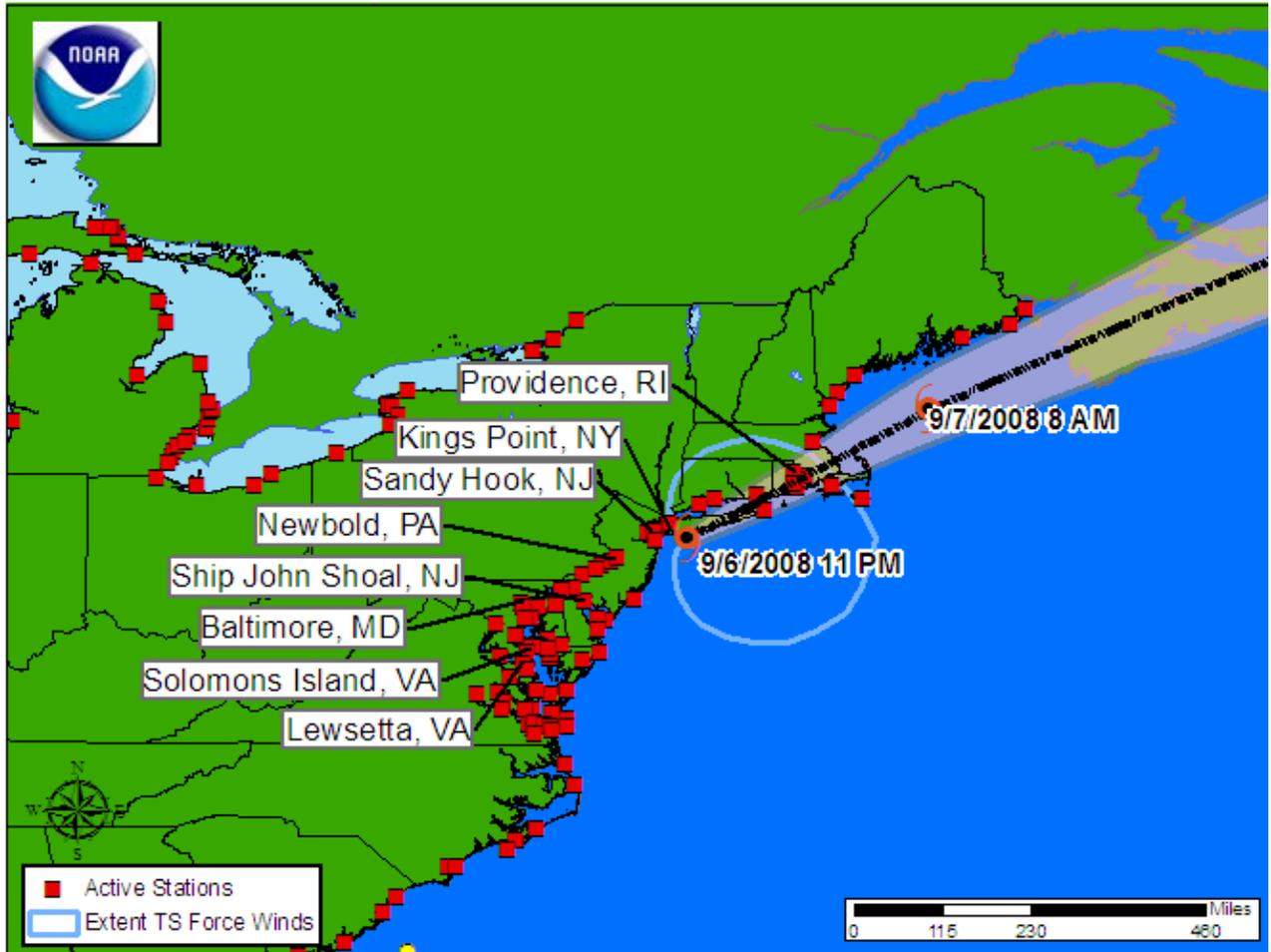




Tropical Storm HANNA QuickLook  
Posted: 01:00 EDT 09/07/2008

**NOAA and NOAA Partnership Stations Relative to the Storm**



**Storm Analysis**

As of 09/07/2008 01:00 EDT, water levels from coastal Virginia to northern Chesapeake Bay are slightly elevated or returning to normal. Water levels from Pennsylvania to Rhode Island are elevated by about 1 to 2 feet.

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

Lewisetta, VA: Next predicted high tide is 1.4 ft (0.12 m) at 09/06/2008 07:28 EDT.

Solomons Island, VA: Next predicted high tide is 1.4 ft (0.12 m) at 09/07/2008 08:06 EDT.

Baltimore, MD: Next predicted high tide is 1.8 ft (0.5 m) at 09/07/2008 00:48 EDT.

Lewes, DE: Next predicted high tide is 3.3 ft (1.0 m) at 09/07/2008 02:18 EDT.

Ship John Shoal, NJ: Next predicted high tide is 5.1 ft (1.5 m) at 09/07/2008 03:39 EDT.

Burlington, NJ: Next predicted high tide is 6.8 ft (2.1 m) at 09/07/2008 07:30 EDT.

Sandy Hook, NJ: Next predicted high tide is 3.9 ft (1.2 m) at 09/07/2008 01:48 EDT.

Bridgeport, CT: Next predicted high tide is 5.8 ft (1.8 m) at 09/07/2008 05:18 EDT.

Kings Point, NY: Next predicted high tide is 6.2 ft (1.9 m) at 09/07/2008 04:43 EDT.

Providence, RI: Next predicted high tide is 3.8 ft (1.2 m) at 09/07/2008 00:48 EDT.

For additional data, please see the [Center for Operational Oceanographic Products & Services](#) website. For more information or archived products and reports, please see the [Storm QuickLook](#) Homepage.

Analyst: LF

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**SELECT NATIONAL HURRICANE CENTER ADVISORY INFORMATION:**

**TROPICAL STORM HANNA ADVISORY NUMBER 41  
NWS TPC/NATIONAL HURRICANE CENTER MIAMI FL**

**...HANNA PRODUCING HEAVY RAINFALL ACROSS MOST OF NEW ENGLAND...**

**AT 11 PM EDT THE TROPICAL STORM WARNING IS DISCONTINUED FROM SANDY HOOK NEW JERSEY SOUTHWARD. A TROPICAL STORM WARNING IS NOW IN EFFECT FROM NORTH OF SANDY HOOK NORTHWARD TO MERRIMACK RIVER MASSACHUSETTS INCLUDING NEW YORK HARBOR, LONG ISLAND SOUND BLOCK ISLAND, MARTHA'S VINEYARD AND NANTUCKET.**

**AT 1100 PM EDT THE CENTER OF TROPICAL STORM HANNA WAS LOCATED ABOUT 90 MILES WEST-SOUTHWEST OF THE EASTERN TIP OF LONG ISLAND AND ABOUT 135 MILES SOUTHWEST OF PROVIDENCE RHODE ISLAND.**

**HANNA IS MOVING TOWARD THE NORTHEAST NEAR 30 MPH. THIS GENERAL MOTION IS EXPECTED TO CONTINUE WITH AN INCREASE IN FORWARD SPEED DURING THE NEXT COUPLE OF DAYS. ON THE FORECAST TRACK THE CENTER OF HANNA WILL MOVE NEAR OR OVER SOUTHERN NEW ENGLAND TONIGHT AND SUNDAY MORNING AND MOVE OVER THE CANADIAN MARITIMES BY SUNDAY AFTERNOON.**

**INFORMATION FROM SHIPS, BUOYS, AND NOAA DOPPLER WEATHER RADARS INDICATE MAXIMUM SUSTAINED WINDS REMAIN NEAR 55 MPH WITH HIGHER GUSTS. LITTLE CHANGE IN STRENGTH IS FORECAST DURING THE NEXT COUPLE OF DAYS. HOWEVER HANNA IS EXPECTED TO LOSE TROPICAL CHARACTERISTICS BY SUNDAY AFTERNOON.**

**TROPICAL STORM FORCE WINDS EXTEND OUTWARD UP TO 200 MILES MAINLY OVER WATER TO THE EAST AND SOUTHEAST OF THE CENTER. DURING THE PAST COUPLE OF HOURS. REPORTS FROM SEVERAL SHIPS AND BUOYS SOUTH OF LONG ISLAND INDICATE SUSTAINED WINDS OF 45 MPH TO 55 MPH WITH HIGHER GUSTS.**

**THE ESTIMATED MINIMUM CENTRAL PRESSURE IS 992 MB.**

**STORM SURGE FLOODING OF 1 TO 3 FEET ABOVE NORMAL TIDE LEVELS WITH LOCALLY HIGHER LEVELS IN BAYS AND ACCOMPANIED BY LARGE AND DANGEROUS BATTERING WAVES IS EXPECTED IN THE WARNING AREA.**

**HANNA IS EXPECTED TO PRODUCE RAINFALL ACCUMULATIONS OF 2 TO 4 INCHES ACROSS NEW ENGLAND WITH ISOLATED MAXIMUM AMOUNTS OF 6 INCHES POSSIBLE. THESE RAINFALL AMOUNTS COULD PRODUCE FLASH FLOODS ACROSS THE REGION.**

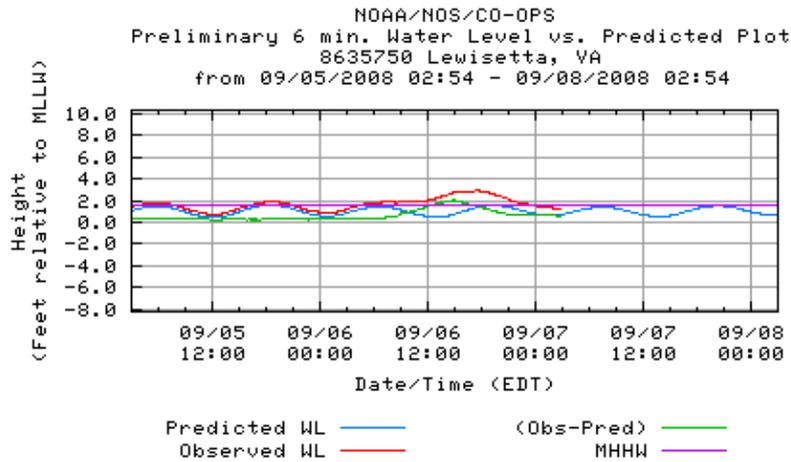
**ISOLATED TORNADOES ARE POSSIBLE TONIGHT OVER THE COASTAL AREAS OF SOUTHERN NEW ENGLAND.**

**FORECASTER STEWART**

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.

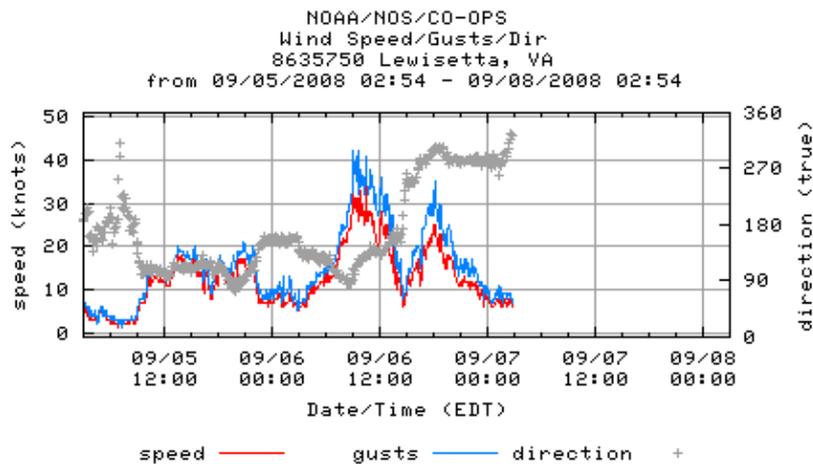
Jump to: [Lewisetta - Water Level](#), [Lewisetta - Winds](#), [Lewisetta - Barometric](#), [Lewisetta - Air/Water Temp](#), [Solomons Island - Water Level](#), [Solomons Island - Winds](#), [Solomons Island - Barometric](#), [Solomons Island - Air/Water Temp](#), [Baltimore - Water Level](#), [Baltimore - Winds](#), [Baltimore - Barometric](#), [Baltimore - Air/Water Temp](#), [Lewes - Water Level](#), [Lewes - Barometric](#), [Lewes - Winds](#), [Lewes - Air/Water Temp](#), [Ship John Shoal - Water Level](#), [Ship John Shoal - Winds](#), [Ship John Shoal - Barometric](#), [Newbold - Water Level](#), [Newbold - Winds](#), [Newbold - Air/Water Temp](#), [Burlington, Delaware River - Water Level](#), [Burlington, Delaware River - Winds](#), [Burlington, Delaware River - Barometric](#), [Burlington, Delaware River - Air/Water Temp](#), [Sandy Hook - Water Level](#), [Sandy Hook - Winds](#), [Sandy Hook - Barometric](#), [Sandy Hook - Air/Water Temp](#), [Kings Point - Water Level](#), [Kings Point - Winds](#), [Kings Point - Barometric](#), [Kings Point - Air/Water Temp](#), [Providence - Water Level](#), [Providence - Winds](#), [Providence - Barometric](#), [Providence - Air/Water Temp](#),

**Lewisetta, VA - Station Map** [Return to List](#)



Last Observed Sample: 09/07/2008 02:42 (EDT)  
 Relative to **MLLW**: **Observed: 1.20 ft. Predicted: 0.71 ft. Residual: 0.49 ft.**  
 Historical Maximum Water Level: 02/05/1998, 2.33 ft. above **MHHW**

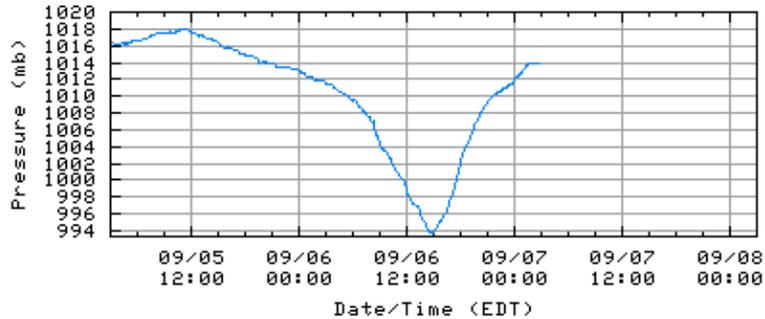
**Lewisetta, VA - Station Map** [Return to List](#)



Last Observed Sample: 09/07/2008 02:42 (EDT)  
**Wind Speed: 6 knots Gusts: 7 knots Direction: 323° T**

**Lewisetta, VA - Station Map** [Return to List](#)

NOAA/NOS/CO-OPS  
Barometric Pressure Plot  
8635750 Lewisetta, VA  
from 09/05/2008 02:54 - 09/08/2008 02:54



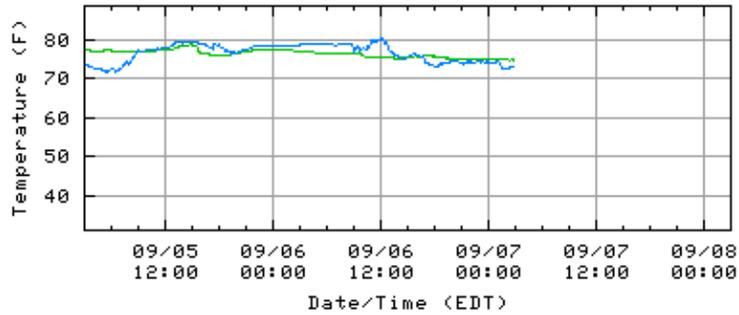
barometric pressure —

Last Observed Sample: 09/07/2008 02:42 (EDT)

Barometric Pressure: 1013.9 mb

**Lewisetta, VA - Station Map** [Return to List](#)

NOAA/NOS/CO-OPS  
Air/Water Temperature Plot  
8635750 Lewisetta, VA  
from 09/05/2008 02:54 - 09/08/2008 02:54

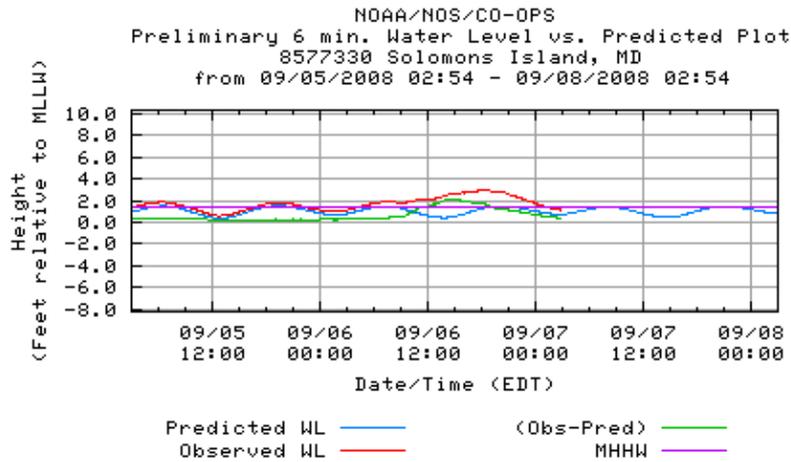


water temp. — air temp —

Last Observed Sample: 09/07/2008 02:42 (EDT)

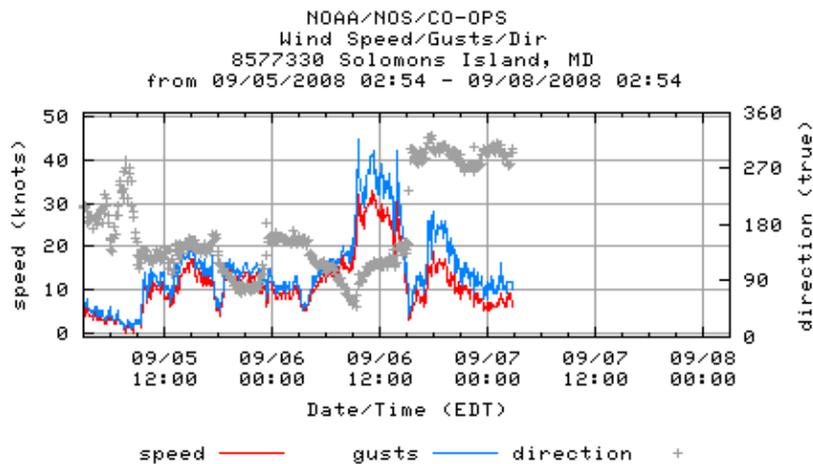
Water Temperature: 74.8° F Air Temperature: 73.1° F

**Solomons Island, MD - Station Map** [Return to List](#)



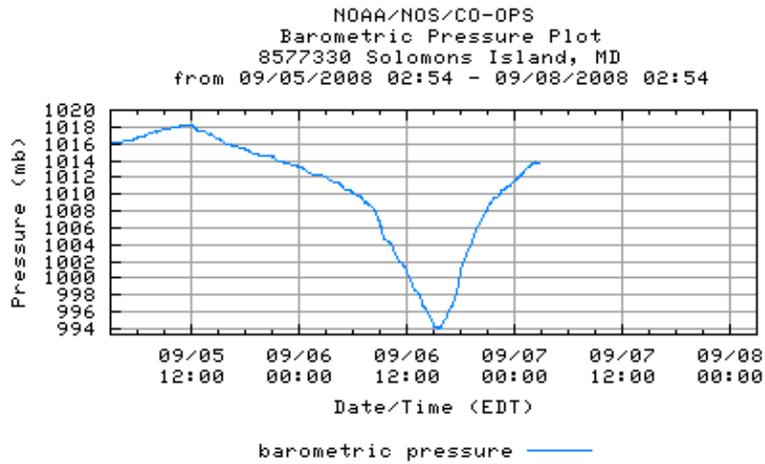
Last Observed Sample: 09/07/2008 02:42 (EDT)  
 Relative to **MLLW**: **Observed: 1.15 ft. Predicted: 0.76 ft. Residual: 0.39 ft.**  
 Historical Maximum Water Level: 08/13/1955, 2.8 ft. above **MHHW**

**Solomons Island, MD - Station Map** [Return to List](#)



Last Observed Sample: 09/07/2008 02:42 (EDT)  
**Wind Speed: 6 knots Gusts: 10 knots Direction: 296° T**

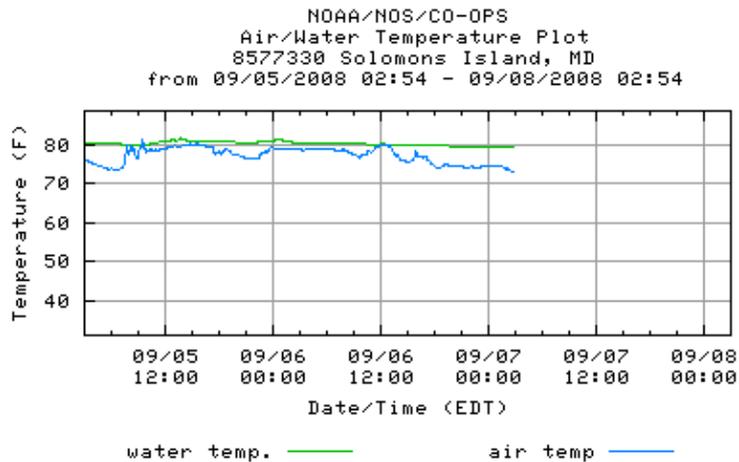
**Solomons Island, MD - Station Map** [Return to List](#)



Last Observed Sample: 09/07/2008 02:42 (EDT)

Barometric Pressure: 1013.7 mb

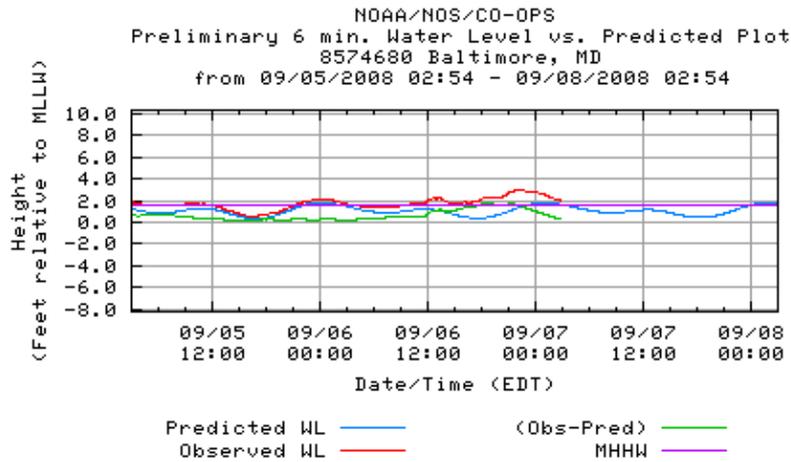
**Solomons Island, MD - Station Map** [Return to List](#)



Last Observed Sample: 09/07/2008 02:42 (EDT)

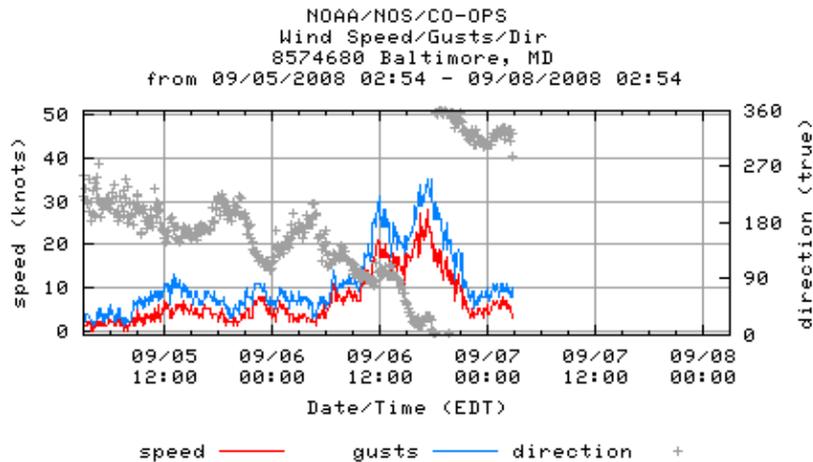
Water Temperature: 79.6° F Air Temperature: 72.9° F

**Baltimore, MD - Station Map** [Return to List](#)



Last Observed Sample: 09/07/2008 02:42 (EDT)  
 Relative to **MLLW**: **Observed: 1.99 ft. Predicted: 1.65 ft. Residual: 0.34 ft.**  
 Historical Maximum Water Level: 08/23/1933, 6.04 ft. above **MHHW**

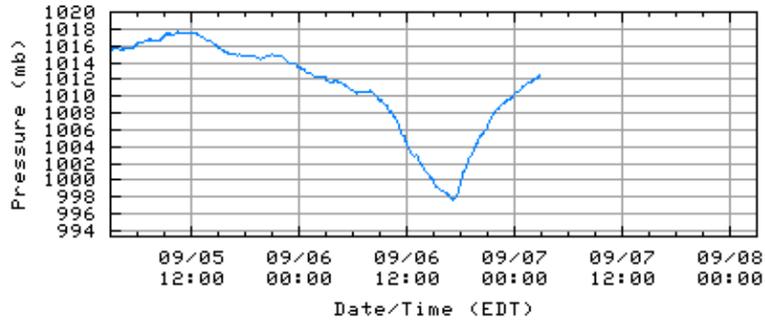
**Baltimore, MD - Station Map** [Return to List](#)



Last Observed Sample: 09/07/2008 02:42 (EDT)  
**Wind Speed: 3 knots Gusts: 10 knots Direction: 288° T**

**Baltimore, MD - Station Map** [Return to List](#)

NOAA/NOS/CO-OPS  
Barometric Pressure Plot  
8574680 Baltimore, MD  
from 09/05/2008 02:54 - 09/08/2008 02:54



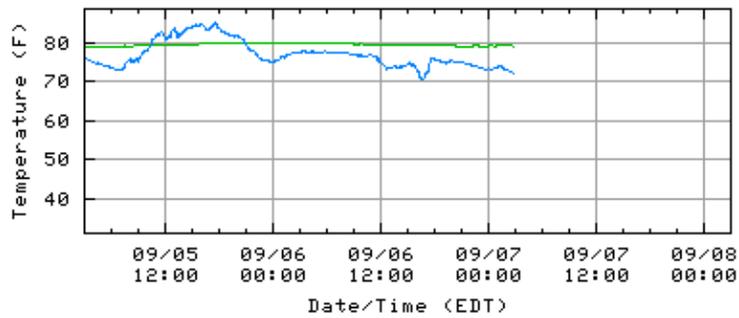
barometric pressure —

Last Observed Sample: 09/07/2008 02:42 (EDT)

Barometric Pressure: 1012.5 mb

**Baltimore, MD - Station Map** [Return to List](#)

NOAA/NOS/CO-OPS  
Air/Water Temperature Plot  
8574680 Baltimore, MD  
from 09/05/2008 02:54 - 09/08/2008 02:54

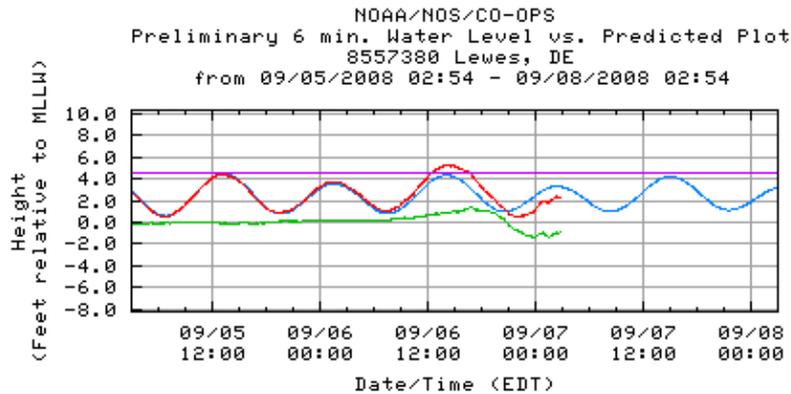


water temp. — air temp —

Last Observed Sample: 09/07/2008 02:42 (EDT)

Water Temperature: 79.2° F Air Temperature: 72.1° F

**Lewes, DE - Station Map** [Return to List](#)



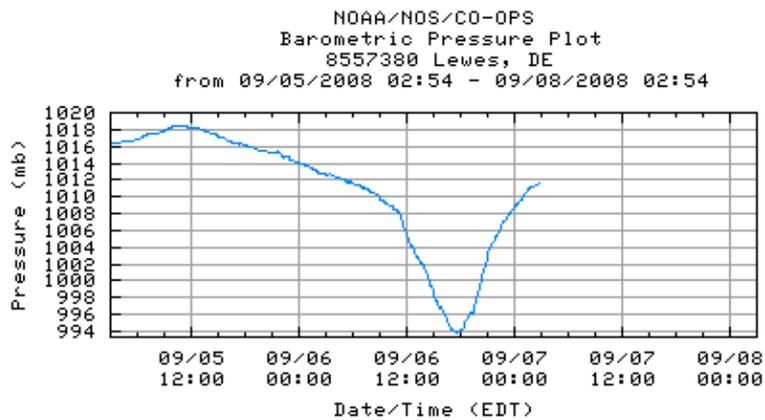
Predicted WL ——— (Obs-Pred) ———  
 Observed WL ——— MHHW ———

Last Observed Sample: 09/07/2008 02:42 (EDT)

Relative to **MLLW**: **Observed: 2.35 ft. Predicted: 3.29 ft. Residual: -0.94 ft.**

Historical Maximum Water Level: 03/06/1962, 4.57 ft. above **MHHW**

**Lewes, DE - Station Map** [Return to List](#)



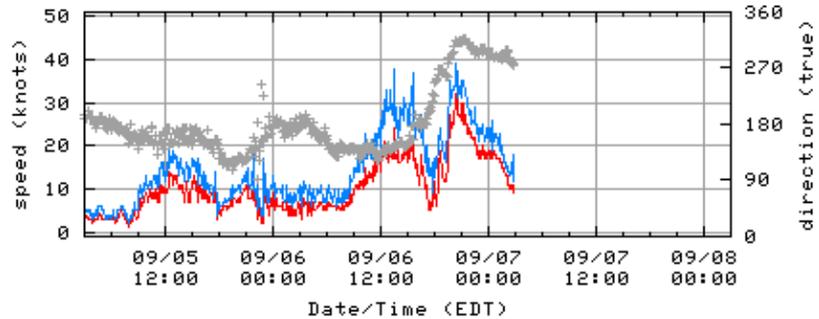
barometric pressure ———

Last Observed Sample: 09/07/2008 02:42 (EDT)

**Barometric Pressure: 1011.7 mb**

**Lewes, DE - Station Map** [Return to List](#)

NOAA/NOS/CO-OPS  
Wind Speed/Gusts/Dir  
8557380 Lewes, DE  
from 09/05/2008 02:54 - 09/08/2008 02:54



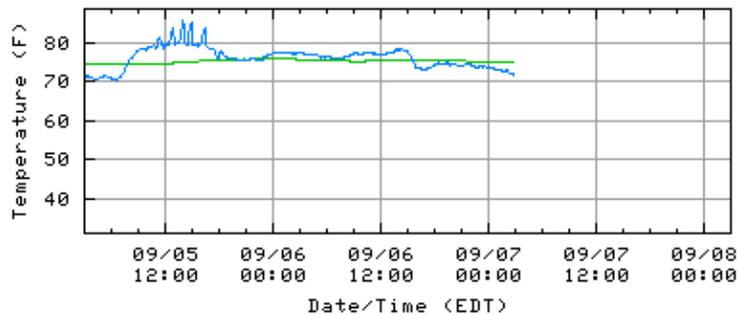
speed — gusts — direction +

Last Observed Sample: 09/07/2008 02:42 (EDT)

Wind Speed: 9 knots Gusts: 12 knots Direction: 278° T

**Lewes, DE - Station Map** [Return to List](#)

NOAA/NOS/CO-OPS  
Air/Water Temperature Plot  
8557380 Lewes, DE  
from 09/05/2008 02:54 - 09/08/2008 02:54

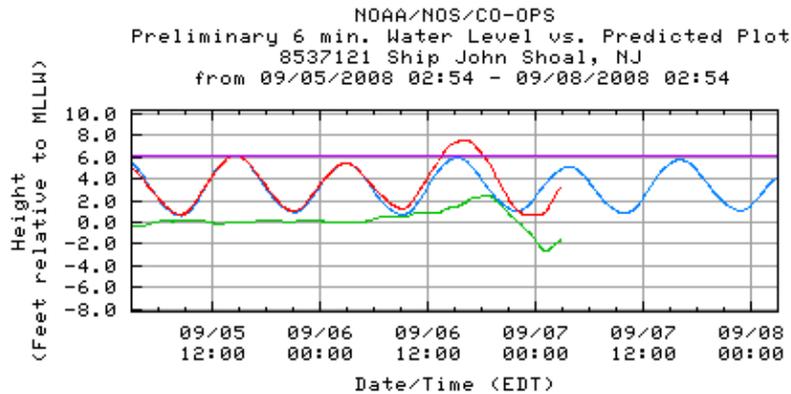


water temp. — air temp —

Last Observed Sample: 09/07/2008 02:42 (EDT)

Water Temperature: 75.0° F Air Temperature: 71.9° F

**Ship John Shoal, NJ - Station Map** [Return to List](#)

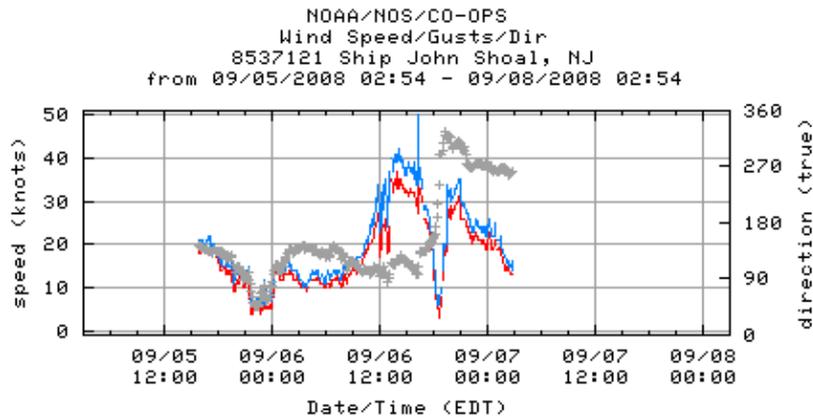


Last Observed Sample: 09/07/2008 02:42 (EDT)

Relative to **MLLW**: **Observed: 3.23 ft. Predicted: 4.86 ft. Residual: -1.63 ft.**

Historical Maximum Water Level: 01/03/2003, 2.33 ft. above **MHHW**

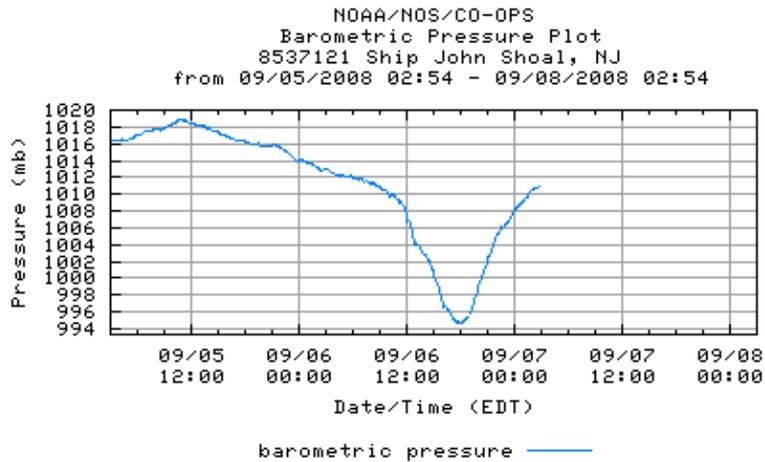
**Ship John Shoal, NJ - Station Map** [Return to List](#)



Last Observed Sample: 09/07/2008 02:42 (EDT)

**Wind Speed: 13 knots Gusts: 16 knots Direction: 263° T**

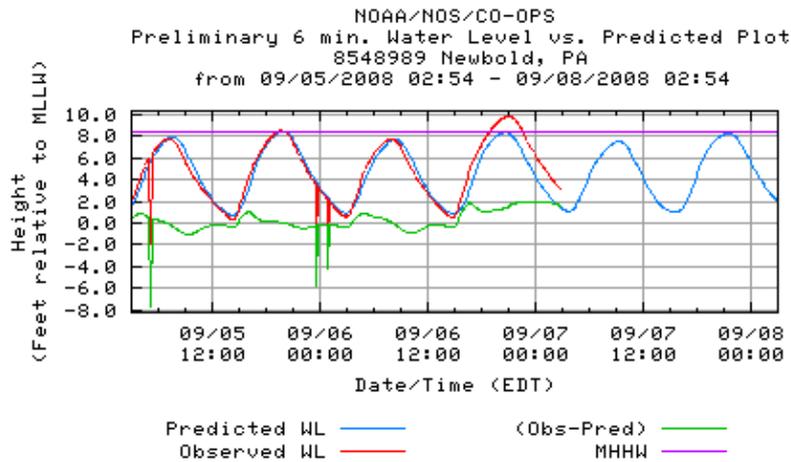
**Ship John Shoal, NJ - Station Map** [Return to List](#)



Last Observed Sample: 09/07/2008 02:42 (EDT)

Barometric Pressure: 1011.0 mb

**Newbold, PA - Station Map** [Return to List](#)



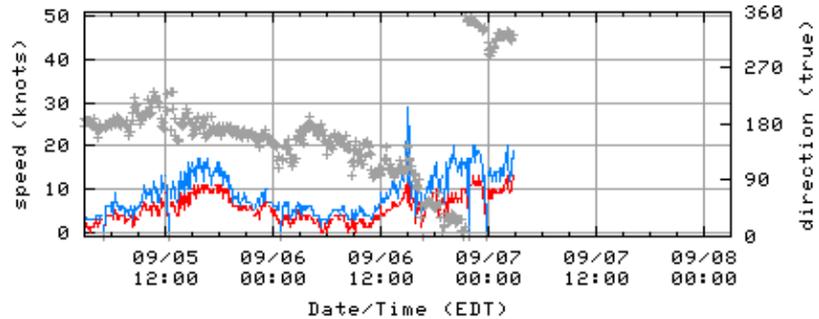
Last Observed Sample: 09/07/2008 02:42 (EDT)

Relative to **MLLW**: Observed: 3.08 ft. Predicted: 1.48 ft. Residual: 1.60 ft.

Historical Maximum Water Level: n/a

**Newbold, PA - Station Map** [Return to List](#)

NOAA/NOS/CO-OPS  
Wind Speed/Gusts/Dir  
8548989 Newbold, PA  
from 09/05/2008 02:54 - 09/08/2008 02:54



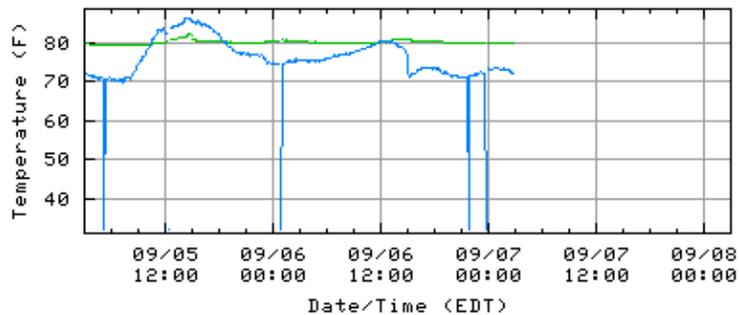
speed — gusts — direction +

Last Observed Sample: 09/07/2008 02:42 (EDT)

Wind Speed: 13 knots Gusts: 17 knots Direction: 322° T

**Newbold, PA - Station Map** [Return to List](#)

NOAA/NOS/CO-OPS  
Air/Water Temperature Plot  
8548989 Newbold, PA  
from 09/05/2008 02:54 - 09/08/2008 02:54

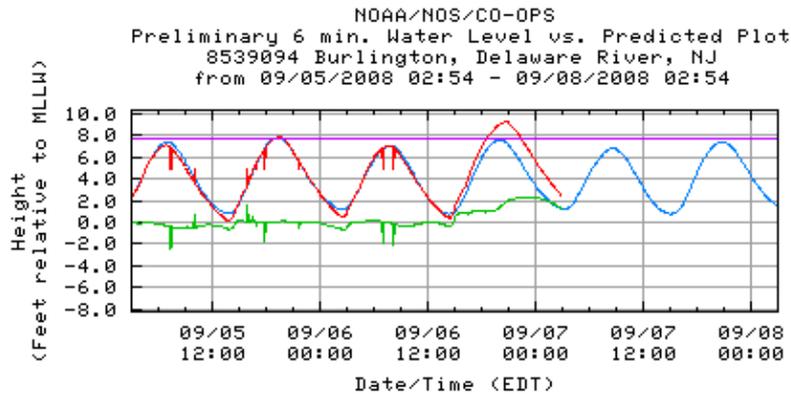


water temp. — air temp —

Last Observed Sample: 09/07/2008 02:42 (EDT)

Water Temperature: 79.9° F Air Temperature: 72.1° F

**Burlington, Delaware River, NJ - Station Map** [Return to List](#)



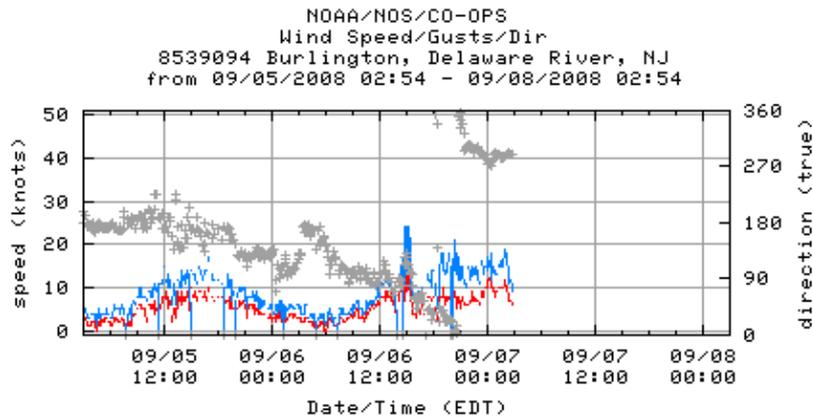
Predicted WL ——— (Obs-Pred) ———  
 Observed WL ——— MHHW ———

Last Observed Sample: 09/07/2008 02:42 (EDT)

Relative to **MLLW**: **Observed: 2.55 ft.** **Predicted: 1.26 ft.** **Residual: 1.29 ft.**

Historical Maximum Water Level: 10/29/2003, 2.8 ft. above **MHHW**

**Burlington, Delaware River, NJ - Station Map** [Return to List](#)

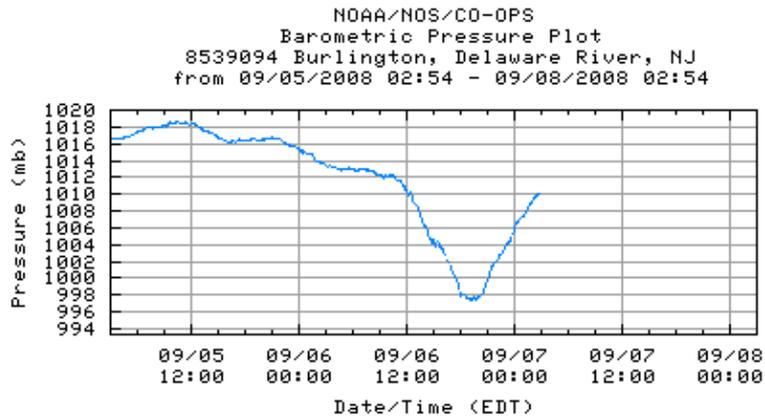


speed ——— gusts ——— direction +

Last Observed Sample: 09/07/2008 02:42 (EDT)

**Wind Speed: 6 knots** **Gusts: 9 knots** **Direction: 291° T**

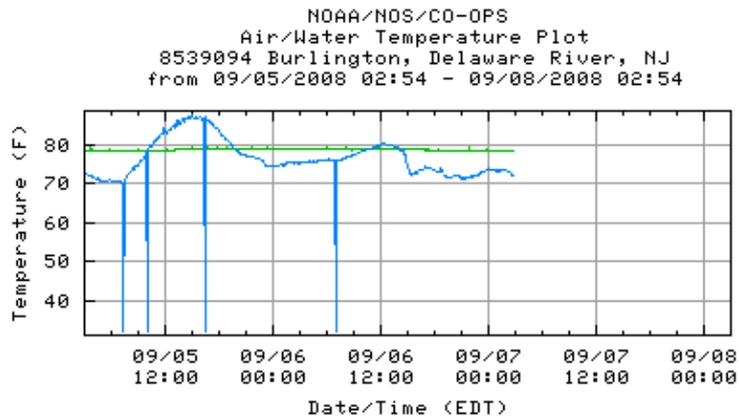
**Burlington, Delaware River, NJ - Station Map** [Return to List](#)



Last Observed Sample: 09/07/2008 02:42 (EDT)

Barometric Pressure: 1010.0 mb

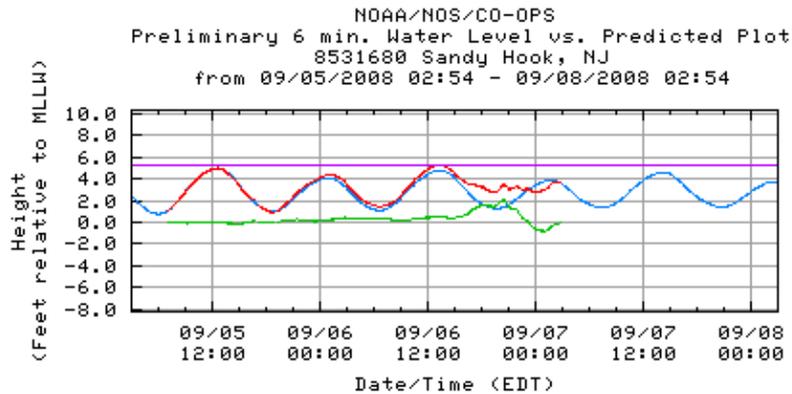
**Burlington, Delaware River, NJ - Station Map** [Return to List](#)



Last Observed Sample: 09/07/2008 02:42 (EDT)

Water Temperature: 78.3° F Air Temperature: 72.0° F

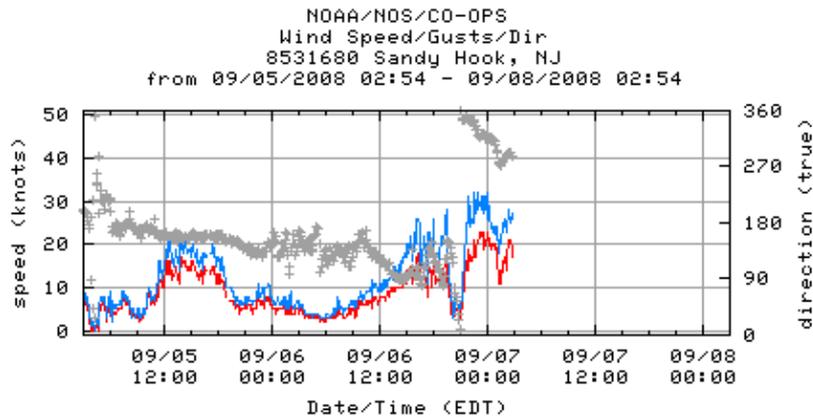
**Sandy Hook, NJ - Station Map** [Return to List](#)



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

Last Observed Sample: 09/07/2008 02:42 (EDT)  
 Relative to **MLLW**: **Observed: 3.69 ft. Predicted: 3.65 ft. Residual: 0.04 ft.**  
 Historical Maximum Water Level: 09/12/1960, 4.86 ft. above **MHHW**

**Sandy Hook, NJ - Station Map** [Return to List](#)

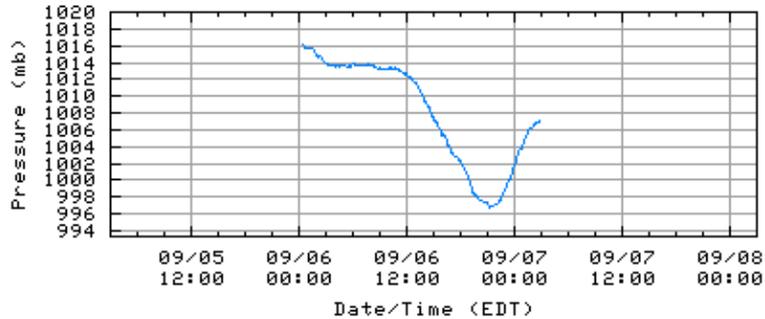


speed — gusts — direction +

Last Observed Sample: 09/07/2008 02:42 (EDT)  
**Wind Speed: 17 knots Gusts: 27 knots Direction: 287° T**

**Sandy Hook, NJ - Station Map** [Return to List](#)

NOAA/NOS/CO-OPS  
Barometric Pressure Plot  
8531680 Sandy Hook, NJ  
from 09/05/2008 02:54 - 09/08/2008 02:54



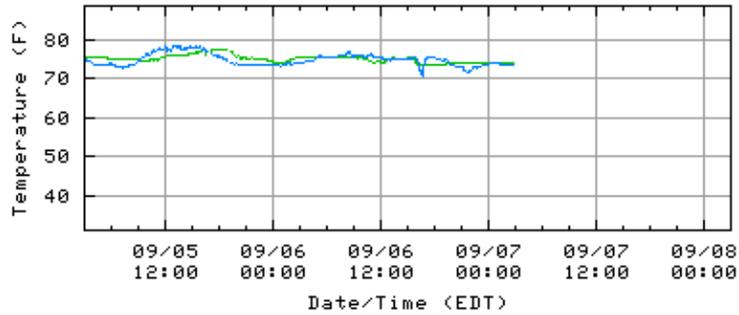
barometric pressure —

Last Observed Sample: 09/07/2008 02:42 (EDT)

Barometric Pressure: 1007.1 mb

**Sandy Hook, NJ - Station Map** [Return to List](#)

NOAA/NOS/CO-OPS  
Air/Water Temperature Plot  
8531680 Sandy Hook, NJ  
from 09/05/2008 02:54 - 09/08/2008 02:54

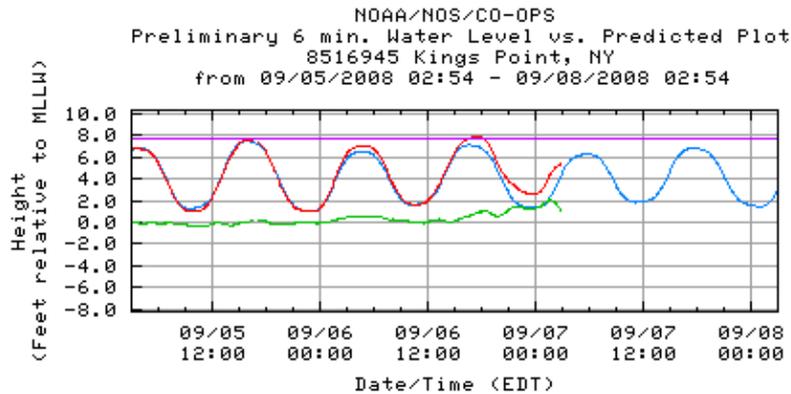


water temp. — air temp. —

Last Observed Sample: 09/07/2008 02:42 (EDT)

Water Temperature: 73.9° F Air Temperature: 73.4° F

**Kings Point, NY - Station Map** [Return to List](#)



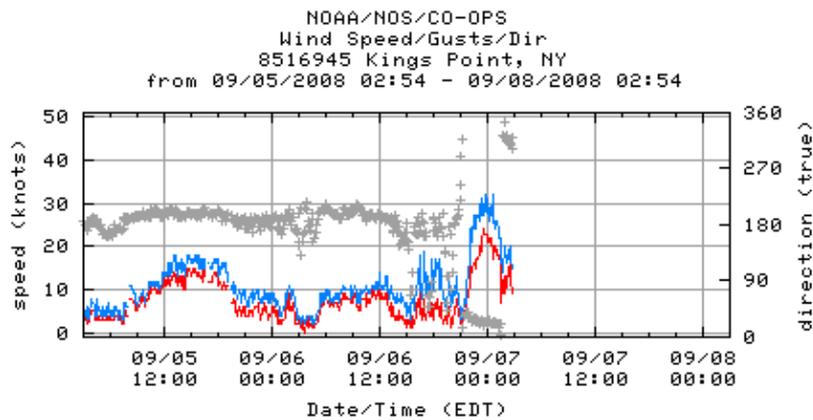
Predicted WL ——— (Obs-Pred) ———  
 Observed WL ——— MHHW ———

Last Observed Sample: 09/07/2008 02:42 (EDT)

Relative to **MLLW**: **Observed: 5.38 ft.** **Predicted: 4.27 ft.** **Residual: 1.11 ft.**

Historical Maximum Water Level: 11/06/2002, 3.08 ft. above **MHHW**

**Kings Point, NY - Station Map** [Return to List](#)

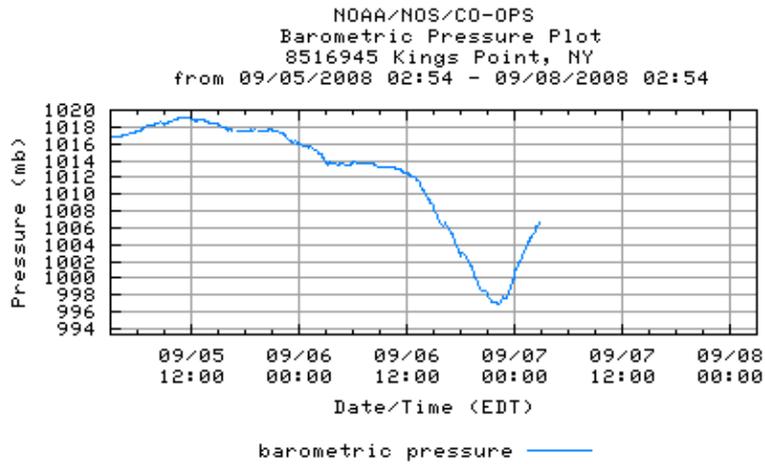


speed ——— gusts ——— direction +

Last Observed Sample: 09/07/2008 02:42 (EDT)

**Wind Speed: 9 knots** **Gusts: 15 knots** **Direction: 319° T**

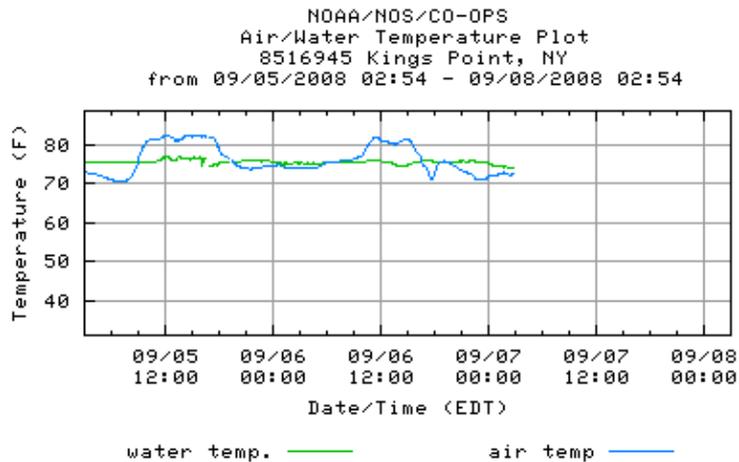
**Kings Point, NY - Station Map** [Return to List](#)



Last Observed Sample: 09/07/2008 02:42 (EDT)

Barometric Pressure: 1006.6 mb

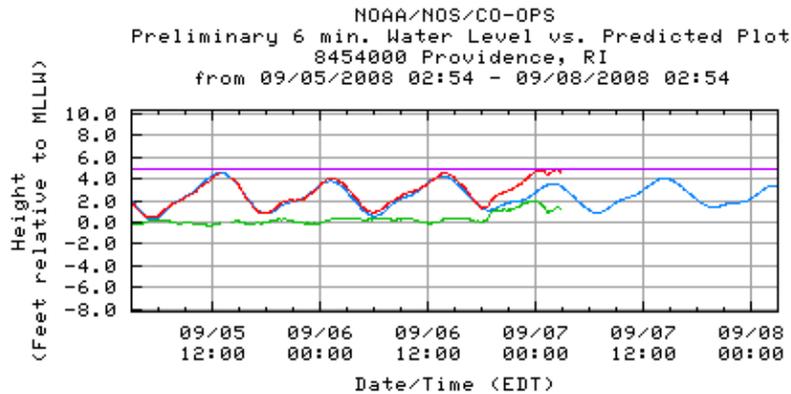
**Kings Point, NY - Station Map** [Return to List](#)



Last Observed Sample: 09/07/2008 02:42 (EDT)

Water Temperature: 74.1° F Air Temperature: 72.7° F

**Providence, RI - Station Map** [Return to List](#)



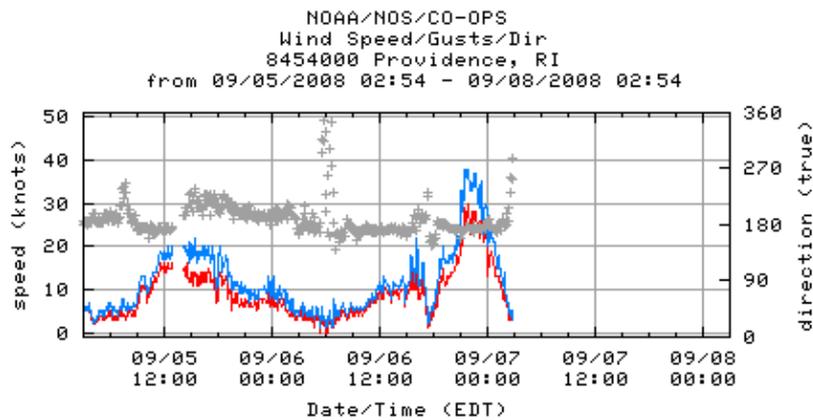
Predicted WL — (Obs-Pred) —  
 Observed WL — MHHW —

Last Observed Sample: 09/07/2008 02:42 (EDT)

Relative to **MLLW**: **Observed: 4.58 ft. Predicted: 3.36 ft. Residual: 1.22 ft.**

Historical Maximum Water Level: 09/21/1938, 12.67 ft. above **MHHW**

**Providence, RI - Station Map** [Return to List](#)

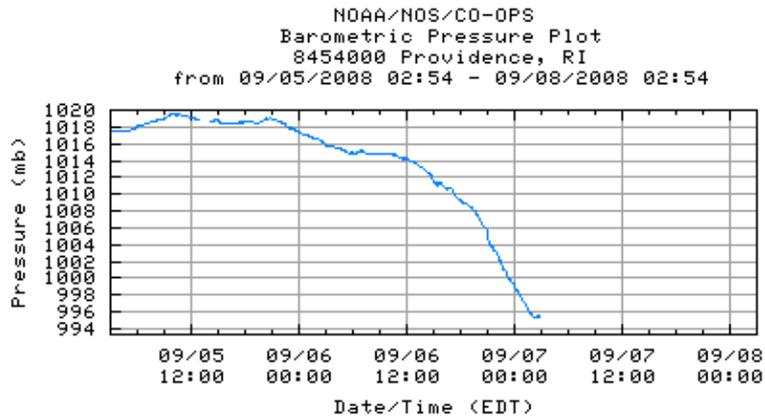


speed — gusts — direction +

Last Observed Sample: 09/07/2008 02:42 (EDT)

**Wind Speed: 3 knots Gusts: 5 knots Direction: 288° T**

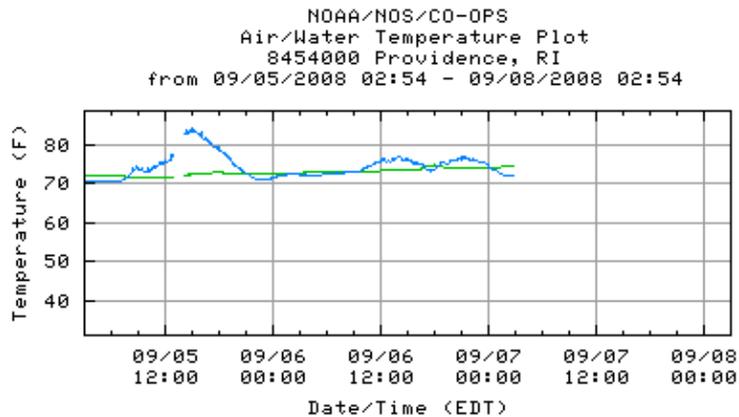
**Providence, RI - Station Map** [Return to List](#)



Last Observed Sample: 09/07/2008 02:42 (EDT)

Barometric Pressure: 995.5 mb

**Providence, RI - Station Map** [Return to List](#)



Last Observed Sample: 09/07/2008 02:42 (EDT)

Water Temperature: 74.5° F Air Temperature: 72.1° F

## Tropical Storm HANNA QuickLook, POSTED 01:00 EDT 09/07/2008

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