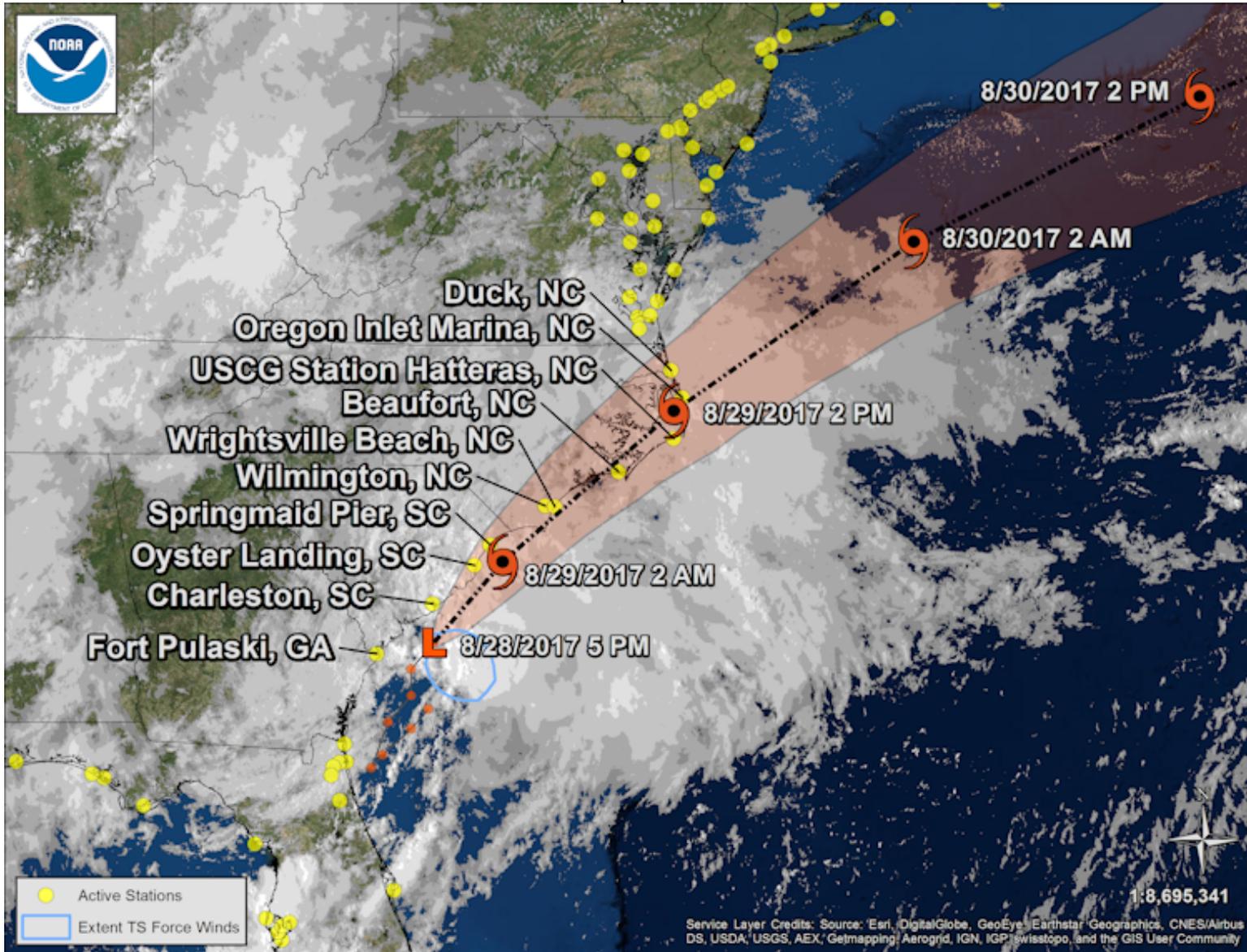


Potential Tropical Cyclone TEN QuickLook
Posted: 18:00 EDT 08/28/2017

NOAA and NOAA Partnership Stations Relative to the Storm



Storm Analysis

As of 08/28/2017 1800 EDT, water levels along the Atlantic coast from Georgia to North Carolina are elevated and range between 1 and 2 feet above normal tide levels. Water levels within Pamlico Sound at Oregon Inlet Marina, NC and USCG Hatteras, NC are near or slightly above normal tide levels by less than a foot.

Winds generally range between 10 and 20 knots with slightly higher gusts, however winds at Duck, NC are measuring 20-30 knots with gusts to 35 kts. Barometric pressure is gradually 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: PFF

SELECT NATIONAL HURRICANE CENTER ADVISORY INFORMATION:

Potential Tropical Cyclone Ten Advisory Number 5
NWS National Hurricane Center Miami FL AL102017
500 PM EDT Mon Aug 28 2017

...AIR FORCE RECONNAISSANCE PLANE FINDS THE DISTURBANCE POORLY ORGANIZED...
...CHANCES TO BECOME A TROPICAL STORM ARE DIMINISHING...

SUMMARY OF 500 PM EDT...2100 UTC...INFORMATION

LOCATION...32.2N 79.9W
ABOUT 40 MI...65 KM S OF CHARLESTON SOUTH CAROLINA
ABOUT 185 MI...295 KM SW OF WILMINGTON NORTH CAROLINA
MAXIMUM SUSTAINED WINDS...40 MPH...65 KM/H
PRESENT MOVEMENT...NE OR 40 DEGREES AT 12 MPH...19 KM/H
MINIMUM CENTRAL PRESSURE...1006 MB...29.71 INCHES

WATCHES AND WARNINGS

CHANGES WITH THIS ADVISORY:

None.

SUMMARY OF WATCHES AND WARNINGS IN EFFECT:

A Tropical Storm Warning is in effect for...

- * North of Surf City to Duck
- * Albemarle Sound
- * Pamlico Sound

A Tropical Storm Watch is in effect for...

- * Surf City to South Santee River

A Tropical Storm Warning means that tropical storm conditions are expected somewhere within the warning area in this case within within the next 12 to 24 hours.

A Tropical Storm Watch means that tropical storm conditions are possible within the watch area, in this case within the next 12 to 24 hours.

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 500 PM EDT (2100 UTC), the area of minimum pressure associated with the disturbance was estimated near latitude 32.2 North, longitude 79.9 West. The system is moving toward the northeast near 12 mph (19 km/h), and this general motion with a gradual increase in forward speed is expected during the next couple of days. On the forecast track, the system will move over or near the coast of South Carolina tonight and move along the North Carolina Outer Banks on Tuesday.

Maximum sustained winds are near 40 mph (65 km/h) with higher gusts. These winds are over water well to the east of the area of minimum pressure. Although the disturbance has not become any better organized today, there is still potential for the system to become a tropical storm during the next 24 hours. After that time, the low should begin to intensify as an extratropical cyclone.

* Formation chance through 48 hours...high...70 percent

* Formation chance through 5 days...high...70 percent

Tropical-storm-force winds extend outward up to 85 miles (140 km) to the east of the area of minimum pressure.

The estimated minimum central pressure is 1006 mb (29.71 inches).

HAZARDS AFFECTING LAND

WIND: Tropical storm conditions are expected within the warning area tonight and Tuesday and tropical storm conditions are possible in the watch area tonight.

RAINFALL: The low is expected to produce total rain accumulations of 3 to 6 inches along the northeastern South Carolina, North Carolina, and southeast Virginia coasts, with possible isolated maximum amounts of 9 inches. The heavier rains may result in some flooding concerns along coastal areas.

SURF: Swells generated by this disturbance will affect portions of the Georgia, South Carolina, and North Carolina coasts during the next day or two, creating dangerous surf and rip current conditions. Please consult products from your local weather office.

TORNADOES: A brief tornado is possible tonight through midday Tuesday along the South Carolina and North Carolina coasts.

NEXT ADVISORY

Next intermediate advisory at 800 PM EDT.

Next complete advisory at 1100 PM EDT.

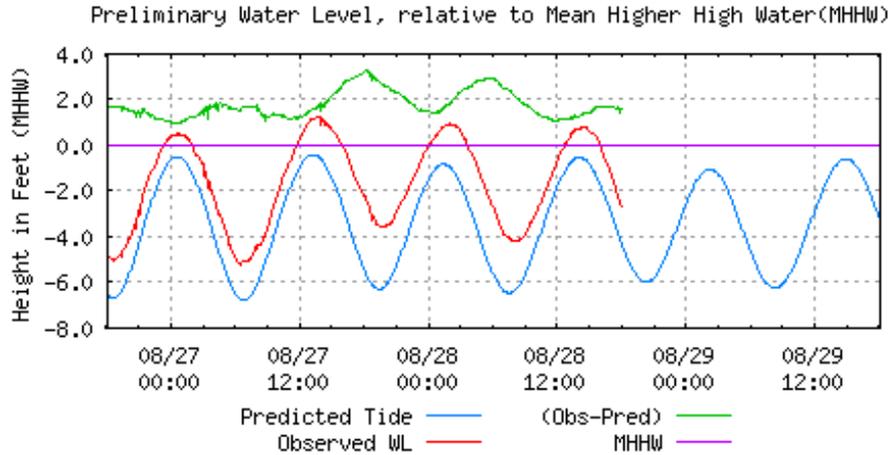
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Forecaster Avila

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.

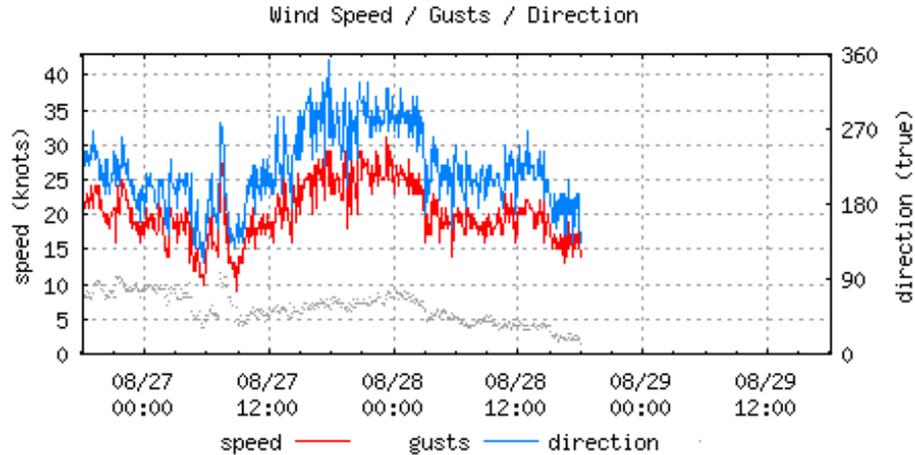
Jump to: [Fort Pulaski - Water Level](#), [Fort Pulaski - Winds](#), [Fort Pulaski - Barometric](#), [Charleston, Cooper River Entrance - Water Level](#), [Charleston, Cooper River Entrance - Winds](#), [Charleston, Cooper River Entrance - Barometric](#), [Oyster Landing \(N Inlet Estuary\) - Water Level](#), [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](#)

NOAA/NOS/CO-OPS 8670870 Fort Pulaski, GA



Last Observed Sample: 08/28/2017 18:00 (EDT). Data relative to MHHW
Observed: -2.70 ft. Predicted: -4.28 ft. Residual: 1.58 ft.
 Historical Maximum Water Level: Oct 15 1947, 3.40 ft.
 Next High Tide: 08/29/2017 02:14 (EDT), -1.03 ft.

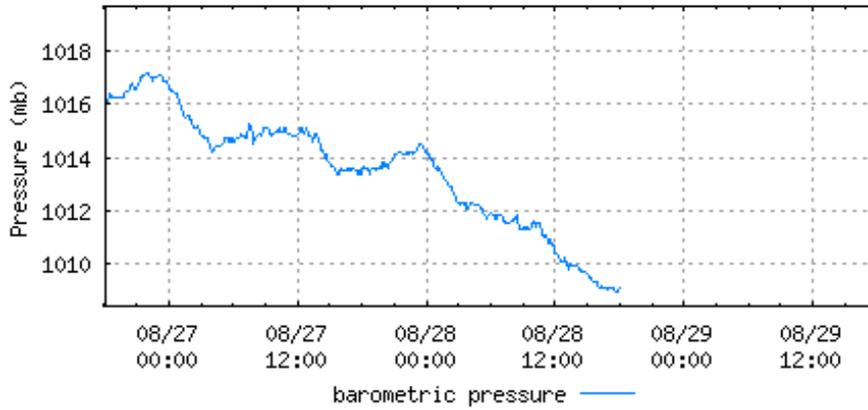
NOAA/NOS/CO-OPS 8670870 Fort Pulaski, GA



Last Observed Sample: 08/28/2017 18:00 (EDT)
Wind Speed: 14 knots Gusts: 16 knots Direction: 13° T

NOAA/NOS/CO-OPS 8670870 Fort Pulaski, GA

Barometric Pressure

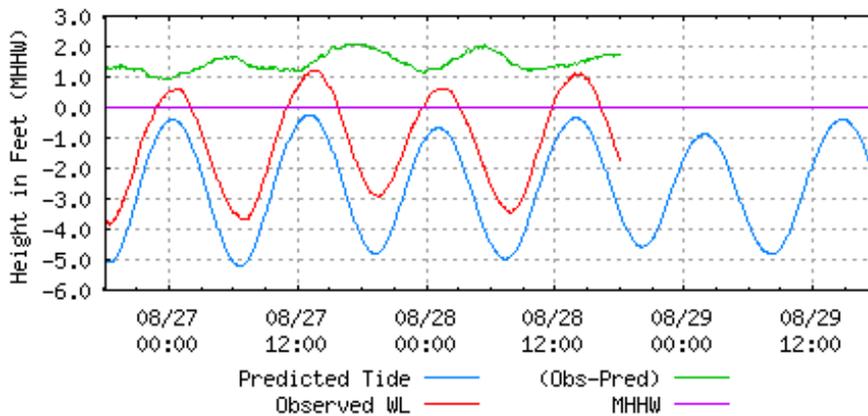


Last Observed Sample: 08/28/2017 18:00 (EDT)

Barometric Pressure: 1009.1 mb

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

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



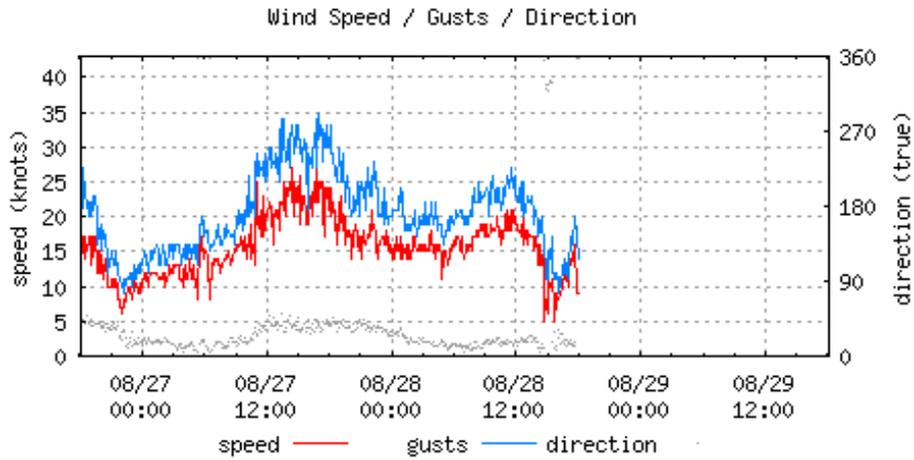
Last Observed Sample: 08/28/2017 18:00 (EDT). Data relative to MHHW

Observed: -1.71 ft. Predicted: -3.43 ft. Residual: 1.72 ft.

Historical Maximum Water Level: Sep 21 1989, 6.76 ft.

Next High Tide: 08/29/2017 01:56 (EDT), -0.88 ft.

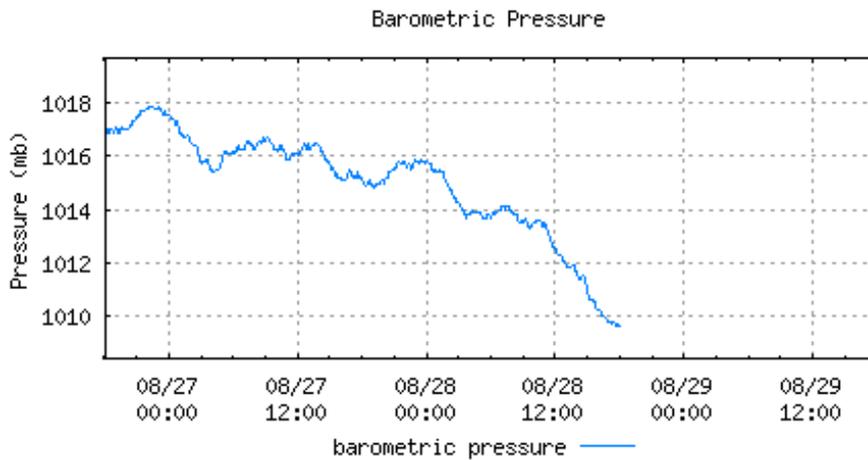
NOAA/NOS/CO-OPS 8665530 Charleston, Cooper River Entrance, SC



Last Observed Sample: 08/28/2017 18:00 (EDT)

Wind Speed: 9 knots Gusts: 14 knots Direction: 358° T

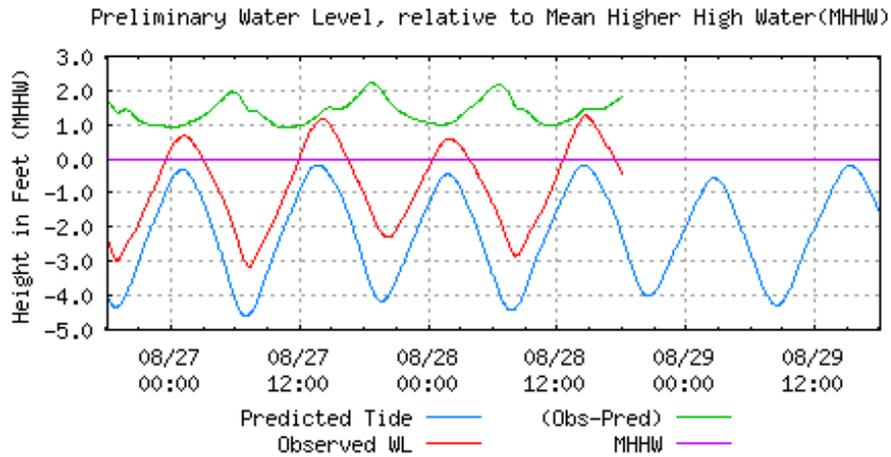
NOAA/NOS/CO-OPS 8665530 Charleston, Cooper River Entrance, SC



Last Observed Sample: 08/28/2017 18:00 (EDT)

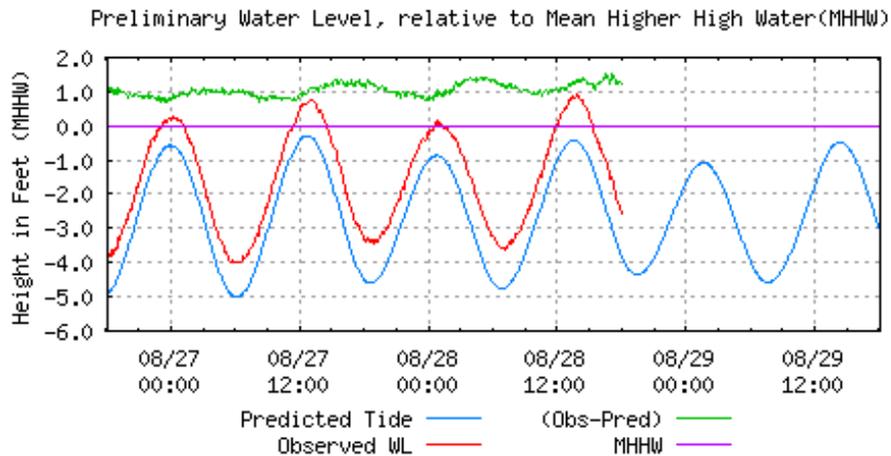
Barometric Pressure: 1009.6 mb

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



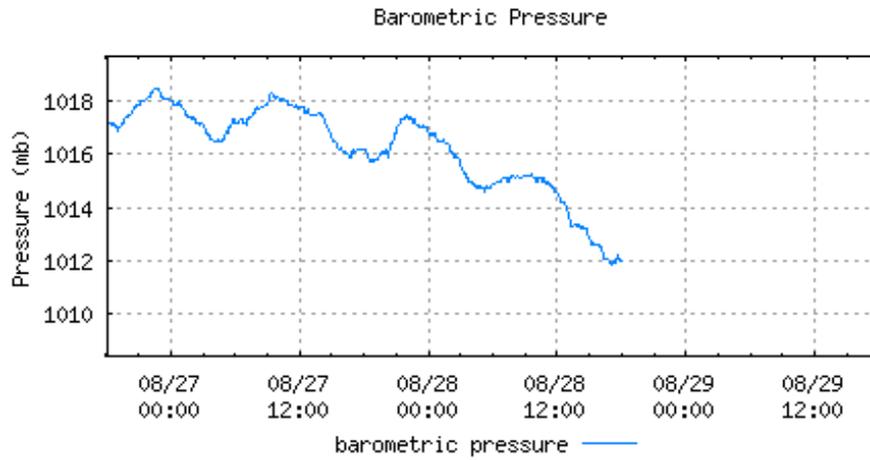
Last Observed Sample: 08/28/2017 18:00 (EDT). Data relative to MHHW
Observed: -0.42 ft. Predicted: -2.23 ft. Residual: 1.81 ft.
 Historical Maximum Water Level: Oct 8 2016, 4.64 ft.
 Next High Tide: 08/29/2017 02:37 (EDT), -0.56 ft.

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



Last Observed Sample: 08/28/2017 18:00 (EDT). Data relative to MHHW
Observed: -2.59 ft. Predicted: -3.81 ft. Residual: 1.22 ft.
 Historical Maximum Water Level: Jan 1 1987, 3.65 ft.
 Next High Tide: 08/29/2017 01:38 (EDT), -1.08 ft.

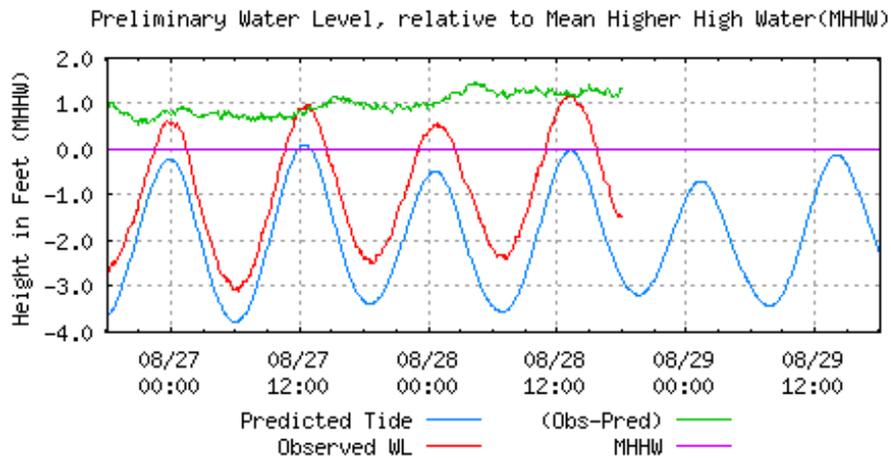
NOAA/NOS/CO-OPS 8661070 Springmaid Pier, SC



Last Observed Sample: 08/28/2017 18:00 (EDT)

Barometric Pressure: 1012.0 mb

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



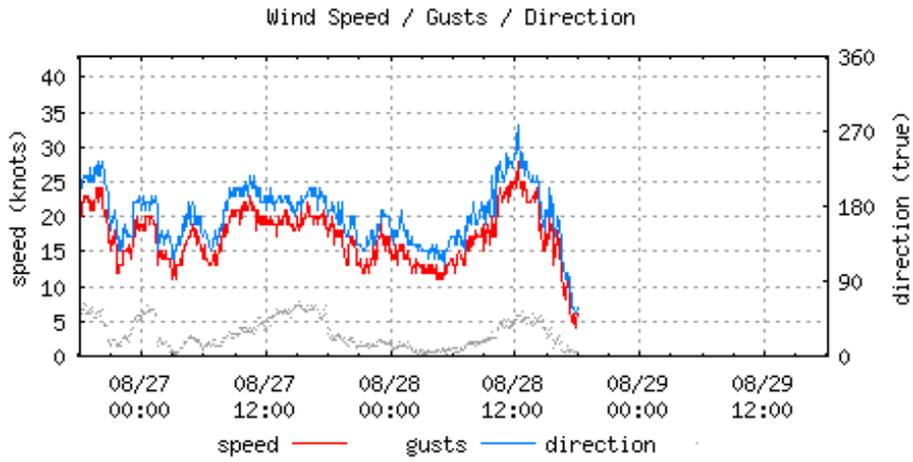
Last Observed Sample: 08/28/2017 18:06 (EDT). Data relative to MHHW

Observed: -1.59 ft. Predicted: -2.85 ft. Residual: 1.26 ft.

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

Next High Tide: 08/29/2017 01:24 (EDT), -0.69 ft.

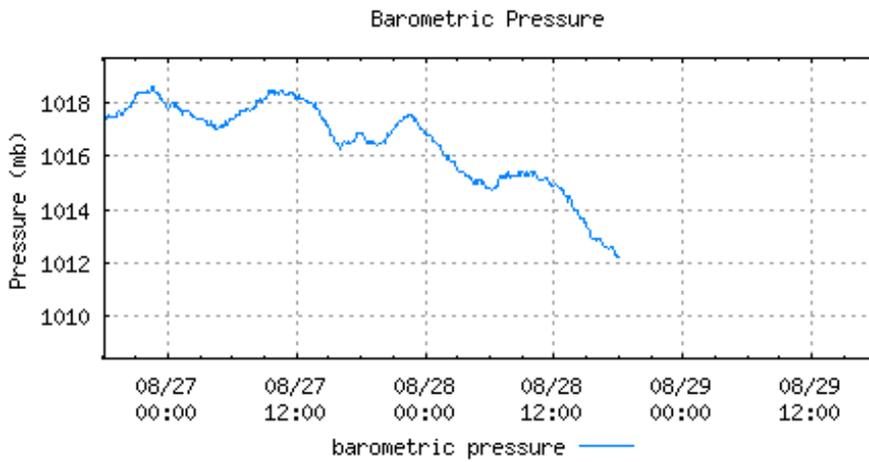
NOAA/NOS/CO-OPS 8658163 Wrightsville Beach, NC



Last Observed Sample: 08/28/2017 18:06 (EDT)

Wind Speed: 6 knots Gusts: 9 knots Direction: 7° T

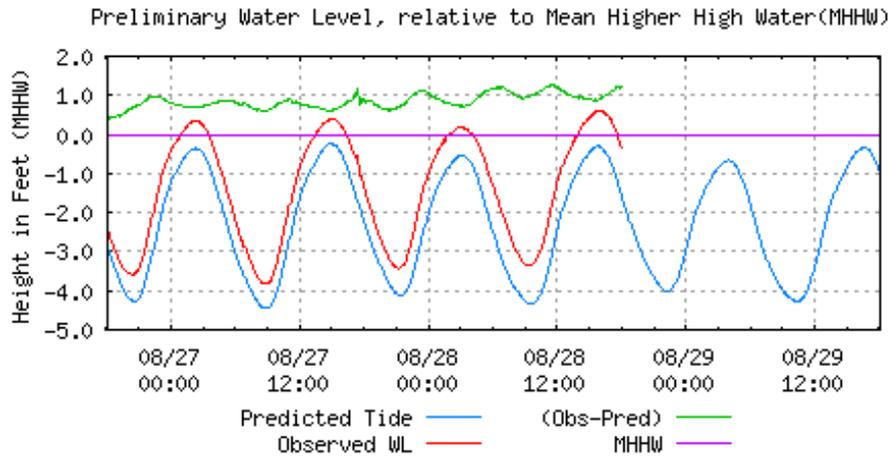
NOAA/NOS/CO-OPS 8658163 Wrightsville Beach, NC



Last Observed Sample: 08/28/2017 18:06 (EDT)

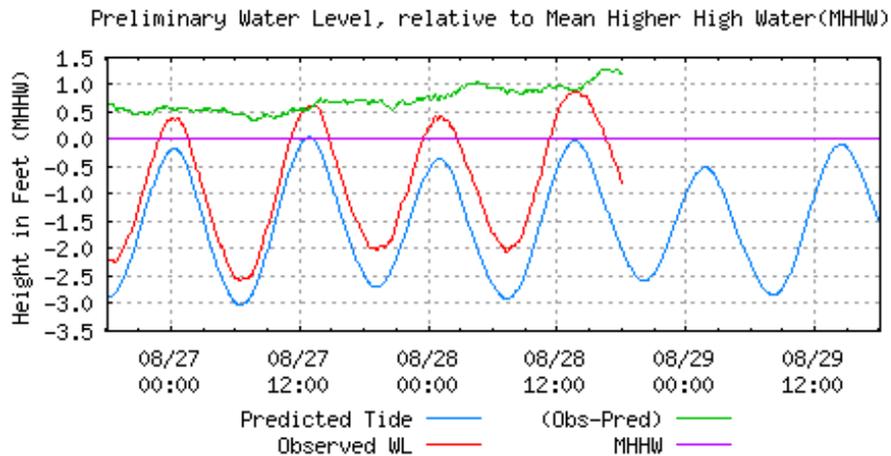
Barometric Pressure: 1012.1 mb

NOAA/NOS/CO-OPS 8658120 Wilmington, NC



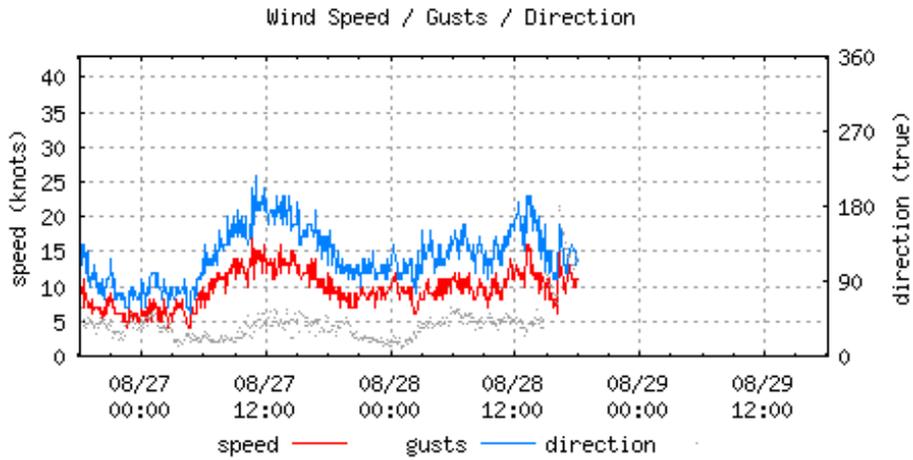
Last Observed Sample: 08/28/2017 18:00 (EDT). Data relative to MHHW
Observed: -0.35 ft. Predicted: -1.57 ft. Residual: 1.22 ft.
 Historical Maximum Water Level: Oct 8 2016, 3.48 ft.
 Next High Tide: 08/29/2017 03:58 (EDT), -0.66 ft.

NOAA/NOS/CO-OPS 8656483 Beaufort, NC



Last Observed Sample: 08/28/2017 18:00 (EDT). Data relative to MHHW
Observed: -0.79 ft. Predicted: -1.99 ft. Residual: 1.20 ft.
 Historical Maximum Water Level: Sep 14 2005, 3.01 ft.
 Next High Tide: 08/29/2017 01:49 (EDT), -0.51 ft.

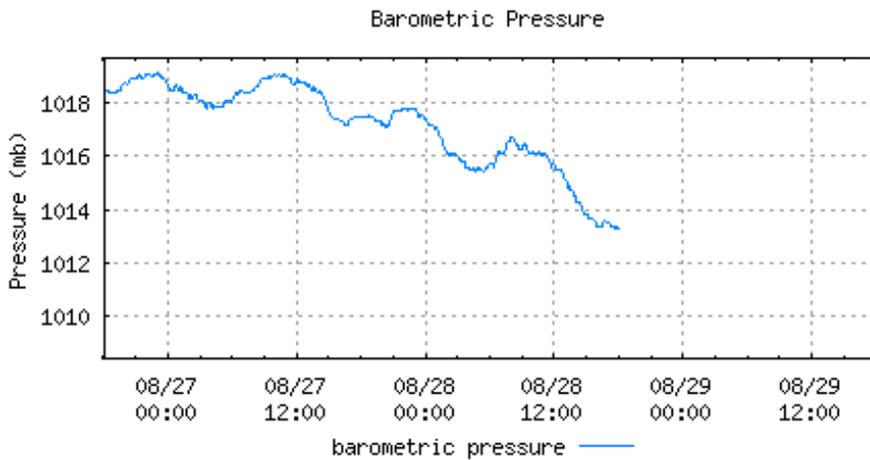
NOAA/NOS/CO-OPS 8656483 Beaufort, NC



Last Observed Sample: 08/28/2017 18:00 (EDT)

Wind Speed: 11 knots Gusts: 14 knots Direction: 116° T

NOAA/NOS/CO-OPS 8656483 Beaufort, NC

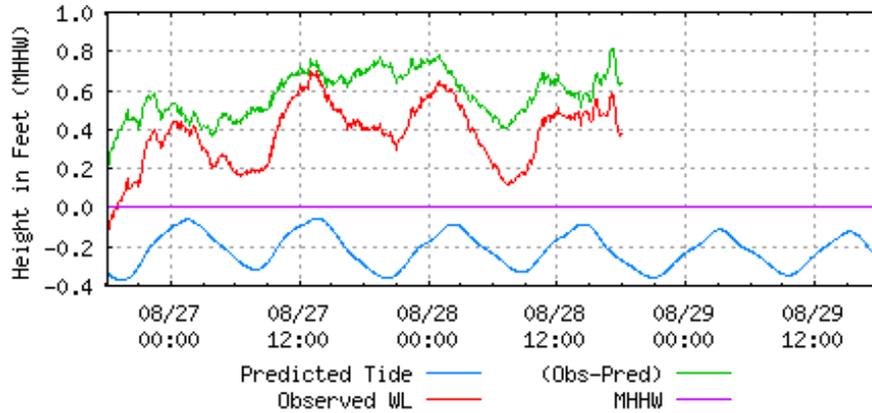


Last Observed Sample: 08/28/2017 18:00 (EDT)

Barometric Pressure: 1013.3 mb

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

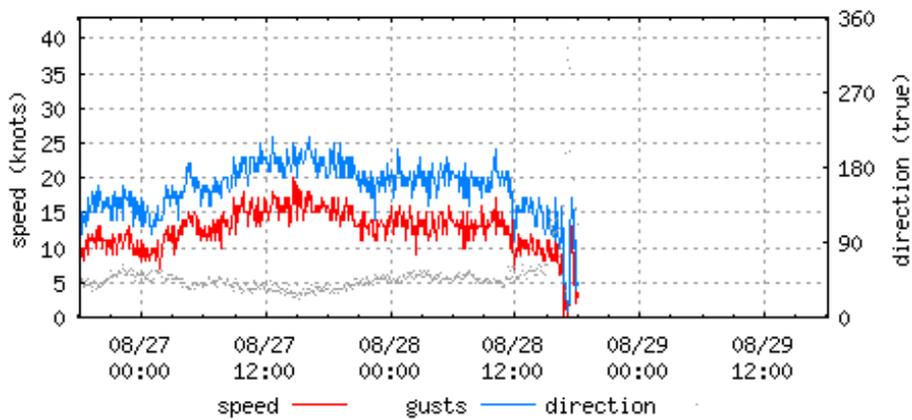
Preliminary Water Level, relative to Mean Higher High Water(MHHW)



Last Observed Sample: 08/28/2017 18:00 (EDT). Data relative to MHHW
Observed: 0.38 ft. Predicted: -0.26 ft. Residual: 0.64 ft.
Historical Maximum Water Level: Oct 9 2016, 5.71 ft.
Next High Tide: 08/29/2017 03:09 (EDT), -0.12 ft.

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

Wind Speed / Gusts / Direction



Last Observed Sample: 08/28/2017 18:00 (EDT)
Wind Speed: 3 knots Gusts: 5 knots Direction: 111° T

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

This data type is not currently available from this station.					
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Last Observed Sample: 08/28/2017 17:54 (EDT). Data relative to MHHW
Observed: -0.32 ft. **Predicted: -0.59 ft.** **Residual: 0.27 ft.**
Historical Maximum Water Level: Aug 28 2011, 6.32 ft.
Next High Tide: 08/29/2017 02:13 (EDT), -0.16 ft.

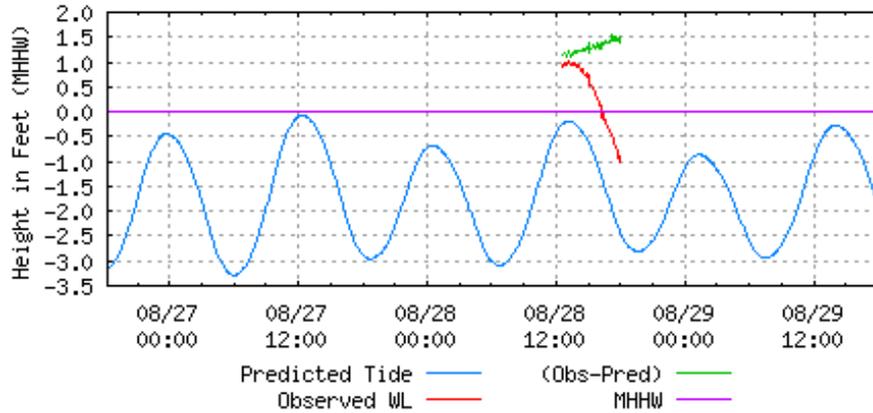
NOAA/NOS/CO-OPS 8652587 Oregon Inlet Marina, NC
NOAA/NOS/CO-OPS

This data type is not currently available from this station.					
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Last Observed Sample: 08/28/2017 17:54 (EDT)
Wind Speed: 20 knots **Gusts: 24 knots** Direction: 43° T

NOAA/NOS/CO-OPS 8651370 Duck, NC

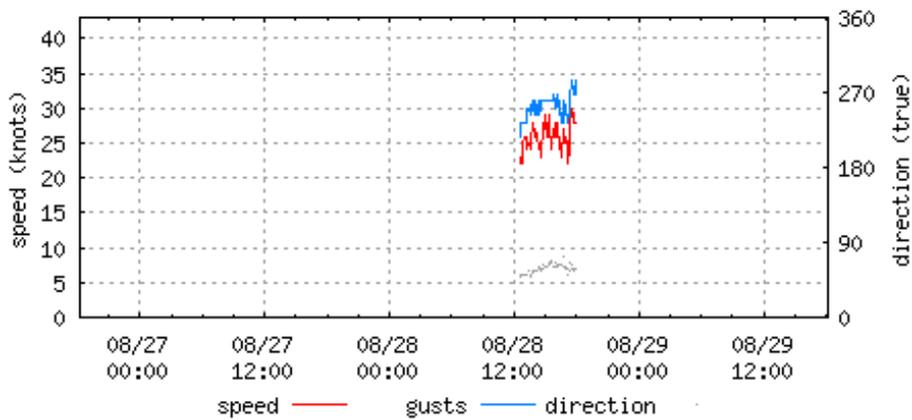
Preliminary Water Level, relative to Mean Higher High Water(MHHW)



Last Observed Sample: 08/28/2017 18:00 (EDT). Data relative to MHHW
Observed: -0.91 ft. Predicted: -2.44 ft. Residual: 1.53 ft.
 Historical Maximum Water Level: Sep 18 2003, 4.13 ft.
 Next High Tide: 08/29/2017 01:19 (EDT), -0.87 ft.

NOAA/NOS/CO-OPS 8651370 Duck, NC

Wind Speed / Gusts / Direction



Last Observed Sample: 08/28/2017 18:00 (EDT)
Wind Speed: 28 knots Gusts: 34 knots Direction: 59° 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
8670870	Fort Pulaski, GA	08/28/2017 18:00 (EDT)	-2.70 ft	-4.28 ft	1.58 ft	0.94 ft
8665530	Charleston, Cooper River Entrance, SC	08/28/2017 18:00 (EDT)	-1.71 ft	-3.43 ft	1.72 ft	1.11 ft
8662245	Oyster Landing (N Inlet Estuary), SC	08/28/2017 18:00 (EDT)	-0.42 ft	-2.23 ft	1.81 ft	1.25 ft
8661070	Springmaid Pier, SC	08/28/2017 18:00 (EDT)	-2.59 ft	-3.81 ft	1.22 ft	0.92 ft
8658163	Wrightsville Beach, NC	08/28/2017 18:06 (EDT)	-1.59 ft	-2.85 ft	1.26 ft	1.23 ft
8658120	Wilmington, NC	08/28/2017 18:00 (EDT)	-0.35 ft	-1.57 ft	1.22 ft	0.60 ft
8656483	Beaufort, NC	08/28/2017 18:00 (EDT)	-0.79 ft	-1.99 ft	1.20 ft	0.89 ft
8654467	USCG Station Hatteras, NC	08/28/2017 18:00 (EDT)	0.38 ft	-0.26 ft	0.64 ft	0.65 ft
8652587	Oregon Inlet Marina, NC	08/28/2017 17:54 (EDT)	-0.32 ft	-0.59 ft	0.27 ft	0.09 ft
8651370	Duck, NC	08/28/2017 18:00 (EDT)	-0.91 ft	-2.44 ft	1.53 ft	1.04 ft

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