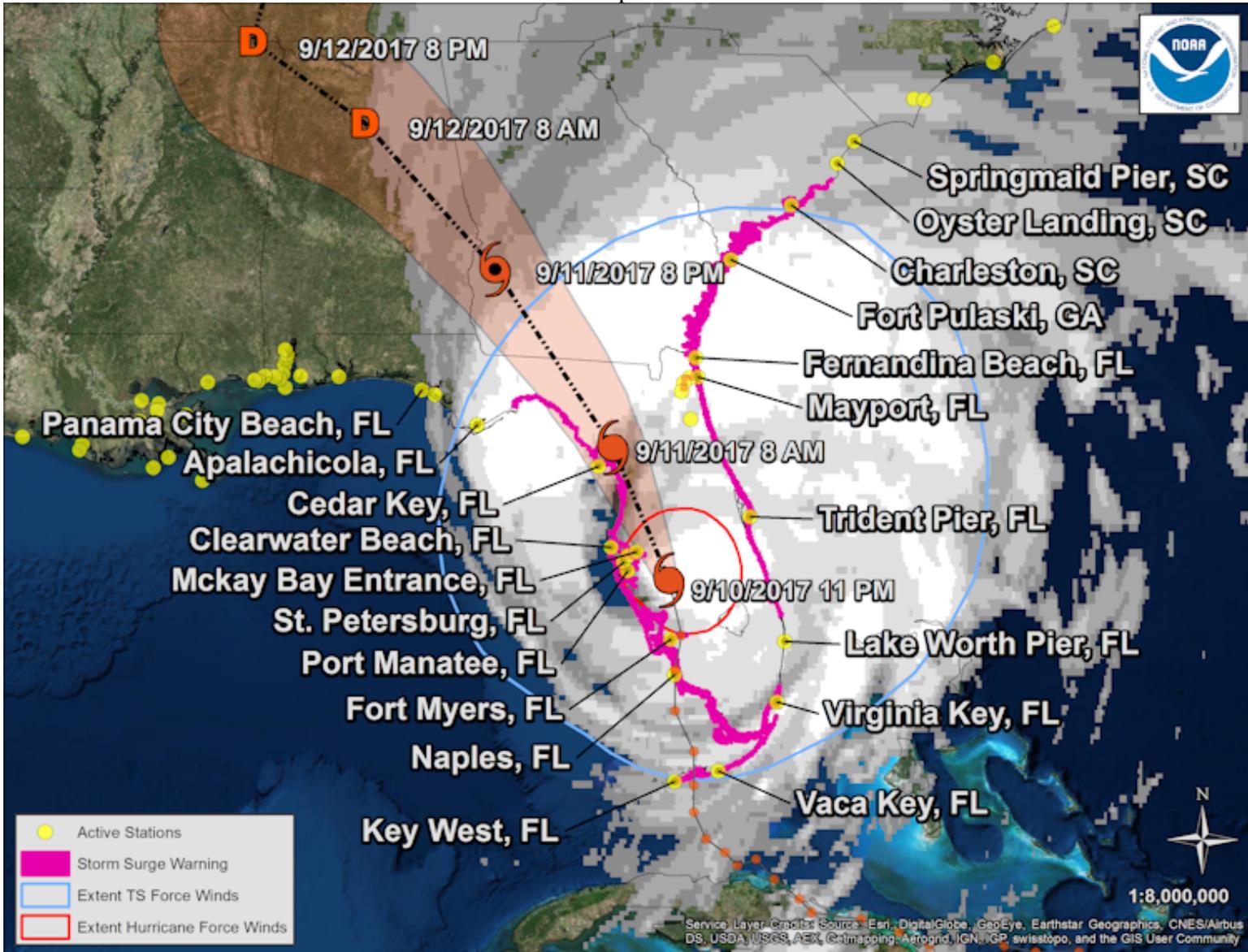




Hurricane IRMA QuickLook  
 Posted: 00:00 EDT 09/11/2017

NOAA and NOAA Partnership Stations Relative to the Storm



### Storm Analysis

As of 09/11/2017 00:00 EDT, Irma continues to spin over central Florida.

Water levels at Naples and Ft. Myers have risen dramatically this evening as Irma passed north and onshore winds have surged water back to the coast. At those locations, water levels are running 1 to 4 feet above tidal predictions. Further north along the Gulf coast from the Tampa Bay region to Panama City Beach, water levels due to offshore

(easterly winds) are currently running 1 to 6 feet below tidal predictions. As Irma moves north during the night, water levels will increase substantially in the Tampa Bay region. Within the Florida Keys and up the east coast of Florida, water levels are currently running 1 to 4 feet above tide predictions. The highest residuals at this time are at Trident Pier near Port Canaveral.

Winds in central Florida range from 40 to 60 knots with gusts up to 80 knots. Winds within the Florida Keys are less and range from 20 to 30 knots. As Irma continues to move north, winds are increasing considerably across central and northern Florida. Barometric pressure continues to rapidly fall across central and northern Florida and has begun to rise within the Florida Keys.

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 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: CRD

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**SELECT NATIONAL HURRICANE CENTER ADVISORY INFORMATION:**

Hurricane Irma Advisory Number 48  
NWS National Hurricane Center Miami FL  
1100 PM EDT Sun Sep 10 2017  
...IRMA PRODUCING HURRICANE-FORCE WINDS ACROSS PORTIONS OF CENTRAL  
FLORIDA...

**SUMMARY OF 1100 PM EDT...INFORMATION**  
-----

LOCATION...27.5N 81.9W  
ABOUT 40 MI...65 KM ENE OF SARASOTA FLORIDA  
ABOUT 50 MI...80 KM SE OF TAMPA FLORIDA  
MAXIMUM SUSTAINED WINDS...100 MPH  
PRESENT MOVEMENT...N OR 350 DEGREES AT 14 MPH  
MINIMUM CENTRAL PRESSURE...952 MB

**WATCHES AND WARNINGS**  
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**CHANGES WITH THIS ADVISORY:**

The Hurricane Warning has been changed to a Tropical Storm Warning from Jupiter Inlet southward around the Florida peninsula to Bonita Beach, as well as for the Florida Keys and Florida Bay.

**SUMMARY OF WATCHES AND WARNINGS IN EFFECT:**

A Storm Surge Warning is in effect for...  
\* South Santee River southward to Jupiter Inlet  
\* North Miami Beach southward around the Florida peninsula to the

## Ochlockonee River

- \* Florida Keys
- \* Tampa Bay

## A Hurricane Warning is in effect for...

- \* North of Jupiter Inlet to Fernandina Beach
- \* North of Bonita Beach to Indian Pass
- \* Lake Okeechobee

## A Hurricane Watch is in effect for...

- \* North of Fernandina Beach to Edisto Beach

## A Tropical Storm Warning is in effect for...

- \* Jupiter Inlet southward around the Florida peninsula to Bonita Beach
- \* Florida Keys
- \* Florida Bay
- \* West of Indian Pass to the Okaloosa/Walton County Line
- \* North of Fernandina Beach to South Santee River

## A Tropical Storm Warning is in effect for...

- \* Bimini and Grand Bahama

A Storm Surge Warning means there is a danger of life-threatening inundation, from rising water moving inland from the coastline, during the next 36 hours in the indicated locations. For a depiction of areas at risk, please see the National Weather Service Storm Surge Watch/Warning Graphic, available at [hurricanes.gov](http://hurricanes.gov). This is a life-threatening situation. Persons located within these areas should take all necessary actions to protect life and property from rising water and the potential for other dangerous conditions. Promptly follow evacuation and other instructions from local officials.

Interests elsewhere in the southeastern United States should monitor the progress of Irma.

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 1100 PM EDT, the center of Hurricane Irma was located by NOAA Doppler radar near latitude 27.5 North, longitude 81.9 West. Irma is moving toward the north near 14 mph. A turn toward the north-northwest and then northwest at a faster forward speed is expected during the next day or so. On the forecast track, the center of Irma will continue to move over the western Florida peninsula through Monday morning and then into the southeastern United States late Monday and Tuesday.

Doppler radar data indicate that maximum sustained winds have decreased to near 100 mph with higher gusts. Additional weakening is forecast, and Irma is expected to become a tropical storm over far northern Florida or southern Georgia on Monday.

Irma has a very large wind field. Hurricane-force winds extend outward up to 80 miles from the center, and tropical-storm- force winds extend outward up to 415 miles.

The estimated minimum central pressure is 952 mb.

#### HAZARDS AFFECTING LAND

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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 Sable to Captiva...4 to 6 ft

Captiva to Anna Maria Island...3 to 5 ft

North Miami Beach to Cape Sable, including the Florida Keys...3 to 5 ft

Anna Maria Island to Clearwater Beach, including Tampa Bay...2 to 4 ft

South Santee River to Fernandina Beach...4 to 6 ft

Clearwater Beach to Ochlockonee River...4 to 6 ft

Fernandina Beach to Jupiter Inlet...3 to 5 ft

The deepest water will occur along the immediate coast in areas of onshore winds, where the surge will be accompanied by large and destructive waves. 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.

WIND: Hurricane conditions are continuing across portions of the central Florida peninsula. Winds affecting the upper floors of high-rise buildings will be significantly stronger than those near ground level. Tropical storm conditions will continue across portions of southern Florida and the Florida Keys through Monday morning. Tropical storm and hurricane conditions are expected to spread northward across the remainder of the warning areas through Monday. Tropical storm conditions are expected in portions of the warning area in the Northwestern Bahamas overnight.

RAINFALL: Irma is expected to produce the following rain accumulations through Wednesday:

Western Bahamas...Additional 2 to 4 inches.

The Florida Keys...Additional 1 inch possible with storm total amounts from 15 to 20 inches, isolated 25 inches.

Western Florida peninsula...10 to 15 inches, isolated 20 inches.

Eastern Florida peninsula and southeast Georgia...8 to 12 inches, isolated 16 inches.

The rest of Georgia, the eastern Florida Panhandle, southern and western South Carolina, and western North Carolina...3 to 8 inches, isolated 12 inches.

Southern Tennessee, northern Mississippi and much of Alabama...2 to 5 inches.

In all areas this rainfall may cause life-threatening flash floods.

TORNADOES: A few tornadoes are possible across northeast Florida and southeast portions of Georgia and South Carolina through Monday night.

SURF: Swells generated by Irma are affecting the southeast coast of the United States. These swells are likely to cause life-threatening surf and rip current conditions. Please consult products from your local weather office.

#### NEXT ADVISORY

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Next intermediate advisory at 200 AM EDT.

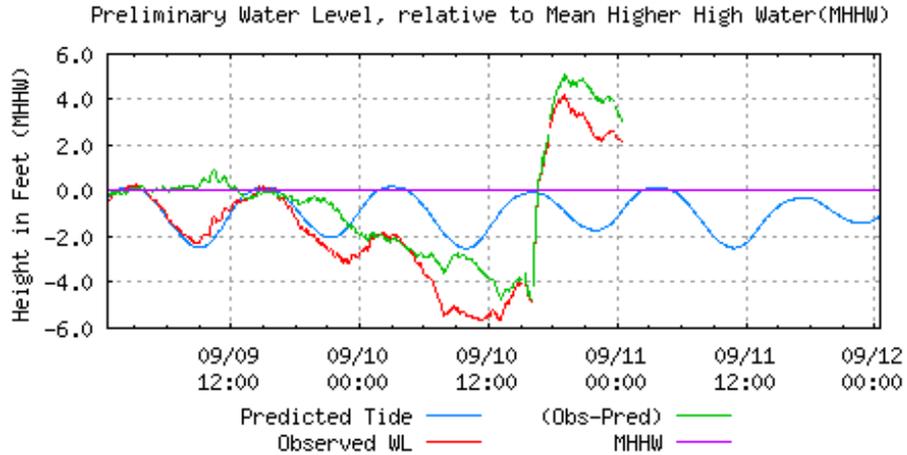
Next complete advisory at 500 AM EDT.

Forecaster Berg

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.

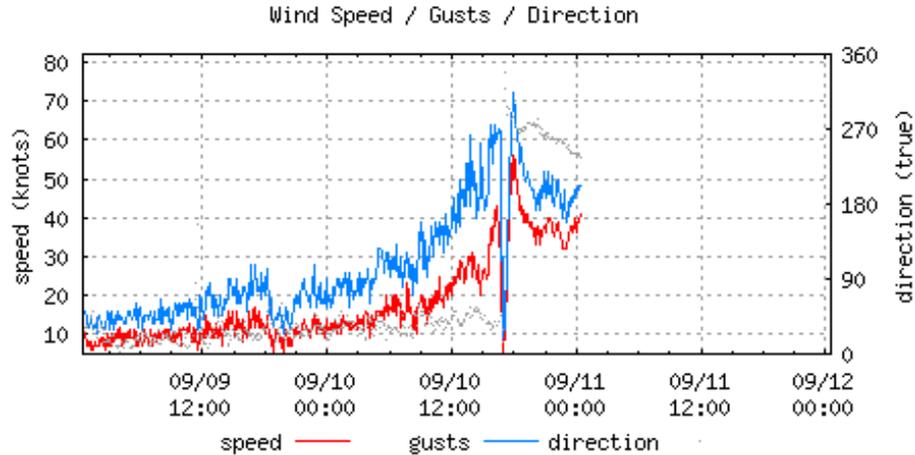
Jump to: [Naples, Gulf of Mexico - Water Level](#), [Naples, Gulf of Mexico - Winds](#), [Naples, Gulf of Mexico - Barometric](#), [Fort Myers, Caloosahatchee River - Water Level](#), [Fort Myers, Caloosahatchee River - Winds](#), [Fort Myers, Caloosahatchee River - Barometric](#), [Port Manatee - Water Level](#), [Port Manatee - Barometric](#), [St Petersburg, Tampa Bay - Water Level](#), [St Petersburg, Tampa Bay - Winds](#), [St Petersburg, Tampa Bay - Barometric](#), [Mckay Bay Entrance - Water Level](#), [Clearwater Beach - Water Level](#), [Clearwater Beach - Winds](#), [Clearwater Beach - Barometric](#), [Cedar Key - Water Level](#), [Cedar Key - Winds](#), [Cedar Key - Barometric](#), [Apalachicola - Water Level](#), [Apalachicola - Winds](#), [Apalachicola - Barometric](#), [Panama City Beach - Water Level](#), [Panama City Beach - Winds](#), [Panama City Beach - Barometric](#), [Key West - Water Level](#), [Key West - Winds](#), [Key West - Barometric](#), [Vaca Key, Florida Bay - Water Level](#), [Vaca Key, Florida Bay - Winds](#), [Vaca Key, Florida Bay - Barometric](#), [Virginia Key, Biscayne Bay - Water Level](#), [Virginia Key, Biscayne Bay - Winds](#), [Virginia Key, Biscayne Bay - Barometric](#), [Lake Worth Pier, Atlantic Ocean - Water Level](#), [Lake Worth Pier, Atlantic Ocean - Winds](#), [Trident Pier, Port Canaveral - Water Level](#), [Trident Pier, Port Canaveral - Winds](#), [Trident Pier, Port Canaveral - Barometric](#), [Mayport \(Bar Pilots Dock\) - Water Level](#), [Mayport \(Bar Pilots Dock\) - Winds](#), [Mayport \(Bar Pilots Dock\) - Barometric](#), [Fernandina Beach - Water Level](#), [Fernandina Beach - Winds](#), [Fernandina Beach - Barometric](#), [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](#)

NOAA/NOS/CO-OPS 8725110 Naples, Gulf of Mexico, FL



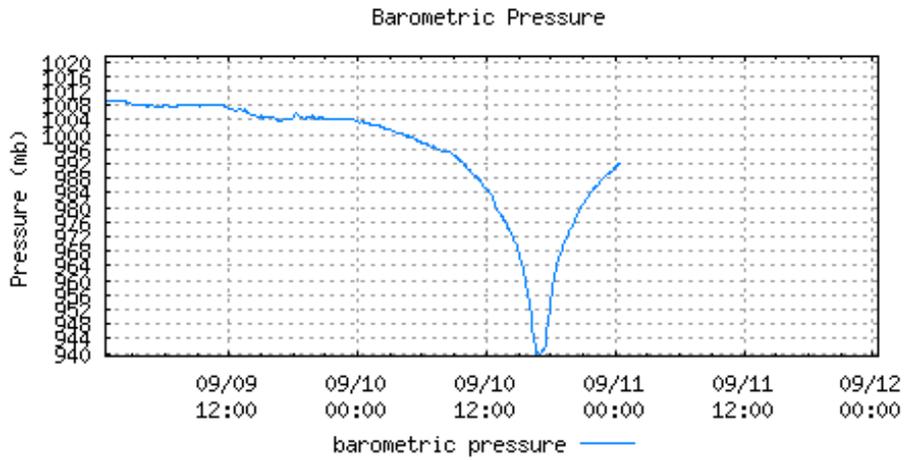
Last Observed Sample: 09/11/2017 00:24 (EDT). Data relative to MHHW  
**Observed: 2.19 ft. Predicted: -0.91 ft. Residual: 3.10 ft.**  
Historical Maximum Water Level: Dec 21 1972, 3.11 ft.  
Next High Tide: 09/11/2017 03:40 (EDT), 0.18 ft.

NOAA/NOS/CO-OPS 8725110 Naples, Gulf of Mexico, FL



Last Observed Sample: 09/11/2017 00:24 (EDT)  
**Wind Speed: 41 knots Gusts: 48 knots Direction: 236° T**

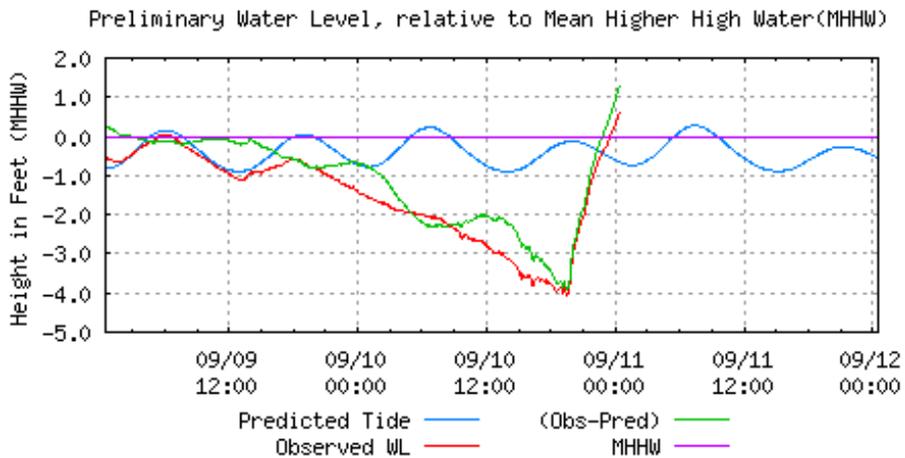
NOAA/NOS/CO-OPS 8725110 Naples, Gulf of Mexico, FL



Last Observed Sample: 09/11/2017 00:24 (EDT)

Barometric Pressure: 992.1 mb

NOAA/NOS/CO-OPS 8725520 Fort Myers, Caloosahatchee River, FL



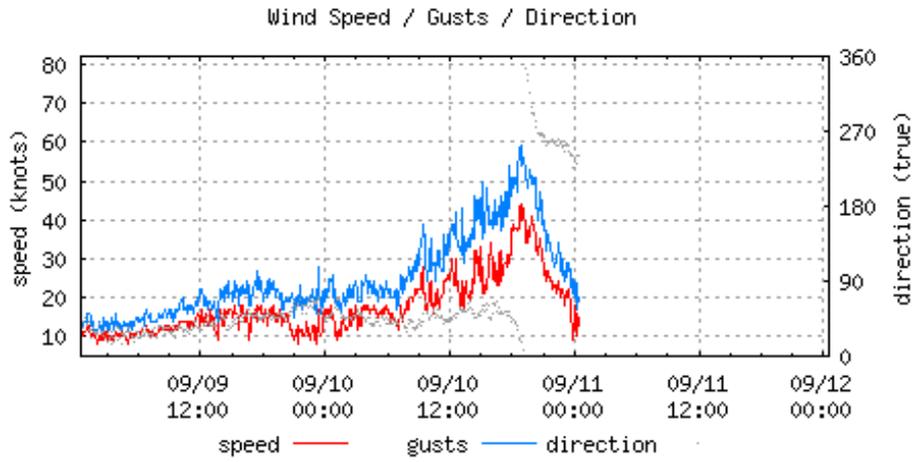
Last Observed Sample: 09/11/2017 00:24 (EDT). Data relative to MHHW

Observed: 0.59 ft. Predicted: -0.66 ft. Residual: 1.25 ft.

Historical Maximum Water Level: Nov 23 1988, 3.41 ft.

Next High Tide: 09/11/2017 07:25 (EDT), 0.27 ft.

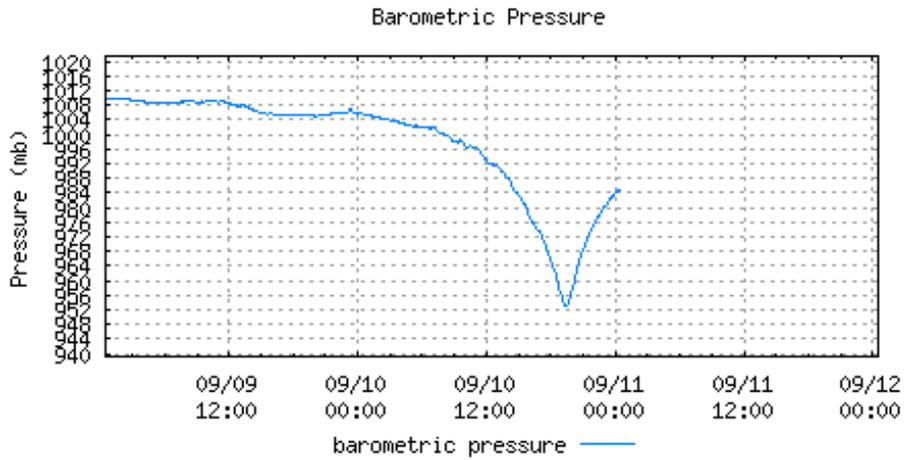
NOAA/NOS/CO-OPS 8725520 Fort Myers, Caloosahatchee River, FL



Last Observed Sample: 09/11/2017 00:24 (EDT)

Wind Speed: 15 knots Gusts: 20 knots Direction: 241° T

NOAA/NOS/CO-OPS 8725520 Fort Myers, Caloosahatchee River, FL

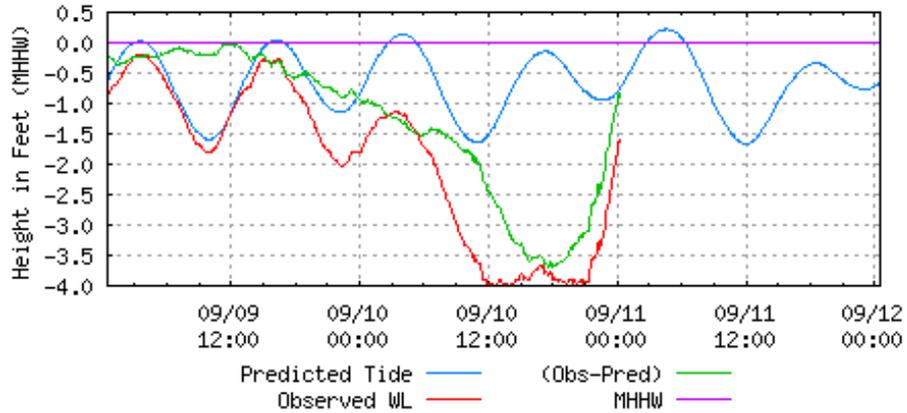


Last Observed Sample: 09/11/2017 00:24 (EDT)

Barometric Pressure: 984.8 mb

NOAA/NOS/CO-OPS 8726384 Port Manatee, FL

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



Last Observed Sample: 09/11/2017 00:18 (EDT). Data relative to MHHW

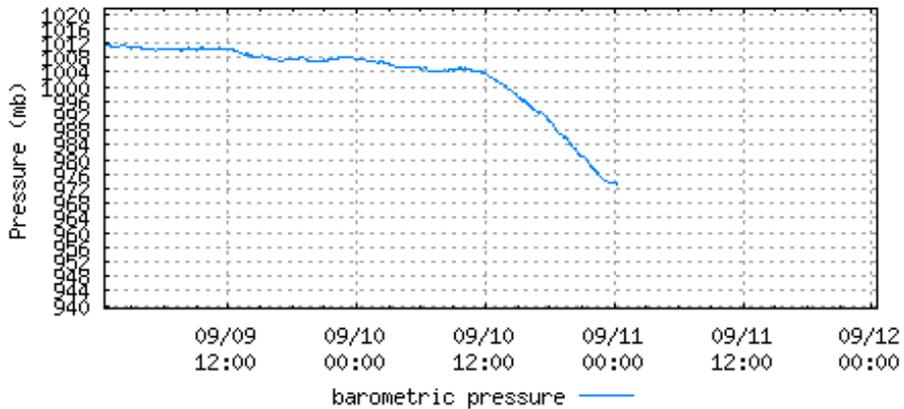
Observed: -1.64 ft. Predicted: -0.74 ft. Residual: -0.90 ft.

Historical Maximum Water Level: Sep 6 2004, 2.29 ft.

Next High Tide: 09/11/2017 04:35 (EDT), 0.22 ft.

NOAA/NOS/CO-OPS 8726384 Port Manatee, FL

Barometric Pressure

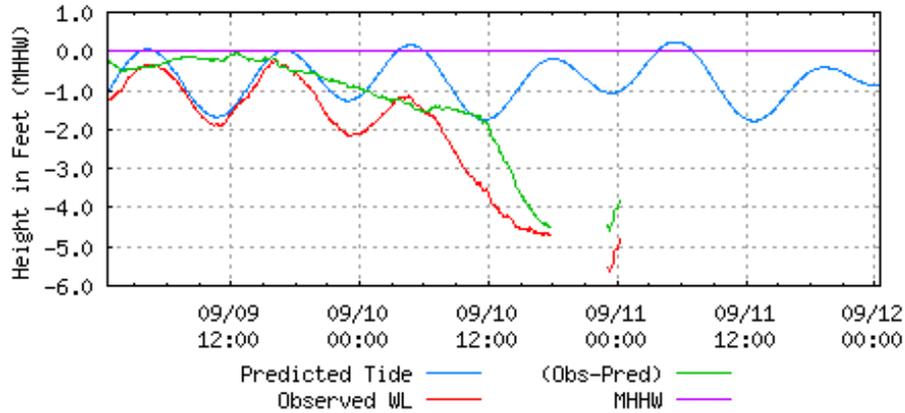


Last Observed Sample: 09/11/2017 00:18 (EDT)

Barometric Pressure: 973.3 mb

NOAA/NOS/CO-OPS 8726520 St Petersburg, Tampa Bay, FL

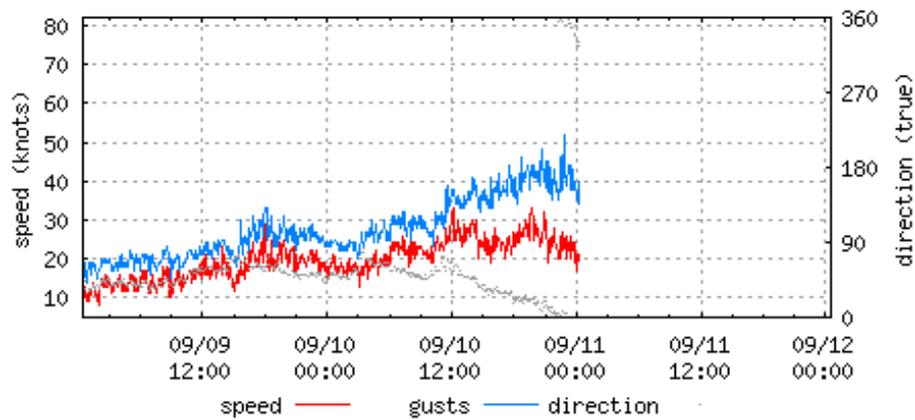
Preliminary Water Level, relative to Mean Higher High Water (MHHW)



Last Observed Sample: 09/11/2017 00:18 (EDT). Data relative to MHHW  
**Observed: -4.83 ft. Predicted: -1.01 ft. Residual: -3.82 ft.**  
 Historical Maximum Water Level: Aug 31 1985, 4.00 ft.  
 Next High Tide: 09/11/2017 05:24 (EDT), 0.25 ft.

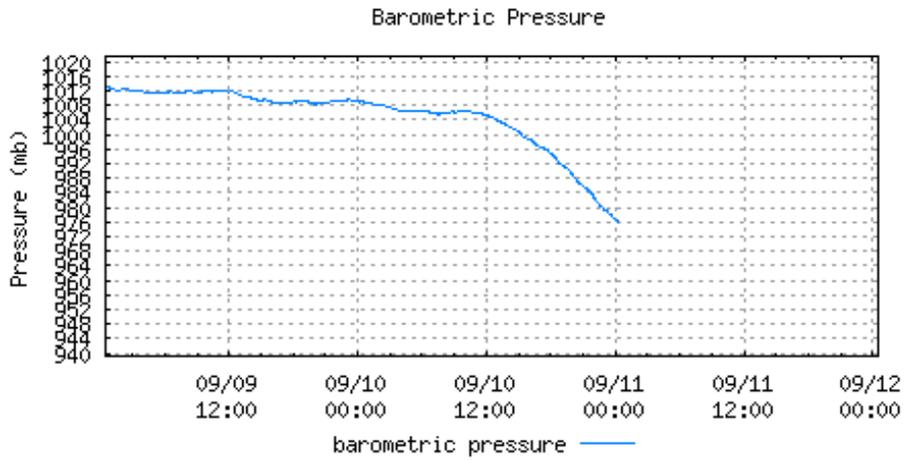
NOAA/NOS/CO-OPS 8726520 St Petersburg, Tampa Bay, FL

Wind Speed / Gusts / Direction



Last Observed Sample: 09/11/2017 00:18 (EDT)  
**Wind Speed: 21 knots Gusts: 40 knots Direction: 325° T**

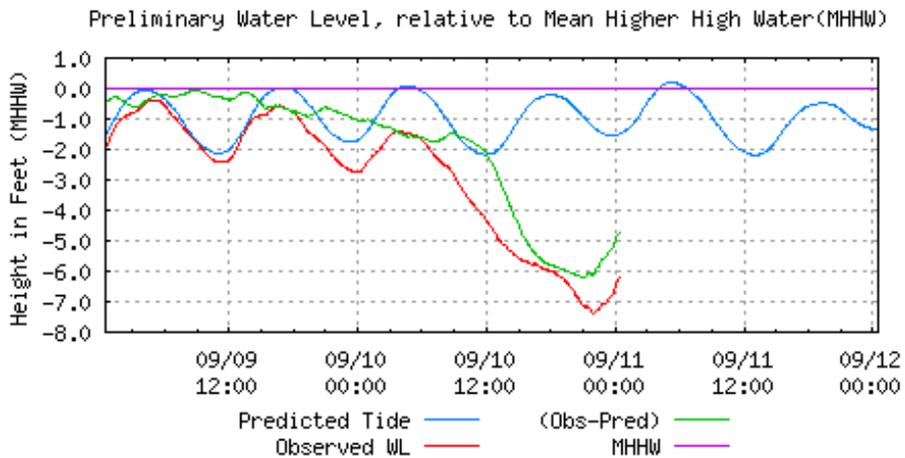
NOAA/NOS/CO-OPS 8726520 St Petersburg, Tampa Bay, FL



Last Observed Sample: 09/11/2017 00:18 (EDT)

Barometric Pressure: 976.1 mb

NOAA/NOS/CO-OPS 8726667 Mckay Bay Entrance, FL



Last Observed Sample: 09/11/2017 00:24 (EDT). Data relative to MHHW

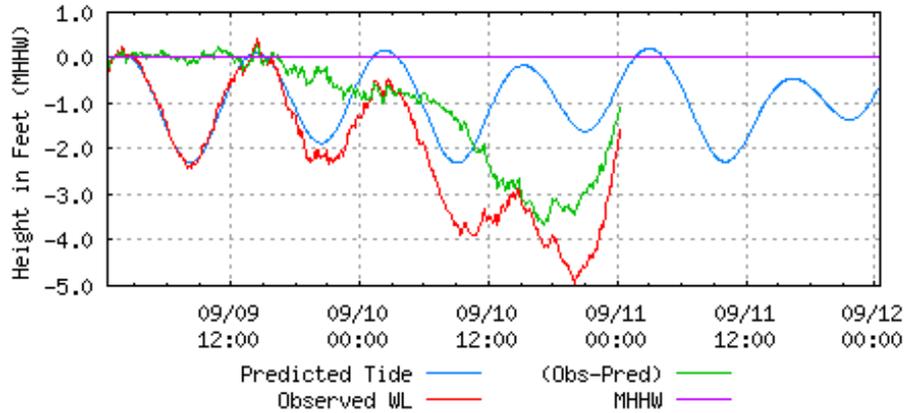
Observed: -6.21 ft. Predicted: -1.49 ft. Residual: -4.72 ft.

Historical Maximum Water Level: Oct 8 1996, 4.32 ft.

Next High Tide: 09/11/2017 05:13 (EDT), 0.20 ft.

NOAA/NOS/CO-OPS 8726724 Clearwater Beach, FL

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



Last Observed Sample: 09/11/2017 00:18 (EDT). Data relative to MHHW

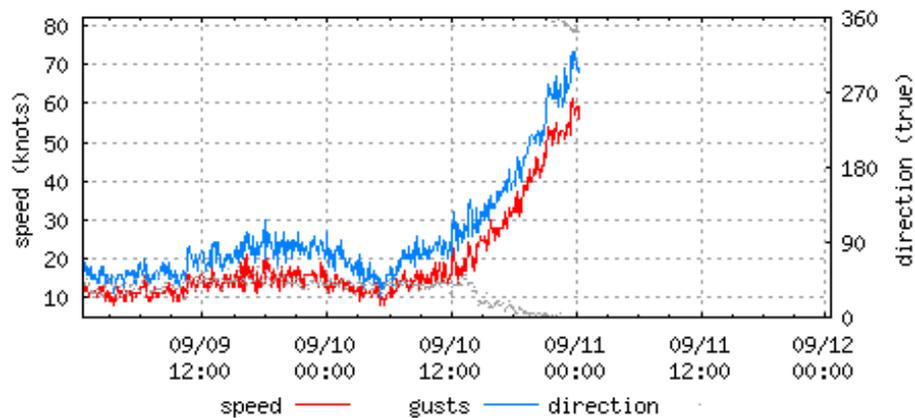
Observed: -1.58 ft. Predicted: -0.50 ft. Residual: -1.08 ft.

Historical Maximum Water Level: Mar 13 1993, 4.00 ft.

Next High Tide: 09/11/2017 02:57 (EDT), 0.20 ft.

NOAA/NOS/CO-OPS 8726724 Clearwater Beach, FL

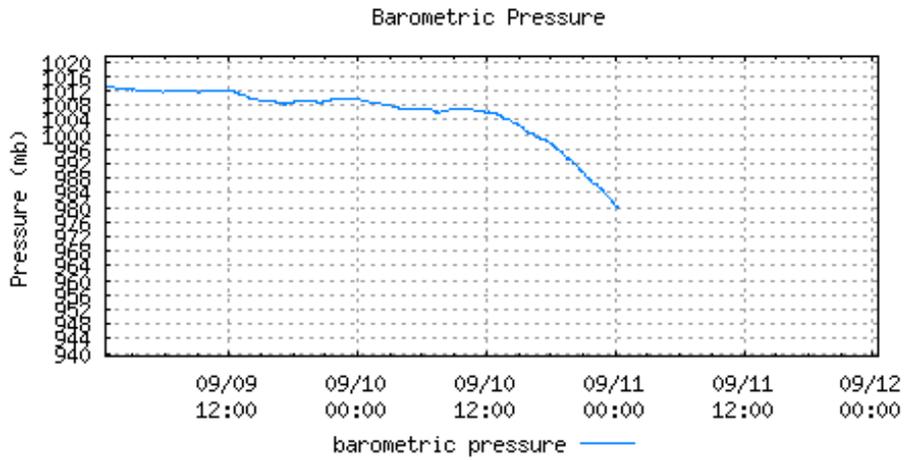
Wind Speed / Gusts / Direction



Last Observed Sample: 09/11/2017 00:18 (EDT)

Wind Speed: 56 knots Gusts: 69 knots Direction: 342° T

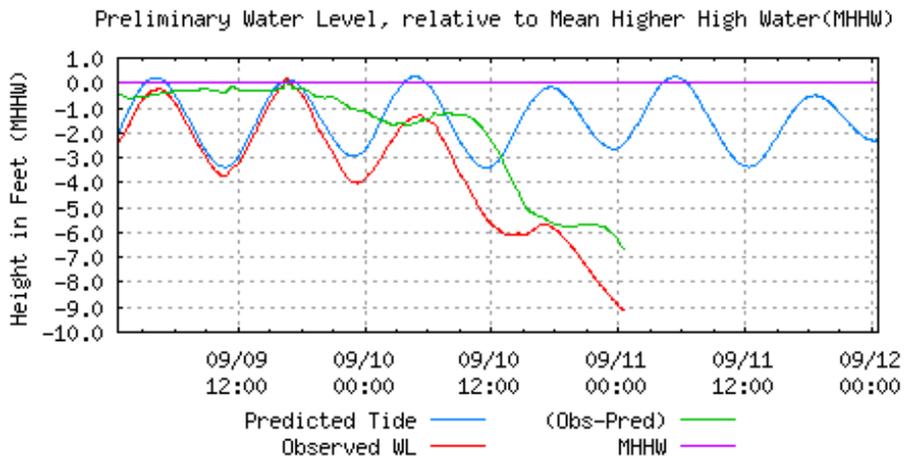
NOAA/NOS/CO-OPS 8726724 Clearwater Beach, FL



Last Observed Sample: 09/11/2017 00:18 (EDT)

Barometric Pressure: 979.9 mb

NOAA/NOS/CO-OPS 8727520 Cedar Key, FL



Last Observed Sample: 09/11/2017 00:24 (EDT). Data relative to MHHW

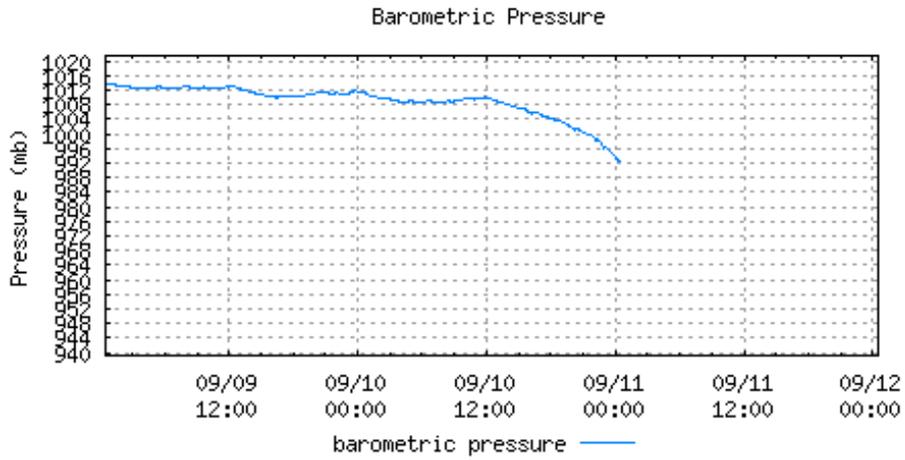
Observed: -9.07 ft. Predicted: -2.49 ft. Residual: -6.58 ft.

Historical Maximum Water Level: Oct 7 1996, 5.15 ft.

Next High Tide: 09/11/2017 05:21 (EDT), 0.25 ft.

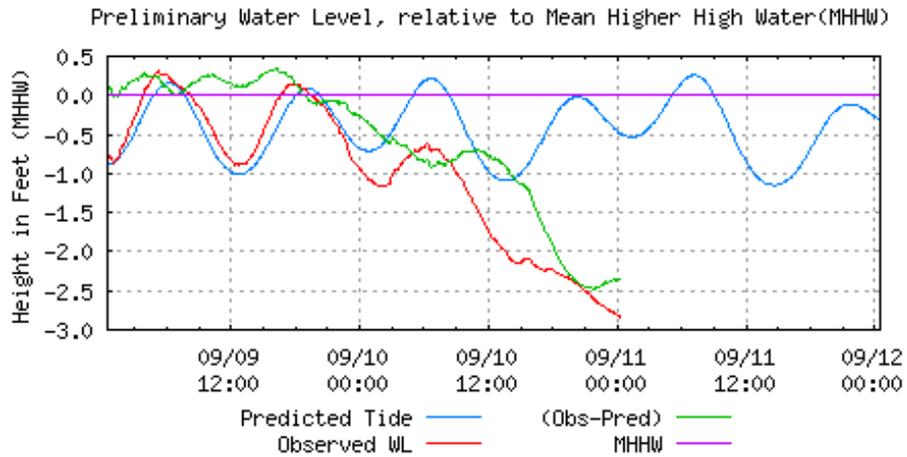
NOAA/NOS/CO-OPS 8727520 Cedar Key, FL  
Last Observed Sample: 09/11/2017 00:24 (EDT)  
Wind Speed: 20 knots Gusts: 35 knots Direction: 5° T

NOAA/NOS/CO-OPS 8727520 Cedar Key, FL



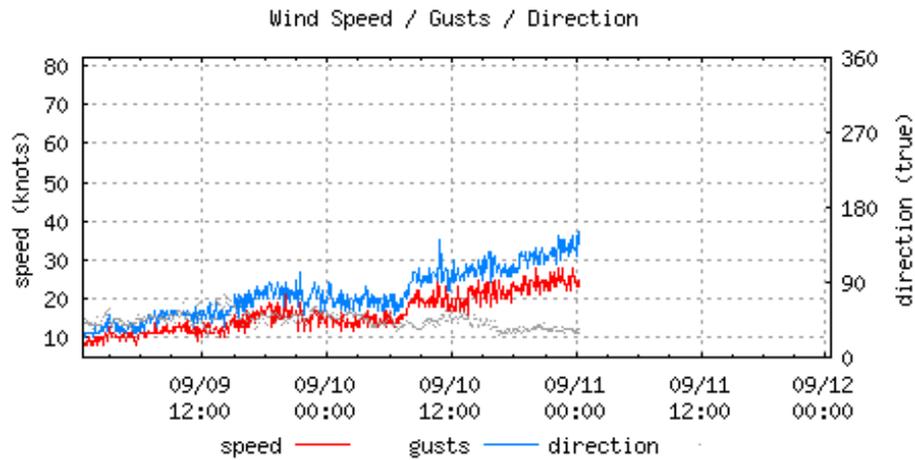
Last Observed Sample: 09/11/2017 00:24 (EDT)  
Barometric Pressure: 992.4 mb

NOAA/NOS/CO-OPS 8728690 Apalachicola, FL



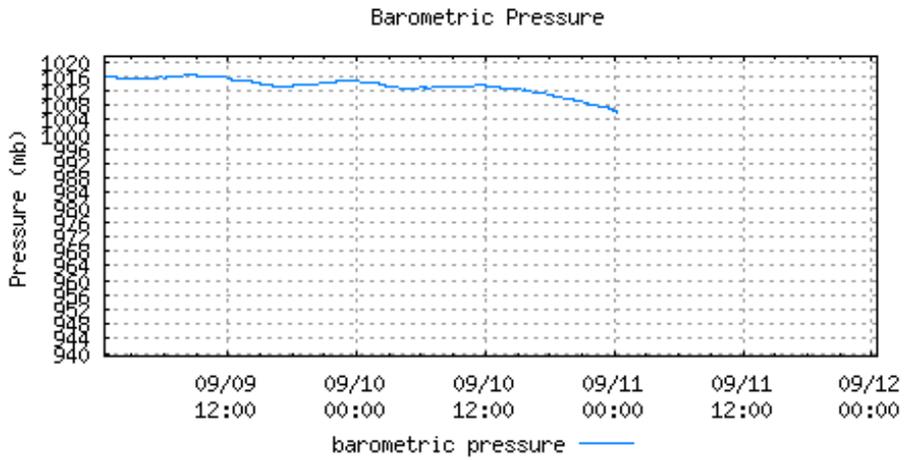
Last Observed Sample: 09/11/2017 00:24 (EDT). Data relative to MHHW  
**Observed: -2.83 ft. Predicted: -0.49 ft. Residual: -2.34 ft.**  
 Historical Maximum Water Level: Jul 10 2005, 6.43 ft.  
 Next High Tide: 09/11/2017 07:11 (EDT), 0.25 ft.

NOAA/NOS/CO-OPS 8728690 Apalachicola, FL



Last Observed Sample: 09/11/2017 00:24 (EDT)  
**Wind Speed: 30 knots Gusts: 37 knots Direction: 26° T**

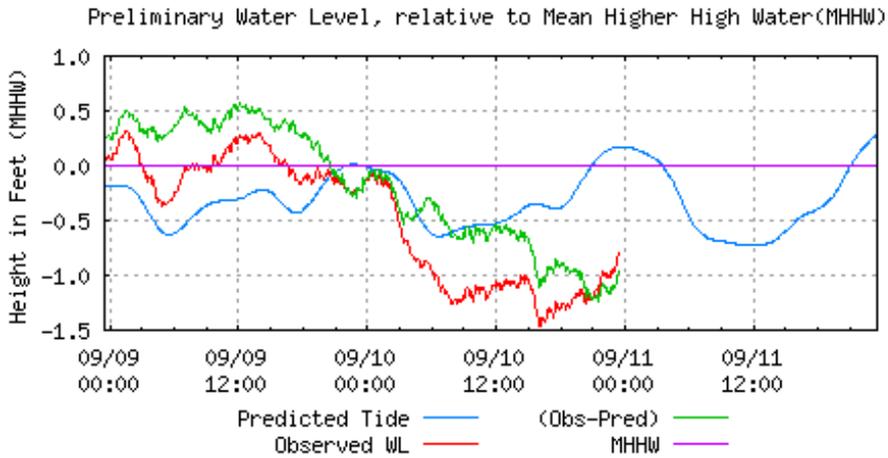
NOAA/NOS/CO-OPS 8728690 Apalachicola, FL



Last Observed Sample: 09/11/2017 00:24 (EDT)

Barometric Pressure: 1005.8 mb

NOAA/NOS/CO-OPS 8729210 Panama City Beach, FL



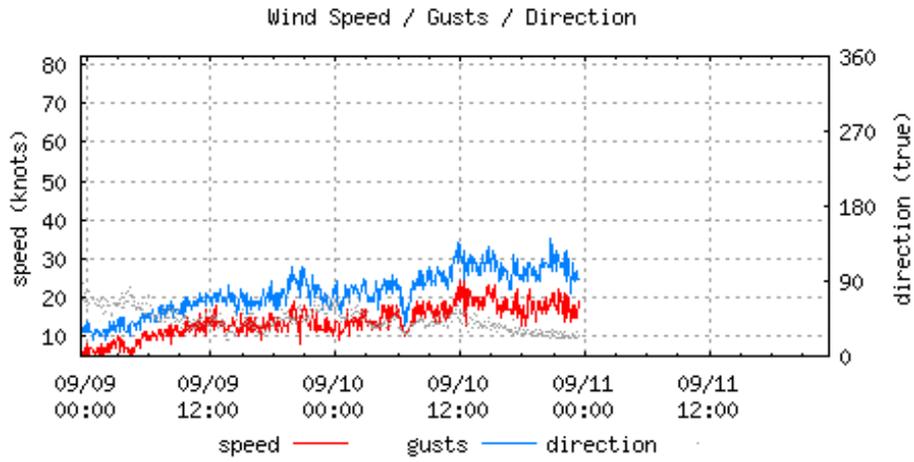
Last Observed Sample: 09/10/2017 23:24 (CDT). Data relative to MHHW

Observed: -0.80 ft. Predicted: 0.17 ft. Residual: -0.97 ft.

Historical Maximum Water Level: Oct 4 1995, 6.84 ft.

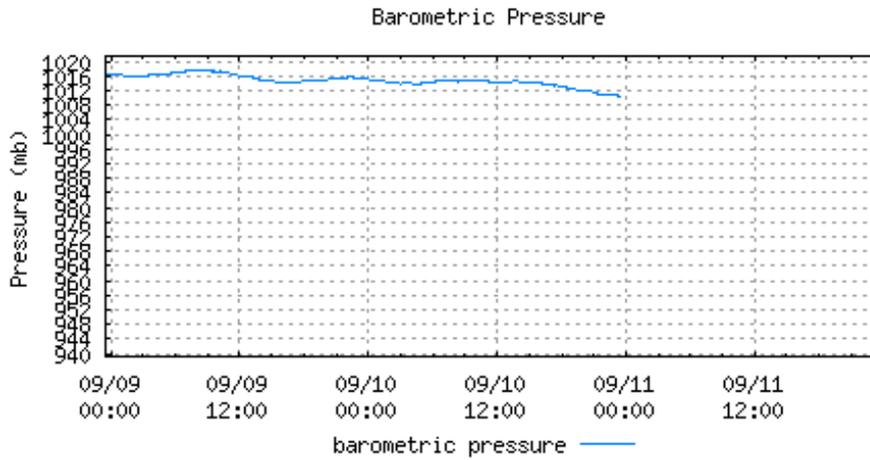
Next High Tide: 09/10/2017 23:42 (CDT), 0.18 ft.

NOAA/NOS/CO-OPS 8729210 Panama City Beach, FL



Last Observed Sample: 09/10/2017 23:24 (CDT)  
Wind Speed: 19 knots Gusts: 25 knots Direction: 24° T

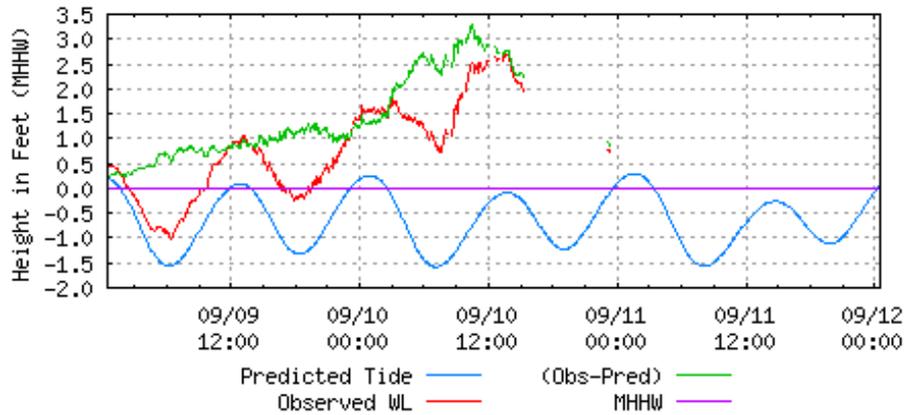
NOAA/NOS/CO-OPS 8729210 Panama City Beach, FL



Last Observed Sample: 09/10/2017 23:24 (CDT)  
Barometric Pressure: 1010.4 mb

NOAA/NOS/CO-OPS 8724580 Key West, FL

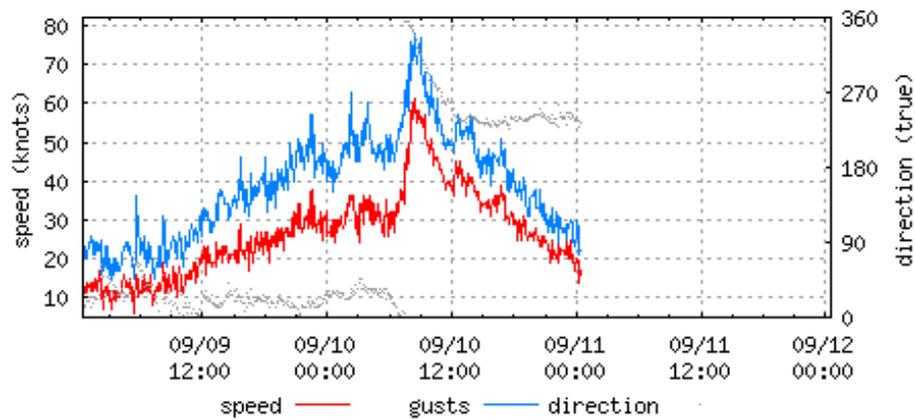
Preliminary Water Level, relative to Mean Higher High Water (MHHW)



Last Observed Sample: 09/11/2017 00:30 (EDT). Data relative to MHHW  
**Observed: 0.76 ft. Predicted: -0.09 ft. Residual: 0.85 ft.**  
 Historical Maximum Water Level: Oct 24 2005, 3.14 ft.  
 Next High Tide: 09/11/2017 01:36 (EDT), 0.29 ft.

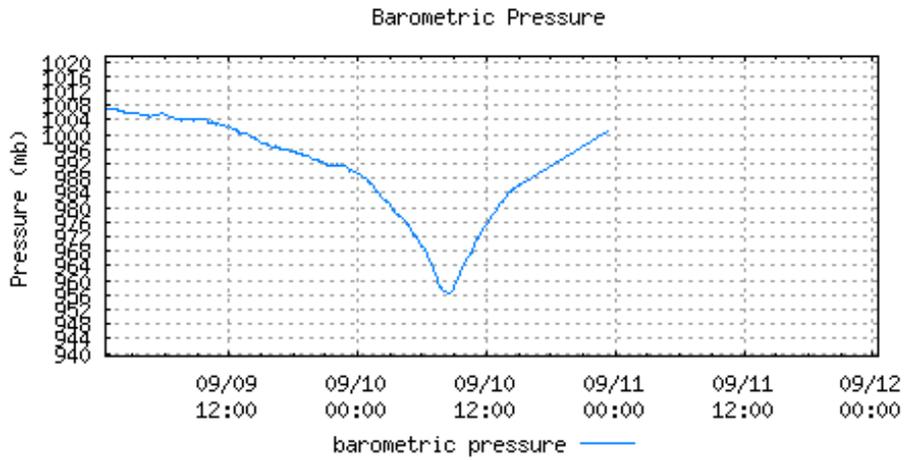
NOAA/NOS/CO-OPS 8724580 Key West, FL

Wind Speed / Gusts / Direction



Last Observed Sample: 09/11/2017 00:30 (EDT)  
**Wind Speed: 18 knots Gusts: 23 knots Direction: 233° T**

NOAA/NOS/CO-OPS 8724580 Key West, FL

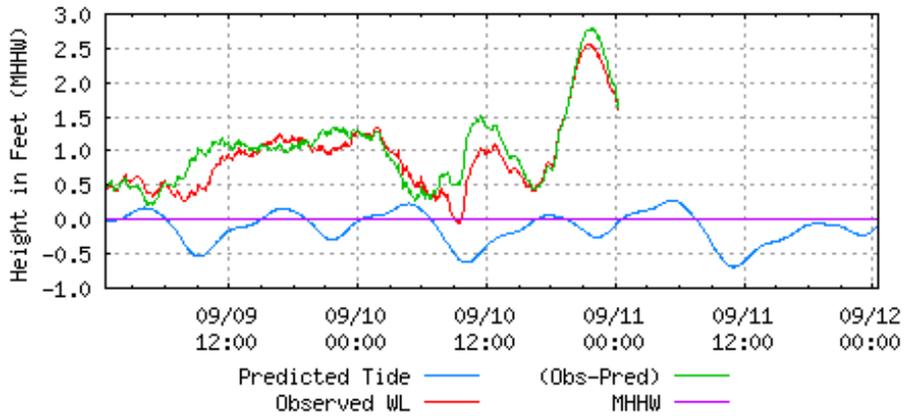


Last Observed Sample: 09/11/2017 00:30 (EDT)

Barometric Pressure: 1000.8 mb

NOAA/NOS/CO-OPS 8723970 Vaca Key, Florida Bay, FL

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



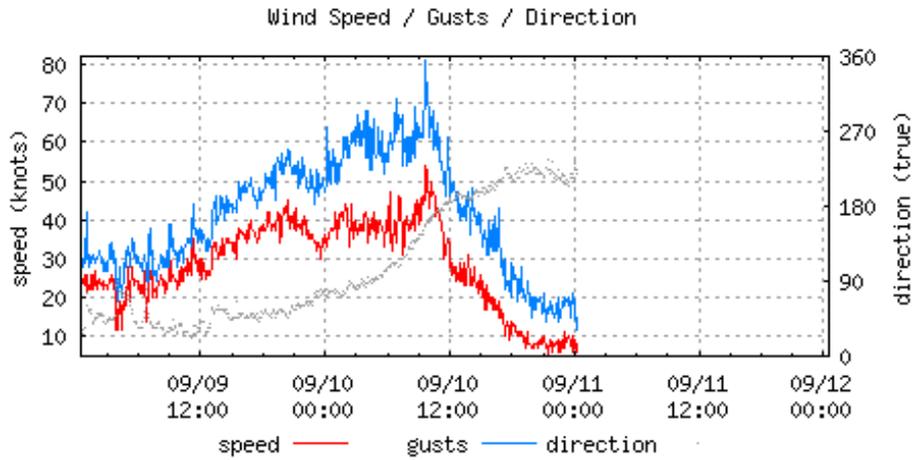
Last Observed Sample: 09/11/2017 00:24 (EDT). Data relative to MHHW

Observed: 1.66 ft. Predicted: -0.02 ft. Residual: 1.68 ft.

Historical Maximum Water Level: Oct 24 2005, 5.80 ft.

Next High Tide: 09/11/2017 05:18 (EDT), 0.28 ft.

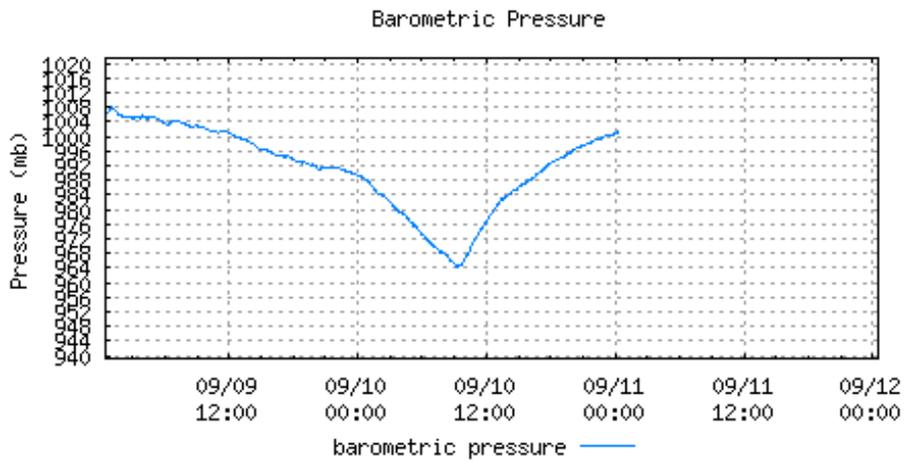
NOAA/NOS/CO-OPS 8723970 Vaca Key, Florida Bay, FL



Last Observed Sample: 09/11/2017 00:24 (EDT)

Wind Speed: 7 knots Gusts: 21 knots Direction: 231° T

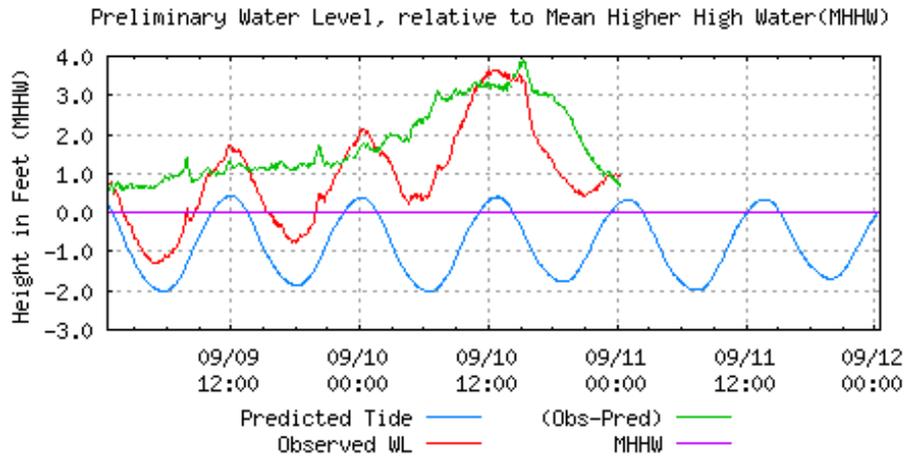
NOAA/NOS/CO-OPS 8723970 Vaca Key, Florida Bay, FL



Last Observed Sample: 09/11/2017 00:24 (EDT)

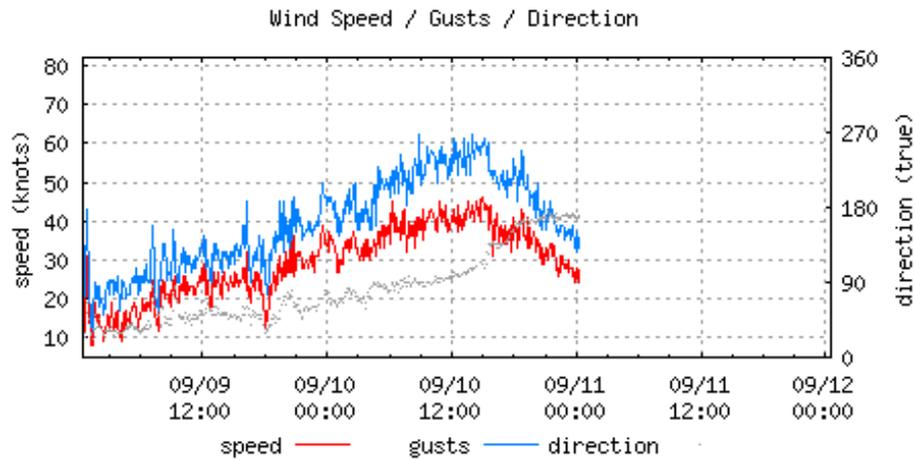
Barometric Pressure: 1001.2 mb

NOAA/NOS/CO-OPS 8723214 Virginia Key, Biscayne Bay, FL



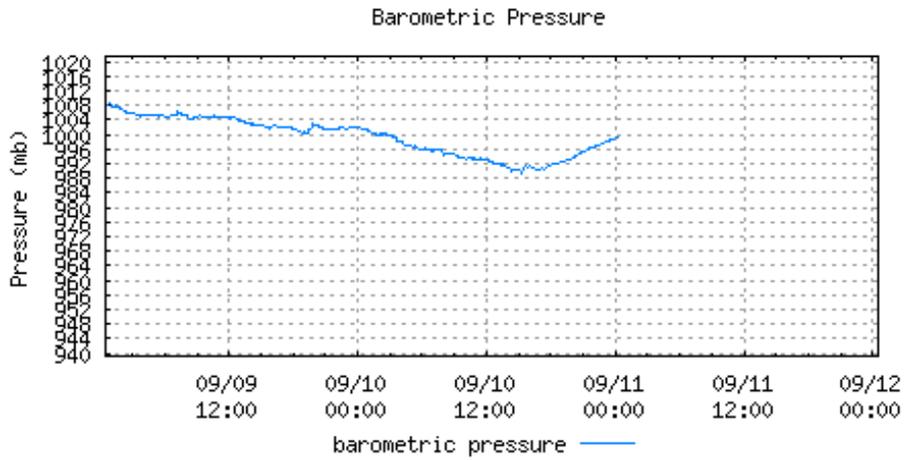
Last Observed Sample: 09/11/2017 00:24 (EDT). Data relative to MHHW  
**Observed: 0.98 ft. Predicted: 0.27 ft. Residual: 0.71 ft.**  
 Historical Maximum Water Level: Oct 24 2005, 2.58 ft.  
 Next High Tide: 09/11/2017 01:00 (EDT), 0.32 ft.

NOAA/NOS/CO-OPS 8723214 Virginia Key, Biscayne Bay, FL



Last Observed Sample: 09/11/2017 00:24 (EDT)  
**Wind Speed: 27 knots Gusts: 36 knots Direction: 170° T**

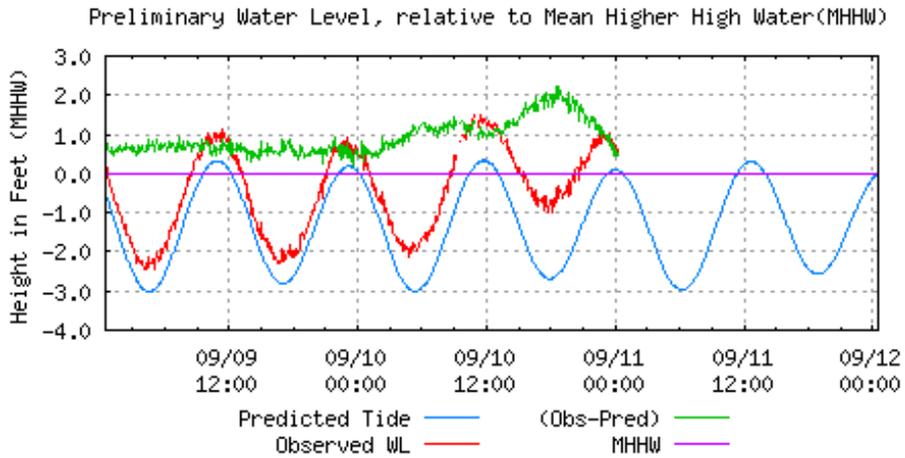
NOAA/NOS/CO-OPS 8723214 Virginia Key, Biscayne Bay, FL



Last Observed Sample: 09/11/2017 00:24 (EDT)

Barometric Pressure: 999.3 mb

NOAA/NOS/CO-OPS 8722670 Lake Worth Pier, Atlantic Ocean, FL



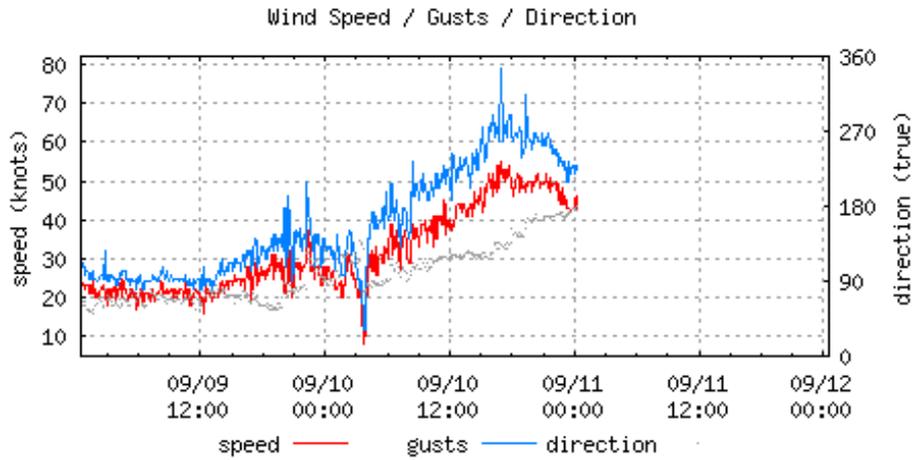
Last Observed Sample: 09/11/2017 00:24 (EDT). Data relative to MHHW

Observed: 0.54 ft. Predicted: 0.07 ft. Residual: 0.47 ft.

Historical Maximum Water Level: Oct 28 2012, 2.00 ft.

Next High Tide: 09/11/2017 12:39 (EDT), 0.31 ft.

NOAA/NOS/CO-OPS 8722670 Lake Worth Pier, Atlantic Ocean, FL

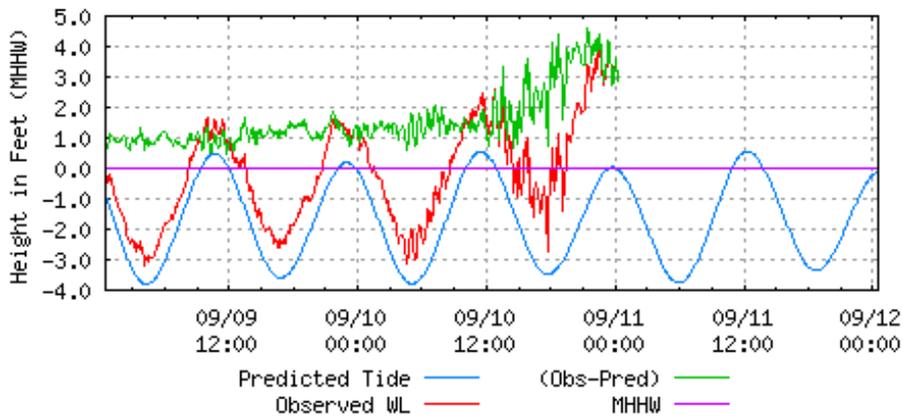


Last Observed Sample: 09/11/2017 00:24 (EDT)

Wind Speed: 41 knots Gusts: 53 knots Direction: 181° T

NOAA/NOS/CO-OPS 8721604 Trident Pier, Port Canaveral, FL

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



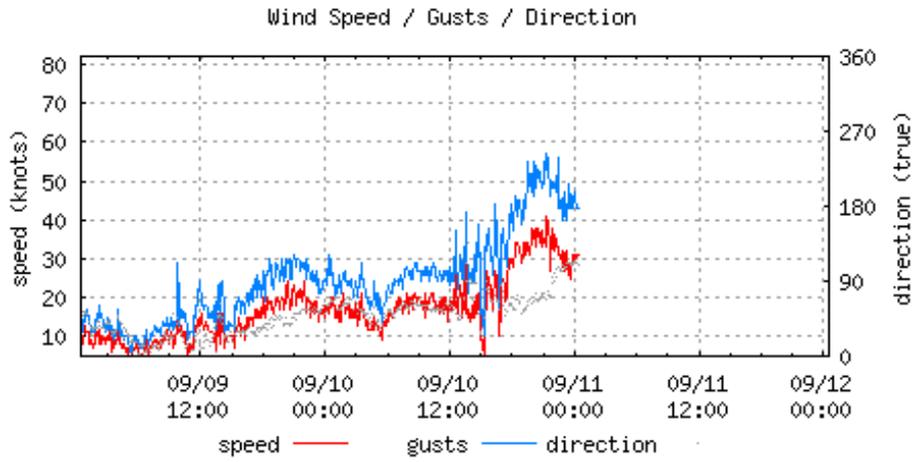
Last Observed Sample: 09/11/2017 00:24 (EDT). Data relative to MHHW

Observed: 3.14 ft. Predicted: -0.07 ft. Residual: 3.21 ft.

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

Next High Tide: 09/11/2017 12:19 (EDT), 0.55 ft.

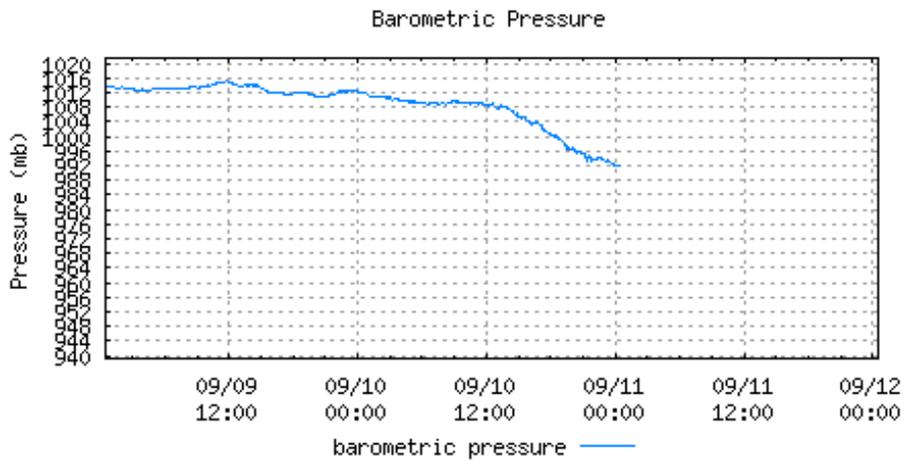
NOAA/NOS/CO-OPS 8721604 Trident Pier, Port Canaveral, FL



Last Observed Sample: 09/11/2017 00:24 (EDT)

Wind Speed: 31 knots Gusts: 43 knots Direction: 110° T

NOAA/NOS/CO-OPS 8721604 Trident Pier, Port Canaveral, FL

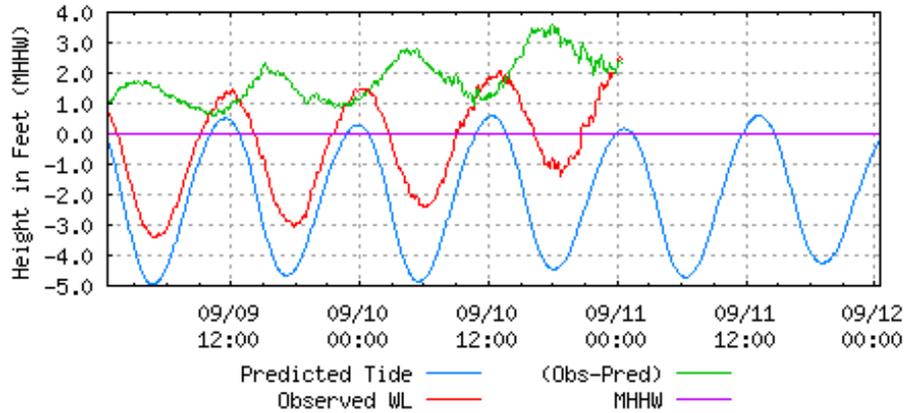


Last Observed Sample: 09/11/2017 00:24 (EDT)

Barometric Pressure: 992.2 mb

NOAA/NOS/CO-OPS 8720218 Mayport (Bar Pilots Dock), FL

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



Last Observed Sample: 09/11/2017 00:30 (EDT). Data relative to MHHW

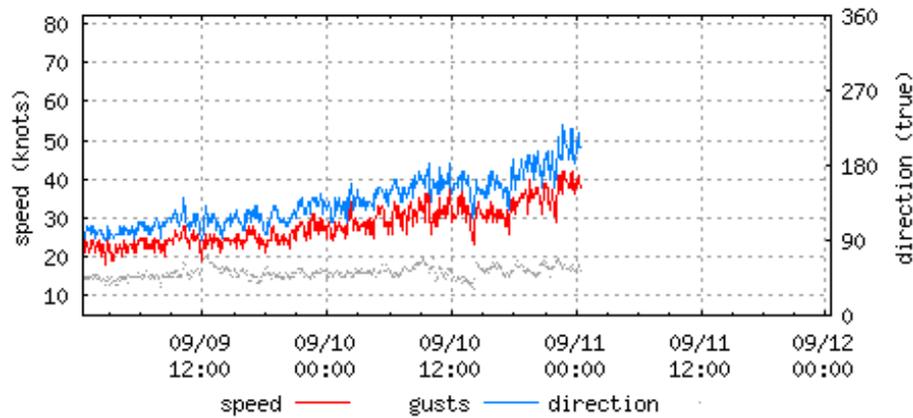
Observed: 2.51 ft. Predicted: 0.16 ft. Residual: 2.35 ft.

Historical Maximum Water Level: Oct 7 2016, 3.22 ft.

Next High Tide: 09/11/2017 00:39 (EDT), 0.17 ft.

NOAA/NOS/CO-OPS 8720218 Mayport (Bar Pilots Dock), FL

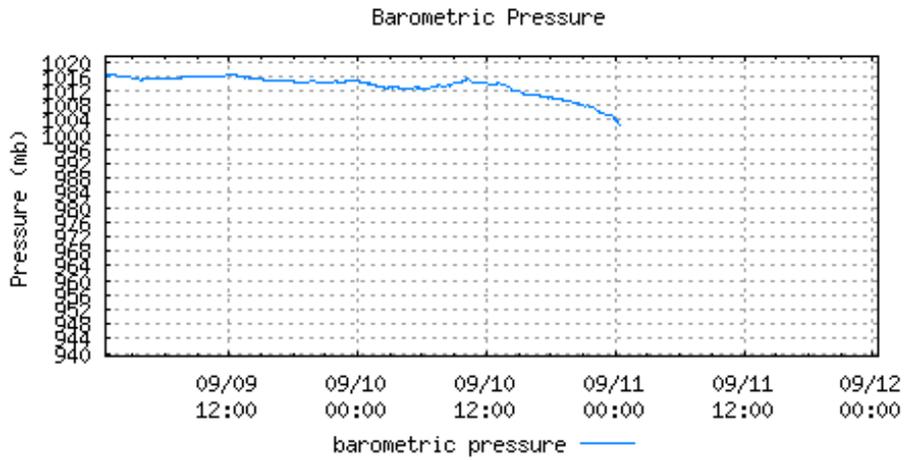
Wind Speed / Gusts / Direction



Last Observed Sample: 09/11/2017 00:30 (EDT)

Wind Speed: 38 knots Gusts: 48 knots Direction: 54° T

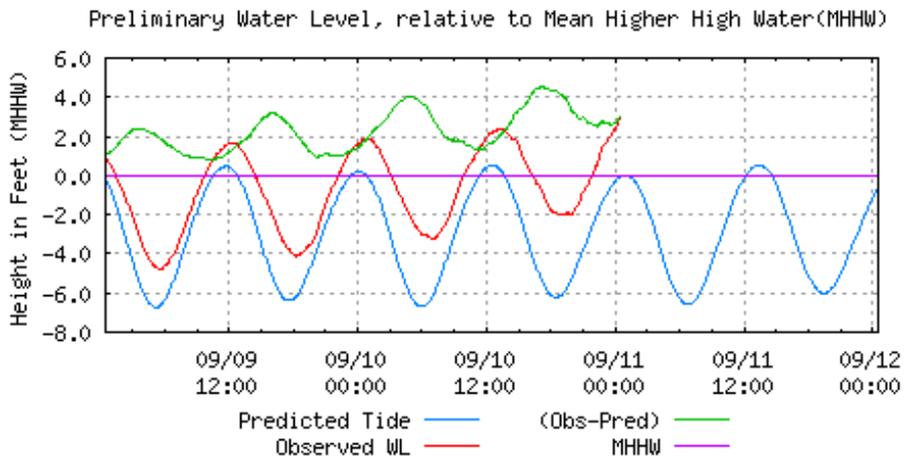
NOAA/NOS/CO-OPS 8720218 Mayport (Bar Pilots Dock), FL



Last Observed Sample: 09/11/2017 00:30 (EDT)

Barometric Pressure: 1002.1 mb

NOAA/NOS/CO-OPS 8720030 Fernandina Beach, FL



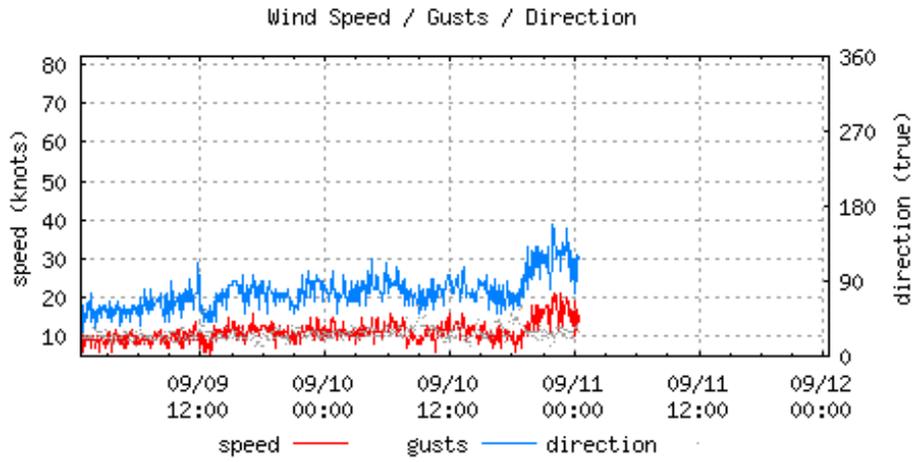
Last Observed Sample: 09/11/2017 00:30 (EDT). Data relative to MHHW

Observed: 2.94 ft. Predicted: -0.05 ft. Residual: 2.99 ft.

Historical Maximum Water Level: Oct 2 1898, 6.94 ft.

Next High Tide: 09/11/2017 00:55 (EDT), 0.01 ft.

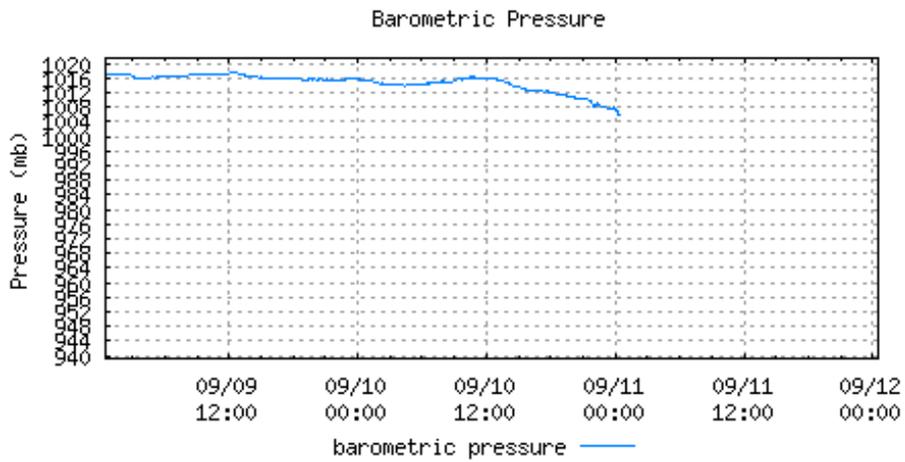
NOAA/NOS/CO-OPS 8720030 Fernandina Beach, FL



Last Observed Sample: 09/11/2017 00:30 (EDT)

Wind Speed: 14 knots Gusts: 30 knots Direction: 29° T

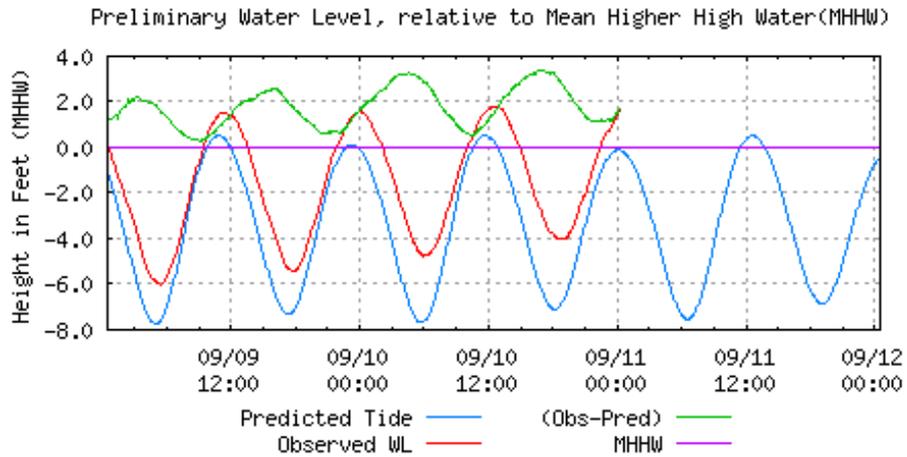
NOAA/NOS/CO-OPS 8720030 Fernandina Beach, FL



Last Observed Sample: 09/11/2017 00:30 (EDT)

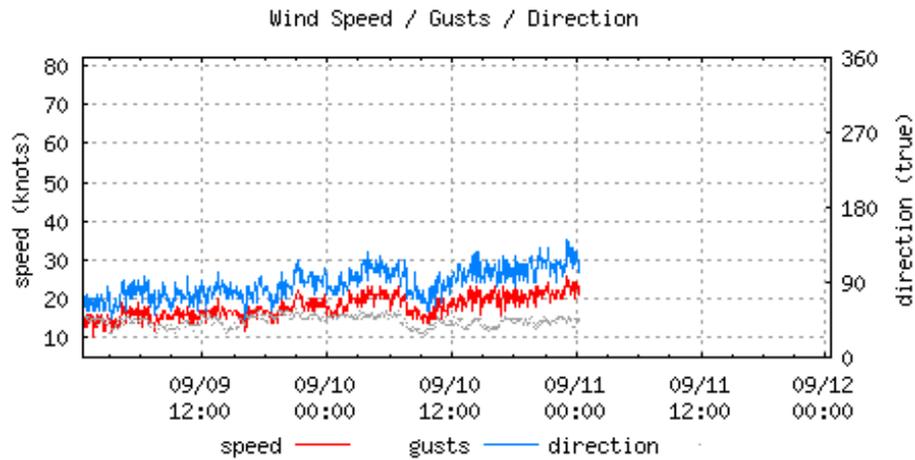
Barometric Pressure: 1005.8 mb

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



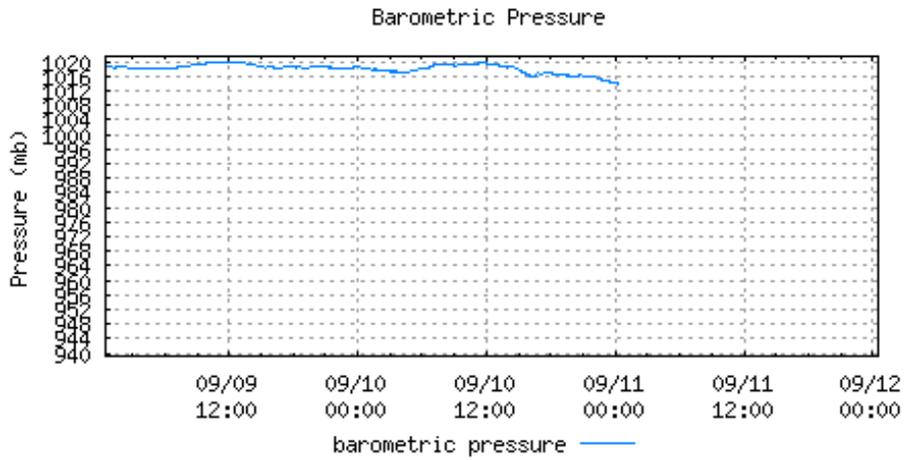
Last Observed Sample: 09/11/2017 00:24 (EDT). Data relative to MHHW  
**Observed: 1.69 ft. Predicted: -0.14 ft. Residual: 1.83 ft.**  
 Historical Maximum Water Level: Oct 15 1947, 3.40 ft.  
 Next High Tide: 09/11/2017 12:37 (EDT), 0.51 ft.

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



Last Observed Sample: 09/11/2017 00:24 (EDT)  
**Wind Speed: 20 knots Gusts: 27 knots Direction: 41° T**

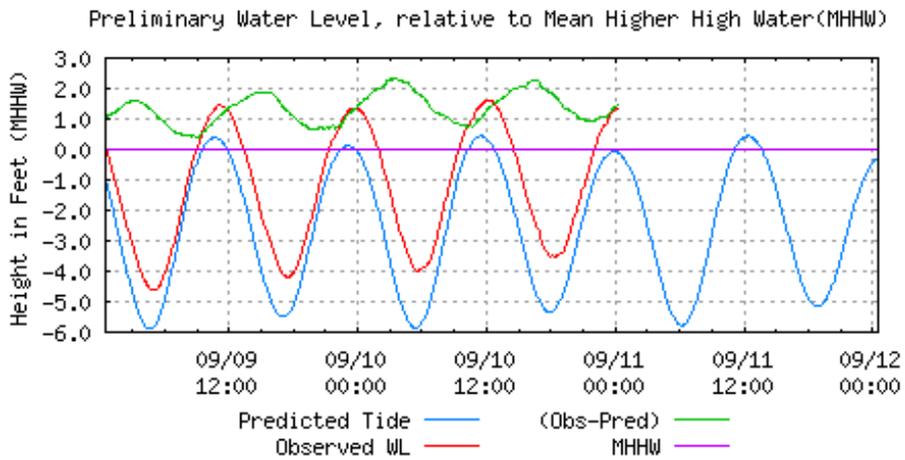
NOAA/NOS/CO-OPS 8670870 Fort Pulaski, GA



Last Observed Sample: 09/11/2017 00:24 (EDT)

Barometric Pressure: 1013.4 mb

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



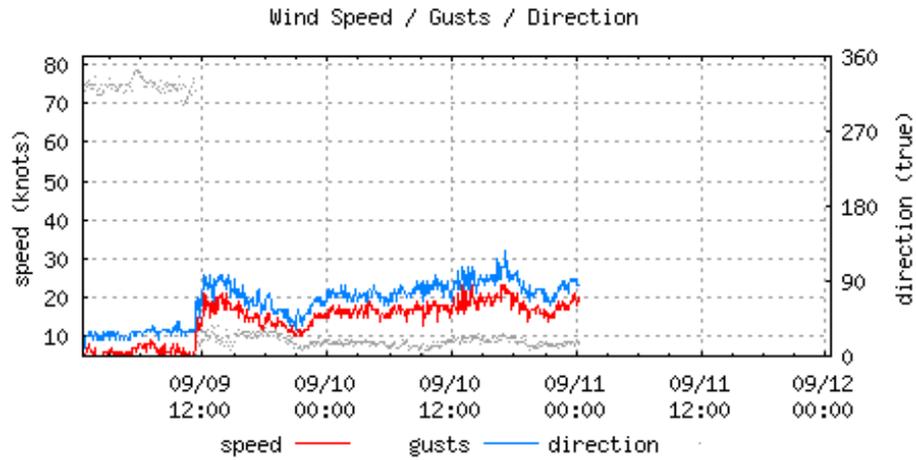
Last Observed Sample: 09/11/2017 00:24 (EDT). Data relative to MHHW

Observed: 1.36 ft. Predicted: -0.13 ft. Residual: 1.49 ft.

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

Next High Tide: 09/11/2017 12:23 (EDT), 0.44 ft.

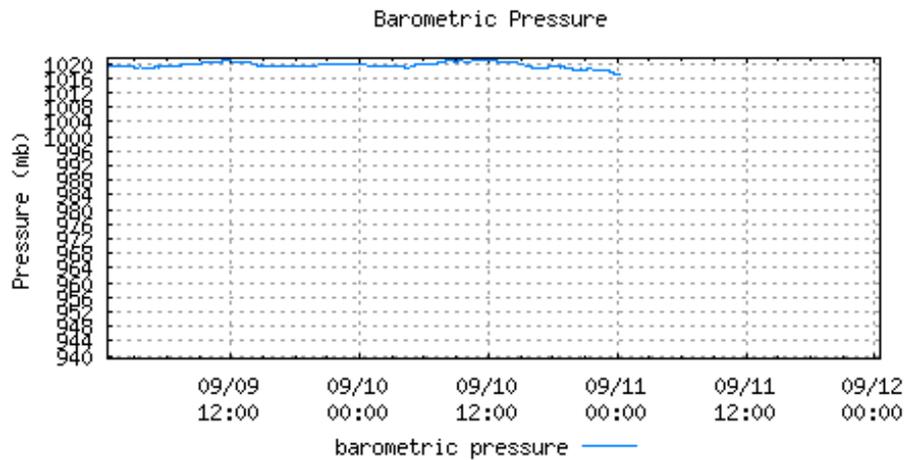
NOAA/NOS/CO-OPS 8665530 Charleston, Cooper River Entrance, SC



Last Observed Sample: 09/11/2017 00:24 (EDT)

Wind Speed: 19 knots Gusts: 23 knots Direction: 16° T

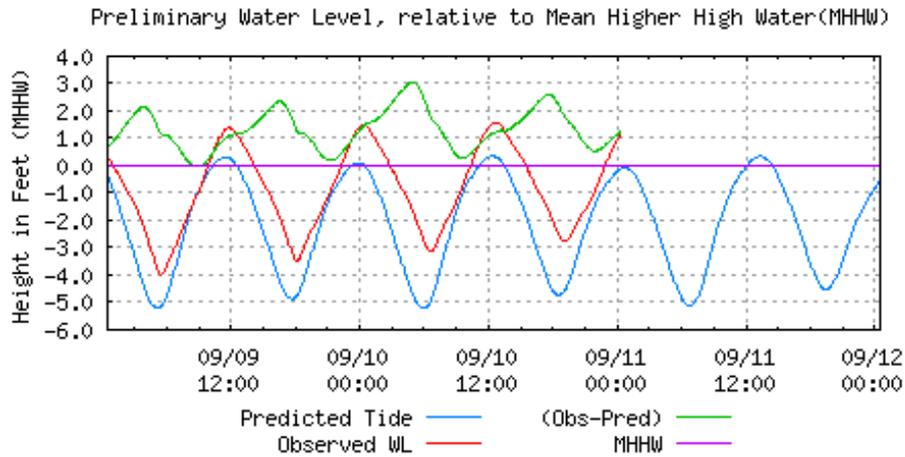
NOAA/NOS/CO-OPS 8665530 Charleston, Cooper River Entrance, SC



Last Observed Sample: 09/11/2017 00:24 (EDT)

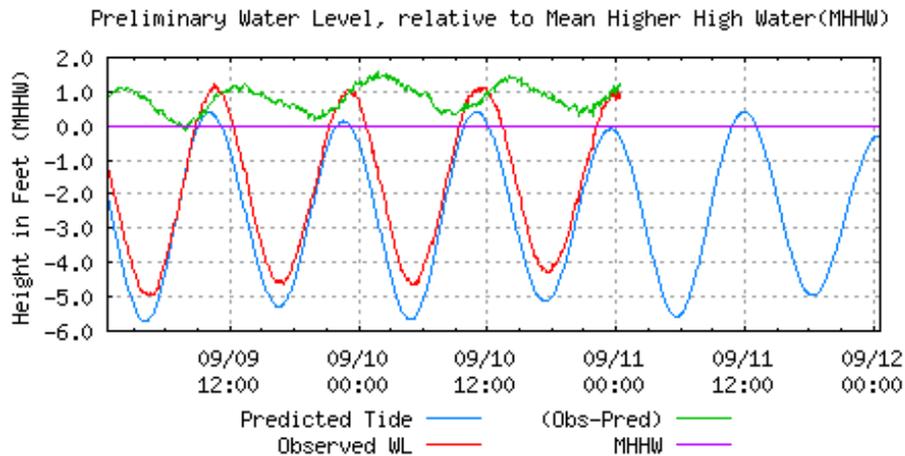
Barometric Pressure: 1017.1 mb

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



Last Observed Sample: 09/11/2017 00:24 (EDT). Data relative to MHHW  
**Observed: 1.16 ft. Predicted: -0.11 ft. Residual: 1.27 ft.**  
 Historical Maximum Water Level: Oct 8 2016, 4.64 ft.  
 Next High Tide: 09/11/2017 00:43 (EDT), -0.08 ft.

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



Last Observed Sample: 09/11/2017 00:24 (EDT). Data relative to MHHW  
**Observed: 0.83 ft. Predicted: -0.37 ft. Residual: 1.20 ft.**  
 Historical Maximum Water Level: Jan 1 1987, 3.65 ft.  
 Next High Tide: 09/11/2017 11:56 (EDT), 0.41 ft.

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
8725110	Naples, Gulf of Mexico, FL	09/11/2017 00:24 (EDT)	2.19 ft	-0.91 ft	3.10 ft	4.24 ft
8725520	Fort Myers, Caloosahatchee River, FL	09/11/2017 00:24 (EDT)	0.59 ft	-0.66 ft	1.25 ft	0.59 ft
8726384	Port Manatee, FL	09/11/2017 00:24 (EDT)	-1.73 ft	-0.71 ft	-1.02 ft	-1.12 ft
8726520	St Petersburg, Tampa Bay, FL	09/11/2017 00:24 (EDT)	-4.69 ft	-0.99 ft	-3.70 ft	-0.88 ft
8726667	Mckay Bay Entrance, FL	09/11/2017 00:24 (EDT)	-6.21 ft	-1.49 ft	-4.72 ft	-1.40 ft
8726724	Clearwater Beach, FL	09/11/2017 00:24 (EDT)	-1.64 ft	-0.46 ft	-1.18 ft	-0.47 ft
8727520	Cedar Key, FL	09/11/2017 00:30 (EDT)	-9.09 ft	-2.45 ft	-6.64 ft	-1.29 ft
8728690	Apalachicola, FL	09/11/2017 00:24 (EDT)	-2.83 ft	-0.49 ft	-2.34 ft	-0.61 ft
8729210	Panama City Beach, FL	09/10/2017 23:30 (CDT)	-0.83 ft	0.17 ft	-1.00 ft	-0.07 ft
8724580	Key West, FL	09/11/2017 00:30 (EDT)	0.76 ft	-0.09 ft	0.85 ft	2.69 ft
8723970	Vaca Key, Florida Bay, FL	09/11/2017 00:24 (EDT)	1.66 ft	-0.02 ft	1.68 ft	2.57 ft
8723214	Virginia Key, Biscayne Bay, FL	09/11/2017 00:24 (EDT)	0.98 ft	0.27 ft	0.71 ft	3.66 ft
8722670	Lake Worth Pier, Atlantic Ocean, FL	09/11/2017 00:24 (EDT)	0.54 ft	0.07 ft	0.47 ft	1.49 ft
8721604	Trident Pier, Port Canaveral, FL	09/11/2017 00:24 (EDT)	3.14 ft	-0.07 ft	3.21 ft	4.18 ft
8720218	Mayport (Bar Pilots Dock), FL	09/11/2017 00:30 (EDT)	2.51 ft	0.16 ft	2.35 ft	2.53 ft
8720030	Fernandina Beach, FL	09/11/2017 00:30 (EDT)	2.94 ft	-0.05 ft	2.99 ft	2.94 ft
8670870	Fort Pulaski, GA	09/11/2017 00:24 (EDT)	1.69 ft	-0.14 ft	1.83 ft	1.81 ft
8665530	Charleston, Cooper River Entrance, SC	09/11/2017 00:24 (EDT)	1.36 ft	-0.13 ft	1.49 ft	1.63 ft
8662245	Oyster Landing (N Inlet Estuary), SC	09/11/2017 00:24 (EDT)	1.16 ft	-0.11 ft	1.27 ft	1.56 ft
8661070	Springmaid Pier, SC	09/11/2017 00:24 (EDT)	0.83 ft	-0.37 ft	1.20 ft	1.14 ft

