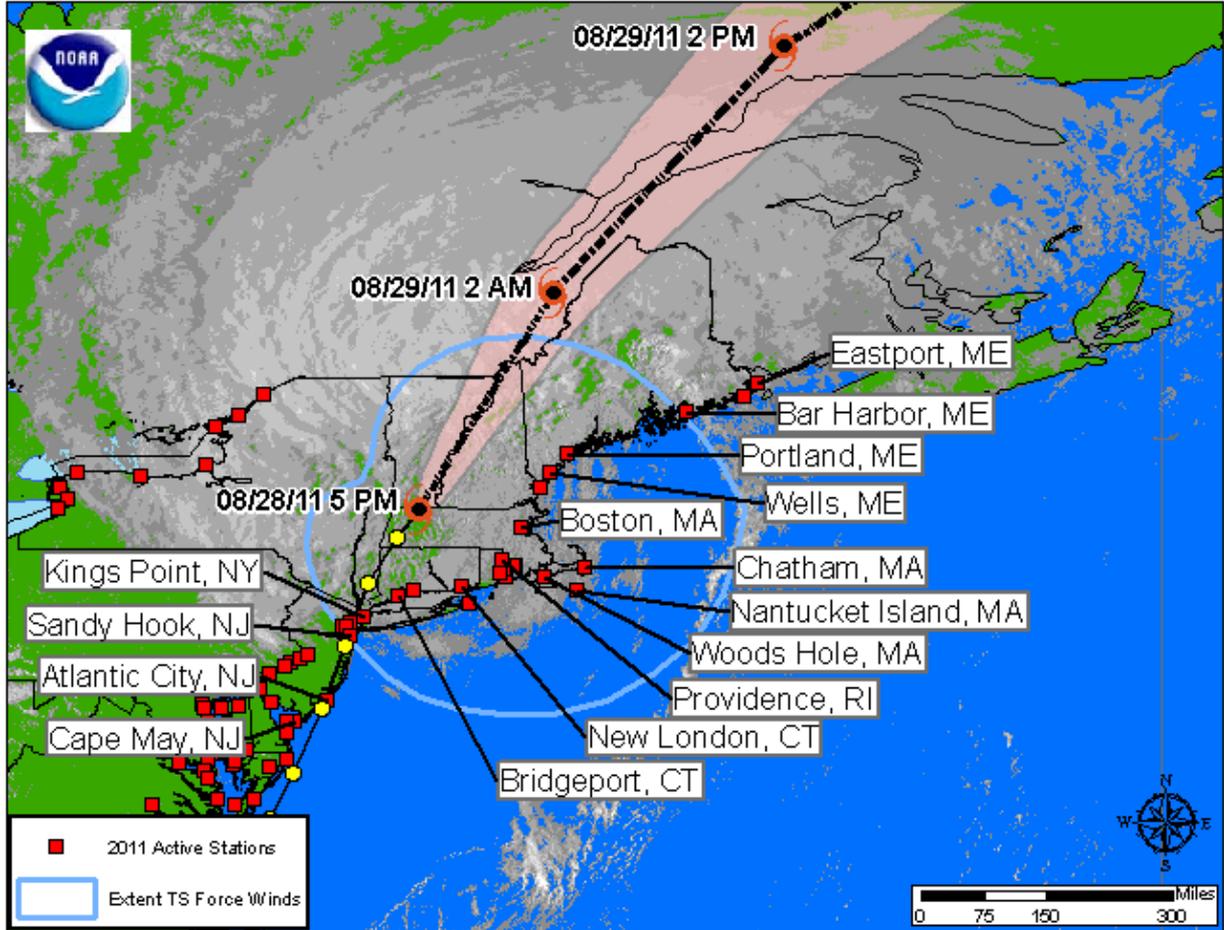




Tropical Storm IRENE QuickLook  
Posted: 18:00 EDT 08/28/2011

NOAA and NOAA Partnership Stations Relative to the Storm



### Storm Analysis

As of 08/28/2011 18:00 EDT, water levels from Massachusetts to Maine are slowly rising and range between 1 and 2 feet above predicted tide levels. Water levels from Rhode Island southeastward to New York city are falling, however they still remain elevated by about 0.5 to 1.5 feet. Levels at several locations along the New Jersey coastline have now fallen to 0.5 to 1.25 feet below predicted tide levels.

Winds range between 15 and 35 kts with higher gusts. Within the past hour, Sandy Hook, NJ, which is on the back edge of the tropical storm force wind region, recorded a wind gust of 50 kts.

Barometric pressure is falling from Massachusetts to Maine and had bottomed out or is rising from Rhode Island southeastward to New Jersey.

Water Level and Meteorological plots available below are updated automatically. Water level predictions relative to Mean Lower Low Water are:

## Tropical Storm IRENE QuickLook, POSTED 18:00 EDT 08/28/2011

Nantucket Island, MA: Next predicted high tides are 3.9 ft (1.18 m) at 08/29/2011 00:22 EDT and 3.5 ft (1.07 m) at 08/29/2011 12:50 EDT.

Woods Hole, MA: Next predicted high tides are 2.7 ft (0.82 m) at 08/28/2011 20:25 EDT and 2.7 ft (0.81 m) at 08/29/2011 08:44 EDT.

Chatham, MA: Next predicted high tides are 6.8 ft (2.06 m) at 08/29/2011 00:12 EDT and 6.3 ft (1.92 m) at 08/29/2011 12:39 EDT.

Boston, MA: Next predicted high tides are 11.3 ft (3.45 m) at 08/28/2011 23:24 EDT and 10.8 ft (3.30 m) at 08/29/2011 11:53 EDT.

Wells, ME: Next predicted high tides are 10.5 ft (3.18 m) at 08/28/2011 23:19 EDT and 10.0 ft (3.04 m) at 08/29/2011 11:47 EDT.

Portland, ME: Next predicted high tides are 10.9 ft (3.32 m) at 08/28/2011 23:11 EDT and 10.3 ft (3.15 m) at 08/29/2011 11:40 EDT.

Bar Harbor, ME: Next predicted high tides are 12.5 ft (3.80 m) at 08/28/2011 22:52 EDT and 12.0 ft (3.67 m) at 08/29/2011 11:20 EDT.

Eastport, ME: Next predicted high tides are 20.9 ft (6.38 m) at 08/28/2011 23:03 EDT and 20.6 ft (6.29 m) at 08/29/2011 11:30 EDT.

Providence, RI: Next predicted high tides are 5.8 ft (1.77 m) at 08/28/2011 20:14 EDT and 5.9 ft (1.80 m) at 08/29/2011 08:42 EDT.

New London, CT: Next predicted high tides are 3.4 ft (1.03 m) at 08/28/2011 21:29 EDT and 3.3 ft (1.01 m) at 08/29/2011 09:54 EDT.

Bridgeport, CT: Next predicted high tides are 8.0 ft (2.45 m) at 08/28/2011 23:29 EDT and 8.1 ft (2.45 m) at 08/29/2011 11:56 EDT.

Kings Point, NY: Next predicted high tides are 8.7 ft (2.65 m) at 08/28/2011 23:19 EDT and 8.8 ft (2.69 m) at 08/29/2011 11:46 EDT.

Sandy Hook, NJ: Next predicted high tides are 6.1 ft (1.84 m) at 08/28/2011 19:55 EDT and 5.8 ft (1.79 m) at 08/29/2011 08:28 EDT.

Atlantic City, NJ: Next predicted high tides are 5.4 ft (1.64 m) at 08/28/2011 19:34 EDT and 4.9 ft (1.51 m) at 08/29/2011 08:04 EDT.

Cape May, NJ: Next predicted high tides are 6.2 ft (1.90 m) at 08/28/2011 20:44 EDT and 5.7 ft (1.77 m) at 08/29/2011 09:10 EDT.

For additional data, please see the [Center for Operational Oceanographic Products & Services](#) website. For information on Highest Astronomical Tide (HAT), NAVD88 and other datums, please see [Tidal Datums](#). For more information or archived products and reports, please see the [Storm QuickLook](#) homepage.

Analyst: PFF

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SELECT NATIONAL HURRICANE CENTER ADVISORY INFORMATION:

000  
WTNT34 KNHC 282035  
TROPICAL STORM IRENE ADVISORY NUMBER 34

500 PM EDT SUN AUG 28 2011

...CENTER OF IRENE NEARING NORTHERN NEW ENGLAND...

WATCHES AND WARNINGS

-----  
A TROPICAL STORM WARNING IS IN EFFECT FOR...

\* CAPE HENLOPEN DELAWARE NORTHWARD TO EASTPORT MAINE...INCLUDING DELAWARE BAY...NEW YORK CITY...LONG ISLAND...LONG ISLAND SOUND... COASTAL CONNECTICUT AND RHODE ISLAND...BLOCK ISLAND...MARTHAS VINEYARD AND NANTUCKET

FOR STORM INFORMATION SPECIFIC TO YOUR AREA IN THE UNITED STATES...INCLUDING POSSIBLE INLAND WATCHES AND WARNINGS...PLEASE MONITOR PRODUCTS ISSUED BY YOUR LOCAL NATIONAL WEATHER SERVICE FORECAST OFFICE. FOR STORM INFORMATION SPECIFIC TO YOUR AREA OUTSIDE THE UNITED STATES...PLEASE MONITOR PRODUCTS ISSUED BY YOUR NATIONAL METEOROLOGICAL SERVICE.

DISCUSSION AND 48-HOUR OUTLOOK

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AT 500 PM EDT THE CENTER OF TROPICAL STORM IRENE WAS LOCATED ABOUT 65 MI S OF RUTLAND VERMONT. IRENE IS MOVING TOWARD THE NORTH-NORTHEAST NEAR 26 MPH...43 KM/H...AND THIS MOTION WITH A LITTLE FASTER FORWARD SPEED IS EXPECTED OVER THE NEXT DAY OR SO. ON THE FORECAST TRACK...THE CENTER OF IRENE WILL MOVE OVER EASTERN CANADA TONIGHT AND EARLY MONDAY.

MAXIMUM SUSTAINED WINDS HAVE DECREASED TO NEAR 50 MPH WITH HIGHER GUSTS...MAINLY OVER OR NEAR THE WATER WELL EAST OF THE CENTER. IRENE IS FORECAST TO WEAKEN AND BECOME A POST-TROPICAL CYCLONE BY TONIGHT.

TROPICAL STORM FORCE WINDS EXTEND OUTWARD UP TO 320 MILES FROM THE CENTER. A WIND GUST OF 67 MPH WAS REPORTED FROM AN UNOFFICIAL SITE NEAR HYANNIS PORT MASSACHUSETTS.

ESTIMATED MINIMUM CENTRAL PRESSURE IS 975 MB...28.79 INCHES.

HAZARDS AFFECTING LAND

-----  
STORM SURGE...ELEVATED WATER LEVELS WILL PERSIST IN AREAS OF ONSHORE WINDS ALONG THE COAST FROM CONNECTICUT THROUGH MAINE. THE HIGHEST WATER LEVELS WILL OCCUR NEAR THE UPPER PARTS OF BAYS AND INLETS. NEAR THE COAST...THESE

Tropical Storm IRENE QuickLook, POSTED 18:00 EDT 08/28/2011

ELEVATED WATER LEVELS WILL ALSO BE ACCOMPANIED BY LARGE...DESTRUCTIVE...AND LIFE-THREATENING WAVES. HIGHER THAN NORMAL ASTRONOMICAL TIDES ARE OCCURRING THIS WEEKEND. COASTAL AND RIVER FLOODING WILL BE HIGHEST AROUND THE TIME OF HIGH TIDE. STORM TIDE AND SURGE VALUES ARE VERY LOCATION-SPECIFIC...AND USERS ARE URGED TO CONSULT PRODUCTS ISSUED BY THEIR LOCAL NATIONAL WEATHER SERVICE OFFICES.

RAINFALL...IRENE IS EXPECTED TO PRODUCE TOTAL RAINFALL ACCUMULATIONS OF 4 TO 6 INCHES...WITH ISOLATED MAXIMUM AMOUNTS OF 8 INCHES... FROM NORTHEASTERN NEW YORK STATE NORTHEASTWARD THROUGH THE NORTHERN PORTION OF NEW ENGLAND. THESE RAINS...COMBINED WITH HEAVY RAINS OVER THE PAST FEW WEEKS...COULD CAUSE WIDESPREAD FLOODING AND LIFE-THREATENING FLASH FLOODS.

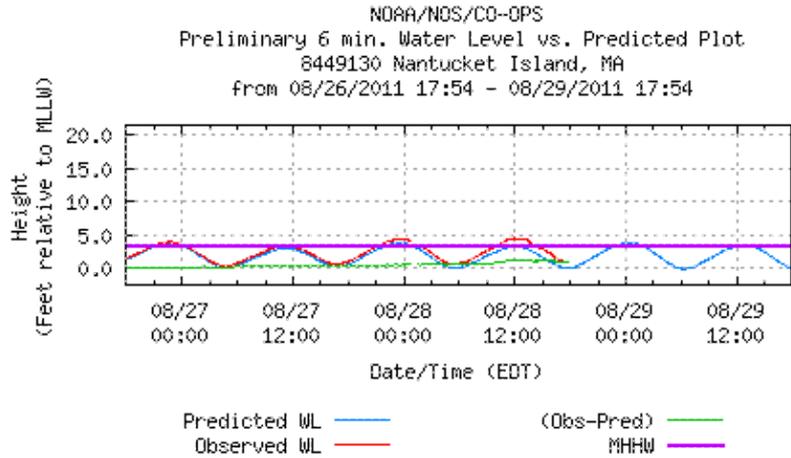
WIND...TROPICAL STORM FORCE WINDS WILL SPREAD NORTHWARD INTO PORTIONS OF NEW BRUNSWICK AND NOVA SCOTIA LATER TODAY. SIGNIFICANTLY HIGHER WIND SPEEDS ARE LIKELY OVER AREAS OF ELEVATED TERRAIN IN NORTHERN NEW ENGLAND AND EASTERN CANADA.

FORECASTER PASCH

For the purpose of timely release, data contained within this QuickLook have undergone a "limited" NOS Quality Assurance/Control; however, the data have not yet undergone final verification. All data subject to NOS verification.

Jump to: [Nantucket Island - Water Level](#), [Nantucket Island - Winds](#), [Nantucket Island - Barometric](#), [Woods Hole - Water Level](#), [Woods Hole - Barometric](#), [Chatham - Water Level](#), [Boston - Water Level](#), [Boston - Barometric](#), [Wells - Water Level](#), [Wells - Winds](#), [Wells - Barometric](#), [Portland - Water Level](#), [Bar Harbor - Water Level](#), [Bar Harbor - Winds](#), [Bar Harbor - Barometric](#), [Eastport - Water Level](#), [Eastport - Winds](#), [Eastport - Barometric](#), [Providence - Water Level](#), [Providence - Winds](#), [Providence - Barometric](#), [Providence - Air/Water Temp](#), [New London - Water Level](#), [New London - Winds](#), [Bridgeport - Water Level](#), [Bridgeport - Winds](#), [Kings Point - Water Level](#), [Kings Point - Winds](#), [Sandy Hook - Water Level](#), [Sandy Hook - Winds](#), [Atlantic City - Water Level](#), [Atlantic City - Barometric](#), [Cape May - Water Level](#), [Cape May - Winds](#),

Nantucket Island, MA - Return to List

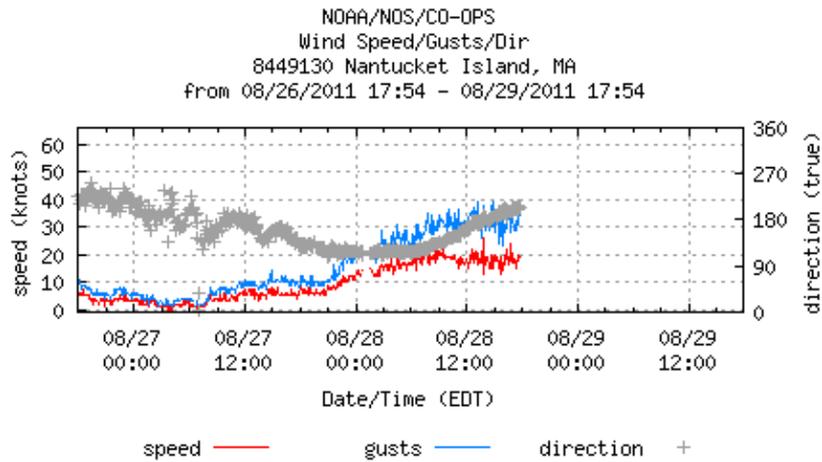


Last Observed Sample: 08/28/2011 17:42 (EDT)

Relative to MLLW: **Observed: 0.95 ft.** **Predicted: 0.06 ft.** **Residual: 0.89 ft.**

Historical Maximum Water Level: Oct 30 1991, 4.29 ft. above MHHW

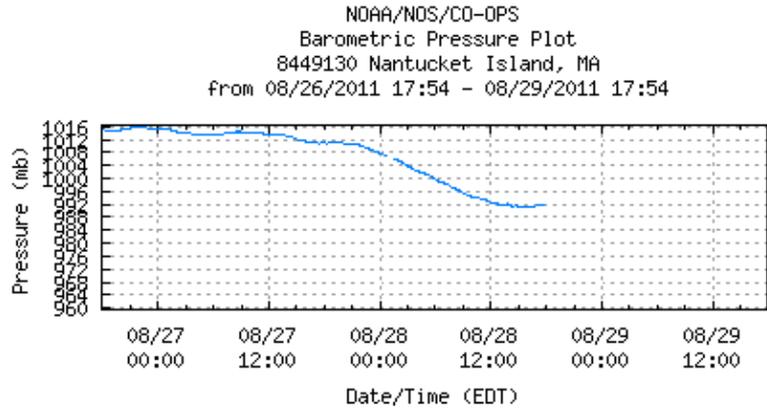
Nantucket Island, MA - Return to List



Last Observed Sample: 08/28/2011 17:42 (EDT)

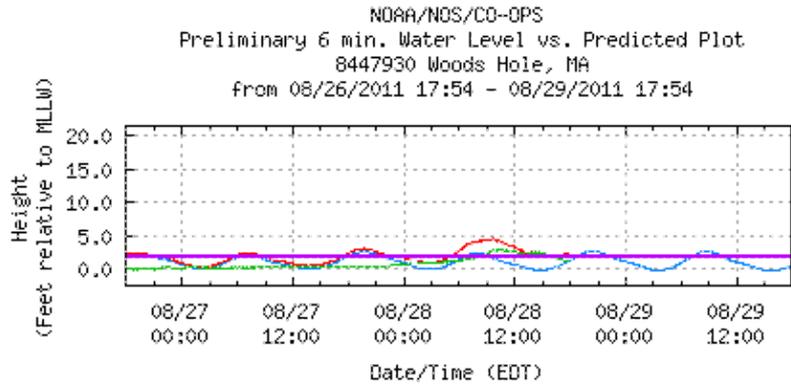
**Wind Speed: 19 knots** **Gusts: 34 knots** **Direction: 205° T**

Nantucket Island, MA - Return to List



barometric pressure —  
Last Observed Sample: 08/28/2011 17:42 (EDT)  
Barometric Pressure: 991.8 mb

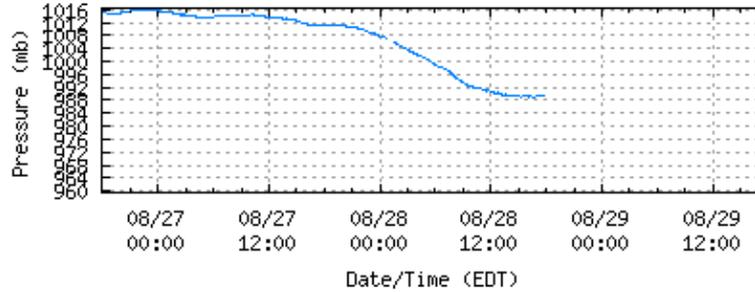
Woods Hole, MA - Return to List



Predicted WL — (Obs-Pred) —  
Observed WL — MHHW —  
Last Observed Sample: 08/28/2011 17:42 (EDT)  
Relative to MLLW: **Observed: 2.36 ft.** **Predicted: 1.14 ft.** **Residual: 1.22 ft.**  
Historical Maximum Water Level: Sep 21 1938, 8.58 ft. above MHHW

Woods Hole, MA - Return to List

NOAA/NOS/CO-OPS  
Barometric Pressure Plot  
8447930 Woods Hole, MA  
from 08/26/2011 17:54 - 08/29/2011 17:54



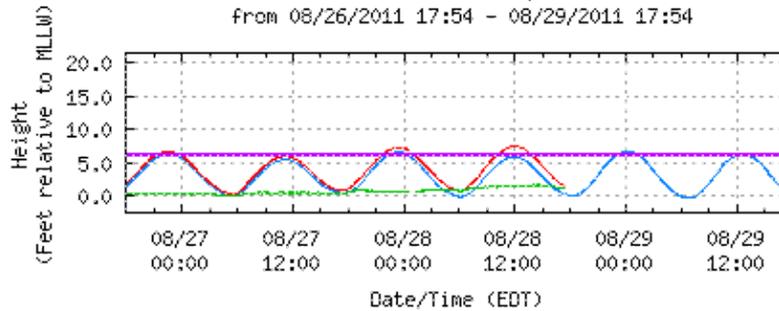
barometric pressure —

Last Observed Sample: 08/28/2011 17:42 (EDT)

Barometric Pressure: 989.6 mb

Chatham, MA - Return to List

NOAA/NOS/CO-OPS  
Preliminary 6 min. Water Level vs. Predicted Plot  
8447435 Chatham, MA  
from 08/26/2011 17:54 - 08/29/2011 17:54



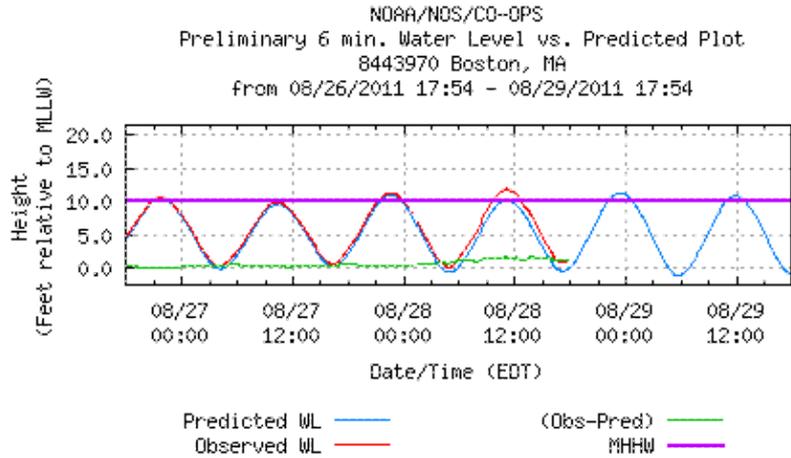
Predicted WL — (Obs-Pred) —  
Observed WL — MHHW —

Last Observed Sample: 08/28/2011 17:24 (EDT)

Relative to MLLW: **Observed: 1.52 ft.** **Predicted: 0.35 ft.** **Residual: 1.17 ft.**

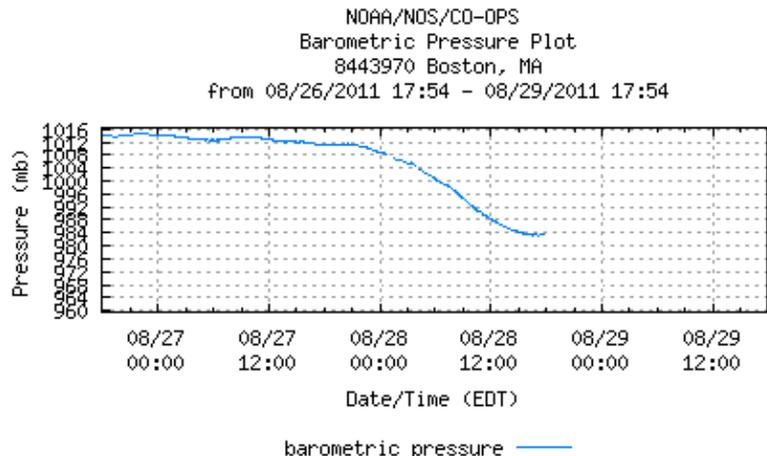
Historical Maximum Water Level: Feb 26 2010, 2.92 ft. above MHHW

Boston, MA - Return to List



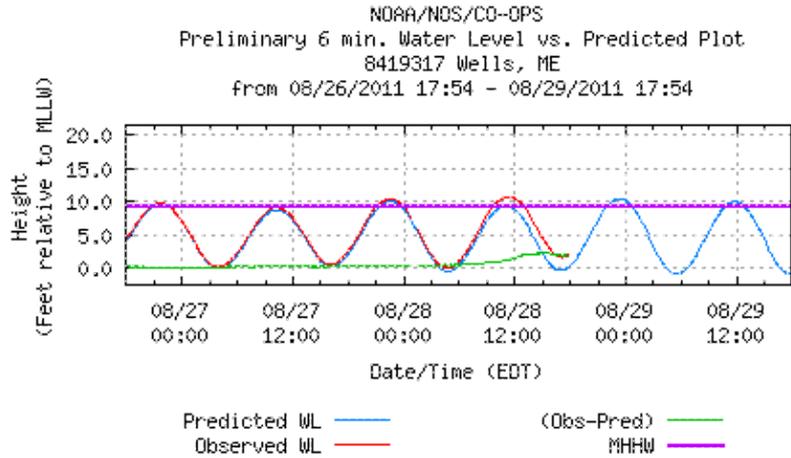
Last Observed Sample: 08/28/2011 17:42 (EDT)  
Relative to MLLW: **Observed: 1.28 ft.** **Predicted: -0.11 ft.** **Residual: 1.39 ft.**  
Historical Maximum Water Level: Feb 7 1978, 4.82 ft. above MHHW

Boston, MA - Return to List



Last Observed Sample: 08/28/2011 17:42 (EDT)  
**Barometric Pressure: 983.6 mb**

Wells, ME - Return to List

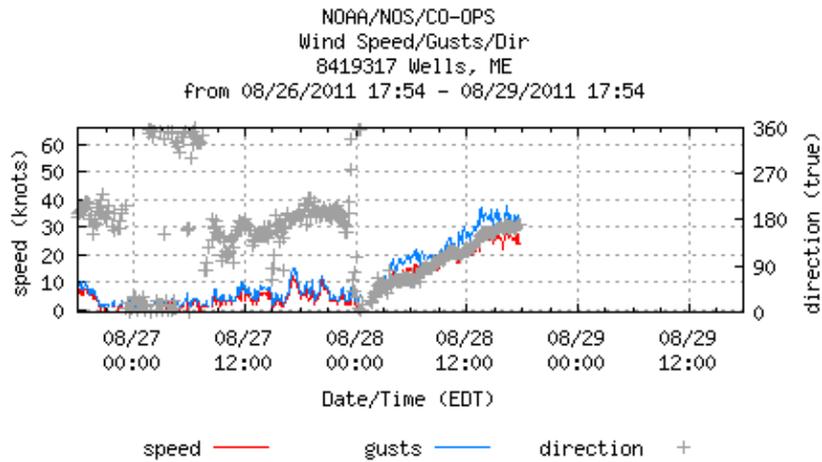


Last Observed Sample: 08/28/2011 17:42 (EDT)

Relative to MLLW: **Observed: 1.98 ft.** **Predicted: 0.08 ft.** **Residual: 1.90 ft.**

Historical Maximum Water Level: Apr 16 2007, 3.59 ft. above MHHW

Wells, ME - Return to List

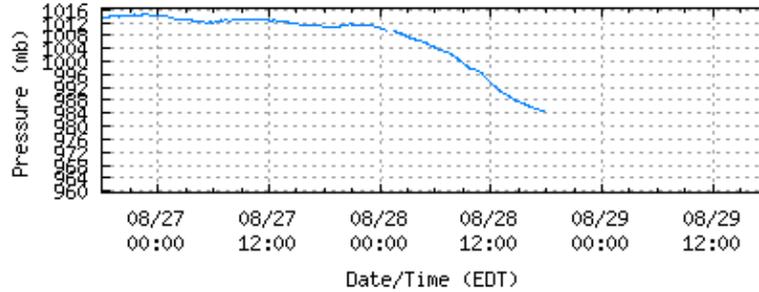


Last Observed Sample: 08/28/2011 17:42 (EDT)

**Wind Speed: 24 knots** **Gusts: 31 knots** **Direction: 171° T**

Wells, ME - Return to List

NOAA/NOS/CO-OPS  
 Barometric Pressure Plot  
 8419317 Wells, ME  
 from 08/26/2011 17:54 - 08/29/2011 17:54



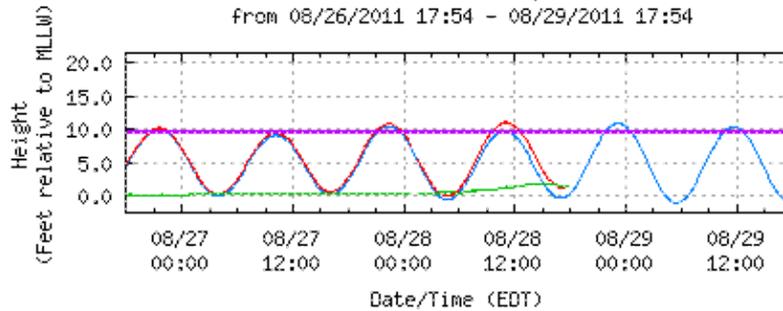
barometric pressure —

Last Observed Sample: 08/28/2011 17:42 (EDT)

Barometric Pressure: 984.7 mb

Portland, ME - Return to List

NOAA/NOS/CO-OPS  
 Preliminary 6 min. Water Level vs. Predicted Plot  
 8418150 Portland, ME  
 from 08/26/2011 17:54 - 08/29/2011 17:54



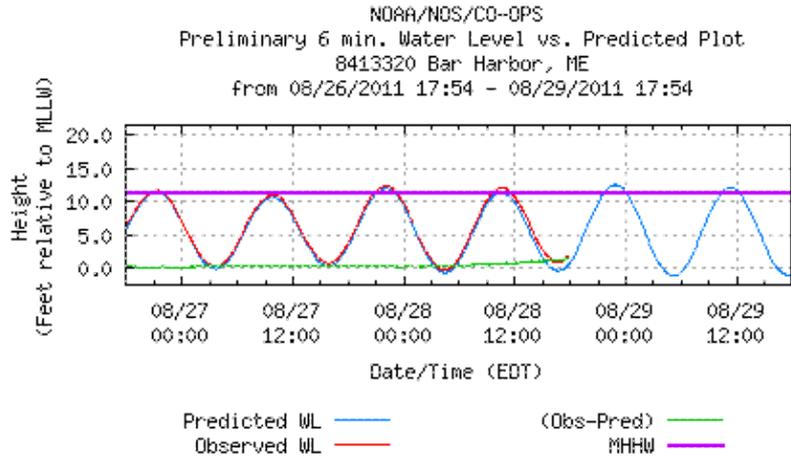
Predicted WL — (Obs-Pred) —  
 Observed WL — MHHW —

Last Observed Sample: 08/28/2011 17:42 (EDT)

Relative to MLLW: Observed: 1.65 ft. Predicted: 0.14 ft. Residual: 1.51 ft.

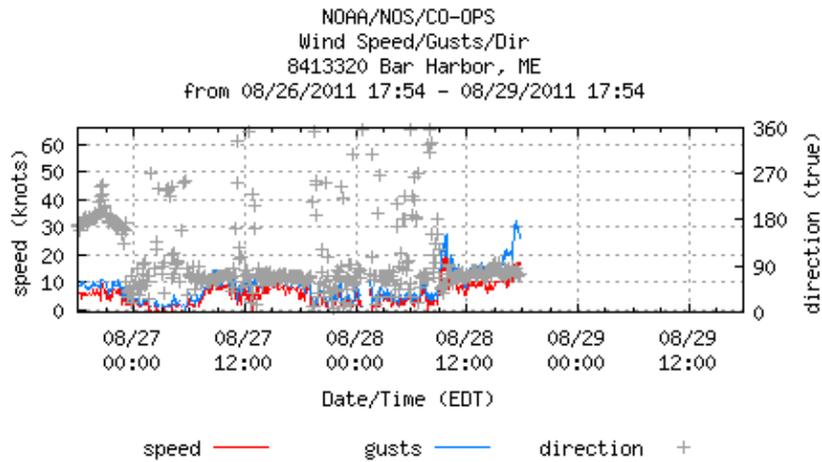
Historical Maximum Water Level: Feb 7 1978, 4.22 ft. above MHHW

Bar Harbor, ME - Return to List



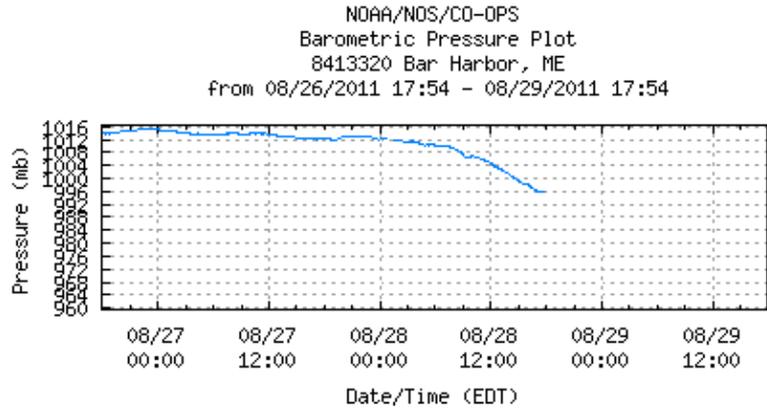
Last Observed Sample: 08/28/2011 17:42 (EDT)  
 Relative to MLLW: **Observed: 1.87 ft.** **Predicted: 0.47 ft.** **Residual: 1.40 ft.**  
 Historical Maximum Water Level: Feb 7 1978, 4.84 ft. above MHHW

Bar Harbor, ME - Return to List



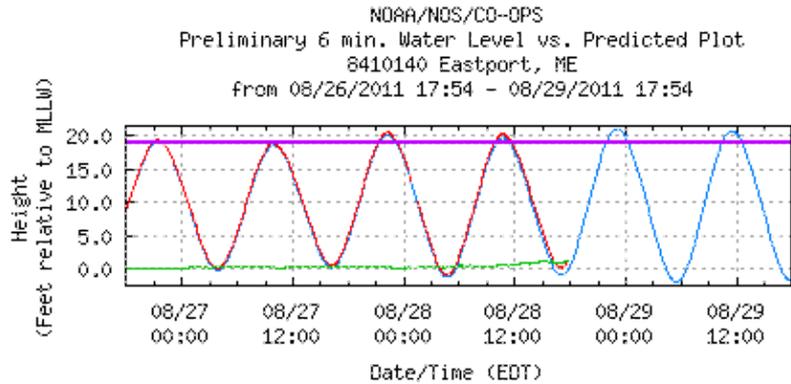
Last Observed Sample: 08/28/2011 17:42 (EDT)  
**Wind Speed: 17 knots** **Gusts: 26 knots** **Direction: 73° T**

Bar Harbor, ME - Return to List



barometric pressure —  
 Last Observed Sample: 08/28/2011 17:42 (EDT)  
 Barometric Pressure: 995.9 mb

Eastport, ME - Return to List

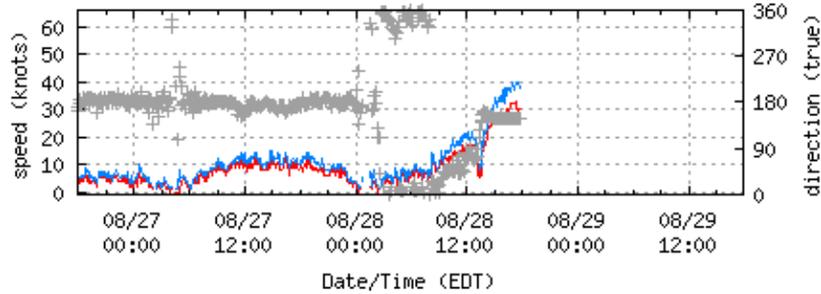


Predicted WL — (Obs-Pred) —  
 Observed WL — MHHW —

Last Observed Sample: 08/28/2011 17:42 (EDT)  
 Relative to MLLW: **Observed: 1.20 ft. Predicted: -0.12 ft. Residual: 1.32 ft.**  
 Historical Maximum Water Level: Jan 10 1997, 4.95 ft. above MHHW

Eastport, ME - Return to List

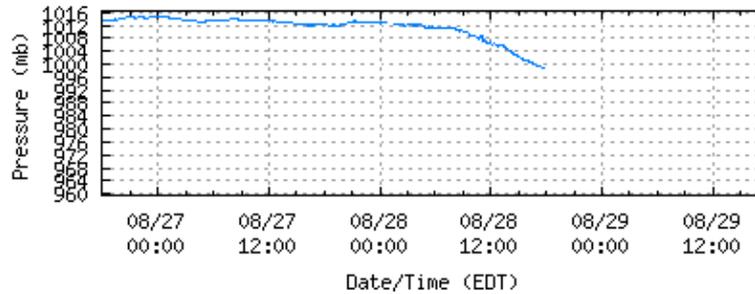
NOAA/NOS/CO-OPS  
Wind Speed/Gusts/Dir  
8410140 Eastport, ME  
from 08/26/2011 17:54 - 08/29/2011 17:54



speed — gusts — direction +  
Last Observed Sample: 08/28/2011 17:42 (EDT)  
Wind Speed: 30 knots Gusts: 38 knots Direction: 149° T

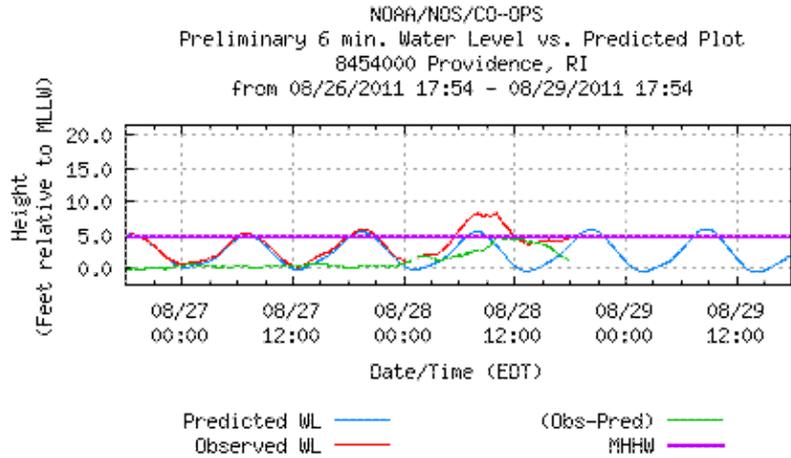
Eastport, ME - Return to List

NOAA/NOS/CO-OPS  
Barometric Pressure Plot  
8410140 Eastport, ME  
from 08/26/2011 17:54 - 08/29/2011 17:54



barometric pressure —  
Last Observed Sample: 08/28/2011 17:42 (EDT)  
Barometric Pressure: 998.8 mb

Providence, RI - Return to List

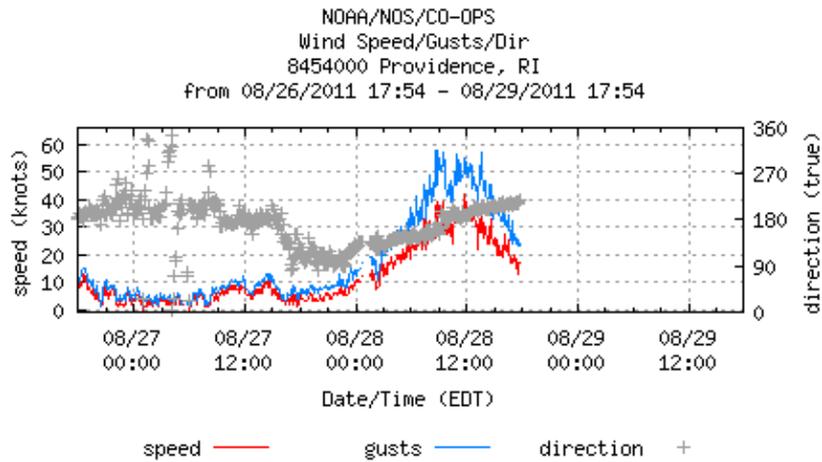


Last Observed Sample: 08/28/2011 17:42 (EDT)

Relative to MLLW: **Observed: 4.44 ft.** **Predicted: 3.15 ft.** **Residual: 1.29 ft.**

Historical Maximum Water Level: Sep 21 1938, 12.67 ft. above MHHW

Providence, RI - Return to List

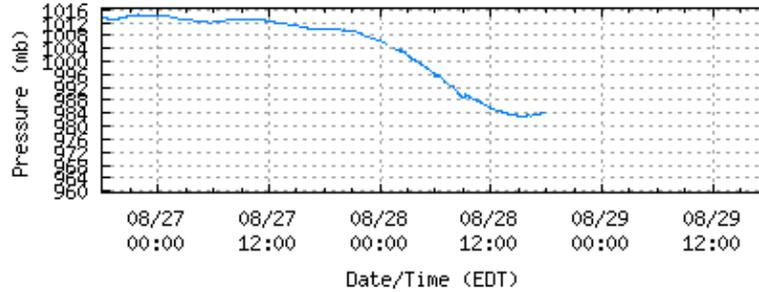


Last Observed Sample: 08/28/2011 17:42 (EDT)

**Wind Speed: 17 knots** **Gusts: 23 knots** **Direction: 218° T**

Providence, RI - Return to List

NOAA/NOS/CO-OPS  
Barometric Pressure Plot  
8454000 Providence, RI  
from 08/26/2011 17:54 - 08/29/2011 17:54



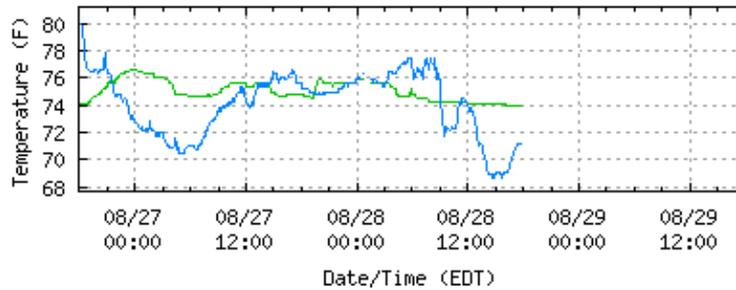
barometric pressure —

Last Observed Sample: 08/28/2011 17:42 (EDT)

Barometric Pressure: 984.3 mb

Providence, RI - Return to List

NOAA/NOS/CO-OPS  
Air/Water Temperature Plot  
8454000 Providence, RI  
from 08/26/2011 17:54 - 08/29/2011 17:54

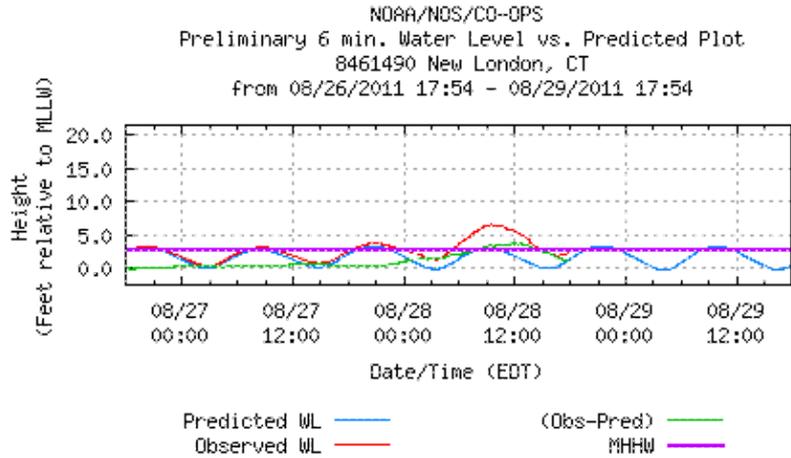


water temp. — air temp —

Last Observed Sample: 08/28/2011 17:42 (EDT)

Water Temperature: 73.9° F Air Temperature: 71.2° F

New London, CT - Return to List

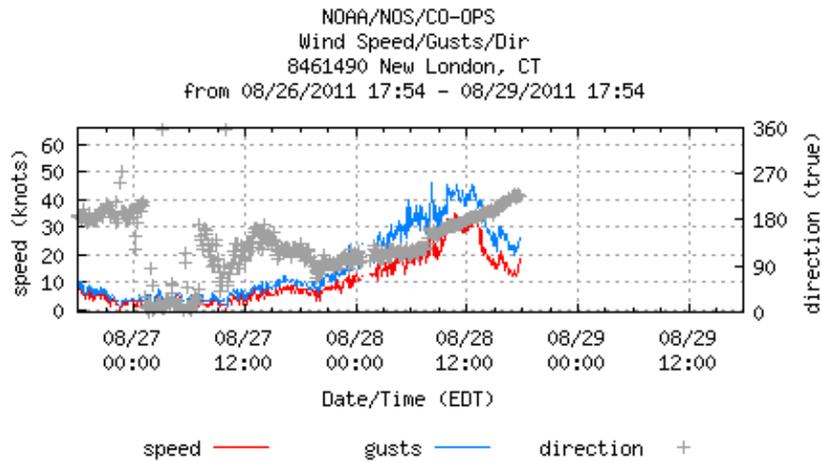


Last Observed Sample: 08/28/2011 17:42 (EDT)

Relative to MLLW: **Observed: 2.27 ft.** **Predicted: 1.15 ft.** **Residual: 1.12 ft.**

Historical Maximum Water Level: Sep 21 1938, 7.53 ft. above MHHW

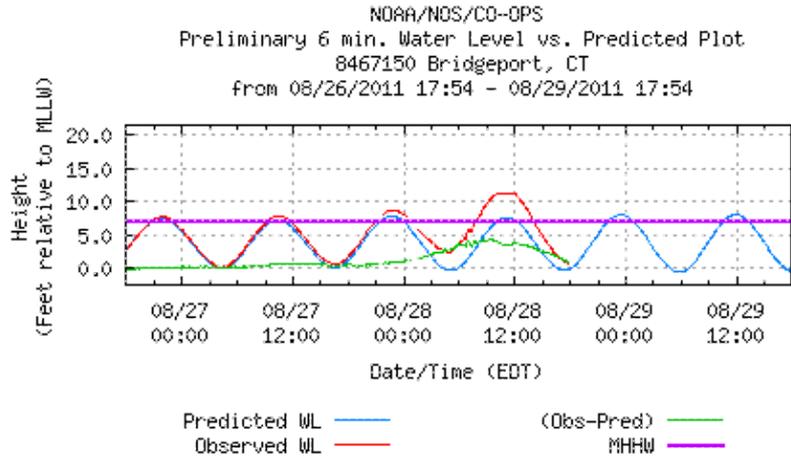
New London, CT - Return to List



Last Observed Sample: 08/28/2011 17:42 (EDT)

**Wind Speed: 18 knots** **Gusts: 26 knots** **Direction: 227° T**

Bridgeport, CT - Return to List

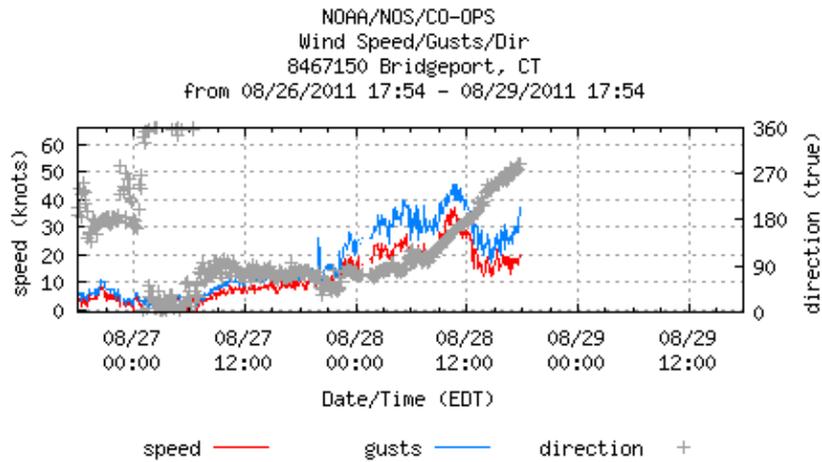


Last Observed Sample: 08/28/2011 17:42 (EDT)

Relative to MLLW: **Observed: 0.77 ft.** **Predicted: -0.16 ft.** **Residual: 0.93 ft.**

Historical Maximum Water Level: Sep 21 1938, 4.95 ft. above MHHW

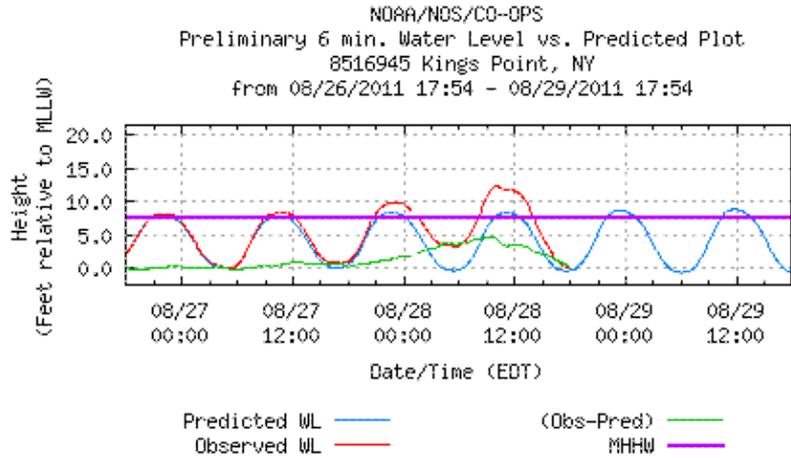
Bridgeport, CT - Return to List



Last Observed Sample: 08/28/2011 17:42 (EDT)

**Wind Speed: 20 knots** **Gusts: 37 knots** **Direction: 288° T**

Kings Point, NY - Return to List

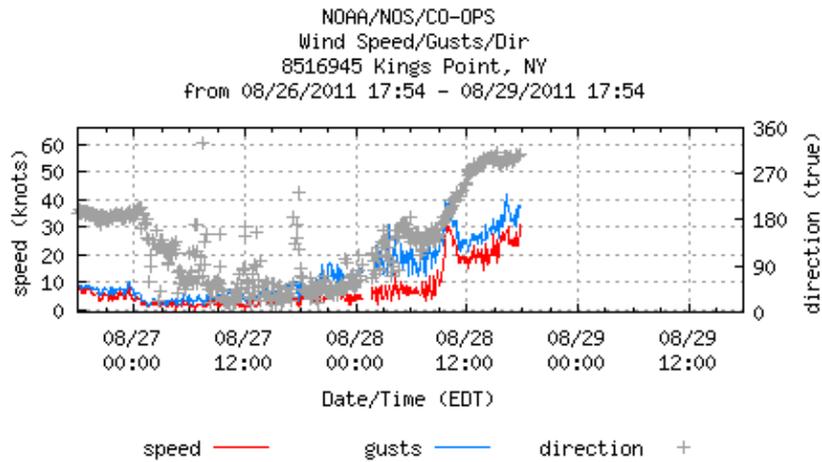


Last Observed Sample: 08/28/2011 17:48 (EDT)

Relative to MLLW: **Observed: 0.10 ft.** **Predicted: -0.32 ft.** **Residual: 0.42 ft.**

Historical Maximum Water Level: Mar 14 2010, 4.49 ft. above MHHW

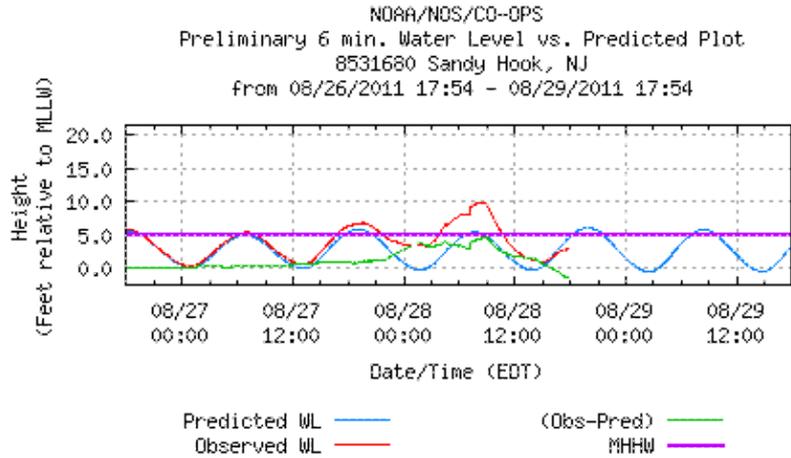
Kings Point, NY - Return to List



Last Observed Sample: 08/28/2011 17:48 (EDT)

**Wind Speed: 31 knots** **Gusts: 38 knots** **Direction: 309° T**

Sandy Hook, NJ - Return to List

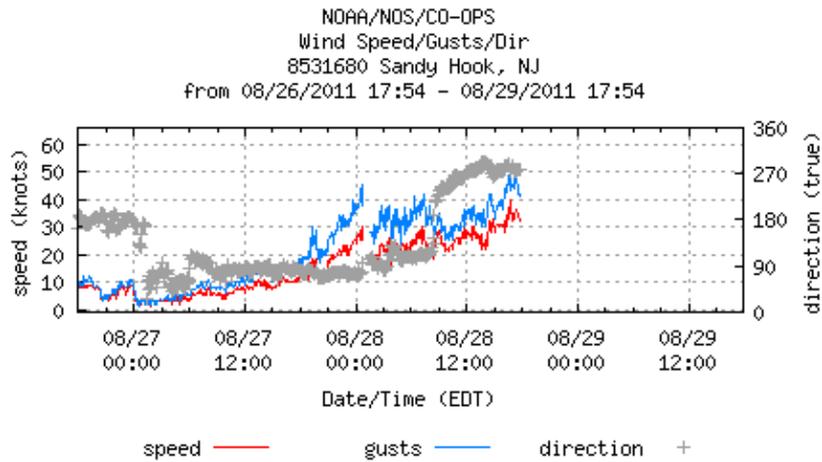


Last Observed Sample: 08/28/2011 17:42 (EDT)

Relative to MLLW: **Observed: 2.97 ft.** **Predicted: 4.39 ft.** **Residual: -1.42 ft.**

Historical Maximum Water Level: Sep 12 1960, 4.86 ft. above MHHW

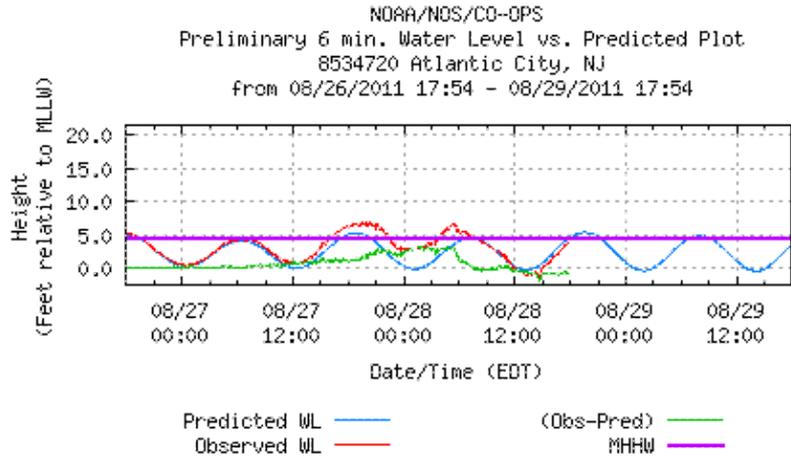
Sandy Hook, NJ - Return to List



Last Observed Sample: 08/28/2011 17:42 (EDT)

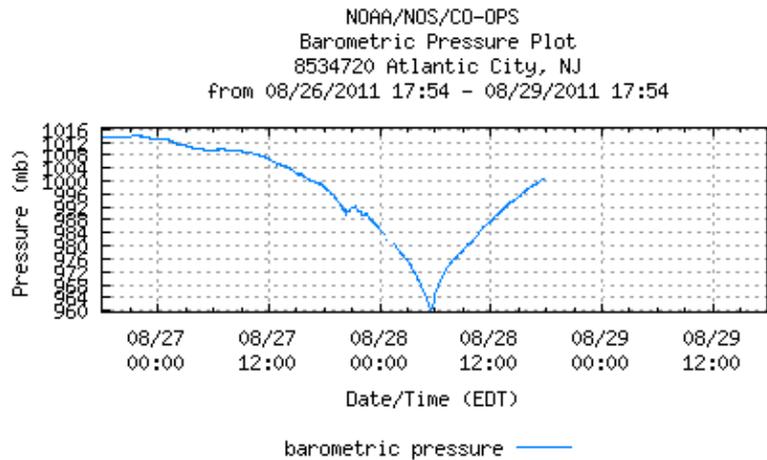
**Wind Speed: 32 knots** **Gusts: 41 knots** **Direction: 279° T**

Atlantic City, NJ - Return to List



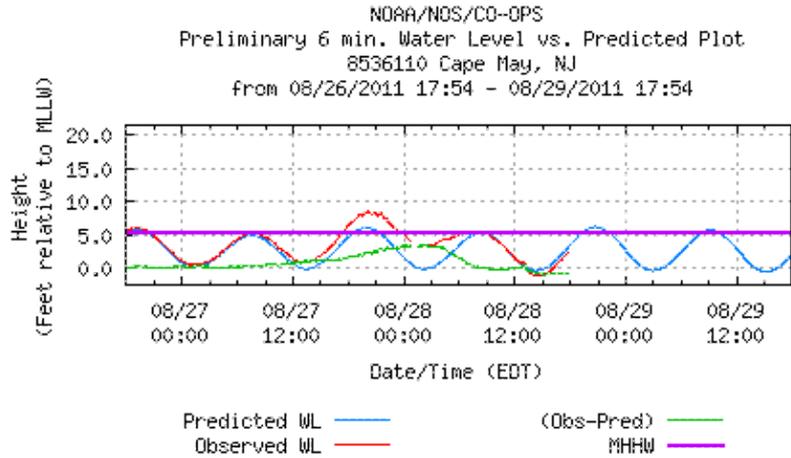
Last Observed Sample: 08/28/2011 17:42 (EDT)  
 Relative to MLLW: **Observed: 3.67 ft.** **Predicted: 4.36 ft.** **Residual: -0.69 ft.**  
 Historical Maximum Water Level: Dec 11 1992, 4.38 ft. above MHHW

Atlantic City, NJ - Return to List



Last Observed Sample: 08/28/2011 17:42 (EDT)  
**Barometric Pressure: 1000.7 mb**

Cape May, NJ - Return to List

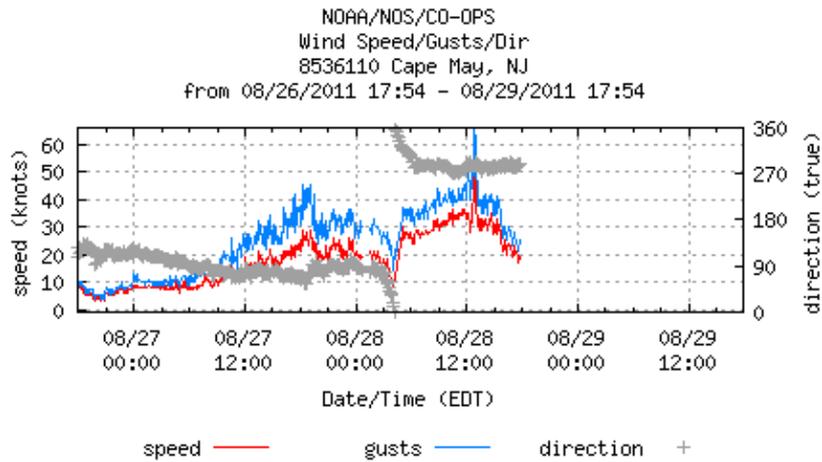


Last Observed Sample: 08/28/2011 17:42 (EDT)

Relative to MLLW: **Observed: 2.36 ft.** **Predicted: 3.09 ft.** **Residual: -0.73 ft.**

Historical Maximum Water Level: Sep 27 1985, 3.36 ft. above MHHW

Cape May, NJ - Return to List



Last Observed Sample: 08/28/2011 17:42 (EDT)

**Wind Speed: 19 knots** **Gusts: 25 knots** **Direction: 290° T**

Tropical Storm IRENE QuickLook, POSTED 18:00 EDT 08/28/2011

Center for Operational Oceanographic Products & Services (CO-OPS) | National Ocean Service (NOS)  
National Oceanic and Atmospheric Administration | U.S. Department of Commerce