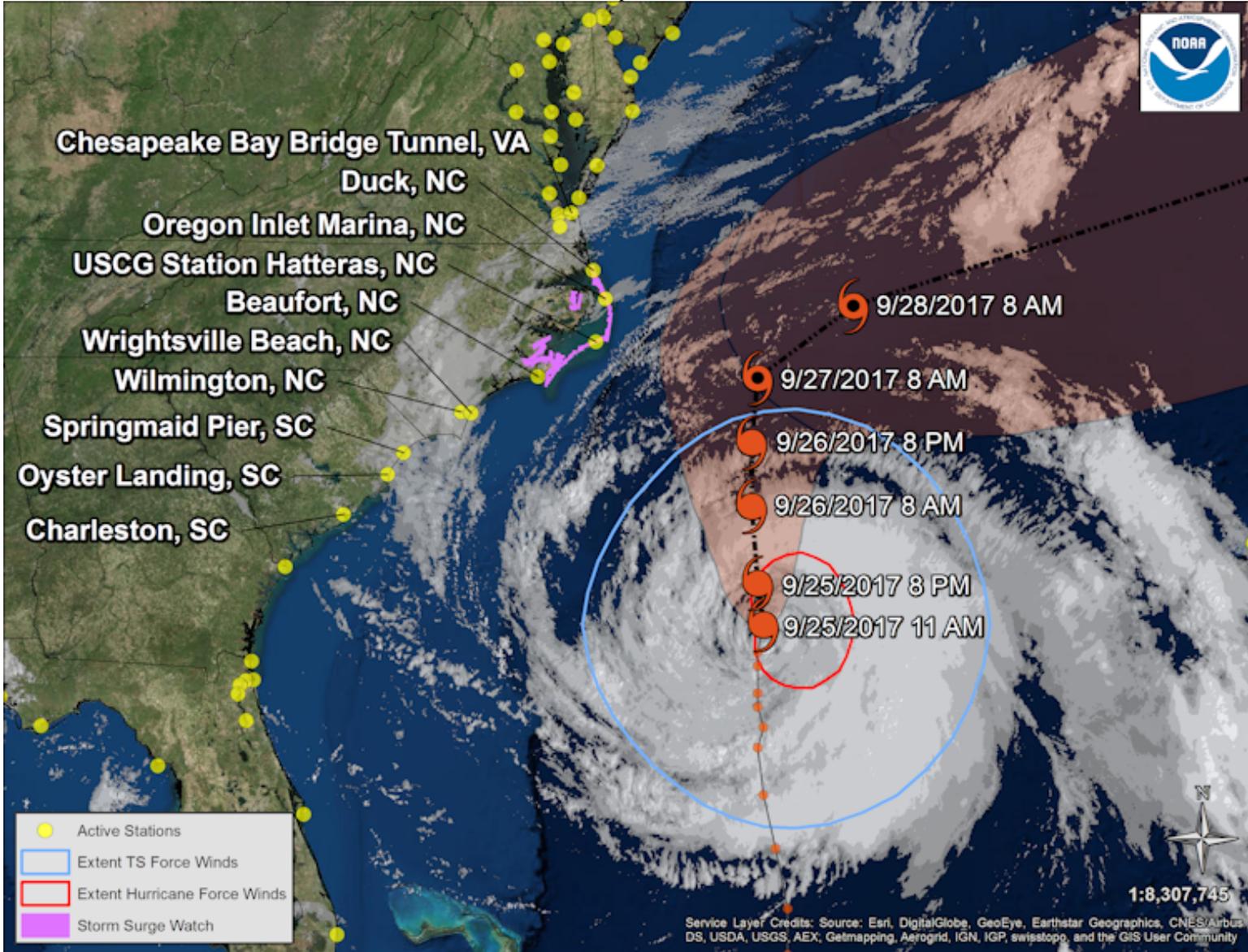




Hurricane MARIA QuickLook
 Posted: 12:00 EDT 09/25/2017

NOAA and NOAA Partnership Stations Relative to the Storm



Storm Analysis

As of 9/25/2017 12:00 EDT, water levels along the Atlantic coast from Springmaid Pier, SC to the entrance to Chesapeake Bay are slowly rising and range between 0.5 and 1.4 feet above normal tide levels. However some of the higher water level residuals across the South Carolina coast are coinciding with low tide.

Winds range from 10 to 20 knots with some gusts between 20 and 25 knots being measured across northern North Carolina. Barometric pressure is slowly falling across the region.

Water Level and Meteorological plots available below are updated automatically. A line denoting Mean Higher High Water (MHHW) is displayed to provide an approximate indication of when flooding inundation may occur.

For additional real-time and historical inundation information for select stations affected by this storm, please see Coastal Inundation Dashboard.

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: ADM

SELECT NATIONAL HURRICANE CENTER ADVISORY INFORMATION:

Hurricane Maria Advisory Number 38
NWS National Hurricane Center Miami FL
1100 AM EDT Mon Sep 25 2017

...MARIA CONTINUES TO MOVE SLOWLY NORTHWARD...
...LARGE SWELLS AFFECTING MUCH OF THE EAST COAST OF THE UNITED STATES...

WATCHES AND WARNINGS

CHANGES WITH THIS ADVISORY:

None.

SUMMARY OF WATCHES AND WARNINGS IN EFFECT:

A Tropical Storm Warning is in effect for...
* Cape Lookout to Duck
* Albemarle and Pamlico Sounds

A Tropical Storm Watch is in effect for...
* North of Duck to the North Carolina/Virginia border
* North of Surf City to south of Cape Lookout

A Storm Surge Watch is in effect for...
* Cape Lookout to Duck

Interests elsewhere along the Carolina and Mid-Atlantic coasts should monitor the progress of Maria.

A Tropical Storm Warning means that tropical storm conditions are expected somewhere within the warning area within 36 hours.

A Tropical Storm Watch means that tropical storm conditions are possible within the watch area, in this case within the next 36 to 48 hours.

A Storm Surge Watch means there is a possibility of life-threatening inundation, from rising water moving inland from the coastline, in the indicated locations during the next 48 hours. For a depiction of areas at risk, please see the National Weather Service Storm Surge Watch/Warning Graphic, available at hurricanes.gov.

For storm information specific to your area, including possible inland watches and warnings, please monitor products issued by your local National Weather Service forecast office.

DISCUSSION AND 48-HOUR OUTLOOK

At 1100 AM EDT, the center of Hurricane Maria was located ABOUT 315 MI SSE OF CAPE HATTERAS NORTH CAROLINA. Maria is moving toward the north near 7 mph, and this general motion with some decrease in forward speed is expected through Tuesday night. On the forecast track, the center of Maria will move well east of the southeast coast of the United States during the next day or so.

Reports from an Air Force Reserve Hurricane Hunter aircraft indicate that maximum sustained winds are near 80 mph with higher gusts. Gradual weakening is forecast during the next couple of days and Maria is forecast to become a tropical storm Tuesday night.

Maria is a large hurricane. Hurricane-force winds extend outward up to 90 miles primarily to the east of center and tropical-storm-force winds extend outward up to 230 miles.

The latest minimum central pressure reported by reconnaissance aircraft is 963 mb.

HAZARDS AFFECTING LAND

WIND: Tropical storm conditions are expected within the warning area beginning Tuesday. Tropical storm conditions are possible within the watch area beginning Tuesday.

STORM SURGE: The combination of a dangerous storm surge and the tide will cause normally dry areas near the coast to be flooded by rising waters moving inland from the shoreline. The water is expected to reach the following heights above ground if the peak surge occurs at the time of high tide...

Cape Lookout to Duck including the sound side of the Outer Banks...2 to 4 ft

Surge-related flooding depends on the relative timing of the surge and the tidal cycle, and can vary greatly over short distances. For information specific to your area, please see products issued by your local National Weather Service forecast office.

RAINFALL: Maria is expected to produce total rainfall accumulations of 1 to 2 inches over the Outer Banks of North Carolina through Wednesday.

SURF: Swells generated by Maria are affecting portions of the coast of the southeastern United States and Bermuda and will be increasing along the Mid-Atlantic and southern New England coasts today. Swells also continue to affect Puerto Rico, the northern coast of Hispaniola, the Turks and Caicos Islands, and the Bahamas. These swells are likely to cause life-threatening surf and rip current conditions. Please consult products from your local weather office for more information.

NEXT ADVISORY

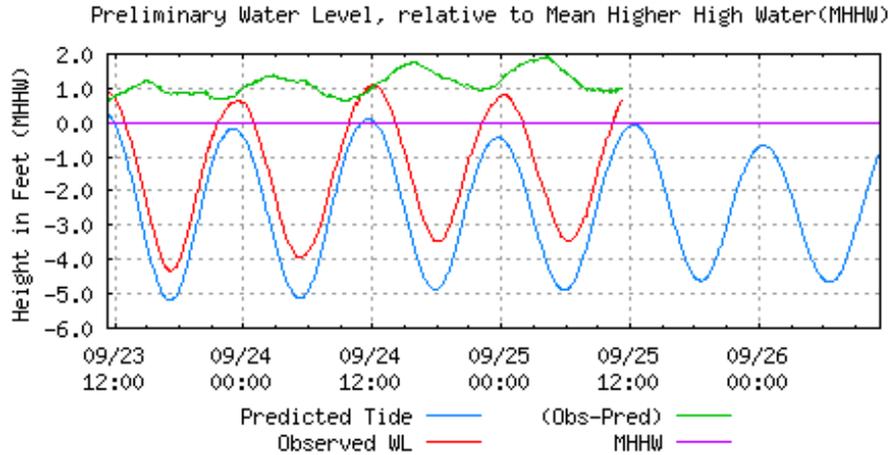
Next intermediate advisory at 200 PM EDT.
Next complete advisory at 500 PM EDT.

\$\$
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.

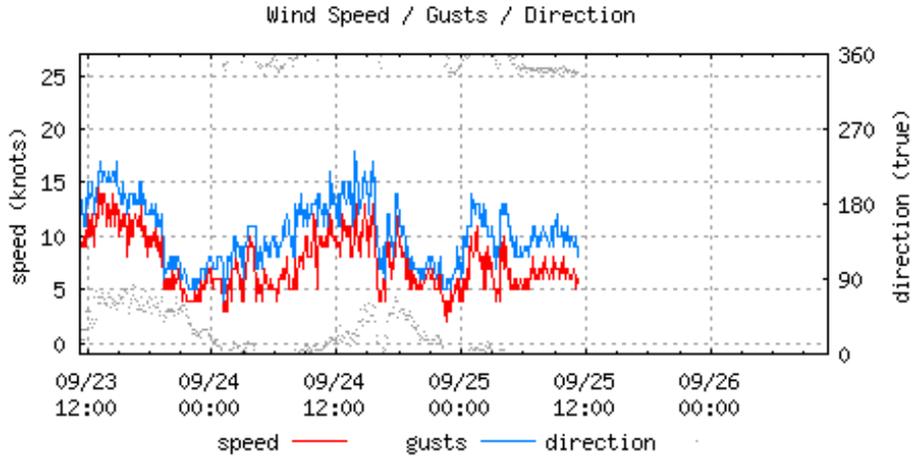
Jump to: [Charleston, Cooper River Entrance - Water Level](#), [Charleston, Cooper River Entrance - Winds](#), [Charleston, Cooper River Entrance - Barometric](#), [Oyster Landing \(N Inlet Estuary\) - Water Level](#), [Springmaid Pier - Water Level](#), [Springmaid Pier - Barometric](#), [Wrightsville Beach - Water Level](#), [Wrightsville Beach - Winds](#), [Wrightsville Beach - Barometric](#), [Wilmington - Water Level](#), [Beaufort - Water Level](#), [Beaufort - Winds](#), [Beaufort - Barometric](#), [USCG Station Hatteras - Water Level](#), [USCG Station Hatteras - Winds](#), [Oregon Inlet Marina - Water Level](#), [Oregon Inlet Marina - Winds](#), [Duck - Water Level](#), [Duck - Winds](#), [Duck - Barometric](#), [Chesapeake Bay Bridge Tunnel - Water Level](#), [Chesapeake Bay Bridge Tunnel - Winds](#)

NOAA/NOS/CO-OPS 8665530 Charleston, Cooper River Entrance, SC



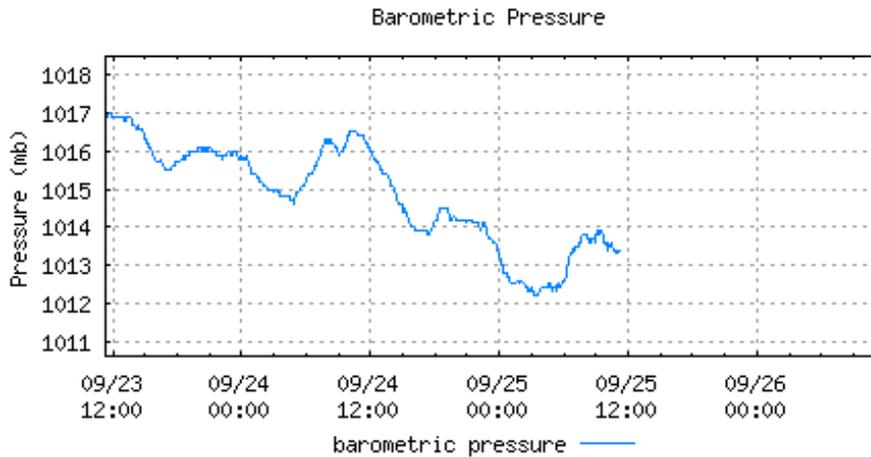
Last Observed Sample: 09/25/2017 11:12 (EDT). Data relative to MHHW
Observed: 0.65 ft. Predicted: -0.37 ft. Residual: 1.02 ft.
 Historical Maximum Water Level: Sep 21 1989, 6.76 ft.
 Next High Tide: 09/25/2017 12:21 (EDT), -0.07 ft.

NOAA/NOS/CO-OPS 8665530 Charleston, Cooper River Entrance, SC



Last Observed Sample: 09/25/2017 11:12 (EDT)
Wind Speed: 6 knots Gusts: 8 knots Direction: 338° T

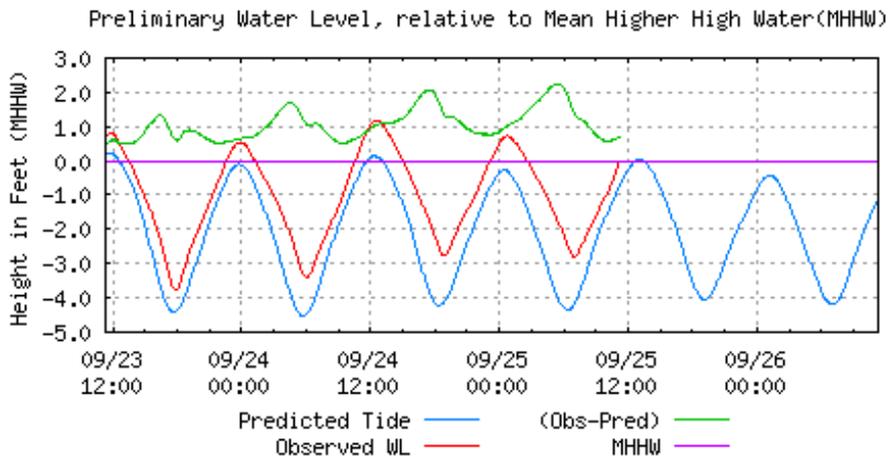
NOAA/NOS/CO-OPS 8665530 Charleston, Cooper River Entrance, SC



Last Observed Sample: 09/25/2017 11:12 (EDT)

Barometric Pressure: 1013.4 mb

NOAA/NOS/CO-OPS 8662245 Oyster Landing (N Inlet Estuary), SC



Last Observed Sample: 09/25/2017 11:12 (EDT). Data relative to MHHW

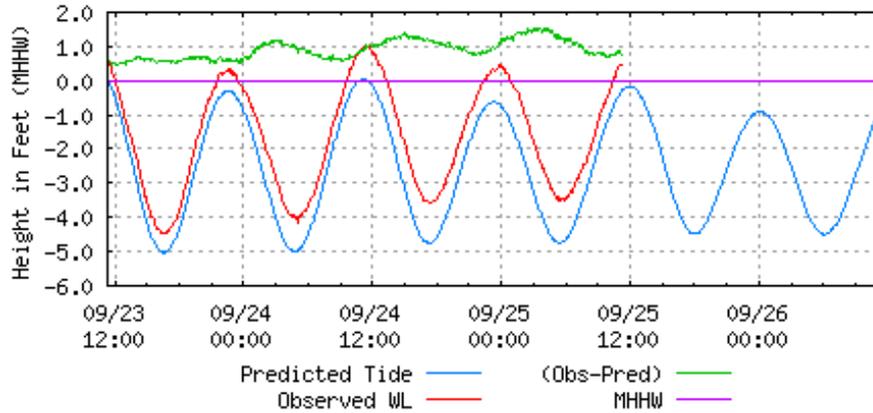
Observed: -0.05 ft. Predicted: -0.75 ft. Residual: 0.70 ft.

Historical Maximum Water Level: Oct 8 2016, 4.64 ft.

Next High Tide: 09/25/2017 13:03 (EDT), 0.04 ft.

NOAA/NOS/CO-OPS 8661070 Springmaid Pier, SC

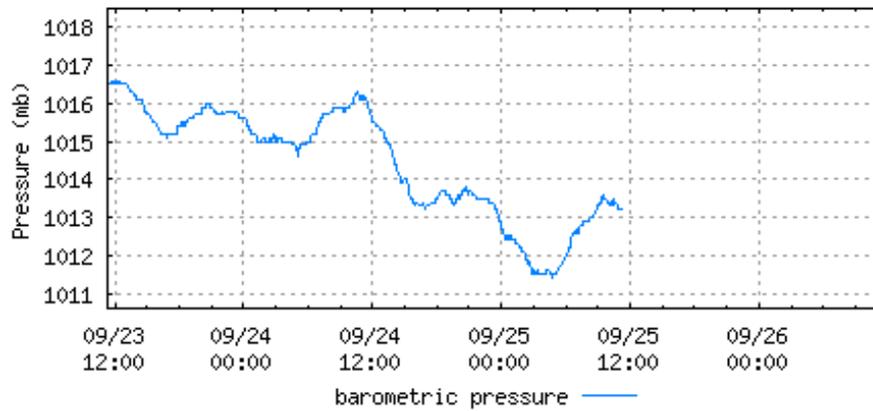
Preliminary Water Level, relative to Mean Higher High Water (MHHW)



Last Observed Sample: 09/25/2017 11:12 (EDT). Data relative to MHHW
Observed: 0.43 ft. Predicted: -0.32 ft. Residual: 0.75 ft.
 Historical Maximum Water Level: Jan 1 1987, 3.65 ft.
 Next High Tide: 09/25/2017 11:57 (EDT), -0.17 ft.

NOAA/NOS/CO-OPS 8661070 Springmaid Pier, SC

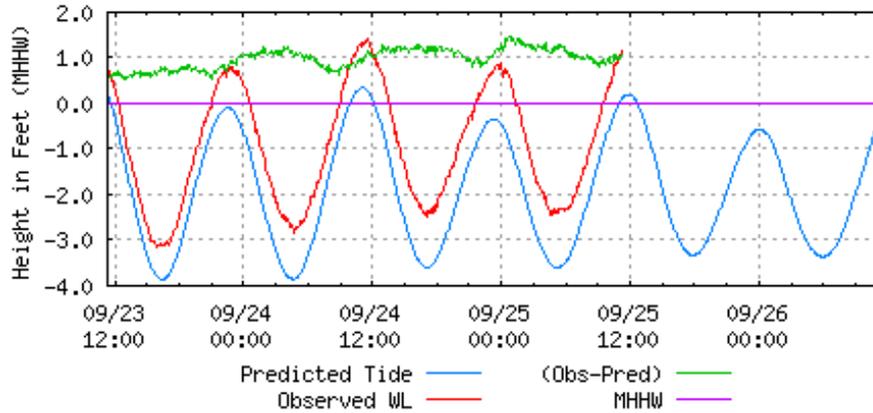
Barometric Pressure



Last Observed Sample: 09/25/2017 11:12 (EDT)
Barometric Pressure: 1013.2 mb

NOAA/NOS/CO-OPS 8658163 Wrightsville Beach, NC

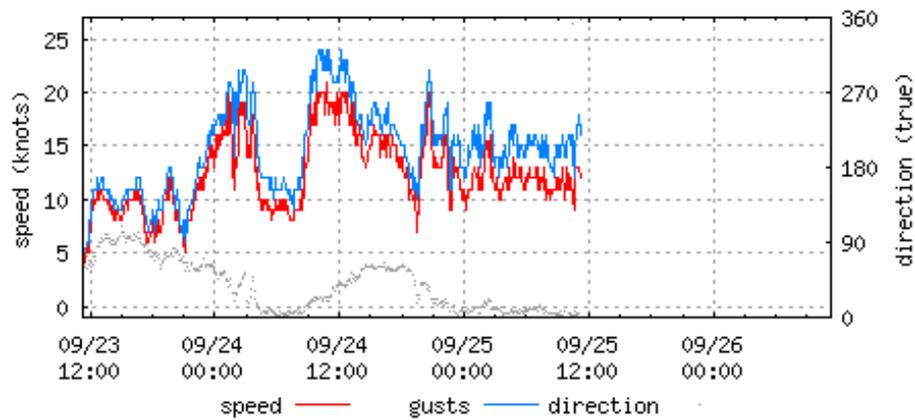
Preliminary Water Level, relative to Mean Higher High Water(MHHW)



Last Observed Sample: 09/25/2017 11:18 (EDT). Data relative to MHHW
Observed: 1.19 ft. Predicted: 0.12 ft. Residual: 1.07 ft.
Historical Maximum Water Level: Oct 4 2015, 2.94 ft.
Next High Tide: 09/25/2017 11:50 (EDT), 0.19 ft.

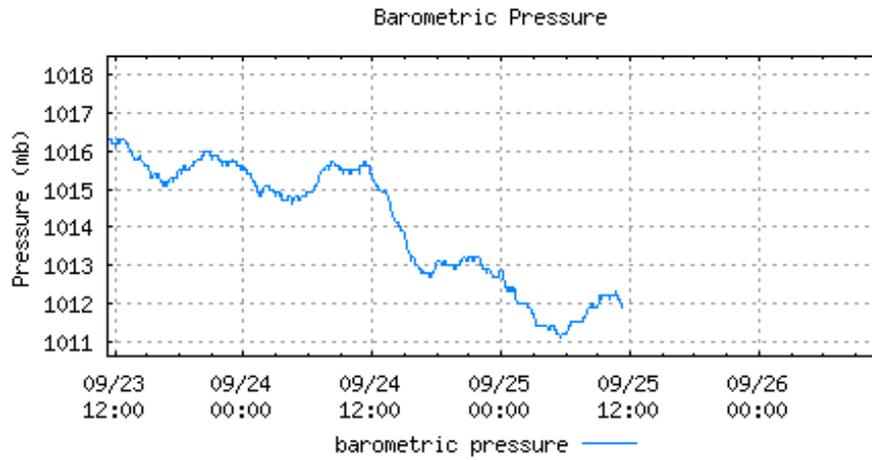
NOAA/NOS/CO-OPS 8658163 Wrightsville Beach, NC

Wind Speed / Gusts / Direction



Last Observed Sample: 09/25/2017 11:18 (EDT)
Wind Speed: 12 knots Gusts: 16 knots Direction: 350° T

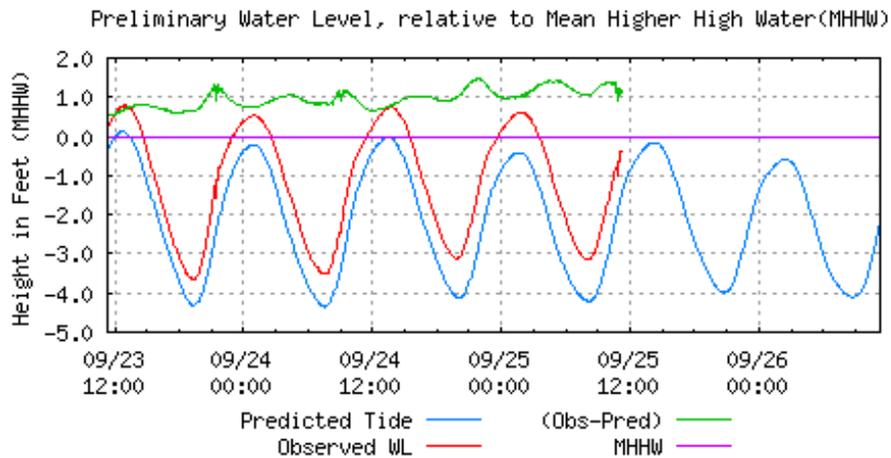
NOAA/NOS/CO-OPS 8658163 Wrightsville Beach, NC



Last Observed Sample: 09/25/2017 11:18 (EDT)

Barometric Pressure: 1011.8 mb

NOAA/NOS/CO-OPS 8658120 Wilmington, NC



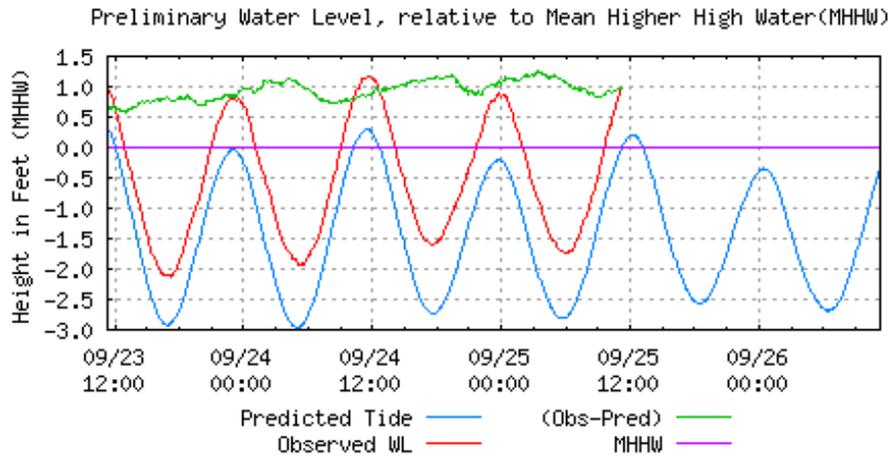
Last Observed Sample: 09/25/2017 11:12 (EDT). Data relative to MHHW

Observed: -0.39 ft. Predicted: -1.50 ft. Residual: 1.11 ft.

Historical Maximum Water Level: Oct 8 2016, 3.48 ft.

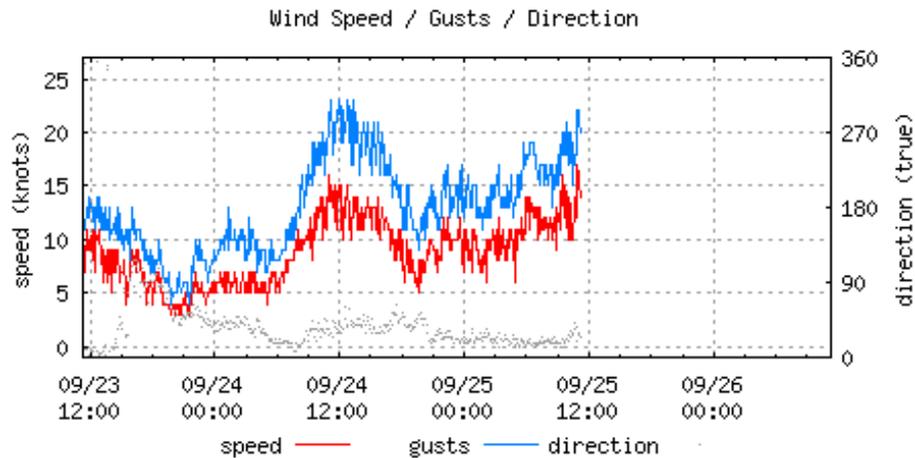
Next High Tide: 09/25/2017 14:16 (EDT), -0.16 ft.

NOAA/NOS/CO-OPS 8656483 Beaufort, NC



Last Observed Sample: 09/25/2017 11:12 (EDT). Data relative to MHHW
Observed: 0.95 ft. Predicted: -0.02 ft. Residual: 0.97 ft.
 Historical Maximum Water Level: Sep 14 2005, 3.01 ft.
 Next High Tide: 09/25/2017 12:15 (EDT), 0.20 ft.

NOAA/NOS/CO-OPS 8656483 Beaufort, NC



Last Observed Sample: 09/25/2017 11:12 (EDT)
Wind Speed: 14 knots Gusts: 20 knots Direction: 24° T

NOAA/NOS/CO-OPS 8656483 Beaufort, NC

Barometric Pressure

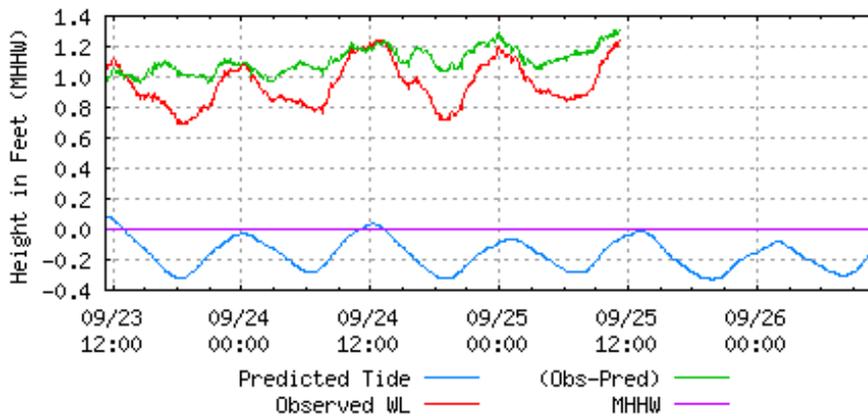


Last Observed Sample: 09/25/2017 11:12 (EDT)

Barometric Pressure: 1012.0 mb

NOAA/NOS/CO-OPS 8654467 USCG Station Hatteras, NC

Preliminary Water Level, relative to Mean Higher High Water (MHHW)



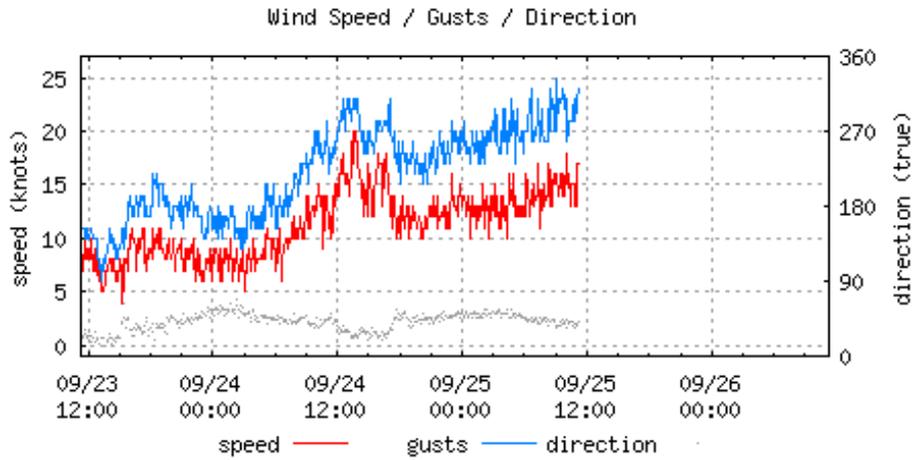
Last Observed Sample: 09/25/2017 11:12 (EDT). Data relative to MHHW

Observed: 1.24 ft. Predicted: -0.06 ft. Residual: 1.30 ft.

Historical Maximum Water Level: Oct 9 2016, 5.71 ft.

Next High Tide: 09/25/2017 13:11 (EDT), -0.01 ft.

NOAA/NOS/CO-OPS 8654467 USCG Station Hatteras, NC

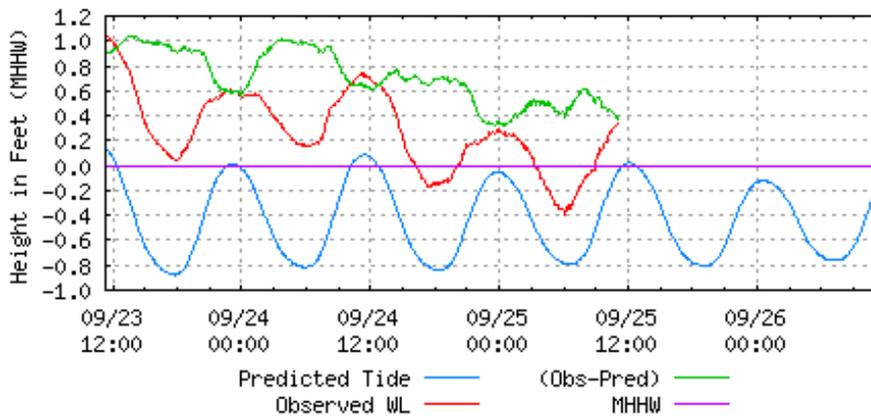


Last Observed Sample: 09/25/2017 11:12 (EDT)

Wind Speed: 17 knots Gusts: 24 knots Direction: 41° T

NOAA/NOS/CO-OPS 8652587 Oregon Inlet Marina, NC

Preliminary Water Level, relative to Mean Higher High Water (MHHW)



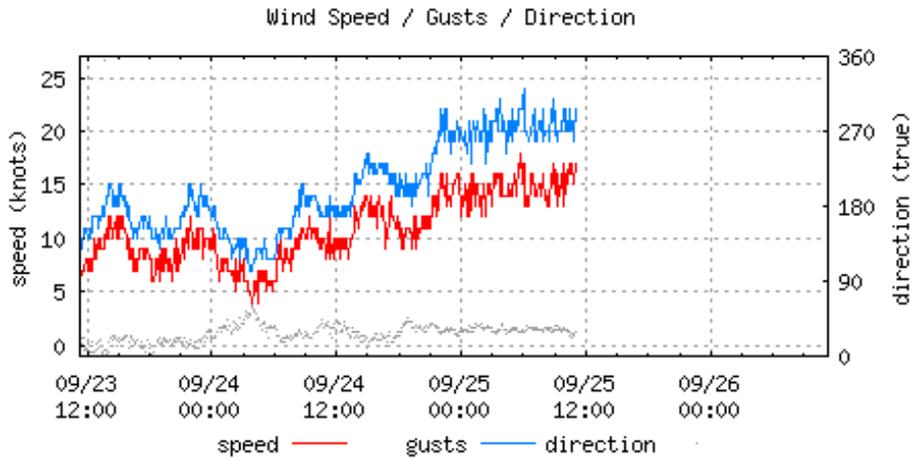
Last Observed Sample: 09/25/2017 11:06 (EDT). Data relative to MHHW

Observed: 0.33 ft. Predicted: -0.04 ft. Residual: 0.37 ft.

Historical Maximum Water Level: Aug 28 2011, 6.32 ft.

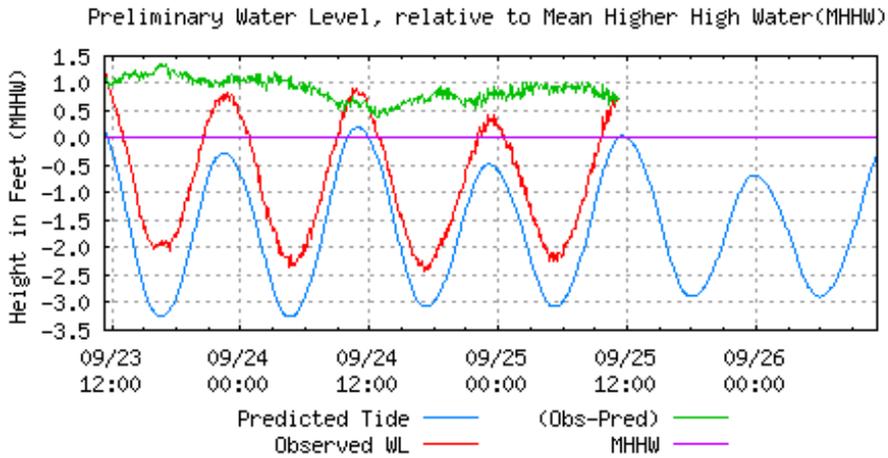
Next High Tide: 09/25/2017 12:07 (EDT), 0.01 ft.

NOAA/NOS/CO-OPS 8652587 Oregon Inlet Marina, NC



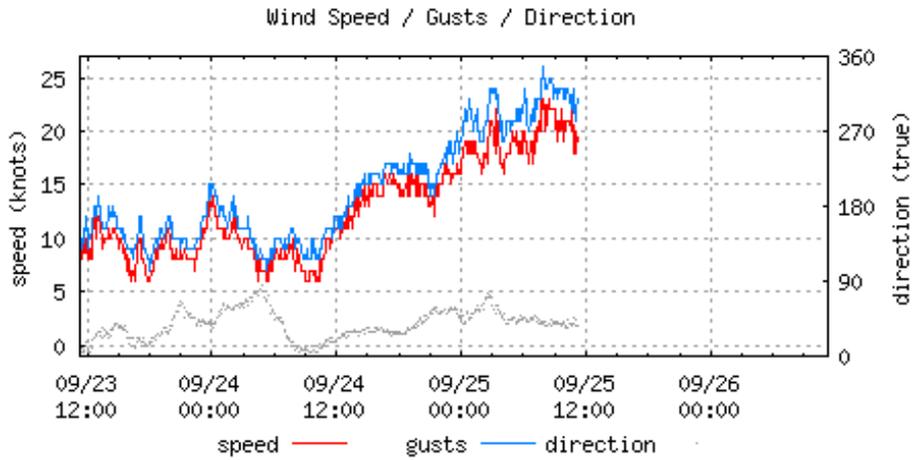
Last Observed Sample: 09/25/2017 11:06 (EDT)
Wind Speed: 17 knots **Gusts: 21 knots** Direction: 30° T

NOAA/NOS/CO-OPS 8651370 Duck, NC



Last Observed Sample: 09/25/2017 11:12 (EDT). Data relative to MHHW
Observed: 0.73 ft. **Predicted: 0.01 ft.** **Residual: 0.72 ft.**
 Historical Maximum Water Level: Sep 18 2003, 4.13 ft.
 Next High Tide: 09/25/2017 11:37 (EDT), 0.04 ft.

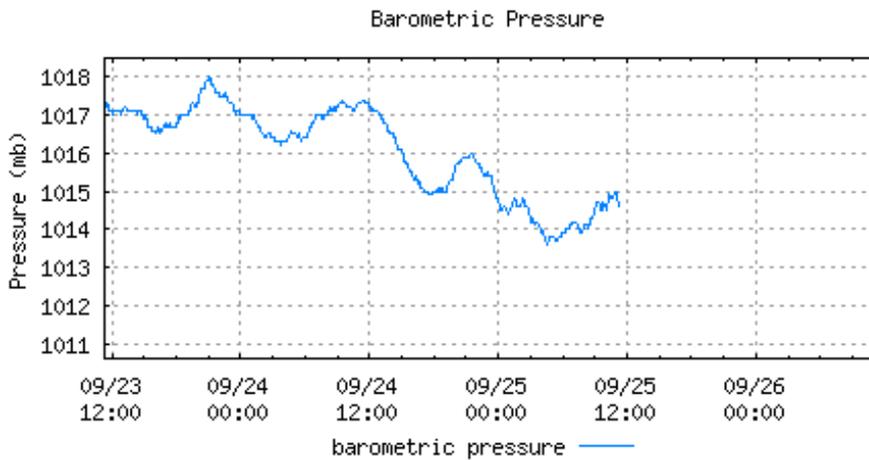
NOAA/NOS/CO-OPS 8651370 Duck, NC



Last Observed Sample: 09/25/2017 11:12 (EDT)

Wind Speed: 19 knots Gusts: 23 knots Direction: 37° T

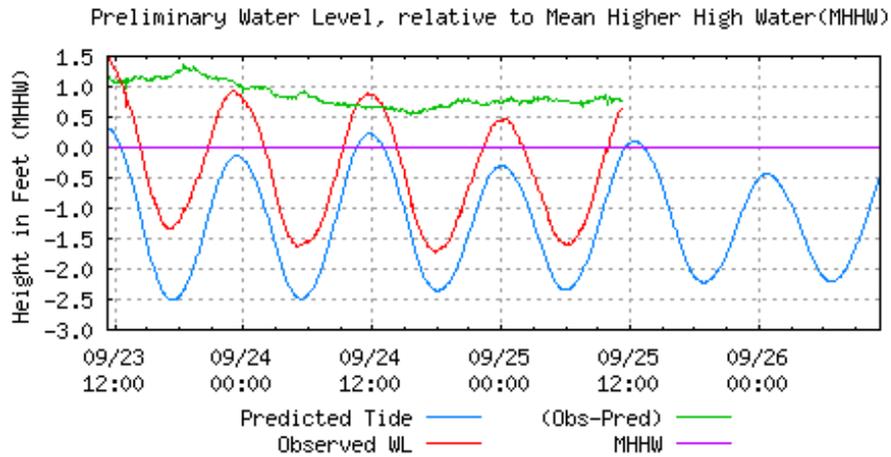
NOAA/NOS/CO-OPS 8651370 Duck, NC



Last Observed Sample: 09/25/2017 11:12 (EDT)

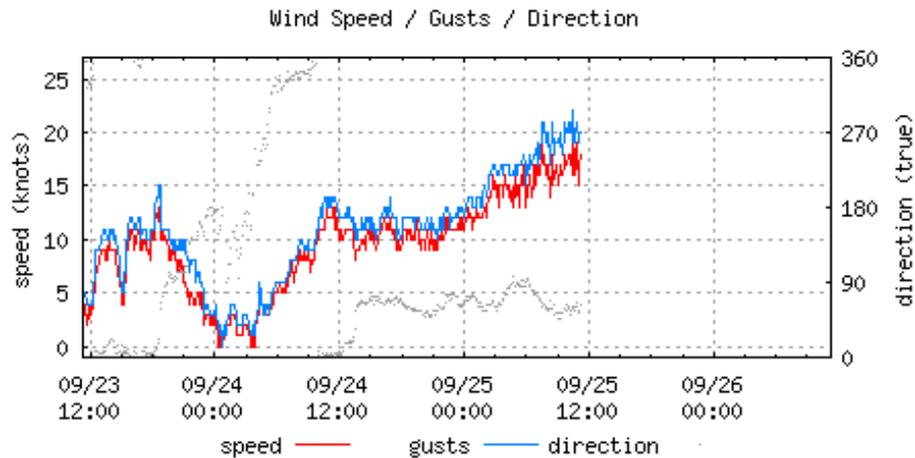
Barometric Pressure: 1014.6 mb

NOAA/NOS/CO-OPS 8638863 Chesapeake Bay Bridge Tunnel, VA



Last Observed Sample: 09/25/2017 11:12 (EDT). Data relative to MHHW
Observed: 0.64 ft. Predicted: -0.12 ft. Residual: 0.76 ft.
 Historical Maximum Water Level: Nov 12 2009, 4.66 ft.
 Next High Tide: 09/25/2017 12:25 (EDT), 0.10 ft.

NOAA/NOS/CO-OPS 8638863 Chesapeake Bay Bridge Tunnel, VA



Last Observed Sample: 09/25/2017 11:12 (EDT)
Wind Speed: 18 knots Gusts: 20 knots Direction: 64° T

Latest Water Level Observations on MHHW

| Station ID | Station Name | Date/Time | Observed Water Level | Predicted Tide | Residual Water Level | 24 Hour Maximum Storm Tide |
|------------|---------------------------------------|------------------------|----------------------|----------------|----------------------|----------------------------|
| 8665530 | Charleston, Cooper River Entrance, SC | 09/25/2017 11:12 (EDT) | 0.65 ft | -0.37 ft | 1.02 ft | 1.11 ft |
| 8662245 | Oyster Landing (N Inlet Estuary), SC | 09/25/2017 11:12 (EDT) | -0.05 ft | -0.75 ft | 0.70 ft | 1.17 ft |
| 8661070 | Springmaid Pier, SC | 09/25/2017 11:12 (EDT) | 0.43 ft | -0.32 ft | 0.75 ft | 1.06 ft |
| 8658163 | Wrightsville Beach, NC | 09/25/2017 11:18 (EDT) | 1.19 ft | 0.12 ft | 1.07 ft | 1.42 ft |
| 8658120 | Wilmington, NC | 09/25/2017 11:12 (EDT) | -0.39 ft | -1.50 ft | 1.11 ft | 0.76 ft |
| 8656483 | Beaufort, NC | 09/25/2017 11:12 (EDT) | 0.95 ft | -0.02 ft | 0.97 ft | 1.17 ft |
| 8654467 | USCG Station Hatteras, NC | 09/25/2017 11:12 (EDT) | 1.24 ft | -0.06 ft | 1.30 ft | 1.25 ft |
| 8652587 | Oregon Inlet Marina, NC | 09/25/2017 11:06 (EDT) | 0.33 ft | -0.04 ft | 0.37 ft | 0.74 ft |
| 8651370 | Duck, NC | 09/25/2017 11:12 (EDT) | 0.73 ft | 0.01 ft | 0.72 ft | 0.83 ft |
| 8638863 | Chesapeake Bay Bridge Tunnel, VA | 09/25/2017 11:12 (EDT) | 0.64 ft | -0.12 ft | 0.76 ft | 0.89 ft |

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