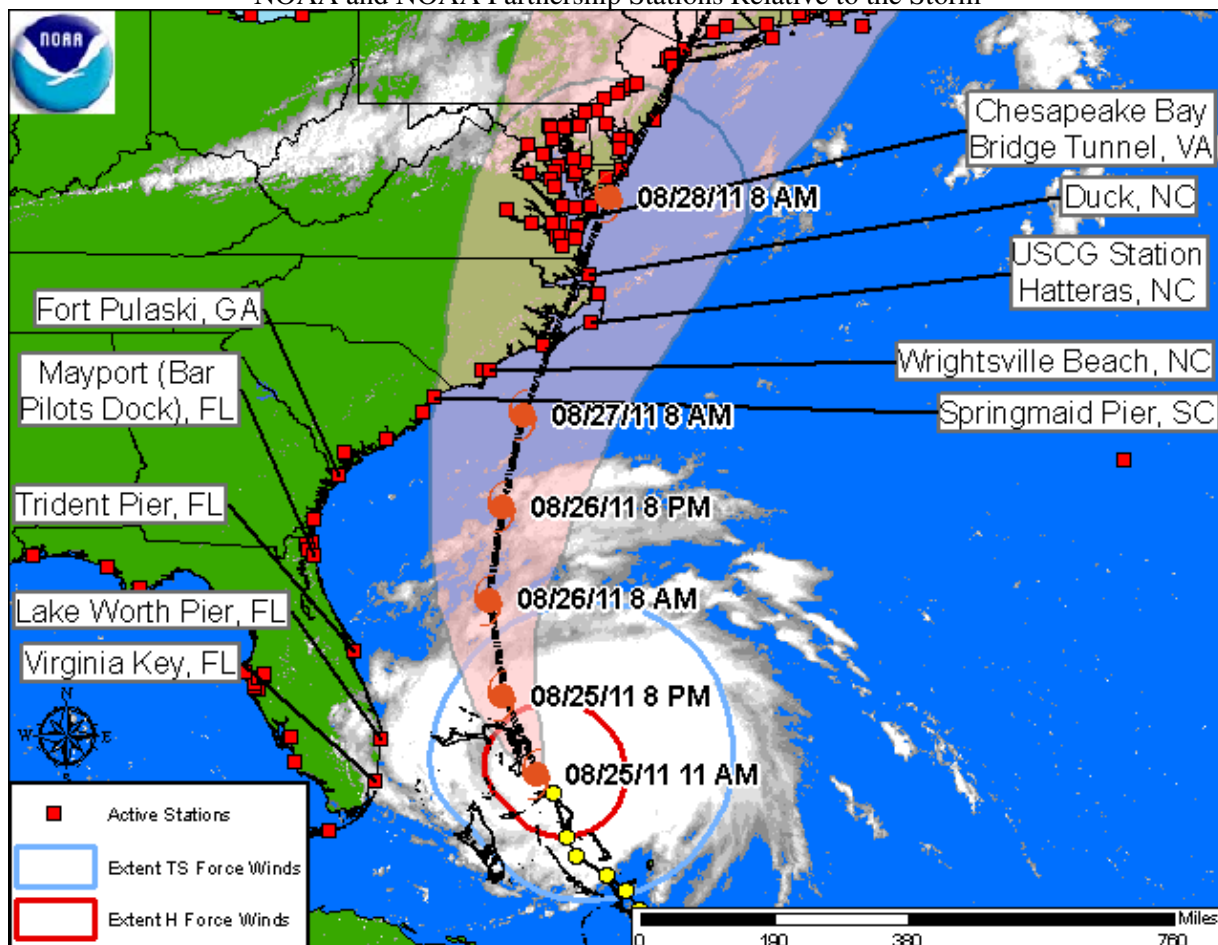




Hurricane IRENE QuickLook
Posted: 12:00 EDT 08/25/2011

NOAA and NOAA Partnership Stations Relative to the Storm



Storm Analysis

As of 08/25/2011 12:00 EDT, water levels along the eastern the U.S. are at or near predicted levels. Winds range from 2 to 15 knots with gusts as high as 27 knots. Barometric pressure is steady along the coast.

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

Virginia Key, FL Next predicted high tides are 2.23 ft (0.68 m) at 08/25/2010 18:56 CDT and 2.24 ft (0.68 m) at 08/26/2010 07:09 CDT.

Lake Worth Pier, FL Next predicted high tides are 2.92 ft (0.89 m) at 08/25/2010 17:48 CDT and 2.91 ft (0.89 m) at 08/26/2010 05:58 CDT.

Hurricane IRENE QuickLook, POSTED 12:00 EDT 08/25/2011

Trident Pier, FL Next predicted high tides are 4.09 ft (1.25 m) at 08/25/2010 17:30 CDT and 3.37 ft (1.03 m) at 08/26/2010 05:41 CDT.

Mayport, FL Next predicted high tides are 5.20 ft (1.58 m) at 08/25/2010 18:17 CDT and 4.57 ft (1.39 m) at 08/26/2010 06:38 CDT.

Fort Pulaski, GA Next predicted high tides are 7.69 ft (2.34 m) at 08/25/2010 17:41 CDT and 6.74 ft (2.05 m) at 08/26/2010 06:06 CDT.

Springmaid Pier, SC Next predicted high tides are 5.70 ft (1.74 m) at 08/25/2010 16:57 CDT and 4.91 ft (1.50 m) at 08/26/2010 05:27 CDT.

Wrightsville Beach, NC Next predicted high tides are 4.45 ft (1.36 m) at 08/25/2010 17:06 CDT and 3.75 ft (1.14 m) at 08/26/2010 05:30 CDT.

USCG Station Hatteras, NC Next predicted high tides are 0.48 ft (0.15 m) at 08/25/2010 18:41 CDT and 0.58 ft (0.18 m) at 08/26/2010 07:03 CDT.

Duck, NC Next predicted high tides are 3.79 ft (1.16 m) at 08/25/2010 17:02 CDT and 3.16 ft (0.96 m) at 08/26/2010 05:30 CDT.

Chesapeake Bay Bridge Tunnel, VA Next predicted high tides are 2.97 ft (0.91 m) at 08/25/2010 17:54 CDT and 2.57 ft (0.78 m) at 08/26/2010 06:19 CDT.

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: MPM

SELECT NATIONAL HURRICANE CENTER (NHC) ADVISORY INFORMATION:

HURRICANE IRENE ADVISORY NUMBER 21

1100 AM EDT THU AUG 25 2011

...DANGEROUS HURRICANE IRENE TURNS NORTH-NORTHWESTWARD

LOCATED NEAR LATITUDE 25.9 NORTH...LONGITUDE 76.8 WEST ABOUT 75 MI NNE OF
NASSAU ABOUT 645 MI S OF CAPE HATTERAS NORTH CAROLINA

WATCHES AND WARNINGS

SUMMARY OF WATCHES AND WARNINGS IN EFFECT...

A HURRICANE WATCH IS IN EFFECT FOR...

* NORTH OF SURF CITY NORTH CAROLINA TO THE NORTH CAROLINA-VIRGINIA BORDER

INCLUDING THE PAMLICO...ALBEMARLE...AND CURRITUCK SOUNDS

A TROPICAL STORM WATCH IS IN EFFECT FOR...

* NORTH OF EDISTO BEACH SOUTH CAROLINA TO SURF CITY NORTH CAROLINA

A HURRICANE WATCH MEANS THAT HURRICANE CONDITIONS ARE POSSIBLE WITHIN THE WATCH AREA. A WATCH IS TYPICALLY ISSUED 48 HOURS BEFORE THE ANTICIPATED FIRST OCCURRENCE OF TROPICAL-STORM-FORCE WINDS...CONDITIONS THAT MAKE OUTSIDE PREPARATIONS DIFFICULT OR DANGEROUS.

A TROPICAL STORM WATCH MEANS THAT TROPICAL STORM CONDITIONS ARE POSSIBLE WITHIN THE WATCH AREA...GENERALLY WITHIN 48 HOURS.

WARNINGS WILL LIKELY BE REQUIRED FOR PORTIONS OF THE WATCH AREA LATER TODAY. THE HURRICANE WATCH WILL ALSO LIKELY NEED TO BE EXTENDED NORTHWARD ALONG THE MID-ATLANTIC COAST LATER TODAY. INTERESTS ELSEWHERE IN THE MID-ATLANTIC STATES AND NEW ENGLAND SHOULD MONITOR THE PROGRESS OF IRENE.

DISCUSSION AND 48-HOUR OUTLOOK

AT 1100 AM EDT THE CENTER OF HURRICANE IRENE WAS LOCATED NEAR LATITUDE 25.9 NORTH...LONGITUDE 76.8 WEST ABOUT 75 MI NNE OF NASSAU ABOUT 645 MI S OF CAPE HATTERAS NORTH CAROLINA. IRENE IS MOVING TOWARD THE NORTH-NORTHWEST NEAR 13 MPH. THIS MOTION IS EXPECTED TO CONTINUE THROUGH TONIGHT WITH A TURN TOWARD THE NORTH BY EARLY FRIDAY. ON THE FORECAST TRACK...THE CORE OF THE HURRICANE WILL CONTINUE TO MOVE OVER THE NORTHWESTERN BAHAMAS TODAY...AND PASS WELL OFFSHORE OF THE EAST COAST OF CENTRAL AND NORTH FLORIDA TONIGHT AND EARLY FRIDAY. THE HURRICANE IS FORECAST TO APPROACH THE COAST OF NORTH CAROLINA ON SATURDAY.

MAXIMUM SUSTAINED WINDS ARE NEAR 115 MPH WITH HIGHER GUSTS. IRENE IS A CATEGORY THREE HURRICANE ON THE SAFFIR-SIMPSON HURRICANE WIND SCALE. SOME STRENGTHENING IS POSSIBLE TODAY AND TONIGHT.

HURRICANE FORCE WINDS EXTEND OUTWARD UP TO 70 MILES FROM THE CENTER...AND TROPICAL STORM FORCE WINDS EXTEND OUTWARD UP TO 290 MILES.

THE LATEST MINIMUM CENTRAL PRESSURE REPORTED BY AN AIR FORCE RESERVE HURRICANE HUNTER AIRCRAFT WAS 951 MB...28.08 INCHES.

HAZARDS AFFECTING LAND

WIND...HURRICANE FORCE WINDS ARE CURRENTLY SPREADING OVER THE NORTHWESTERN BAHAMAS. HURRICANE OR TROPICAL STORM FORCE WINDS ARE STILL OCCURRING OVER PORTIONS OF THE CENTRAL BAHAMAS...BUT SHOULD BEGIN TO DIMINISH LATER TODAY. TROPICAL STORM FORCE WINDS ARE POSSIBLE WITHIN THE WATCH AREA ALONG THE COAST OF NORTH AND SOUTH CAROLINA BY LATE FRIDAY.

STORM SURGE...IN AREAS OF ONSHORE WINDS NEAR THE CENTER OF IRENE... AN EXTREMELY DANGEROUS STORM SURGE WILL RAISE WATER LEVELS BY AS MUCH AS 7 TO 11 FEET ABOVE NORMAL TIDE LEVELS OVER THE CENTRAL AND NORTHWEST BAHAMAS. WATER LEVELS WILL GRADUALLY SUBSIDE OVER THE SOUTHEASTERN BAHAMAS THROUGH TONIGHT. NEAR THE COAST...THE SURGE WILL BE ACCOMPANIED BY LARGE AND DANGEROUS WAVES.

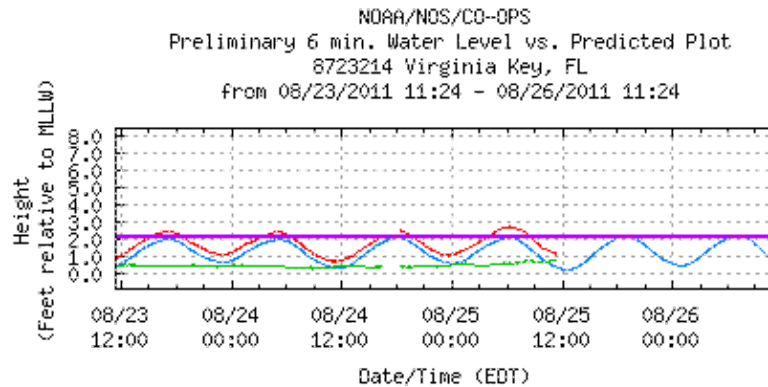
SURF...SWELLS GENERATED BY IRENE ARE AFFECTING PORTIONS OF THE COAST OF THE SOUTHEASTERN UNITED STATES. THESE SWELLS WILL CAUSE LIFE-THREATENING SURF AND RIP CURRENT CONDITIONS. PLEASE CONSULT PRODUCTS FROM YOUR LOCAL NATIONAL WEATHER SERVICE FORECAST OFFICE.

FORECASTER BROWN

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: [Virginia Key - Water Level](#), [Virginia Key - Winds](#), [Virginia Key - Barometric](#), [Virginia Key - Air/Water Temp](#), [Lake Worth Pier - Water Level](#), [Lake Worth Pier - Winds](#), [Lake Worth Pier - Barometric](#), [Lake Worth Pier - Air/Water Temp](#), [Trident Pier - Water Level](#), [Trident Pier - Winds](#), [Trident Pier - Air/Water Temp](#), [Mayport \(Bar Pilots Dock\) - Water Level](#), [Mayport \(Bar Pilots Dock\) - Winds](#), [Mayport \(Bar Pilots Dock\) - Barometric](#), [Mayport \(Bar Pilots Dock\) - Air/Water Temp](#), [Fort Pulaski - Water Level](#), [Fort Pulaski - Winds](#), [Fort Pulaski - Barometric](#), [Fort Pulaski - Air/Water Temp](#), [Springmaid Pier - Water Level](#), [Springmaid Pier - Winds](#), [Springmaid Pier - Barometric](#), [Springmaid Pier - Air/Water Temp](#), [Wrightsville Beach - Water Level](#), [Wrightsville Beach - Winds](#), [Wrightsville Beach - Barometric](#), [Wrightsville Beach - Air/Water Temp](#), [USCG Station Hatteras - Water Level](#), [USCG Station Hatteras - Winds](#), [USCG Station Hatteras - Barometric](#), [USCG Station Hatteras - Air/Water Temp](#), [Duck - Water Level](#), [Duck - Winds](#), [Duck - Barometric](#), [Duck - Air/Water Temp](#), [Chesapeake Bay Bridge Tunnel - Water Level](#), [Chesapeake Bay Bridge Tunnel - Winds](#), [Chesapeake Bay Bridge Tunnel - Barometric](#), [Chesapeake Bay Bridge Tunnel - Air/Water Temp](#),

Virginia Key, FL - Return to List



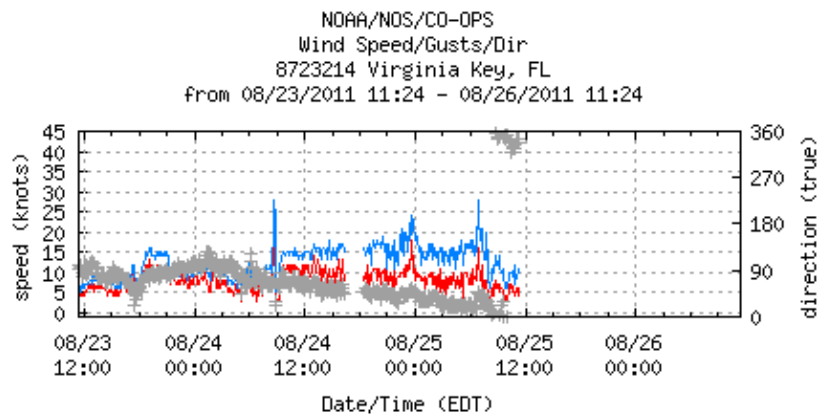
Predicted WL — (Obs-Pred) —
Observed WL — MHHW —

Last Observed Sample: 08/25/2011 11:18 (EDT)

Relative to MLLW: **Observed: 1.15 ft.** **Predicted: 0.39 ft.** **Residual: 0.76 ft.**

Historical Maximum Water Level: Oct 24 2005, 2.58 ft. above MHHW

Virginia Key, FL - Return to List

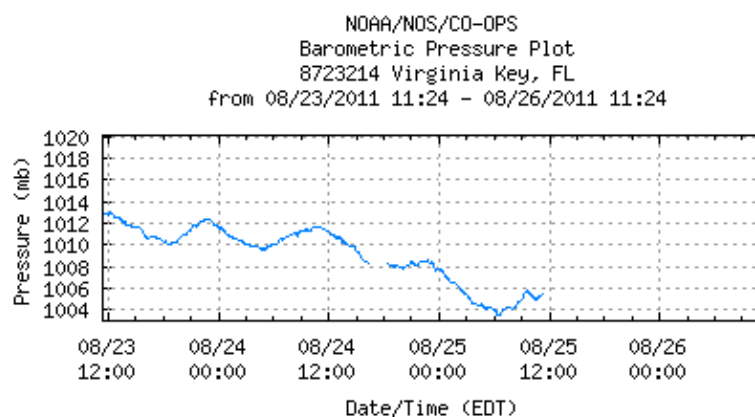


speed — gusts — direction +

Last Observed Sample: 08/25/2011 11:18 (EDT)

Wind Speed: 4 knots **Gusts: 11 knots** **Direction: 337° T**

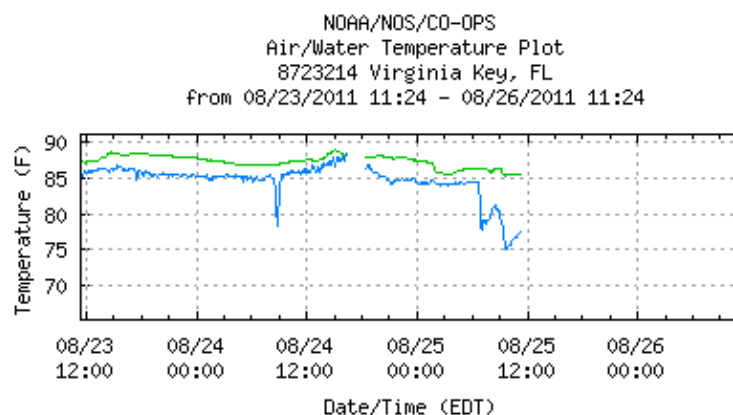
Virginia Key, FL - Return to List



Last Observed Sample: 08/25/2011 11:18 (EDT)

Barometric Pressure: 1005.4 mb

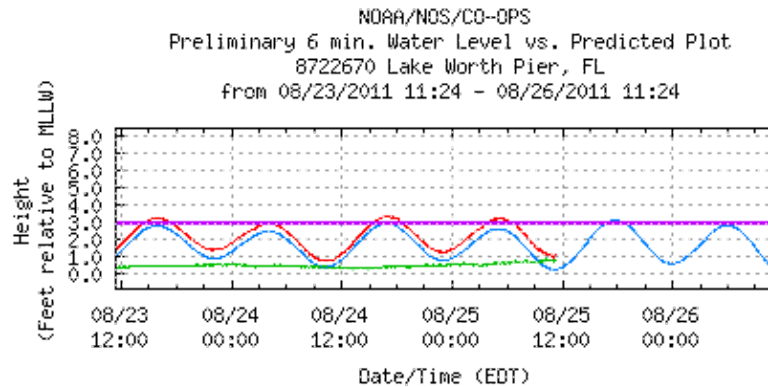
Virginia Key, FL - Return to List



Last Observed Sample: 08/25/2011 11:18 (EDT)

Water Temperature: 85.5° F Air Temperature: 77.5° F

Lake Worth Pier, FL - Return to List



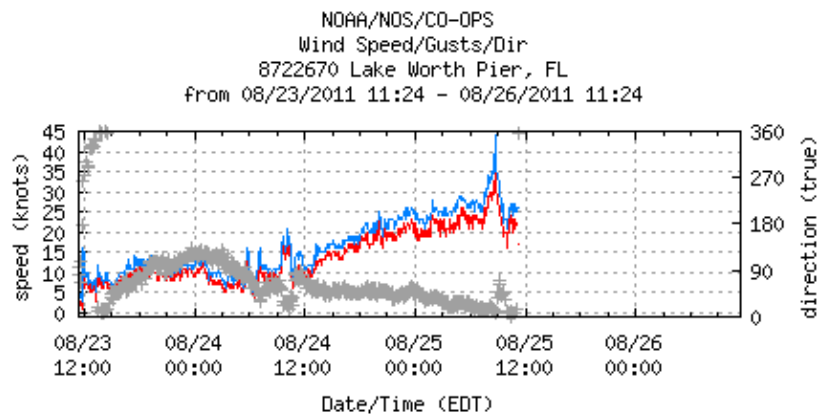
Predicted WL — (Obs-Pred) —
Observed WL — MHHW —

Last Observed Sample: 08/25/2011 11:12 (EDT)

Relative to MLLW: **Observed: 1.07 ft.** **Predicted: 0.24 ft.** **Residual: 0.83 ft.**

Historical Maximum Water Level: Nov 23 1984, 1.88 ft. above MHHW

Lake Worth Pier, FL - Return to List

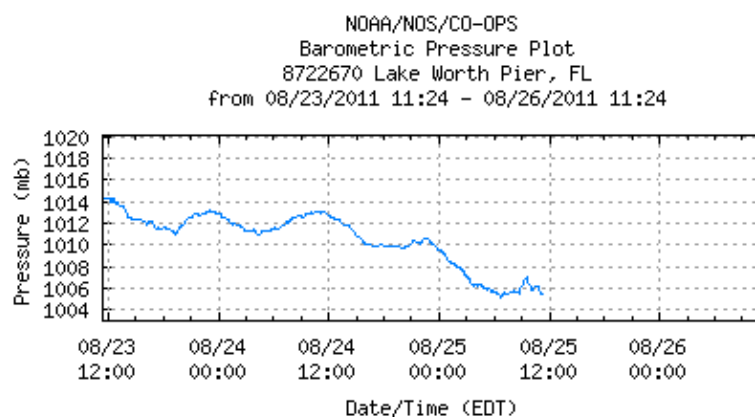


speed — gusts — direction +

Last Observed Sample: 08/25/2011 11:12 (EDT)

Wind Speed: 17 knots **Gusts: 26 knots** **Direction: 356° T**

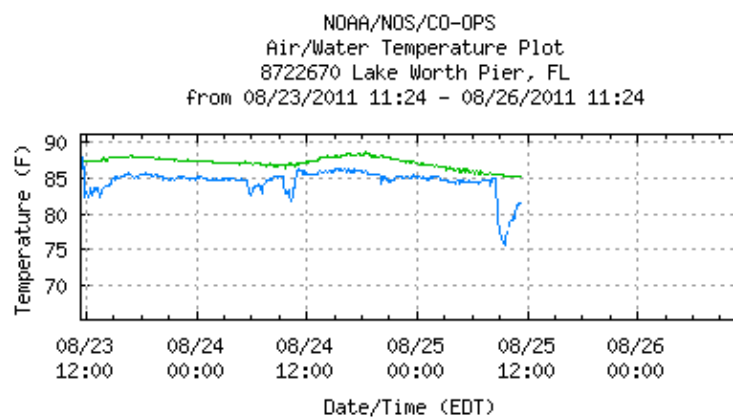
[Lake Worth Pier, FL - Return to List](#)



Last Observed Sample: 08/25/2011 11:12 (EDT)

Barometric Pressure: 1005.5 mb

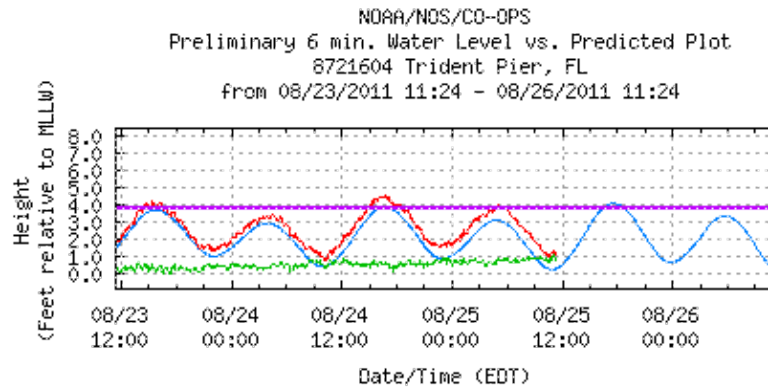
[Lake Worth Pier, FL - Return to List](#)



Last Observed Sample: 08/25/2011 11:12 (EDT)

Water Temperature: 85.3° F Air Temperature: 81.5° F

Trident Pier, FL - Return to List



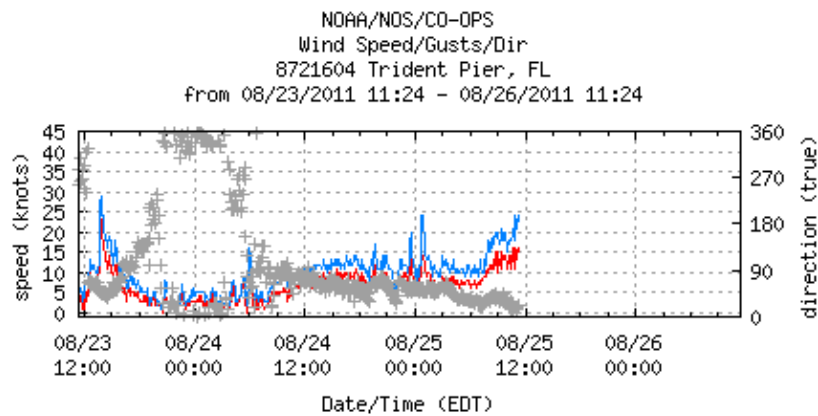
Predicted WL — (Obs-Pred) —
Observed WL — MHHW —

Last Observed Sample: 08/25/2011 11:12 (EDT)

Relative to MLLW: **Observed: 1.06 ft.** **Predicted: 0.27 ft.** **Residual: 0.79 ft.**

Historical Maximum Water Level: Sep 26 2004, 4.01 ft. above MHHW

Trident Pier, FL - Return to List

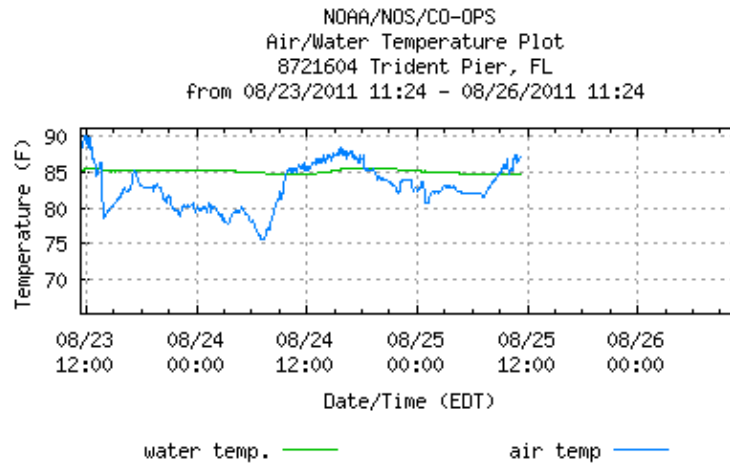


speed — gusts — direction +

Last Observed Sample: 08/25/2011 11:12 (EDT)

Wind Speed: 16 knots **Gusts: 24 knots** **Direction: 22° T**

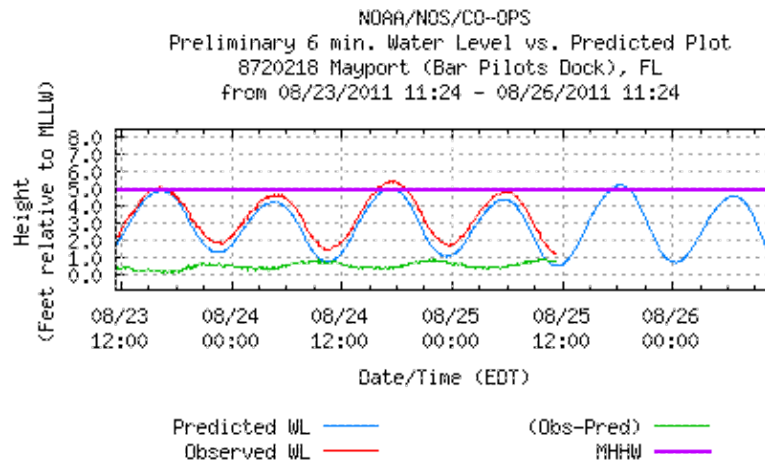
Trident Pier, FL - Return to List



Last Observed Sample: 08/25/2011 11:12 (EDT)

Water Temperature: 84.6° F Air Temperature: 87.1° F

Mayport (Bar Pilots Dock), FL - Return to List

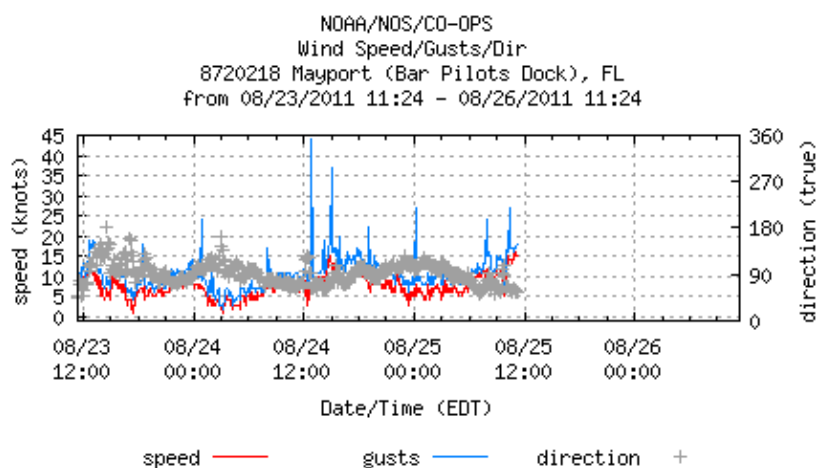


Last Observed Sample: 08/25/2011 11:12 (EDT)

Relative to MLLW: Observed: 1.27 ft. Predicted: 0.53 ft. Residual: 0.74 ft.

Historical Maximum Water Level: Sep 27 2004, 2.47 ft. above MHHW

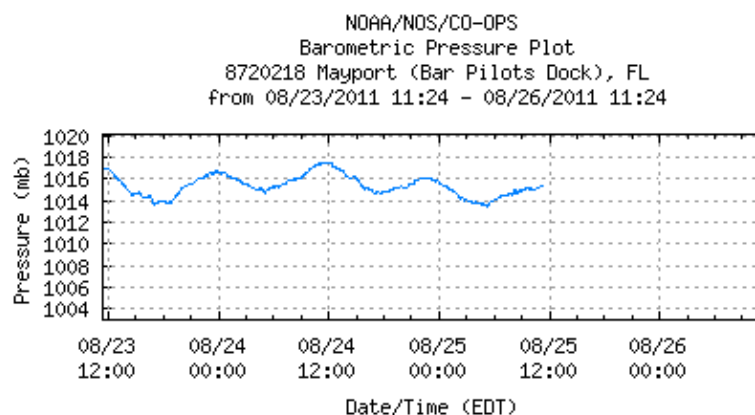
[Mayport \(Bar Pilots Dock\), FL - Return to List](#)



Last Observed Sample: 08/25/2011 11:12 (EDT)

Wind Speed: 15 knots Gusts: 18 knots Direction: 55° T

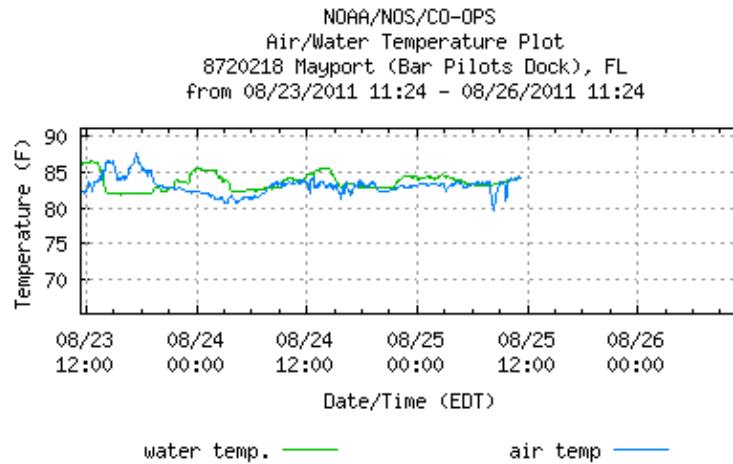
[Mayport \(Bar Pilots Dock\), FL - Return to List](#)



Last Observed Sample: 08/25/2011 11:12 (EDT)

Barometric Pressure: 1015.3 mb

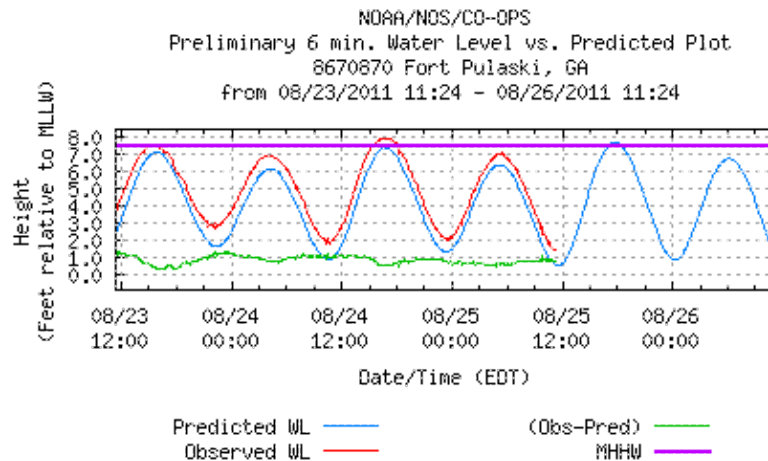
Mayport (Bar Pilots Dock), FL - Return to List



Last Observed Sample: 08/25/2011 11:12 (EDT)

Water Temperature: 84.2° F Air Temperature: 84.2° F

Fort Pulaski, GA - Return to List

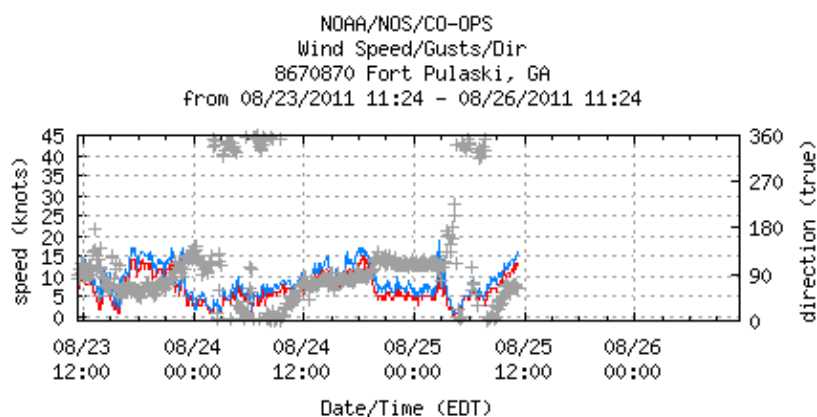


Last Observed Sample: 08/25/2011 11:12 (EDT)

Relative to MLLW: Observed: 1.39 ft. Predicted: 0.60 ft. Residual: 0.79 ft.

Historical Maximum Water Level: Oct 15 1947, 3.4 ft. above MHHW

Fort Pulaski, GA - Return to List

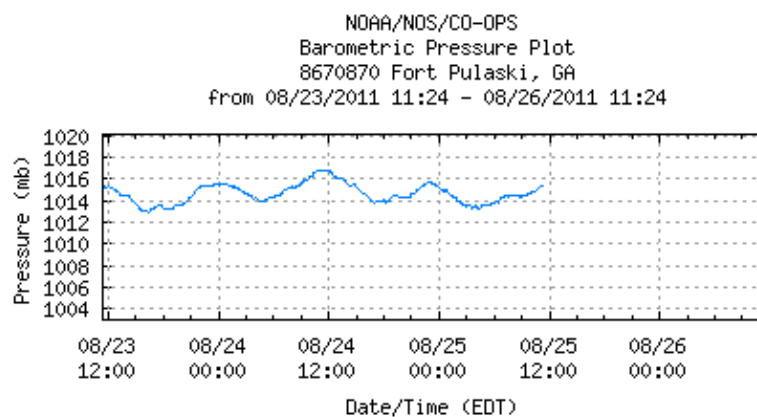


speed — gusts — direction +

Last Observed Sample: 08/25/2011 11:12 (EDT)

Wind Speed: 13 knots Gusts: 16 knots Direction: 64° T

Fort Pulaski, GA - Return to List

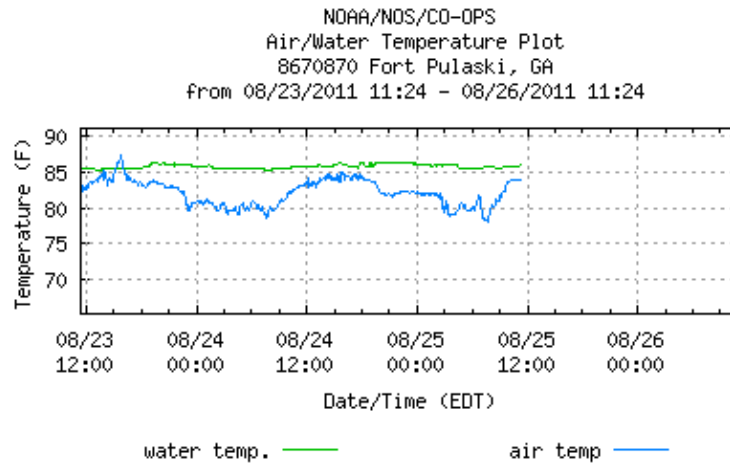


barometric pressure —

Last Observed Sample: 08/25/2011 11:12 (EDT)

Barometric Pressure: 1015.3 mb

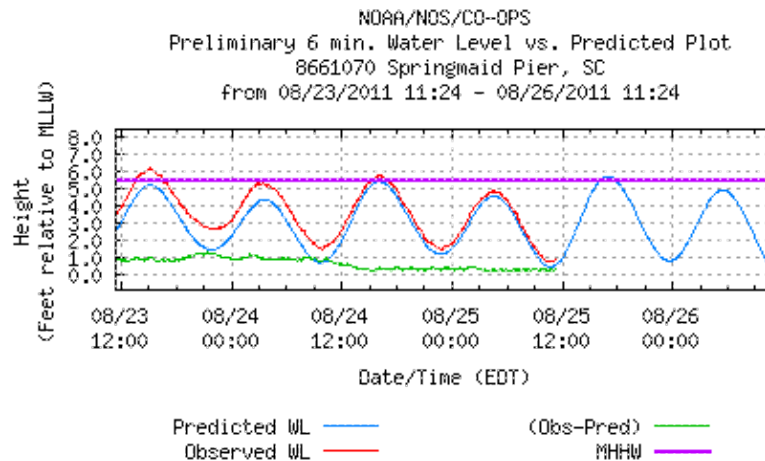
Fort Pulaski, GA - Return to List



Last Observed Sample: 08/25/2011 11:12 (EDT)

Water Temperature: 86.0° F Air Temperature: 83.8° F

Springmaid Pier, SC - Return to List

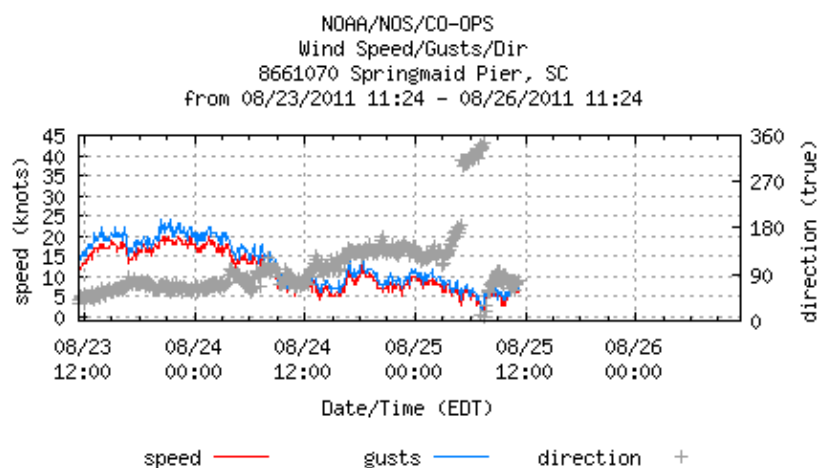


Last Observed Sample: 08/25/2011 11:12 (EDT)

Relative to MLLW: Observed: 0.86 ft. Predicted: 0.54 ft. Residual: 0.32 ft.

Historical Maximum Water Level: Jan 1 1987, 3.65 ft. above MHHW

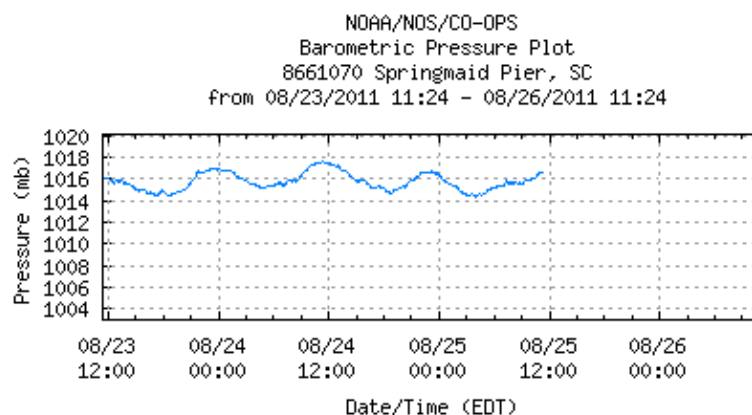
[Springmaid Pier, SC - Return to List](#)



Last Observed Sample: 08/25/2011 11:12 (EDT)

Wind Speed: 6 knots Gusts: 7 knots Direction: 77° T

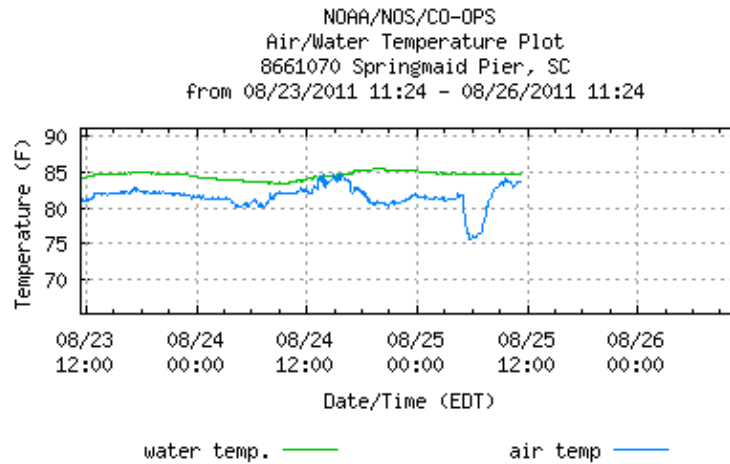
[Springmaid Pier, SC - Return to List](#)



Last Observed Sample: 08/25/2011 11:12 (EDT)

Barometric Pressure: 1016.5 mb

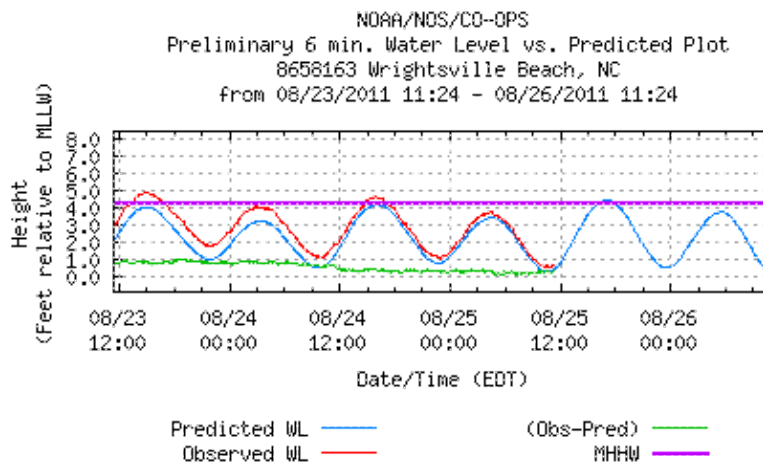
Springmaid Pier, SC - Return to List



Last Observed Sample: 08/25/2011 11:12 (EDT)

Water Temperature: 84.7° F Air Temperature: 83.7° F

Wrightsville Beach, NC - Return to List

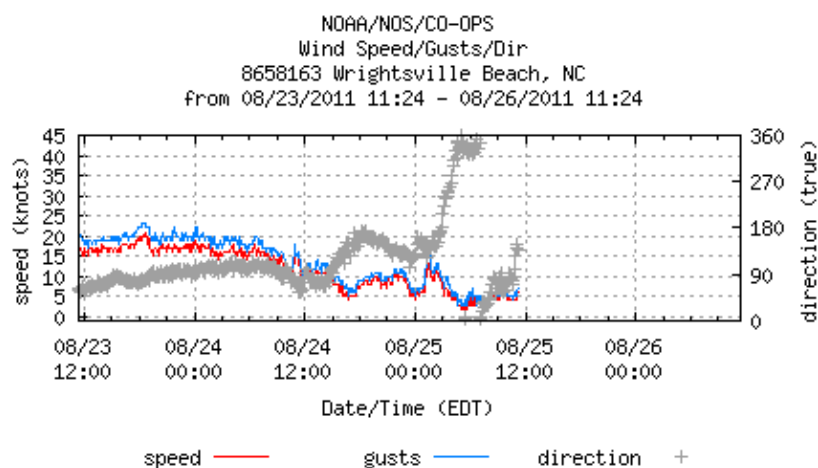


Last Observed Sample: 08/25/2011 11:12 (EDT)

Relative to MLLW: Observed: 0.69 ft. Predicted: 0.40 ft. Residual: 0.29 ft.

Historical Maximum Water Level: Sep 25 2008, 2.81 ft. above MHHW

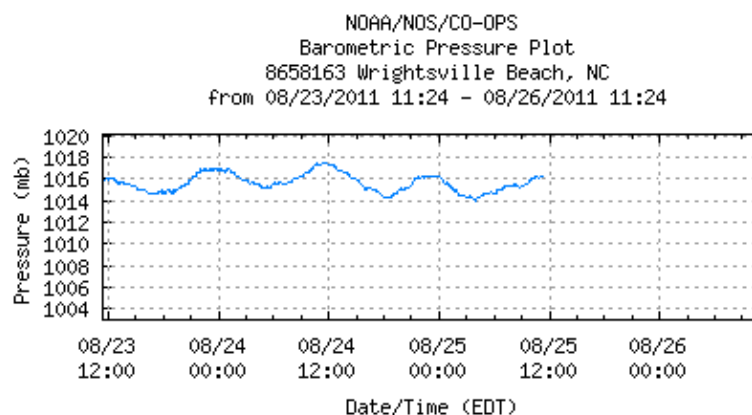
Wrightsville Beach, NC - Return to List



Last Observed Sample: 08/25/2011 11:12 (EDT)

Wind Speed: 6 knots Gusts: 7 knots Direction: 139° T

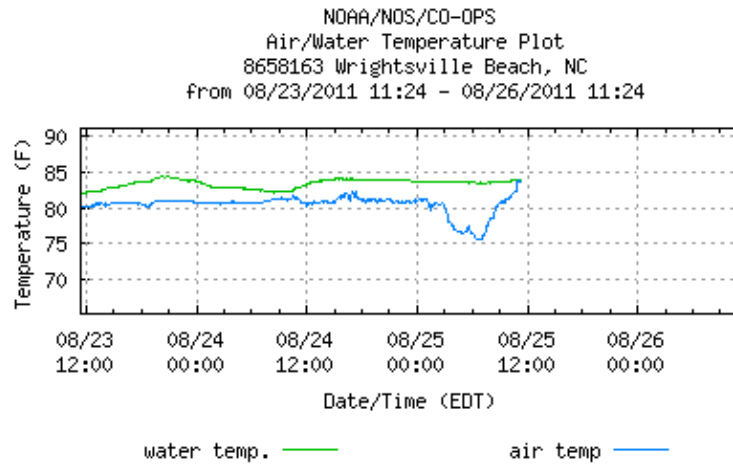
Wrightsville Beach, NC - Return to List



Last Observed Sample: 08/25/2011 11:12 (EDT)

Barometric Pressure: 1016.2 mb

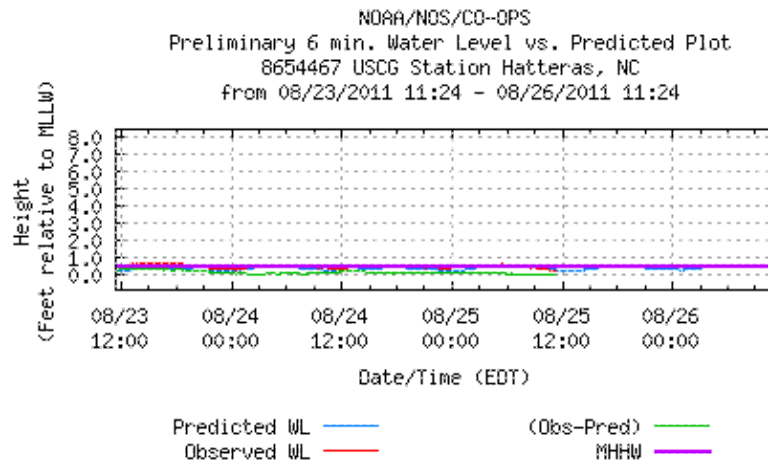
Wrightsville Beach, NC - Return to List



Last Observed Sample: 08/25/2011 11:12 (EDT)

Water Temperature: 84.0° F Air Temperature: 83.7° F

USCG Station Hatteras, NC - Return to List

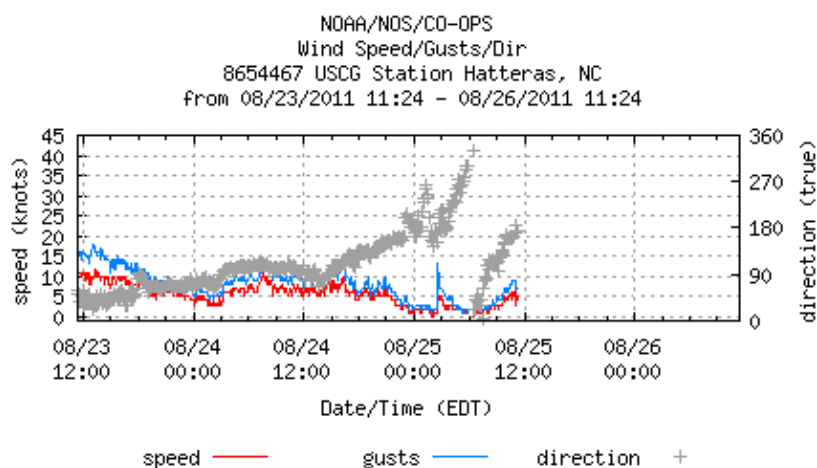


Last Observed Sample: 08/25/2011 11:12 (EDT)

Relative to MLLW: Observed: 0.23 ft. Predicted: 0.28 ft. Residual: -0.05 ft.

Historical Maximum Water Level: , 0 ft. above MHHW

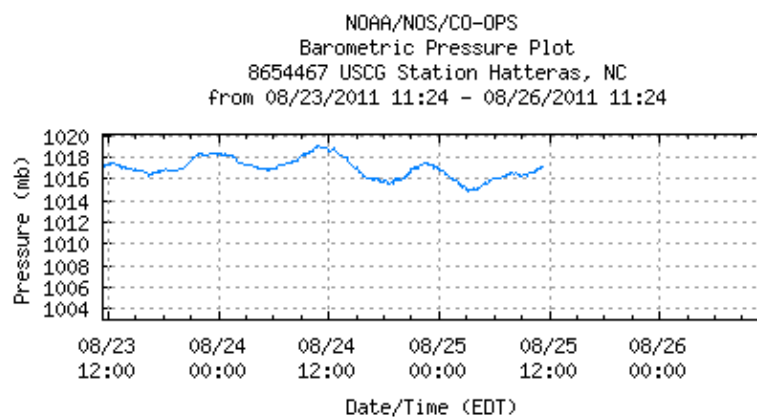
[USCG Station Hatteras, NC - Return to List](#)



Last Observed Sample: 08/25/2011 11:12 (EDT)

Wind Speed: 5 knots Gusts: 7 knots Direction: 176° T

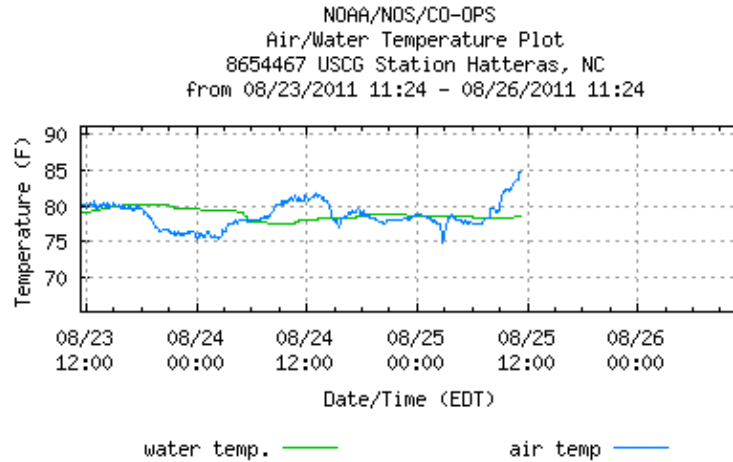
[USCG Station Hatteras, NC - Return to List](#)



Last Observed Sample: 08/25/2011 11:12 (EDT)

Barometric Pressure: 1017.1 mb

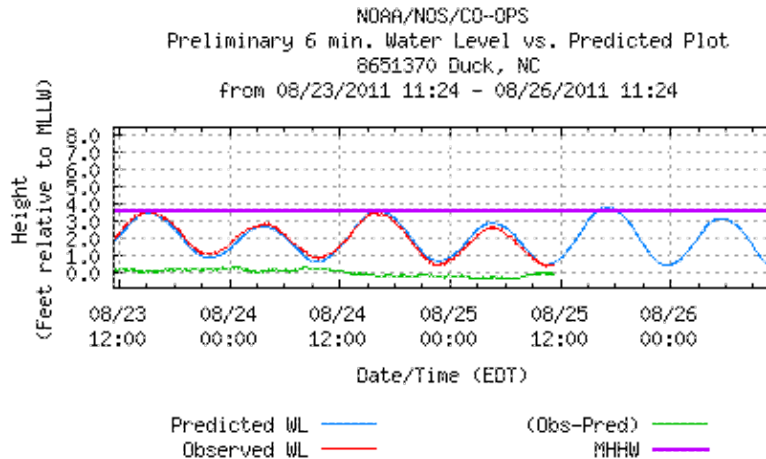
USCG Station Hatteras, NC - Return to List



Last Observed Sample: 08/25/2011 11:12 (EDT)

Water Temperature: 78.6° F Air Temperature: 84.7° F

Duck, NC - Return to List

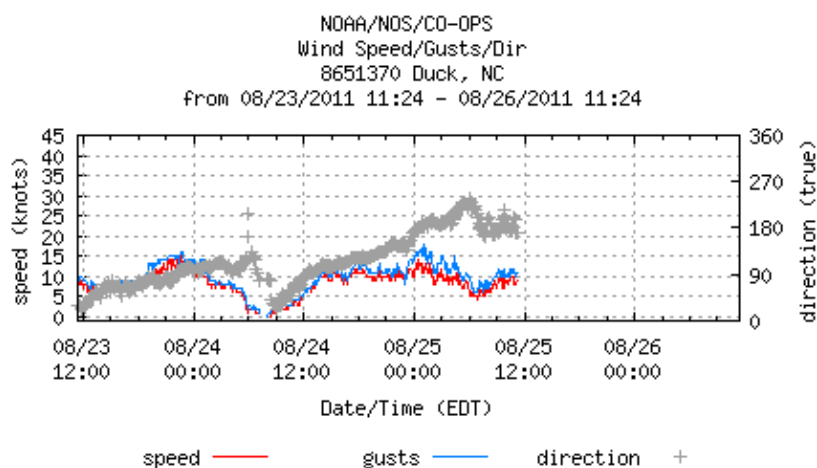


Last Observed Sample: 08/25/2011 11:12 (EDT)

Relative to MLLW: Observed: 0.46 ft. Predicted: 0.55 ft. Residual: -0.09 ft.

Historical Maximum Water Level: Aug 30 1999, 3.23 ft. above MHHW

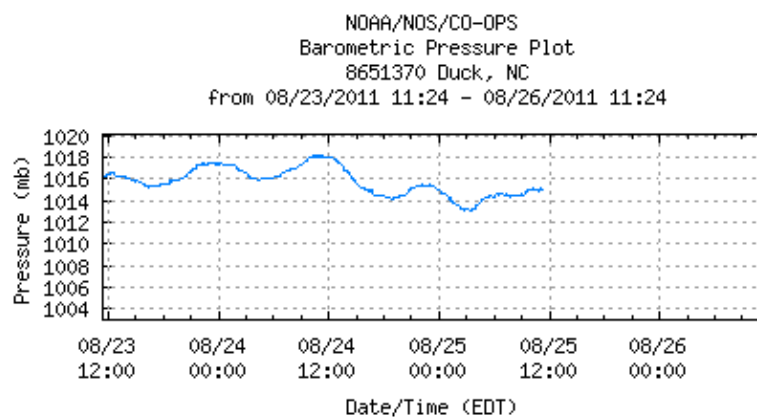
Duck, NC - Return to List



Last Observed Sample: 08/25/2011 11:12 (EDT)

Wind Speed: 9 knots Gusts: 11 knots Direction: 170° T

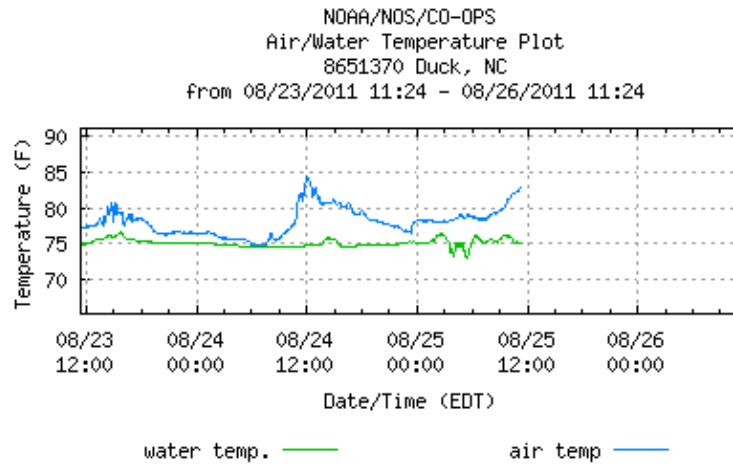
Duck, NC - Return to List



Last Observed Sample: 08/25/2011 11:12 (EDT)

Barometric Pressure: 1014.9 mb

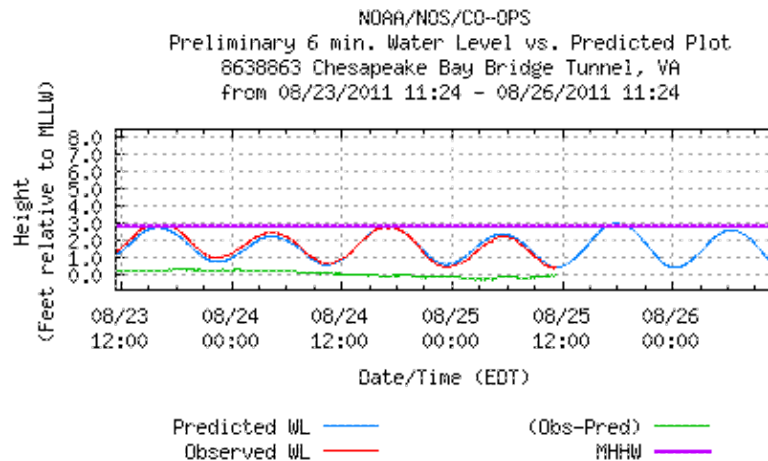
Duck, NC - Return to List



Last Observed Sample: 08/25/2011 11:12 (EDT)

Water Temperature: 75.2° F Air Temperature: 82.9° F

Chesapeake Bay Bridge Tunnel, VA - Return to List

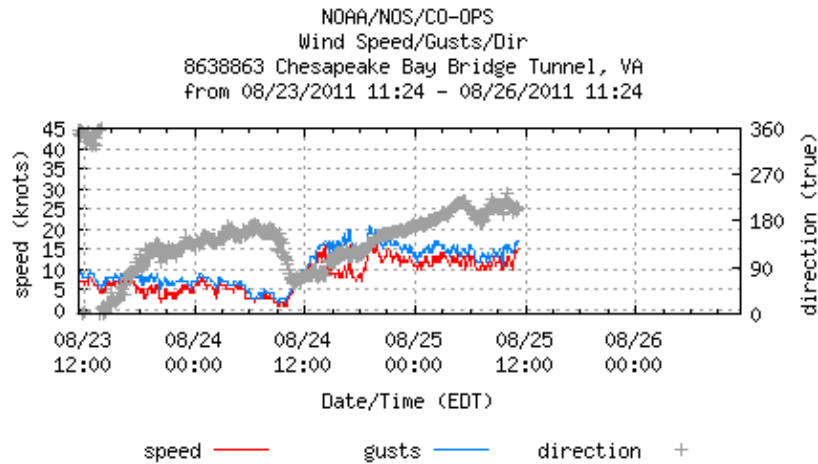


Last Observed Sample: 08/25/2011 11:12 (EDT)

Relative to MLLW: Observed: 0.39 ft. Predicted: 0.44 ft. Residual: -0.05 ft.

Historical Maximum Water Level: Feb 5 1998, 3.68 ft. above MHHW

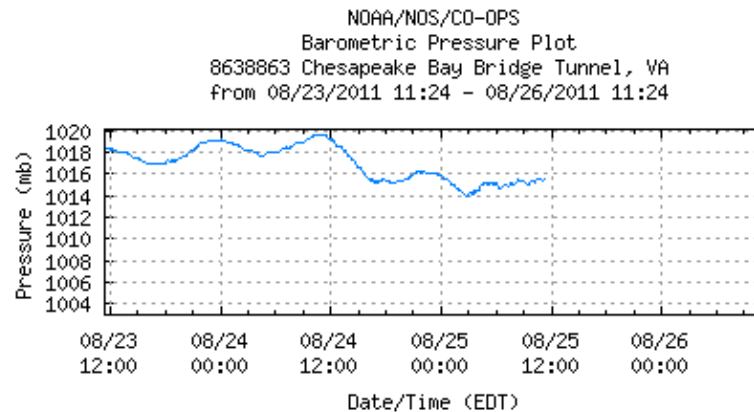
Chesapeake Bay Bridge Tunnel, VA - Return to List



Last Observed Sample: 08/25/2011 11:12 (EDT)

Wind Speed: 15 knots Gusts: 17 knots Direction: 203° T

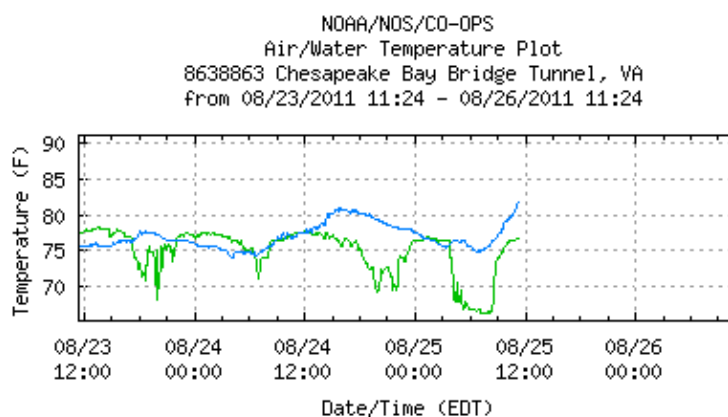
Chesapeake Bay Bridge Tunnel, VA - Return to List



Last Observed Sample: 08/25/2011 11:12 (EDT)

Barometric Pressure: 1015.5 mb

[Chesapeake Bay Bridge Tunnel, VA - Return to List](#)



water temp. — air temp —

Last Observed Sample: 08/25/2011 11:12 (EDT)

Water Temperature: 76.6° F Air Temperature: 81.7° F

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