Va.....	1917	Cay Sal Bank, Bahamas.....	4445
Cape Cod, Mass.....	901-907	Cayenne, French Guiana.....	4701
Cape Cod Bay, Mass.....	881-899	Cayos de Perlas, Nicaragua.....	4421
Cape Cod Canal, Mass.....	885-891, 965	Cedar Beach, New York.....	1183
Cape Columbia, Arctic.....	33	Cedar Creek, Delaware Bay, N.J.....	1683, 1685
Cape Coral Bridge, Fla.....	3925	Cedar Creek, Barnegat Bay, N.J.....	1483
Cape Dyer, Baffin Island.....	115	Cedar Heights, Fla.....	3205
Cape Fear, N.C.....	2407	Cedar Island, S.C.....	2565
Cape Fear River, N.C.....	2409-2431	Cedar Island Point, S.C.....	2571
Cape George, Nova Scotia.....	441	Cedar Key, Fla. * (188).....	4069
Cape Hatteras, N.C. * (132).....	2339, 2341	Cedar Run, N.J.....	1515
Cape Henry, Va.....	2299	Cedar Swamp Creek, N.J.....	1579
Cape Hewett, Arctic.....	109	Cedar Tree Neck, Mass.....	941
Cape Hooper, Baffin Island.....	111	Cedarville, N.J.....	1685
Cape Island Creek, N.J.....	1621	Center Harbor, Maine.....	637
Cape Jack, Nova Scotia.....	445	Centreville Landing, Md.....	2021
Cape Lawrence, Arctic.....	103	Ceylon, Ga.....	3115
Cape Lookout, N.C.....	2351, 2353	Chaleur Bay, Canada.....	377-391
Cape May Inlet, N.J.....	1615-1619	Champlain, Quebec.....	369
Cape May, N.J.....	1621, 1623	Champney Island, Ga.....	3069
Cape May (ferry terminal), N.J.....	1629	Chance, Md.....	1955
Cape May Harbor, N.J.....	1619	Chandel eur Light, La.....	4233
Cape May Point, N.J.....	1627	Channel Five, Fla.....	3615, 3617
Cape Morris Jesup, Arctic.....	41	Channel Key, Fla.....	3847
Cape Neddic k, Maine.....	787	Channel Marker Lt. #59, N.C.....	2359
Cape Porpoise, Maine.....	781	Channel No. 3, Saddlebunch Keys, Fla...	3831
Cape Roman, S.C.....	2581	Channel No. 4, Saddlebunch Keys, Fla...	3829
Cape Roman, S.C., 46 miles E. of.....	2583	Channel No. 5, Saddlebunch Keys, Fla...	3827
Cape Romano, Fla.....	3897	Channel Two, Fla.....	3611, 3613
Cape Sabine, Greenland.....	105	Chappaquiddic k Island, Mass.....	933
Cape Sable, East Cape, Fla.....	3871	Chappaquoi t Pt., Mass.....	959
Cape Sheridan, Arctic.....	37	Charles City, Va.....	2267
Cape Tormentine, New Brunswick.....	405	Charles River, Mass.....	851
Capers Creek, S.C.....	2607	Charleston, S.C. * (144).....	2631
Capers Creek, Beaufort R., S.C.....	2869	Charleston Harbor, S.C.....	2623-2697

	No.		No.
Charlestown, Md.	2043	Cocheco River, N. H.	811
Charlestown, Mass.	851	Cocoa Beach, Fla.	3285
Charlotte Amalie, VI * (256)	4597	Cocoanut Key, Fla.	3667
Charlotte Harbor, Fla.	3945, 3947	Cocodrie, La.	4287
Charlottetown, Prince Edward Island	427	Cocohatchee River, Fla.	3905, 3907
Charlton Island, Hudson Bay	145	Coconut Point, Fla.	3911
Chassahowitzka Bay, Fla.	4041	Codroy Road, Newfoundland	267
Chassahowitzka, Fla.	4043	Coffee Bluff, Ga.	2993
Chateau Bay, Labrador	207	Coffins Point, Maine	599
Chatham, Mass.	901, 903	Cohansey River, N. J.	1691, 1693
Chatham River, Florida	3881	Cohasset Harbor, Mass.	873
Cheatham Annex, Va.	2207	Colburn Creek, Md.	1945
Chechessee Bluff, S. C.	2897	Cold Spring Harbor, N. Y.	1171
Chechessee River, S. C.	2885	Coles Neck, Va.	2107
Cheesequake Creek, N. J.	1409	College Point, N. Y.	1133
Chef Menteur Pass, La.	4225	Colleton River, S. C.	2887-2895
Chehaw River, S. C.	2821	Colombia	4629-4641
Chelsea, N. Y.	1387	Colonia, Uruguay	4821
Chelsea River, Mass.	855	Colonial Beach, Va.	2115
Cherry Grove, S. C.	2455	Colton's Point, Md.	2111
Cherry Island, Md.	1987	Combahee River, S. C.	2819-2831
Chesapeake and Delaware Canal	1753-1757	Combahee River Highway Bridge, S. C.	2827
Chesapeake Bay	1911-2299	Combination Bridge, ICWW, S. C.	2465
Chesapeake Bay Bridge Tunnel * (116)	2285	Comfort Bight, Labrador	199
Chesapeake Beach, Md.	2081	Comfort Island, La.	4235
Chesapeake City, Md.	1757	Comodoro Rivadavia, Argentina * (300)	4915
Chesconessex Creek, Va.	1925	Compton Creek, N. J.	1419
Chester, Bells River, Fla.	3145	Conanicut Island, R. I.	1003-1007
Chester, Mahone Bay, Nova Scotia	501	Concepton Bay, Newfoundland	231
Chester River, Md.	2017-2029	Conch Bar, Jupiter Sound, Fla.	3365
Chester, Va.	2277	Coney Island, N. Y.	1297
Chesterfield Inlet, Hudson Bay	135	Connecticut	1051-1123
Chestertown, Md.	2027	Connecticut River	1061-1085
Chetcamp, Nova Scotia	453	Connetquot River, N. Y.	1245
Chickahominy River, Va.	2259-2261	Connoire Bay, Newfoundland	261
Chicotmi, Quebec	333	Constable Hook, N. J.	1347
Chignecto Bay, Nova Scotia	551	Content Keys, Fla.	3757
Chincoteague Bay, Md. and Va.	1865-1885	Content Passage, Fla.	3757
Chincoteague Channel, Va.	1869	Conway, S. C.	2559
Chincoteague Island, Va.	1873-1879	Cook Landing, S. C.	2951
Choctawhatchee Bay, Fla.	4147, 4149	Coon Key, Fla.	3895
Chokoloskee, Fla.	3883	Coon Point, Fla.	3503
Choptank River, Md.	1989-1993	Cooper R., Charleston Hbr., S. C.	2635-2665
Christianssted, Virgin Islands	4601	Cooper R., Calibogue Sd., S. C.	2925-2931
Christina River, Del.	1771-1773	Cooper R., Delaware River, N. J.	1829
Christmas Point, Fla.	3513	Cooper R., RR Bridge, N. J.	1817
Christmas Bay, Texas	4355	Coopers Creek, N. J.	1733
Church Creek, S. C.	2753	Coosaw River, S. C.	2833-2845
Church Creek, Bohicket Ck., S. C.	2755	Coosawhatchie River, S. C.	2915
Church Flats, S. C.	2721	Coral Bay, N. C.	2391
Churchill, Hudson Bay	137	Coral Harbour, Hudson Bay	133
Cienfuegos, Cuba	4515	Coral Shoal, Fla.	3491
Cinnaminson, N. J.	1823	Core Creek Bridge, N. C.	2375
City Point, Va.	2271	Corey Causeway, Fla.	4005
Clairborne, Md.	2007	Cormorant Point, Fla.	3527
Clambank Creek Dock, S. C.	2485	Cornfield Creek, Md.	2063
Clapboard Creek, Fla.	3195	Cornfield Harbor, Md.	2097
Clarence Harbor, Bahamas	4469	Corning Landing, S. C.	2909
Claremont, Va.	2263	Cornwells Heights, Pa.	1833
Clarks Point, Mass.	977	Corpus Christi, Texas	4371
Clear Lake, Texas	4337	Corrotoman River, Va.	2167
Clearwater Fiord, Canada	117	Corsica River, Md.	2021
Clearwater, Fla.	4013	Corson Inlet, N. J.	1585-1589
Clearwater Beach, Fla.	4015	Cortez, Fla.	3961
Cliff Island, Maine	751	Cos Cob Harbor, Conn.	1123
Cliffs Point, Md.	2023	Cosgrove Bridge	2687
Cliffs Wharf, Md.	2025	Costa Rica	4429
Clifton Beach, Md.	2129	Cote Blanche, La.	4309
Clouter Creek, S. C.	2635, 2643	Cotuit Highlands, Mass.	919
Club Bridge Creek, S. C.	2851	County Landing, Station Creek, S. C.	2859
Coan River, Va.	2101	Coupon Bight, Fla.	3725
Coates Point, N. J.	1473	Cove Point, Md.	2085
Coatzacoacos, Mexico	4395	Covenas, Colombia	4633
Cobscook Bay, Maine	597-601	Cow Island, Maine	757

	No.		No.
Cow Key Channel, Fla.	3857	Deadman Bay, Fla.	4077
Cowen Creek, S.C.	2865-2871	Dean Hall, S.C.	2649
Cowpens Anchorage, Fla.	3573	Dease Strait, Arctic.	11
Cramers Boatyard, Mullica River, N.J.	1543	Deception Island, Sough Shetlands Is.	4957
Crandall, St. Marys River, Fla.	3137	Deep Creek, Va.	2233
Crane Keys, Fla.	3567	Deep Creek Meadow, N.Y.	1261
Craney Island, Va.	2225	Deep Landng, Md.	2031
Crawl Key, Fla.	3705	Deep Neck Point, Md.	1999
Creighton Narrows Ent., Ga.	3049	Deep Six Marina, Fla.	3543
Crescent River, Ga.	3049	Deer Island, Mass.	847
Crisfield, Md.	1943	Deer Isle, Maine.	643
Crispen Island, Ga.	3089	Deerfield Beach, Fla.	3425
Cristobal, Panama * (236)	4433	Delaware.	1695-1855
Cromakill Creek, N.J.	1375	Delaware Bay.	1625-1703
Crooked River, Ga.	3131, 3133	Delaware City	1759, 1761
Cross River entrance, Maine.	707	Delaware River.	1705-1851
Crosswicks Creek, N.J.	1847, 1849	Del ray Beach, Fla.	3415, 3417
Crow Point, Mass.	865	Democrat Point, N.Y.	1233
Crumpton, Md.	2029	Dennis Creek, N.J.	1639-1643
Crystal Bay, Fla.	4057-4055	Dennisport, Mass.	913
Crystal River, Fla.	4059-4065	Despair Bay, Newfoundland.	253, 255
Cuba.	4481-4529	Destin, Fla.	4147
Cuba Island, N.Y.	1265	Deweese Inlet, S.C.	2609
Cuckolds Creek, S.C.	2831	Deweese Island, S.C.	2605, 2609
Cudjoe Bay, Fla.	3763, 3767	Diana Bay, Hudson Strait.	155
Cudjoe Channel, Fla.	3785, 3787	Dias Creek, N.J.	1633
Cudjoe Key, Fla.	3767, 3771-3775, 3779	Dickerson bay, Fla.	4095
Culebra Island, P.R.	4585	Digby, Nova Scotia.	531
Culebrita, Isla, P.R.	4577	Digges Harbour, Hudson Strait.	147
Cumana, Venezuela.	4655	Dillard Creek, Ga.	3093
Cumberland, S.C.	2513	Dinner Key Marina, Biscayne Bay, Fla.	3485
Cumberland Dividngs, Ga.	3131	Dinner Point Creek, N.J.	1517
Cumberland Island, Ga.	3127, 3129	Discovery Harbor, Arctic.	101
Cumberland Sound, Ga. and Fla.	3125-3153	Disko Island, Greenland.	89
Cumberland River, Ga.	3119	Distant Island, S.C.	2865
Cumberland Wharf, Ga.	3119	Distant Island Creek, S.C.	2867
Cumuruxatiba, Brazil.	4771	District of Columbia.	2141-2151
Cundy Harbor, Maine.	733	Dividing Creek, N.J.	1667-1671
Cuno, Fla.	3165	Divine's Dock, S.C.	2475
Curacao, Lesser Antilles.	4625	Dixie, Va.	2189
Curlaw Harbour, Labrador.	197	Dixie Bay, Fla.	4057
Cushing Island, Maine.	767	Doboy Sound, Ga.	3055-3073
Customhouse Wharf, Charleston, S.C.	2631	Dock Thorofare, Rislley Channel, N.J.	1569
Cutler, Biscayne Bay, Fla.	3493	Doctors Arm, Fla.	3687
Cutler, Maine.	603, 605	Doctors Lake, Fla.	3231
Cutts Island, Maine.	793	Dodge Island, Fla.	3483
Cuttyhunk, Mass.	955	Dog Hammock, Ga.	3041
		Dog Island, west end, Fla.	4101
		Dogwood Harbor, Md.	2003
		Dominican Republic.	4545-4563
		Donald Ross Bridge, Fla.	3395
		Double Creek, N.J.	1501
		Doughboy Island, S.C.	2947
		Dover, N.H.	811
		Dover Bluff, Ga.	3109
		Dover Bridge, Md.	1991
		Dover Creek, Ga.	3109
		Dover Point, N.H.	809
		Doyle Point, Maine.	745
		Drayton, S.C.	2691
		Dry Tortugas, Fla.	3869
		Duck Island Roads, Conn.	1087
		Duck Island, S.C.	2685
		Duck Key, Fla.	3633, 3823
		Duke Marine Lab., N.C.	2369
		Duck Pier, N.C. * (124)	2313
		Dumfoundling Bay, Fla.	3461
		Dunbar, Fla.	2517
		Dunedin, Fla.	4017
		Dunn Sound, S.C.	2445-2449
		Dunns Creek, Fla.	3245
		Dupont, S.C.	2649
		Duxbury, Mass.	881

D

Dahlgren, Va.	2117
Dalhousie, New Brunswick.	385
Dallas Bluff, Ga.	3033
Damari scotta River, Maine.	693-697
Damari scove Harbor, Maine.	699
Damari scove Island, Maine.	699
Dame Point, Fla.	3201
Damons Point, Mass.	877
Dania Cut-off Canal, Fla.	3449
Danmarks Havn, Greenland.	43
Danmarks Island, Greenland.	55
Darby Creek, Pa.	1787-1795
Darien River, Ga.	3061, 3063
Datum Bay, Bahamas.	4473
Daufuskie Island, S.C.	2941-2945
Daufuskie Landing, S.C.	2945
Dauphin Island, La. * (204)	4177
Davis Bayou, Miss.	4193
Davis Island, Fla.	3987
Davis Slough, N.C.	2335
Davis Strait.	111-119
Dawho, S.C.	2771
Dawho Bridge, S.C.	2741
Daytona Beach Shores, Fla.	3273

E	No.	F	No.
Eagle Creek, Ga.	3047	Estero Bay, Fla.	3909-3915
Eagle Neck, Ga.	3027	Estero Island, Fla.	3917
Eagle Point, Texas.	4335	Estero River, Fla.	3915
East 41st Street, N.Y.	1147	Eugene Island, La.	4295
East 90th Street, N.Y.	1143	Euhaw Creek, S.C.	2903
East Arsenicker, Fla.	3519	Everglades City, Fla.	3885
East Bahia Honda Key, Fla.	3665	Ewell, Md.	1951
East Bay, Fla.	4133-4139	Exploits Lower Harbour, Newfoundland. ...	221
East Bay, Pensacola Bay.	4165		
East Bay, Texas.	4349	F	
East Boothbay, Maine.	693	Fal kland Isl ands.	4947, 4949
East Branch, Cooper River, S.C.	2651-2659	Fall Ri ver, Mass.	1017
East Cape, Fla.	3871	Fal mouth Foresi de, Mai ne.	747
East Creek, N.J.	1645	Fal mouth Heights, Mass.	923
East Dennis, Mass.	895	Farmdale, Fla.	4135
East Greenwi ch, R.I.	1031	Faro Recal ada, Argenti na.	4839
East Key, Fla.	3569	Faro Segunda Barranca, Argenti na.	4865
East Point, N.J.	1655	Fat Deer Key, Fla.	3641, 3643
East Point, Grand Isle, La. * (216).	4271	Father Point, Quebec.	327
East River, Ga.	3087	Federal Poi nt, N.C.	2417
East River, N.Y.	1131-1157	Fenwi ck Isl and, S.C.	2767
Brooklyn Bridge.	1155	Fernandi na Beach, Fla * (156).	3151
Williamsburg Bridge.	1151	Fernando de Noronha, Brazi l.	4737
East River, Va.	2193	Ferry Cove, Md.	2005
East Rockaway Inlet, N.Y.	1277	Ferry Poi nt, Va.	2259
East Rutherford, N.J.	1359	Ferry Reach, St. Georges Isl and.	4439
Eastern Bay, Md.	2005, 2007	Fi elds Cut, S.C.	2955
Eastern Channel, Maine.	655	Fi elds Poi nt, S.C.	2823
Eastport, Maine * (28).	595	Fi eldsboro, N.J.	1841
Eatons Neck Point, N.Y.	1173	Fi nnsbu, Greenl and.	59
Eau Gallie, Fla.	3309	Fi nsch Isl ands, Greenl and.	49
Eclipse Harbour, Labrador.	171	Fi re Isl and Coast Guard Station, N.Y. ...	1235
Eddng Poi nt Creek, S.C.	2811	Fi re Isl and Inlet, N.Y.	1233
Eden, Fla.	3339	Fi re Isl and Light, N.Y.	1237
Edgartown, Mass.	945	Fi sh Creek, N.J.	1367
Edgely, Pa.	1839	Fi shermans Channel, Fla.	3483
Edgemoor, Del.	1775	Fi shermans Isl and, Va.	1911
Edgewater, Md.	2071	Fi shermans Rest, Fla.	4079
Edgewater, N.J.	1313	Fi shers Isl and, N.Y.	1051
Edisto Beach, S.C.	2757	Fi shing Bay, Md.	1971
Edisto Island, S.C.	2757	Fi shing Bend, Fla.	4155
Edisto Marina, S.C.	2759	Fi shing Creek, N.J.	1673
Edisto River, S.C.	2773-2783	Fi shmaster's Harbor, Greenl and.	77
Edwards Creek, Fla.	3163	Fi ve Fathom Creek, S.C.	2587
Eel Point, Mass.	929	Fi vemile River, Conn.	1117
Egg Isl ands, Ga.	2989	Fl agler Beach, Fla.	3269
Eggemoggi n Reach, Mai ne.	637-639	Fl amingo, Fla.	3587
Egmont Channel, Fla.	3963	Fl at Creek, N.J.	1505
Egmont Key, Fla.	3963	Fleeton Poi nt, Va.	2157
El Chara (Punta Laberinto), Argenti na.	4859	Fl eming Key, Fla.	3861
El Jobean, Fla.	3951	Fl orianopol is, Brazi l.	4811
El bow Cay, Bahamas.	4445	Fl orida.	3137-4169
Eleuthera Island, Bahamas.	4461, 4463	Fl orida Bay.	3595, 3587
Elizabeth River, Va.	2225-2229	Fl orida Keys.	3487-3869
Elk Ri ver, Md.	2039-2041	Fl orida Passage, Ga.	2999-3001
Elliot Cut, S.C.	2713	Fl orida Power, Fla.	4059
Elliot Key, Fla.	3503, 3505, 3509-3513	Floyd Creek, Ga.	3121
Elliot Key Harbor, Fla.	3505	Fl ushing Bay, N.Y.	1133
Ellis Bay, Quebec.	307	Fogo Harbour, Newfoundland.	223
Ellsworth, Maine.	633	Folly Ri ver Bridge, S.C.	2703
Elsnboro, N.J.	1739	Folly Creek, Va.	1895
Empire Jetty, La.	4263	Folly Creek, S.C.	2705
Engewood, Fla.	3955	Folly Isl and, S.C.	2701-2707
Engli shman Bay, Mai ne.	611	Folly Ri ver, S.C.	2703-2707
Ensenada Honda, P.R.	4585	Fore Ri ver, Mai ne.	771
Enterprise Landng, S.C.	2553	Forest Ri ver, Ga.	2993
Erin Bay, Trinidad.	4681	Forge Pond, N.J.	1457
Escambia Bay, Fla.	4163	Forked Ri ver, N.J.	1489
Essequibo Ri ver, Gui ana.	4687	Fort Caswell, N.C.	2411
Essex, Conn.	1067	Fort Conger, Arcti c.	101
Essex, Mass.	833	Fort-de-France, Marti ni que.	4611
Esso Pier, Bermuda.	4441	Fort Eustis, Va.	2251
		Fort Fremont, S.C.	2861

I t a j a i , B r a z i l	No. 4807	Key Colony Beach, Fla.	No. 3645
I v i g t u t , G r e e n l a n d	71	Key Haven, Fla.	3855
J			
Jack Bay, La.	4241	Key Largo, Fla.	3531-3563
Jack Creek, S. C.	2595	Key Lois, Fla.	3759
Jackson Creek, Va.	2187	Key West, Fla. * (176)	3863, 3865
Jacksonboro Camp, S. C.	2779	Keydash, Md.	1863
Jacksonville, Fla.	3207, 3217, 3221	Keyport, N. J.	1411
Jacksonville Beach, Fla.	3255	Keysfield, S. C.	2555
Jacmel, Hai ti	4563	Kiawah River Bridge, S. C.	2723
Jacobs Wharf, S. C.	2511	Kilkenney Club, Kilkenney Creek, Ga.	3009
Jaffrey Point, N. H.	795	Kill Van Kull	1347, 1349
Jamaica	4531-4543	Kings Bay, Fla.	4065
Jamaica Bay, N. Y.	1279-1295	Kings Bay, Ga.	3125
Jamaica Beach, Texas.	4351	Kings Ferry, Fla.	3143
James Bay, Canada.	141-145	Kings Point, New York * (68)	1161
James Island Creek, S. C.	2679	Kingman Lake, D. C.	2147
James River, Va.	2241-2281	Kingsley Creek, Fla.	3153
Jamestown, R. I.	1005	Kingsmill, Va.	2253
Jamestown Bridge, S. C.	2579	Kingston Point, N. Y.	1335
Jamestown Island, Va.	2257	Kingstown, St. Vincent.	4617
Jeddore Harbour, Nova Scotia.	491	Kinsale, Va.	2103
Jekyll Island Marina, Ga.	3099	Kiptopeke Beach, Va.	1913
Jenkins Creek, S. C.	2813, 2815	Kittery Point, Maine.	801
Jenkins Sound, N. J.	1605	Kitty Hawk, N. C.	2317
Jennettes Pier, N. C.	2319	Kivi too, Baffin Island.	113
Jensen Beach, Fla.	3341	Knight Key Channel, Knight Key, Fla.	3653
Jeremy Creek, McClellanville, S. C.	2589	Knockemdown Key, Fla.	3753
Jesters Island, Va.	1881	Koksoak River entrance.	163
Jewish Creek, Fla.	3541	Kronpri nsens Ejl anden, Greenl and.	87
Jewish Hole, Fla.	3619	Kulusuk, Greenl and.	57
Joggins, Nova Scotia.	553	L	
John F. Kennedy International Airport.	1289	La Argentina, Argentina.	4877
Johns Bay, Maine.	691	La Coloma, Cuba.	4519
Johns Island, S. C.	2753	La Guaira, Venezuela.	4651
Johns Island, Fla.	4041	La Have River, Nova Scotia.	507, 509
Johns Pass, Fla.	4007	La Isabel a, Cuba.	4481
Johnson Creek, S. C.	2787	La Plata, Argentina.	4825
Johnson Keys, Fla.	3673, 3675	La Poile Bay, Newfoundl and.	263
Johnston Key, Fla.	3789	La Romana, Domini can Republic.	4557
Join ter Island, Join ter Creek, Ga.	3101	Labrador.	167-211
Jones Creek, Ga.	3073	Laguna, Brazil.	4815
Jones Inlet, N. Y.	1259	Laird Bayou, Fla.	4133
Jones Neck, Maine.	687	Lake Boca Raton, Fla.	3423
Jordan Point, Va.	2269	Lake Borgne, La.	4229
Joseph Bayou, La.	4257	Lake Forest, Fla.	3211
Julianehaab.	67	Lake Maracai bo, Venezuela.	4643, 4645
Julienton River, Ga.	3033	Lake Melville, Labrador.	187-193
Julington Creek, Fla.	3233	Lake Montauk, N. Y.	1213
Jupiter, Lake Worth Creek, Fla.	3391	Lake Pontchartrain, La.	4223, 4221
Jupiter Inlet, Fla.	3369, 3371	Lake Rudee, Va.	2309
Jupiter Island, Fla.	3363	Lake Wesley, Va.	2307
Jupiter Sound, south end, Fla.	3367	Lake Worth, Fla.	3399-3409
K			
Kangal aksi orvi k Fi ord, Labrador.	173	Lake Worth Creek, Fla.	3391, 3393
Kap Farvel, Greenl and.	61	Lake Worth Pier (ocean), Fla.	3411
Kates Creek Meadow, N. J.	1745	Lake Wyman, Fla.	3421
Kearny Point, N. J.	1363	Lakes Bay, N. J.	1571
Keasbey, N. J.	1401	Lanceford Creek, Fla.	3149
Kegaska, Quebec.	293	Largo Sound, Fla.	3547
Kemp Channel, Fla.	3769-3775	Larrie Island, South Orkney Is.	4955
Kenilworth Aquatic Garden, D. C.	2149	Lauderdal e-by-the-Sea, Fla.	3435
Kennebec River, Maine.	719-731	Leadenwah Creek, S. C.	2735
Kennebunkport, Maine.	783	Leaf Bay, Hudson Strait.	159
Kennedy Parkway, Fla.	3289	Leaf Lake, Hudson Strait.	161
Kent Island, Md.	2013	Lei psi c, Delaware.	1703
Kent Island Narrows, Md.	2011	Lei th Harbor, S. Georgi a Island.	4953
Kent Point Marina, Md.	2015	Lemon Bay, Fla.	3955
Kettle Creek, N. J.	1465	Lenoxville Point, N. C.	2361
Key Bi scayne, Fla.	3489	Lepreau Harbour, New Brunswi ck.	573
		Lesser Antilles.	4595-4627
		Lester Manor, Va.	2215
		L' Etang Harbour, New Brunswi ck.	575
		Leti te Harbour, New brunswi ck.	589

	No.		No.
Lewis Creek, Va.	1875	Lostmans River, Fla.	3877
Lewisetta, Va.	2099	Louisburg Harbour, Nova Scotia.	465
Lighthouse Point, New Haven, Conn.	1097	Louisiana.	4219-4317
Lighthouse Point, La.	4307	Love Point, Md.	2017
Lighthouse Wharf, Calcasieu Pass, La.	4317	Loveladies Harbor, N.J.	1503
Lignumvitae Basin, Fla.	3601	Lower Cedar Point, Md.	2119
Lignumvitae Key, Fla.	3595, 3597	Lower East Pubnico, Nova Scotia.	521
Little Pendulum, Greenland.	47	Lower Hall Landing, Ala.	4187
Lime Tree Bay, St. Croix * (260).	4603	Lower Marlboro, Md.	2093
Limehouse Bridge, S.C.	2719	Lower Matecumbe Key, Fla.	3605-3611
Limon, Costa Rica.	4429	Lower New York Bay.	1395-1415
Lincoln Sea, Arctic.	33-37	Lower Savage Islands, Hudson Strait.	125
Liscomb Harbour, Nova Scotia.	485	Lower Sugarloaf Sound, Fla.	3801-3813
L'Islet, Quebec.	343	Lower Toogoodoo Creek, S.C.	2747
Litchfield Beach bridge, S.C.	2487	Lower Topsaw Landing, S.C.	2535
Little Annessex River, Md.	1943	Loxahatchee River, Fla.	3373-3389
Little Back River, Ga.	2969	Luckse Sound, Maine.	751
Little Basin, Fla.	3599	Lucy Point Creek, S.C.	2817, 2837
Little Bull Creek, S.C.	2549	Ludlam Bay, N.J.	1589
Little Card Sound, Fla.	3529	Luis Correia, Brazil.	4729
Little Choptank River, Md.	1983-1987	Lunenburg, Nova Scotia.	505
Little Creek, Va.	2283	Lyme, Highway Bridge, Conn.	1065
Little Deer Isle, Maine.	639	Lynchburg Landing, Tx.	4341
Little Duck Key, Fla.	3663, 3677	Lynn, Lynn Harbor, Mass.	843
Little Duck Key Channel.	3677	Lynn Haven, Fla.	4143
Little Egg Harbor, N.J.	1513-1531	Lynnhaven Bay, Va.	2289-2297
Little Egg Inlet, N.J.	1533	Lynnhaven Inlet, Va.	2287
Little Gull Island, N.Y.	1195		
Little Hickory Island, Fla.	3909	M	
Little Pine I. Bay, Fla.	4037	Mabou River entrance, Nova Scotia.	451
Little Pine Key, Fla.	3693, 3701	Macao, Brazil.	4783
Little Pottsbury Creek, Fla.	3219	Macapa, Brazil.	4713
Little River, Maine.	603	Macau, Rio Acu, Brazil.	4741
Little River, S.C.	2445, 2451, 2453	McClellanville, S.C.	2589
Little River Inlet, S.C.	2445	McCreedy's Creek, Md.	1971
Little River Neck, S.C.	2451	Maceio, Brazil.	4751
Little St. Marys River, Fla.	3141	Machadoc Creek, Va.	2117
Little Satilla River, Ga.	3103, 3105, 3107	Machias River, Maine.	609
Little Sheephead Creek, N.J.	1535	Machias Seal Island, New Brunswick.	583
Little Spanish Key, Fla.	3711	Machiasport, Maine.	609
Little Talbot Island, Fla.	3179	Mackay Creek, S.C.	2885
Little Torch Key, Fla.	3721, 3727, 3729	Mackay River, Ga.	3083-3085
Little Wicomico River, Va.	2153	Mackerel Cove, Maine.	631
Liverpool Bay, Nova Scotia.	511	Macuro, Venezuela.	4661
Liverpool Point, Md.	2131	Mad Horse Creek, N.J.	1713-1717
Lloyd Harbor entrance, N.Y.	1175	Madeira Beach Causeway, Fla.	4009
Lobeco, S.C.	2843	Madero, Tampico Harbor, Mexico.	4387
Lockeport, Nova Scotia.	513	Madison, Conn.	1089
Lockwoods Folly Inlet, N.C.	2435	Magdalen Islands, Nova Scotia.	433
Lofton, Fla.	3149	Magens Bay, Virgin Islands.	4595
Lofton Creek, Fla.	3165	Magnolia Gardens, S.C.	2693
Lonesome Bayou, La.	4245	Magothy River, Md.	2061, 2063
Long Beach, Md.	2083	Magueyes Island, P.R. * (248).	4565
Long Beach, Hempstead Bay, N.Y.	1273	Mahone Bay, Nova Scotia.	501, 503
Long Branch, Fla.	3217	Mahone Harbour, Nova Scotia.	503
Long Branch, N.J.	1435, 1437	Mahon River entrance, Del.	1701
Long Creek, Va.	2297	Main Creek, Murrells Inlet, S.C.	2473
Long Hill, Conn.	1109	Main Key, Fla.	3533
Long Island, Bahamas.	4469	Main Marsh Thorofare, N.J.	1553
Long Island, Maine.	755	Maine.	595-819
Long Island, N.Y.	1219-1295	Malapartis Creek, N.J.	1715
Long Island Sound.	1051-1295	Malignak Fjord, Greenland.	83
Long Key, Fla.	3619, 3621, 3623, 3625	Malpeque Bay, Prince Edward Island.	413
Long Key, Tampa Bay, Fla.	4005	Manahawkin Bay, N.J.	1505-1511
Long Key Bight, Fla.	3621	Manahawkin Drawbridge, N.J.	1511
Long Key Channel, Fla.	3625, 3627	Manahawkin Creek, N.J.	1509
Long Key Lake, Fla.	3623	Manasquan Inlet, N.J.	1447
Long Neck Point, Conn.	1119	Manasquan River, N.J.	1449, 1451
Long Point, Fla.	3845	Manatee Bay, Fla.	3535
Long Point, Md.	1947	Manatee Creek, Fla.	3535, 3537
Long Reach, N.J.	1599	Manatee Pocket, Fla.	3351
Long Sound, Fla.	3537	Manatee River, Fla.	3969, 3971
Longport, N.J.	1567	Manchester, Texas.	4343
Lora Point, Fla.	4163		

	No.		No.
Mandalay, Fla.	4085	Metedeconk River, N. J.	1453-1459
Mangrove Pt., Fla.	4053	Metis-sur-Mer, Quebec.	323
Manhasset Bay, N. Y.	1163	Metompkin Inlet, Va.	1893, 1895
Manilla, La.	4277	Mexico.	4385-4399
Manokin River, Md.	1949	Miacomet Rip, Mass.	931
Mantoloking, N. J.	1463	Miami, Marina, Fla.	3481
Mantua, Mantua Creek, N. J.	1801	Miami Harbor Entrance, Fla. * (168)	3475
Mantua Creek, N. J.	1799, 1801	Micco, Fla.	3315
Manumuskin River, N. J.	1661	Michoud Substation, ICWW, La.	4227
Manzanillo, Cuba.	4509	Middle Bay, Maine.	739
Mar del Plata, Argentina.	4835	Middle Narrows, Snipe Keys, Fla.	3817
Marco, Big Marco River, Fla.	3899	Middle Thorofare, N. J.	1587
Marco Island, Caxambas Pass, Fla.	3893	Middle Torch Key, Fla.	3719
Marcus Hook, Pa.	1781	Middletown, Conn.	1079
Marine Corp Recruit Depot, S. C.	2863	Midjik Bluff, New Brunswick.	591
Marion, Mass.	971	Midway Inlet North, S. C.	2489
Market Street Bridge, Pa.	1807	Miles River, Md.	2009
Maromas, Conn.	1077	Milford Harbor, Conn.	1103
Marsh Island, La.	4305	Mill Basin, N. Y.	1295
Marshall Hall, Md.	2137	Mill Cove, Fla.	3203
Martha's Vineyard, Mass.	933-945	Mill Creek, Hackensack R., N. J.	1371, 1373
Martinique, Lesser Antilles.	4611	Mill Creek, Little Egg Harbor, N. J.	1513
Maryland.	1857-2137	Mill Creek, Penns Neck, N. J.	1765
Mason Creek, Fla.	4045	Mill Creek, Va.	2165
Massachusetts.	823-1037	Mill Creek, Elsinboro, N. J.	1739
Massacre, Dominican Republic.	4547	Mill Point, Maine.	717
Massaponax, Va.	2185	Mills Point, Wicomico River, Md.	2113
Matagorda Bay, Texas.	4363, 4365	Millbridge, Maine.	615
Matamoros, Mexico.	4385	Millenbeck, Va.	2167
Matane, Quebec.	321	Millside R. R. Bridge, Del.	1773
Matanzas, Cuba.	4527	Millville, N. J.	1665
Matanzas Pass, Fla.	3917	Milton, Fla.	4169
Matanzas River, Fla.	3267	Minas Basin, Nova Scotia.	541-549
Matapeake, Md.	2013	Mingan, Quebec.	301
Matawan Creek, N. J.	1413	Minim Creek, S. C.	2567
Matceba Gardens, S. C.	2695	Mink Creek, Fla.	3167
Matecumbe Bight, Fla.	3607	Miramichi Bay, New Brunswick.	397
Matecumbe Harbor, Fla.	3609	Miramichi River, New Brunswick.	399
Mathew Town, Bahamas.	4475	Miscou Harbour, New Brunswick.	391
Mathias Point, Va.	2121	Mission River entrance, Del.	1697
Matinicus Harbor, Maine.	645	Misissippi.	4191-4217
Matlacha Pass, Fla.	3941	Misissippi River.	4247-4259
Mattapoisett, Mattapoisett Hbr, Mass.	975	Misissippi Sound, Ala. and Miss.	4189-4209
Mattaponi River, Va.	2213	Missouri Key, Fla.	3677, 3679
Mattituck Inlet, N. Y.	1189	Mistanoque Harbour, Quebec.	287
Maurice River, Delaware Bay.	1657-1665	Mobbly Bayou, Fla.	3999
Maurice River Cove, Del.	1655	Mobile, Ala * (208).	4185
Mauricetown, N. J.	1659	Mobile Bay, Ala.	4181, 4183
Mayaguana Island, Bahamas.	4477	Mobile Point, Ala.	4175
Mayaguez, P. R.	4591	Mobile River, Ala.	4185
Mayan Lake, Fla.	3441	Mobjack, Va.	2193
Mayport, Fla. * (160).	3187	Mobjack Bay, Va.	2193-2197
Nayport Naval Station.	3183, 3185	Moisie Bay, Quebec.	309
May River, S. C.	2933-2939	Molasses Key Channel, Fla.	3659
Mayo Key, Fla.	3699	Molke Harbor, South Georgia, Is.	4951
Mays Landing, N. J.	1583	Moncrief Creek, Fla.	3209
McKay Bay entrance, Fla.	3989	Moncton, New Brunswick.	561
Meadowville, Va.	2279	Money Island, N. J.	1679
Medomak River, Maine.	687, 689	Money Key, Fla.	3661
Medway River, Ga.	3015	Money Point, Va.	2231
Melbourne, Fla.	3311	Monie Bay, Md.	1959
Melville Island.	5, 7	Monhegan Island, Maine.	671
Memory Rock, Bahamas.	4453	Montauk, N. Y. * (56).	1217
Menantic Creek, N. J.	1663	Montauk Harbor, N. Y.	1215
Menchville, Va.	2245	Montego Bay, Jamaica.	4539
Mercy Bay, Banks Island.	3	Monte Hermoso, Argentina.	4841
Merigomish Harbour, Nova Scotia.	439	Montevideo, Uruguay.	4819
Mermentau River, La.	4315	Monument Beach, Mass.	961
Merrimack River, Mass.	821-829	Moon Head, Mass.	859
Merrimacport, Mass.	827	Moose Factory, Hudson Bay.	143
Merritt Island, Fla.	3289, 3291, 3299	Moosonee, Canada.	141
Merrymeeting Bay, Maine.	725	Morehead City, N. C.	2379, 2381
Mesquite Point, Texas.	4325	Moreland Cemetery, S. C.	2933
Messick Point, Va.	2219	Morgan River, S. C.	2807-2817

	No.		No.
Patrick Air Force Base, Fla.	3287	Pirates Cove, Fla.	3765, 3779
Patuxent River, Md.	2087-2093	Piscataqua River, Maine and N.H.	807-815
Paulsboro, N. J.	1799	Pistol Bay, Newfoundland.	213
Pavonia, N. J.	1817	Pitch Landing, S. C.	2557
Pawcatuck River, R. I.	1049	Pithlachscotee River, Fla.	4029, 4031
Pawtuxet, R. I.	1023	Placencia Bay, Newfoundland.	239-243
Pawleys Island, S. C.	2477-2485	Placida, Fla.	3953
Pawleys Island Pier, S. C.	2481	Plantation Key, Fla.	3565, 3571, 3573, 3577
Pawtucket, R. I.	1029	Playa Cortada, P. R.	4571
Payer Harbour, Baffin Bay.	105	Playa de Fajardo, P. R.	4587
Payne River, Greenland.	121	Playa de Ponce, P. R.	4569
Peace River, Fla.	3949	Pleasant Bay, Mass.	905
Pea Patch Island, Del.	1763	Pleasant Hill Landing, S. C.	2577
Peak Island, Maine.	765	Pleasantville, N. J.	1571
Pearlington, Miss.	4217	Plumb Beach Channel, N. Y.	1279
Peck Lake, Fla.	3357	Plum Gut Harbor, N. Y.	1193
Peconic Bays, N. Y.	1207, 1209	Plum Island, Mass.	821
Pedriektown, Oldmans Creek, N. J.	1777	Plum Island Sound, Mass.	831
Peekskill, N. Y.	1325	Plymouth, Mass.	883
Pelican Harbor, Bahamas.	4457	Pocomoke River, Md.	1939-1941
Pelican Islands, La.	4283	Pocomoke Sound, Md.	1935, 1937
Pelotes Island, Fla.	3195	Pocotaligo River, S. C.	2913
Pemaquid Harbor, Maine.	691	Point Au Fer, La.	4297
Pendola Point, Fla.	3985	Point Barrow, Texas.	4347
Penikese Island, Mass.	957	Point Charles, Fla.	3551
Pennamquan River, Maine.	597	Point Chevreuil, La.	4301
Penniman Creek, New York.	1225	Point Judith Harbor of Refuge, R. I.	1039
Penns Neck, N. J.	1765	Point Lookout, Md.	2095
Pennsauken Creek, N. J.	1821, 1823	Point Lookout, N. Y.	1259
Pennsylvania.	1781-1819	Point No Point, Passaic River, N. J.	1355
Penny Creek, south of.	2777	Point o' Woods, N. Y.	1241
Penny Strait, Arctic.	31	Point of Pines, S. C.	2733
Pennys Creek, S. C.	2715, 2717	Point of Pines, Miss.	4191
Penobscot Bay, Maine.	637-667	Point Pinellas, Fla.	3979
Penobscot River, Maine.	655-663	Point St. Peter, Quebec.	375
Penrose Ave. Bridge, Pa.	1805	Point Ybel, Fla.	3919
Pensacola, Fla. * (200).	4161	Poite-a-Pitre, Guadeloupe.	4607
Pensacola Bay, Fla.	4157-4169	Pointe aux Orignaux, Quebec.	339
Pensacola Bay entrance, Fla.	4157	Pointe des Monts, Quebec.	319
Peoria Point, Fla.	3231	Pointe Platon, Quebec.	361
Pepperfish Keys, Fla.	4075	Polaris Bugt, Greenland.	99
Perdido Bay, Fla & Ala.	4171, 4173	Polawana Island, S. C.	2815
Perky, Fla.	3791	Pompeston Creek, N. J.	1825
Peters Point, S. C.	2765	Ponce de Leon Inlet, Fla.	3275
Petit Manan Bar, Maine.	617	Ponce Inlet, Fla.	3277
Petitcodiac River, New Brunswick.	557-563	Pond Point, Md.	2049
Pews Creek, N. J.	1417	Ponquoque Point, New York.	1223
PGA Boulevard, Fla.	3397	Ponta da Areia, Brazil.	4759
Philadelphia, Br idesburg, Pa.	1819	Ponta Pedreira, Brazil.	4711
Philadelphia, Pier 11, Pa.	1813	Poponesset Island, Poponesset Bay, Mass.	921
Philadelphia, USCG Station * (100).	1815	Porlamar, Venezuela.	4657
Phi ppsburg, Maine.	721	Porpoise Key, Fla.	3695
Phoenix Park, Fla.	3215	Port-au-Port, Newfoundland.	271
Pi ankatank River, Va.	2187-2189	Port-au-Prince, Haiti.	4545
Pictou, Nova Scotia * (8).	437	Port Aransas, Texas.	4369
Pig Point, Va.	2235	Port Aux Basques, Newfoundland.	265
Pigeon Key, Fla.	3655, 3657	Port Boca Grande, Fla.	3945
Pikyulik Island.	121	Port Bolivar, Texas.	4331
Pilot Island, S. C.	2907	Port Bowen, Arctic.	19
Pimlico, S. C.	2665	Port Burwell, Hudson Strait.	165
Pinkney Island, S. C.	2885	Port Canaveral, Fla. * (164).	3283
Pine Channel, Fla.	3731-3735	Port Canaveral Locks, Fla.	3295
Pine Channel Bridge, Fla.	3727-3733	Port Clyde, Maine.	675
Pine Harbor, Ga.	3045	Port Daniel, Quebec.	377
Pine Island, Fla.	3929, 3939, 3943	Port de Boucherville, Hudson Strait.	149
Pine Island, N. J.	1715	Port Deposit, Md.	2047
Pine Island, S. C.	2929	Port Eads, South Pass, La.	4253
Pine Island Sound, Fla.	3931, 3935	Port Elizabeth, N. J.	1351
Pine Land ing, S. C.	2769	Port Elizabeth (Manumuskin R.), N. J.	1661
Pineda, Fla.	3305	Port Everglades, Fla.	3443, 3445
Pine land, Pine Island, Fla.	3943	Port Foster, S. Shetland Islands.	4957
Piney Point, Fla.	3225	Port Foulke, Greenland.	95
Piney Point, Md.	2105	Port George, Nova Scotia.	535
Piney Point, Mass.	973	Port Hastings, Nova Scotia.	473

	No.		No.
Port Hood, Nova Scotia.....	449	Puerto Real, P.R.....	4593
Port Isabel, Texas.....	4381	Puerto Rico.....	4565-4593
Port Ivory, N.Y.....	1383	Puerto Rosales, Argentina.....	4845
Port Jefferson, N.Y.....	1181	Puerto Santa Elena, Argentina.....	4901
Port Jefferson Harbor, N.Y.....	1179	Puerto San Antonio, Argentina.....	4871
Port Kennedy, Arctic.....	17	Pueyrredon, Argentina.....	4875
Port Laudania, Fla.....	3449	Pugwash, Nova Scotia.....	435
Port Lavaca, Texas.....	4365	Pulpi t Harbor, Maine.....	651
Port Leopold, Arctic.....	21	Pumpkin Bay, Fla.....	3891
Port Louis, Falkland Islands.....	4947	Pumpkin Hill Creek, Fla.....	3161
Port Manatee, Fla.....	3975	Pumpkin Key, Fla.....	3523, 3783
Port Manvers, Labrador.....	177	Pungoteague Creek, Va.....	1921
Port Marham, Labrador.....	203	Punta Ancla, Argentina.....	4843
Port Morant, Jamaica.....	4531	Punta Del gada, Argentina.....	4883
Port Morris, N.Y.....	1139	Punta de Palmas, Venezuela.....	4647
Port Nelson, Hudson Bay.....	139	Punta Gorda, Belize.....	4403
Port Newark Terminal, N.J.....	1353	Punta Gorda, Fla.....	3947
Port O' Connor, Texas * (224).....	4363	Punta Gorda, Venezuela * (272).....	4667
Port of Spain, Trinidad.....	4677	Punta Laberinto, Argentina.....	4859
Port Royal Plantation, S.C.....	2853	Punta Lobos, Argentina.....	4857
Port Royal, Jamaica.....	4533	Punta Loyola, Argentina * (304).....	4933
Port Royal, Va.....	2179	Punta Maisi, Cuba.....	4501
Port Royal, Honduras.....	4409	Punta Mulas, P.R.....	4581
Port Royal Sound, S.C.....	2853-2881	Punta Ninfas, Argentina.....	4885
Port Saint Joe, Fla.....	4123	Punta Norte, Argentina.....	4879
Port Salerno, Fla.....	3351	Punta Norte del Cabo San Antonio.....	4833
Port Saunders, Newfoundland.....	279	Punta Pasacaballo s, Cuba.....	4513
Port Tobacco River, Md.....	2123	Punta Pena, Argentina.....	4927
Port Union, Newfoundland.....	227	Punta Piedras, Argentina.....	4831
Port Washington, N.Y.....	1163	Punta Qui lla, Argnetina.....	4929
Port Wentworth, Ga.....	2967	Punta Rassa, Fla.....	3921
Portage Island, New Brunswick.....	397	Punta Redonda, Argentina.....	4867
Portland Head Light, Maine.....	773	Purrysburg Land ing, Ga.....	2973
Portland, Maine * (36).....	769		
Portland Cove, Newfoundland.....	277	Q	
Porto Belo, Brazil.....	4809	Quaco Bay, New Brunswick.....	567
Portsmouth, N.H.....	805	Quanti co, Va.....	2133
Portsmouth, Va.....	2229	Quatre Bayous Pass, La.....	4267
Portsmouth Harbor, Maine and N.H.....	795-805	Quebec.....	285-381
Potomac River, D.C., Md., Va.....	2097-2151	Quebec, Quebec * (16).....	353
Potts Harbor, Maine.....	737	Queen Isabella Causeway, Tx.....	4377, 4379
Poughkeepsie, N.Y.....	1331	Queensboro Bridge, N.Y.....	1145
Presumpscot River Bridge, Maine.....	759	Queenstown, Md.....	2019
Price Creek, S.C.....	2601	Quequen, Argentina.....	4837
Prince Edward Island.....	409-429	Quicks Hole (north side), Mass.....	953
Prince Point, Maine.....	743	Qui nby Creek, S.C.....	2657
Prince Regent Inlet.....	19, 21	Quinton, N.J.....	1735
Princes Bay, N.Y.....	1397		
Princess Royal Islands, Arctic.....	1	R	
Progreso, Mexico.....	4399	Rabbit Island, La.....	4303
Prospect Harbor, Maine.....	619	Raccoon Creek, N.J.....	1783, 1785
Providence, R.I.....	1025	Raccoon Ditch, N.J.....	1709
Provincetown, Mass.....	899	Raccoon Key, Fla.....	3755
Prudence Island, R.I.....	1009	Raccoon Point, La.....	4291
Public Land ing, Md.....	1885	Ragged Keys, Fla.....	3497
Pudd edock, Va.....	2273	Ragged Point, Va.....	2107
Puerto Bel grano, Argentina.....	4847	Rahway River, RR. Bri dge, N.J.....	1385
Puerto Cabezas, Nicaragua.....	4419	Ramrod Key, Fla.....	3717, 3749
Puerto Castilla, Honduras.....	4411	Ramshorn Creek, S.C.....	2929
Puerto Col ombia, Col ombia.....	4637	Rancocas Creek, N.J.....	1827-1831
Puerto Cortes, Honduras.....	4407	Randal Is l Island, N.Y.....	1157
Puerto de Gi bara, Cuba.....	4489	Random Head Harbour, Newfoundland.....	229
Puerto de Hi erro, Venezuela.....	4663	Rappahannock River, Va.....	2165-2185
Puerto de Pilon, Cuba.....	4507	Rari tan Bay.....	1395-1415
Puerto de Santiago de Cuba, Cuba.....	4505	Rari tan River, N.J.....	1399-1407
Puerto Deseado, Argentina.....	4919	Rattlesnake Cove, Fla.....	4107
Puerto Ferro, P.R.....	4579	Reaves Point, N.C.....	2421
Puerto Ingeniero White * (296), Arg.....	4849	Recife, Brazil * (280).....	4749
Puerto Madryn, Argentina.....	4889	Red Bank, N.J.....	1429
Puerto Maunabo, P.R.....	4575	Red Bay, Labrador.....	209
Puerto Mel o, Argentina.....	4909	Redfish Pass, Fla.....	3937
Puerto Padre, Cuba.....	4487	Redfish Point, Fla.....	3971
Puerto Pami des, Argentina.....	4887		
Puerto Plata, Dominican Republic.....	4549		

Reed Bay, N. J.	No. 1557	Dennis Creek, Del.	No. 1643
Reedy Point, Del. * (96)	1751	Dias Creek, Del.	1633
Refuge Cove, Arctic.	29	East Creek, Del.	1645
Rehoboth Beach, Del.	1853	Sluice Creek, Del.	1641
Rensselaer Bugt, Greenland.	97	West Creek, Del.	1649
Resolution Island.	123	Route 73 Bridge, Pennsauken Cr., N. J. ...	1821
Revel Creek, Revel Island, Va.	1899	Route 87 Bridge, Abesccon Channel, N. J. ...	1561
Rhems, Black Mingo Creek, S. C.	2523	Route 130 Bridge, N. J.	
Rhode Island.	987-1049	Assiscunk Creek, N. J.	1837
Rhode River, Md.	2075	Blacks Creek, N. J.	1845
Ria Coig, Argentina.	4931	Crosswicks Creek, N. J.	1849
Ribault River, Fla.	3211	Pennsauken Creek, N. J.	1823
Richibucto River ent., New Brunswick. ...	401	Route 170 Bridge, New River, S. C.	2953
Richmond, Va.	2281	Route 206 Bridge, Crosswicks Cr., N. J. ...	1847
Richmond Plantation, S. C.	2655	Rowayton, Conn.	1117
Ridgefield Park, N. J.	1377	Royal Bay, South Georgia Island.	4951
Rifkol, Greenland.	85	Rudee Heights, Va.	2307
Riggins Ditch, N. J.	1651, 1653	Rudee Inlet, Va.	2303-2309
Rigollet, Labrador.	191	Runford, R. I.	1027
Rio Ceara (bar), Brazil.	4733	Russel Creek, S. C.	2739
Rio Cunani entrance, Brazil.	4705	Rye Beach, N. Y.	1125
Rio de Janeiro, Brazil * (284)	4789		
Rio de La Plata.	4821-4831	S	
Rio Dulce, Guatemala.	4405	Sabine Bank Lighthouse, Texas.	4319
Rio Gallegos, Argentina.	4935	Sabine Pass (jetty), Texas.	4321
Rio Grande (Muelle), Argentina.	4941	Sabine Pass, Texas.	4323, 4325
Rio Maroni entrance, French Guiana.	4697	Sable Island (north side), Nova Scotia. ...	495
Rio Negro ent., Argentina.	4867	Sable Island (south side), Nova Scotia. ...	497
Rio Orinoco, Venezuel a.	4671	Sachem Head, Conn.	1093
Rio Para Entrance, Brazil.	4715	Sachuest, R. I.	989
Rio San Juan, Venezuel a.	4667	Saco River, Maine.	777, 779
Rio Sao Francisco, Brazil.	4753	Saddl ebunch Keys, Fla.	3807-3837
Riohacha, Colombia.	4641	Safety Harbor, Fla.	3997
Risley Channel, N. J.	1569	Sag Harbor, N. Y.	1205
River Bend Marina, N. J.	1581	Sagamore, Cape Cod Canal, Mass.	887
Riverdale, N. Y.	1317	Sagua de Tanamo, Bahia de, Cuba.	4497
Riverport, Nova Scotia.	507	Saguenay River, Quebec.	331, 333
Riverside, Md.	2125	Saint John, New Brunswick * (24)	569
Riviera Beach, Baffin Bay, Texas.	4373	St. Andrew Bay, Fla.	4125-4145
Riviera Beach, N. J.	1451	St. Andrew Sound, Ga.	3099-3121
Roane Point, Va.	2209	St. Andrews, New Brunswick.	593
Roanoke Sound Channel, N. C.	2321	Ste. Anne des Monts, Quebec.	315
Roaring Point, Md.	1965	St. Anns Bay, Jamaica.	4541
Robihood, Maine.	715	St. Anns Harbour, Nova Scotia.	459
Rocas, Atol das, Brazil.	4739	St. Augustin, Quebec.	357
Rock Harbor, Fla.	3553	St. Augustine, Fla.	3263
Rock Islands, Fla.	4083	St. Augustine Beach, Fla.	3265
Rockaway Inlet, N. Y.	1281	St. Barbe Bay, Newfoundland.	283
Rockdedundy River, Ga.	3065	St. Barthelmy, Lesser Antilles.	4605
Rockland, Maine.	667	St. Catherines Sound, Ga.	3007-3051
Rockland Channel Bridge, Fla.	3843	Ste. Croix, Quebec.	359
Rockland Key, Fla.	3843	St. Croix Islands, Virgin Islands.	4601-4603
Rockport, Mass.	837	St. George, N. Y.	1305
Rockport, Texas.	4367	St. George Island, Fla.	4105-4111
Rockville, S. C.	2727	St. George River, Maine.	675-679
Rocky Creek, Fla.	4037	St. George Sound, Fla.	4101-4111
Rocky Hill, Conn.	1081	St. Georges, Del.	1753
Rodanthe, N. C.	2337	St. Georges Harbour, Newfoundland.	269
Romerly Marsh Creek, Ga.	2979	St. Georges Island, Bermuda.	4441
Roosevelt Roads, P. R.	4583	St. Helena Sound, S. C.	2785-2847
Roseau, Domini ca.	4609	St. James City, Fla.	3929
Rose Dew Creek, S. C.	2939	St. James Island, Fla.	4097, 4099
Rose Haven, Md.	2079	St. John Bay, Newfoundland.	281
Roses Bluff, Fla.	3147	St. John River, New Brunswick.	571
Rosville, N. Y.	1391	St. John's, Newfoundland.	233
Round Hill Point, Mass.	981	St. Johns River, Fla.	3187-3251
Round Key, Fla.	3889	St. Joseph Bay, Fla.	4123
Round Point, Texas.	4345	St. Joseph Sound, Fla.	4017
Route 21 Bridge, Albergottie Cr., S. C. ...	2879	St. Laurent d' Orleans, Quebec.	351
Route 21 Bridge, Cowen Creek, S. C.	2871	St. Lawrence River.	315-371
Route 35 Bridge, Matawan Creek, N. J. ...	1413	St. Louis Bay, Miss.	4213
Route 47 Bridge, Big Timber Cr., N. J. ...	1809	St. Lucia, Lesser Antilles.	4613, 4615
Route 47 Bridge, Del.		St. Lucie, Fla.	3327
Bidwell Creek, Del.	1637		

	No.		No.
St. Lucie River, Fla.	3343-3349	Santos, Brazil * (288)	4799
St. Margarets Bay, Nova Scotia	499	Sao Francisco do Sul, Brazil	4805
St. Marks, Fla.	4089	Sao Joao da Barra, Brazil	4781
St. Marks River Entrance, Fla. * (192)	4087	Sao Luiz, Brazil	4723
St. Martins River, Fla.	4051	Sao Sebastiao, Brazil	4797
St. Mary Bay, Newfoundland	237	Saona, Isla, Dominican Republic	4555
St. Mary Bay, Nova Scotia	525-529	Sapelo Island, Ga.	3057
St. Mary Harbour, Newfoundland	237	Sapelo River, Ga.	3041-3045
St. Mary River, Nova Scotia	483	Sapelo Sound, Ga.	3007-3051, 3057
St. Marys, Ga.	3135	Saquatucket Harbor	909
St. Marys Entrance, Ga.	3123	Sarasota, Fla.	3959
St. Marys River, Ga. and Fla.	3135-3143	Sarasota Bay, Fla.	3959, 3961
St. Michaels, Md.	2001	Sasanoa River, Maine	715, 717
St. Michaels, Miles River, Md.	2009	Sassafras River, Md.	2037
St. Nicolaas Bay, Aruba	4627	Satilla River, Ga.	3111-3117
St. Nicolas, Quebec	355	Saunders Wharf, Va.	2177
St. Paul Island, Nova Scotia	431	Savage Creek, S.C.	2931
St. Peter Bay, Cape Breton Island	469	Savage Island, S.C.	2931
St. Peters Bay, Prince Edward Island	417	Savannah, Ga. * (152)	2965
St. Petersburg, Fla. * (184)	3981	Savannah River, Ga.	2959-2973
St. Pierre Creek, S.C.	2765	Savannah River Entrance, Ga. * (148)	2961
St. Pierre Harbor, Newfoundland	247	Sawpit Creek, Fla.	3173, 3175
St. Pierre Island, Newfoundland	247	Sawyer Key, Fla.	3785, 3787
St. Simons Light, Ga.	3077	Saxis, Va.	1935
St. Simons Sound, Ga.	3075-3097	Saybrook Jetty, Conn.	1061
St. Simons Sound Bar, Ga.	3075	Saybrook Point, Conn.	1063
St. Thomas Island, Virgin Islands	4595-4599	Sayreville, N.J.	1403
St. Vincent, Lesser Antilles	4617	Scarborough, Tobago	4623
Sakonnet, R.I.	987	Schooner Bay, Va.	1925
Sakonnet River, R.I.	987-997	Schooner Harbour, Baffin Island	129
Salem, Mass.	841	Schottegat, Curacao	4625
Salem, N.J.	1743	Schuylkill River, Pa.	1805-1807
Salem Canal entrance, N.J.	1769	Sci tuate, Mass.	875
Salem Nuclear Plant, N.J.	1725	Scoresbay Sound, Greenland	55
Salem River, N.J.	1741-1749	Scotia Bay, S. Orkney Islands	4955
Salinopolis, Brazil	4717	Scotland, Va.	2255
Salisbury, Md.	1963	Scott Creek, S.C.	2763
Salisbury, New Brunswick	563	Sea Bright, Shrewsbury River, N.J.	1431
Salisbury Point, Mass.	825	Sea Grape Point, Fla.	3511
Salmon Falls River, N.H.	813	S.C.L. RR. bridge, Savannah River, Ga.	2971
Salt River, Fla.	4057	Seabrook, S.C.	2791
Salt Water Creek, S.C.	2957	Seacamp Dock, Ga.	3129
Salvador, Brazil	4757	Seal Cove, New Brunswick	579
Salvesbarg Landing, S.C.	2905	Seapoint, Maine	793
Sam Worth Game Management Area, S.C.	2529	Seaside Heights, N.J.	1461
Sampit River, S.C.	2509-2513	Seaside Park, N.J.	1477
San Carlos Bay, Fla.	3919, 3921	Seavey Island, Maine	803
San Domingo Creek, Md.	2001	Sebastian, Fla.	3319
San Jacinto River, Tx.	4341	Sebastian Inlet, Fla.	3317
San Juan, P.R. * (252)	4589	Secaucus, N.J.	1371
San Juan del Norte, Nicaragua	4427	Secessionville, Secessionville Cr., S.C.	2699
San Luis Pass, Texas	4359	Sedge Islands, N.J.	1493
San Marino Island, Fla.	3479	Seekonk River, R.I.	1027, 1029
San Roman, Argentina	4873	Seminole Shores, Fla.	3353
San Salvador, Bahamas	4467	Sept Iles, Quebec	311
Sanchez, Dominican Republic	4553	Sesuit Harbor, Mass.	895
Sand Key Lighthouse, Fla.	3867	Settlement Point, Bahamas * (244)	4455
Sand Key Channel, Fla.	3867	Seven Island, N.J.	1537
Sand Shoal Inlet, Va.	1905	Severn River, Md.	2065-2067
Sandblasters, S.C.	2717	Sewall Point, Fla.	3349
Sandbridge, Va.	2311	Sewee Bay, S.C.	2599
Sands Key, Fla.	3501	Sewells Point, Va.	2223
Sandy Hook, N.J. * (84)	1423	Shalimar, Fla.	4149
Sandy Point, Maine	661	Shalotte Inlet, N.C.	2437
Santa Barbara de Samana, Dominican Rep.	4551	Shark Key, Fla.	3835
Santa Cruz Cabralia, Brazil	4769	Shark River entrance, Fla.	3873
Santa Cruz (Punta Quilla), Argentina	4929	Shark River Hills, N.J.	1441
Santa Domingo, Dominican Republic	4559	Shark River Island, N.J.	1439
Santa Elena, Puerto, Argentina	4901	Sharkfin Shoal Light, Md.	1957
Santa Marta, Colombia	4639	Sharptown, Md.	1969
Santa Rosa Sound, Fla.	4155	Shediac Bay, New Brunswick	403
Santana, Recife de, Brazil	4725	Sheepscot, Maine	711
Santee Pass, S.C.	2603	Sheepscot River, Maine	705-717
Santee River, S.C.	2577, 2579	Sheet Harbour, Nova Scotia	487

	No.		No.
Shelburne, Nova Scotia.....	515	South Edisto River, S.C.....	2759-2783
Sheldon, S.C.....	2845	South Fork, St. Lucie River, Fla.....	3347
Shell Beach, Lake Borgne, La.....	4229	South Freeport, Maine.....	741
Shell Island, Fla.....	4061	South Georgia Island.....	4951, 4953
Shell Island, La.....	4299	South Harpswell, Maine.....	737
Shell Key, Fla.....	3593, 3601	South Hartford, Conn.....	1083
Shell Point, Apalachee Bay, Fla.....	4091	South Is. Plantation, S.C.....	2503
Shell Point, N.C.....	2355	South Is. Ferry, S.C.....	2505
Shell Point, Peace River, Fla.....	3949	South Jamesport, N.Y.....	1209
Shell Point, Tampa Bay, Fla.....	3977	South Jetty, Winyah Bay Entr., S.C.....	2499
Shelldown, Md.....	1939	South Jupiter Narrows, Fla.....	3359
Shelter Island Sound, N.Y.....	1197-1205	South Negri Point, Jamaica.....	4537
Shelton, Conn.....	1111	South Newport Cut, Ga.....	3023
Shem Creek, S.C.....	2629	South Newport River, Ga.....	3027-3031
Sherwood Forest, Fla.....	3213	South Norwalk, Conn.....	1115
Shinnecock Bay, N.Y.....	1221-1225	South Orkney Islands.....	4955
Shinnecock Inlet, N.Y.....	1219	South Oyster Bay, N.Y.....	1257
Ship Cove, Newfoundland.....	253	South Pass, La. * (212).....	4251
Ship Island, Miss.....	4195	South Point, Marsh Island, La.....	4305
Ship Harbour, Nova Scotia.....	489	South Point, Sinepuxent Neck, Md.....	1887
Ship Shoal Light, La.....	4293	South River, Md.....	2071, 2073
Shipyards Creek, S.C.....	2633	South River, N.J.....	1405
Shooting Thorofare, N.J.....	1533	South Santee River, S.C.....	2571-2575
Shoppee Point, Maine.....	611	South Shetland Islands.....	4957, 4959
Shrewsbury River, N.J.....	1425-1433	South Sound, Fla.....	3549
Sigsbee Park, Fla.....	3859	South Yarmouth, Mass.....	915
Sikes Cut, Fla.....	4111	Southeast Pass, Mississippi River, La..	4249
Silver Bay, Silver Bay Marina, N.J.....	1469	Southampton Island, Greenland.....	133
Silver Eel Pond, Fishers Island, N.Y.....	1051	Southold, N.Y.....	1201
Silver Lake Fork, N.J.....	1717	Southport, Maine.....	703
Similar Sound, Fla.....	3833-3837	Southport, N.C.....	2413
Simpson Creek, Fla.....	3177	SW Fork, Loxahatchee River, Fla... 3389,	3387
Sinepuxent Neck, Md.....	1887	Southwest Harbor, Maine.....	625
Sinnickson Landing, N.J.....	1741	Southwest Pass, Mississippi River, La..	4255
Sippican Harbor, Mass.....	971	Southwest Pass, Vermilion Bay, La.....	4311
Sisters Creek, Fla.....	3193	Southwest Point, Quebec.....	305
Skidaway River, Ga.....	2987	Spanish Banks, Fla.....	3711
Skull Creek (north entrance), S.C.....	2881	Spanish Harbor, Fla.....	3685
Skull Creek (south entrance), S.C.....	2883	Spencer Island, Nova Scotia.....	539
Slaughter Creek, Md.....	1983	Spicer Cove, Nova Scotia.....	551
Sloop Creek, N.J.....	1481	Spooier Creek, N.C.....	2393
Sluice Creek, N.J.....	1641	Spring Bluff, Ga.....	3107
Smith Creek, Fla.....	3269	Spring Warrior Creek, Fla.....	4081
Smith Island, Va.....	1909	Springmaid Pier, S.C.....	2467
Smith Point Bridge, N.Y.....	1231	Spuyten Duyvil Creek, N.Y.....	1315
Smith's Dock, S.C.....	2465	Squamscott River, N.H.....	815
Smithfield, Va.....	2247	Square Island Harbour, Labrador.....	201
Smithville, Md.....	1981	Squibnocket Point, Mass.....	935
Snake Creek, Fla.....	3575, 3577	Stage Harbor, Mass.....	901
Snake Island, S.C.....	2709	Stamford, Conn.....	1121
Sniffens Pt., Housatonic River, Conn...	1105	Stanley Harbor, Falkland Islands.....	4949
Snipe Keys, Fla.....	3815, 3817, 3819	Staten Island, N.Y.....	1305-1353
Snipe Point, Fla.....	3819	Stathems Neck, N.J.....	1705
Snow Hill (city park), Md.....	1941	Station Creek, S.C.....	2859, 2857
Snow Point, S.C.....	2645	Staubes Bay, Trinidad.....	4673
Socastee Bridge, S.C.....	2469	Steamboat Creek Landing, S.C.....	2737
Soldier Key, Fla.....	3495	Steelmanville, N.J.....	1575
Solomons Island, Md.....	2087	Steele Harbor Island, Maine.....	613
Sombrero Key, Fla.....	3651	Steep brook, Mass.....	1019
Sondre Stromfjord, Greenland.....	77, 79	Steinhatchee River, Fla.....	4077
Sonora, Nova Scotia.....	483	Stites Sound, N.J.....	1595
Sops Island, Newfoundland.....	219	Stock Island, Fla.....	3855
Sorry Harbor.....	123	Stone Harbor, N.J.....	1603
Souris Head, Prince Edward Island.....	421	Stone Island, Maine.....	607
South Alamaha River, Ga.....	3069	Stonington, Maine.....	643
South Amboy, N.J.....	1399	Stono River, S.C.....	2709-2721
South America.....	4629-4945	Stony Creek, Md.....	2053
South Ashley Bridge, S.C.....	2683	Stony Point, N.Y.....	1139
South Atlantic Ocean Islands.....	4947-4957	Stouts Creek, N.J.....	1487
South Bay, Tx.....	4383	Stow Creek, N.J.....	1705-1711
South Brunswick River, Ga.....	3097	Strait of Belle Isle.....	207-211
South Bull Island, S.C.....	2927	Strait of Canso, Nova Scotia.....	473
South Carolina.....	2445-2957	Stratford, Conn.....	1107
South Delray Beach, Fla.....	3417	Strathmere, Strathmere Bay, N.J.....	1585

	No.		No.
Stuart, Fla.....	3345	Thomas Point Shoal Light, Md.....	2069
Stupart Bay.....	153	Thomasin, La.....	4245
Sturgeon Island, Maine.....	725	Thomaston, Maine.....	679
Sturgeon Point, Va.....	2265	Thoroughfare Creek, S. C.....	2543
Sugarloaf Beach (inside), Fla.....	3803	Threemile Cut, Ga.....	3061
Sugarloaf Key, Fla..... 3761, 3765, 3777, 3781		Threemile Harbor entrance, N. Y.....	1211
Sugarloaf Shores, Fla..... 3797, 3801, 3805		Throgs Neck, N. Y.....	1129
Sullivans Island, S. C.....	2619	Thunderbolt, Ga.....	2983
Summerhouse Point, S. C.....	2833	Ti coralak Island, Labrador.....	189
Summerland Key, Fla..... 3745, 3747, 3769		Tidnish Head, New Brunswick.....	407
Summerside Harbour, Prince Edward I.....	429	Tierra Del Fuego.....	4939-4945
Summit Bridge, Del.....	1755	Tiger Point, Fla.....	3161
Sunbury, Ga.....	3015	Tignish, Prince Edward Island.....	409
Sunglow Pier, Fla.....	3273	Tilghman Island, Md.....	2005
Sunnybank, Va.....	2153	Timbaler Bay, La.....	4281, 4283
Sunny Isles, Biscayne Creek, Fla.....	3463	Timbaler Island, La.....	4281
Sunny Point Army Base, N. C.....	2419, 2423	Timmons River, Ga.....	3025
Sunset Beach, Cape May, N. J.....	2441, 1627	Tinicum Nat. Wildlife Refuge, Pa.....	1791-1795
Sunset Beach, Del. River, N. J.....	1811	Titusville, Fla.....	3301
Sunset Beach, N. C.....	2443	Tiverton, Nova Scotia.....	527
Sunset Cove, Fla.....	3555	Tivoli, N. Y.....	1337
Sunset Lake, N. J.....	1617	Tocoi, Fla.....	3239
Suriname.....	4691-4695	Todd Creek, Ga.....	3111
Suriname River Entrance * (276).....	4693	Tolchester, Md.....	2033
Susquehanna River, Md.....	2045, 2047	Tolomato River, Fla.....	3261
Sutherlands Still, Fla.....	3245	Tom Point Creek, S. C.....	2743
Suwannee, Fla.....	4073	Toms Cove, Assateague Beach, Md.....	1865
Suwannee River, Fla.....	4071	Toms Harbor, Fla.....	3631
Swain Channel, N. J.....	1615	Toms Harbor Channel, Fla.....	3635
Swan Creek, Md.....	2031	Toms Harbor Cut, Fla.....	3629
Swans Island, Maine.....	635	Toms River, N. J.....	1475
Swedesboro, N. J.....	1785	Toogoodoo Creek, S. C.....	2745
Sweetwater, N. J.....	1551	Torch Channel, Fla.....	3721
Swim Point, Nova Scotia.....	519	Torch Ramrod Channel, Fla.....	3719
Swing Bridge, Brickyard Ferry, S. C.....	2801	Totten Key, Fla.....	3517
Sykes Creek, Fla.....	3297	Town Point, Va.....	2237
Sylvan Glen, N. J.....	1847	Town Point Wharf, Md.....	2039
		Townsend Gut, Maine.....	703
		Townsend Sound, N. J.....	1593
		Townsend Inlet, N. J.....	1591-1599
		Tracadie, New Brunswick.....	395
		Travis Point, Va.....	2101
		Tred Avon River, Md.....	1995, 1997
		Trenchards Inlet, S. C.....	2849, 2851
		Trenton, N. J.....	1851
		Trepassey Harbour, Newfoundland.....	235
		Trinidad.....	4673-4683
		Trinity Bay, Newfoundland.....	229
		Trinity Bay, Texas.....	4345, 4347
		Triple ESS Marina, N. C.....	2385
		Trois Rivieres, Quebec.....	371
		Tropical Homesites Landing, Fla.....	3939
		Trout River, Fla.....	3209-3213
		Troy, N. Y.....	1345
		Truro, Nova Scotia.....	549
		Tubbs Inlet, N. C.....	2439
		Tuckahoe, N. J.....	1577
		Tuckahoe Creek, Md.....	1993
		Tuckahoe River, N. J.....	1577, 1579
		Tuckers Island, Fla.....	4047
		Tuckerton, Tuckerton Creek, N. J.....	1529
		Tuckerton Creek, N. J.....	1527
		Tue Marshes Light, Va.....	2199
		Tulifiny River, S. C.....	2917
		Turbo, Colombia.....	4631
		Turkey Basin, Fla.....	3789
		Turkey Creek, S. C.....	2641
		Turkey Creek, Miss.....	4205
		Turkey Point, Apalachee Bay, Fla.....	4099
		Turkey Point, Biscayne Bay, Fla.....	3507
		Turks Island, Bahamas.....	4479
		Turnbridge Landing, S. C.....	2957
		Turning Basin, Port Everglades, Fla.....	3443
		Turning Basin, Texas City, Texas.....	4333

T

Tadoussac, Quebec.....	331
Tall Pines Camp, N. J.....	1459
Tambau, Brazil.....	4747
Tampa Bay, Fla.....	3963-4009
Tampico Harbor, Mexico * (232).....	4387
Tanger Island, Va.....	1929
Tappahannock, Va.....	2175
Tarpon Creek, Fla.....	3761, 3799
Tarpon Springs, Fla.....	4023
Tarrytown, N. Y.....	1321
Taunton River, Mass.....	1019
Tavernier, Fla.....	3559-3563
Taylor Sound, N. J.....	1615
Taylor's Bridge, Del.....	1723
Taylor's Island, Md.....	1983
Tchefuncta River, La.....	4223
Teague Creek, Md.....	1949
Tenants Harbor, Maine.....	669
Tensaw River, Ala.....	4187
Tequesta, Fla.....	3375-3379
Terrebonne Bay, La.....	4285, 4287
Texas.....	4319-4383
Texas City, Texas.....	4333
Thames River, Conn.....	1053-1057
Thank God Harbor, Greenland.....	99
The Bight, Cat Island, Bahamas.....	4465
The Battery, N. Y.....	1309
The Cove, Charleston Harbor, S. C.....	2625
The Folly, S. C.....	2855
The Glades, Del.....	1677
The Glen, R. I.....	991
The Narrows, Harris, Fla.....	4151
The Narrows, N. Y.....	1301, 1303
Thomas Landing, Ga.....	3029

Turtle Cove, N. J.	No. 1557	Wakema, Va.	No. 2213
Turtle River, Ga.	3091-3095	Walburg Creek, Ga.	3007
Tutoia, Baiada, Brazil.	4727	Waldoboro, Maine.	689
Tuxpan, Mexico.	4389	Wallabout Bay, N. Y.	1153
Twin Rivers Marina, Fla.	4063	Wallops Island, Va.	1889
Tybee Creek, Ga.	2975	Walpole, Maine.	695
Tybee Creek entrance, Ga.	2975	Waltz Key, Fla.	3821
Tybee Light, Ga.	2959	Waltz Key Basin, Fla.	3821-3825
Tylerville, Conn.	1071	Wanamaker Bridge, Pa.	1787
U			
Umananak Fjord, Greenland.	91	Wando River, S. C.	2667-2677
Uncatena Island, Mass.	951	Wapitagun Harbour, Quebec.	291
Ungava Bay, Canada.	159-165	Wappoo Creek, S. C.	2681
Union City, N. J.	1311	Ward's Dock, S. C.	2495
Union River, Maine.	633	Wards Island, N. Y.	1141
Upper Machodoc Creek, Va.	2117	Wares Wharf, Va.	2173
Upper Matecumbe Key, Fla. 3583, 3589, 3599, 3603		Waretown, N. J.	1495
Upper Sugarloaf Sound, Fla.	3791-3799	Warrington, Fla.	4159
Upshur Neck, Va.	1903	Washington, D. C. * (112).	2143
Urbanna, Va.	2169	Washington Channel, D. C.	2143
Uruguay.	4819, 4821	Washington Navy Yard, D. C.	2145
U. S. Hwy 9 Bridge, Nacote Creek, N. J. ...	1541	Wasque Point, Mass.	933
U. S. Hwy 30 Bridge, Abescon Creek, N. J. ...	1559	Wassaw Sound, Ga.	2975-2987
US Coast Guard Station		Watch Hill Point, R. I.	1047
Chincoteague Island, Va.	1873	Watchogue Creek, N. Y.	1247
Fort Macon, N. C.	2377	Water Key, Fla.	3697
Hillsboro Inlet, Fla.	3429	Water Keys, Fla.	3741
Indian River Inlet, Del.	1855	Watts Island, Va.	1927
Manasquan Inlet, N. J.	1447	Waveland, Miss.	4215
Oregon Inlet, N. C.	2333	Webeck Harbour, Labrador.	185
Sand Shoal Inlet, Va.	1905	Webhannet River, Maine.	785
Smith Island, Va.	1909	Wednesday Point, Fla.	3525
South Island Plantation, S. C.	2503	Weehawken, N. J.	1311
V			
VAB Turning Basin, Fla.	3291	Weekapaug Point, R. I.	1045
Vaca Key, Fla.	3643	Weeks Bay, La.	4313
Vaca Key, USCG Station, Fla * (172).	3647	Weir Creek, N. J.	1669
Vail Island, Maine.	753	Weir River, Mass.	869
Valleyfield, Newfoundland.	225	Welaka, Fla.	3249
Venezuela.	4643-4671	Wellfleet, Mass.	897
Venice Inlet, Fla.	3957	Wellington Channel, Artic.	29
Ventnor City, N. J.	1565	Wells, Maine.	785
Veracruz, Mexico.	4391	Welspool, New Brunswick.	585
Vermilion Bay, La.	4311, 4313	West Bahia Honda Key, Fla.	3669
Vernon View, Ga.	2991	West Bay Creek, Fla.	4145
Vero Beach, Fla.	3323	West Bay, Texas.	4351, 4353
Vero Beach (ocean), Fla.	3329	West Branch, Boyds Creek, S. C.	2905, 2907
Vienna, Md.	1967	West Branch, Cooper River, S. C.	2663, 2665
Vieux Fort Bay, St. Lucia.	4615	West Cote Blanche Bay, La.	4309
Vilano Beach, Fla.	3261	West Creek, N. J.	1647, 1649
Village Creek Cemetery, S. C.	2809	West Creek, Westcunk Creek, N. J.	1523
Village Creek Entrance, S. C.	2807	West Falmouth Harbor, Mass.	959
Vinahaven, Maine.	647	West Fire Island, N. Y.	1239
Vineyard Sound.	947-955	West Lake, Fla.	3453, 3455
Virgin Islands.	4595-4601	West Palm Beach Canal, Fla.	3407
Virginiana.	1865-2311	West Point, Cat Island, Miss.	4207
Virginiana Beach, Va.	2301	West Point, Va.	2211
Virginiana Key, Fla.	3487	West River, Md.	2077
Vitoria, Brazil.	4777	West Wildwood, N. J.	1609
W			
Waackaack Creek, N. J.	1415	Westbrook, Duck I. Roads, Conn.	1087
Wabasso, Fla.	3321	Westcunk Creek, N. J.	1521, 1523
Waccamaw River, S. C.	2539-2561	Westerly, Pawcatuck River, R. I.	1049
Wachapreague Inlet, Va.	1897	Westport, Nova Scotia.	525
Wachesaw Landing, S. C.	2545	Westport Harbor, Mass.	983
Wading River, N. J.	1547	Westport River, Mass.	983, 985
Wadmalaw River, S. C.	2751-2755	Westville, N. J.	1809
Wakeham Bay, Hudson Strait.	151	Wetappo Creek, Fla.	4139
		Weymouth, Nova Scotia.	529
		Weymouth Fore River Bridge.	863
		Weymouth Plantation, S. C.	2525
		Whale Branch, S. C.	2841-2845
		Whale Harbor, Fla.	3579, 3581
		Wharf Creek, S. C.	2597
		Whiskey Creek, Fla.	3447, 3451
		White Bay, Newfoundland.	219
		Whitehaven, Md.	1961

ASTRONOMICAL DATA, 2009

January				February				March				April			
	d.	h	m		d.	h	m		d.	h	m		d.	h	m
E	2	19	..	☉	2	23	13	☉	4	07	46	N	1	03	..
☉	4	11	56	N	5	15	..	N	4	22	..	P	2	02	..
N	9	06	..	P	7	20	..	P	7	15	..	☉	2	14	34
P	10	11	..	☉	9	14	49	☉	11	02	38	E	7	13	..
☉	11	03	27	E	11	18	..	E	11	05	..	☉	9	14	56
E	15	08	..	☉	16	21	37	S	18	05	..	S	14	13	..
☉	18	02	46	S	18	21	..	☉	18	17	47	A	16	09	..
S	22	14	..	A	19	17	..	A	19	13	..	☉	17	13	36
A	23	00	..	☉	25	01	35	☉ _M	20	11	44	E	21	23	..
☉	26	07	55	E	26	06	..	E	25	14	..	☉	25	03	23
E	30	00	..					☉	26	16	06	P	28	06	..
												N	28	09	..

May				June				July				August			
	d.	h	m		d.	h	m		d.	h	m		d.	h	m
☉	1	20	44	☉	7	18	12	S	5	08	..	S	1	14	..
E	4	19	..	S	8	02	..	☉	7	09	21	A	4	01	..
☉	9	04	01	A	10	16	..	A	7	22	..	☉	6	00	55
S	11	20	..	E	15	14	..	E	12	21	..	E	9	02	..
A	14	03	..	☉	15	22	15	☉	15	09	53	☉	13	18	55
☉	17	07	26	☉ _J	21	05	46	N	19	13	..	N	15	22	..
E	19	07	..	N	22	03	..	P	21	20	..	P	19	05	..
☉	24	12	11	☉	22	19	35	☉	22	02	35	☉	20	10	02
N	25	17	..	P	23	11	..	E	25	14	..	E	22	00	..
P	26	04	..	E	28	05	..	☉	28	22	00	☉	27	11	42
☉	31	03	22	☉	29	11	28					S	28	21	..
E	31	23	..									A	31	11	..

September				October				November				December			
	d.	h	m		d.	h	m		d.	h	m		d.	h	m
☉	4	16	03	E	2	16	..	☉	2	19	14	☉	2	07	30
E	5	09	..	☉	4	06	10	N	5	16	..	N	3	00	..
☉	12	02	16	N	9	10	..	P	7	07	..	P	4	14	..
N	12	05	..	☉	11	08	56	☉	9	15	56	☉	9	00	13
P	16	08	..	P	13	12	..	E	12	00	..	E	9	05	..
E	18	10	..	E	15	19	..	☉	16	19	14	S	16	03	..
☉	18	18	44	☉	18	05	33	S	18	20	..	☉	16	12	02
☉ _S	22	21	19	S	22	12	..	A	22	20	..	A	20	15	..
S _S	25	04	..	A	25	23	..	☉	24	21	39	☉ _D	21	17	47
☉	26	04	50	☉	26	00	42	E	26	08	..	E	23	15	..
A	28	04	..	E	30	00	..					☉	24	17	36
												N	30	10	..
												☉	31	19	13

LUNAR DATA

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

SOLAR DATA

- ☉_M – March equinox
- ☉_J – June solstice
- ☉_S – September equinox
- ☉_D – December solstice

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