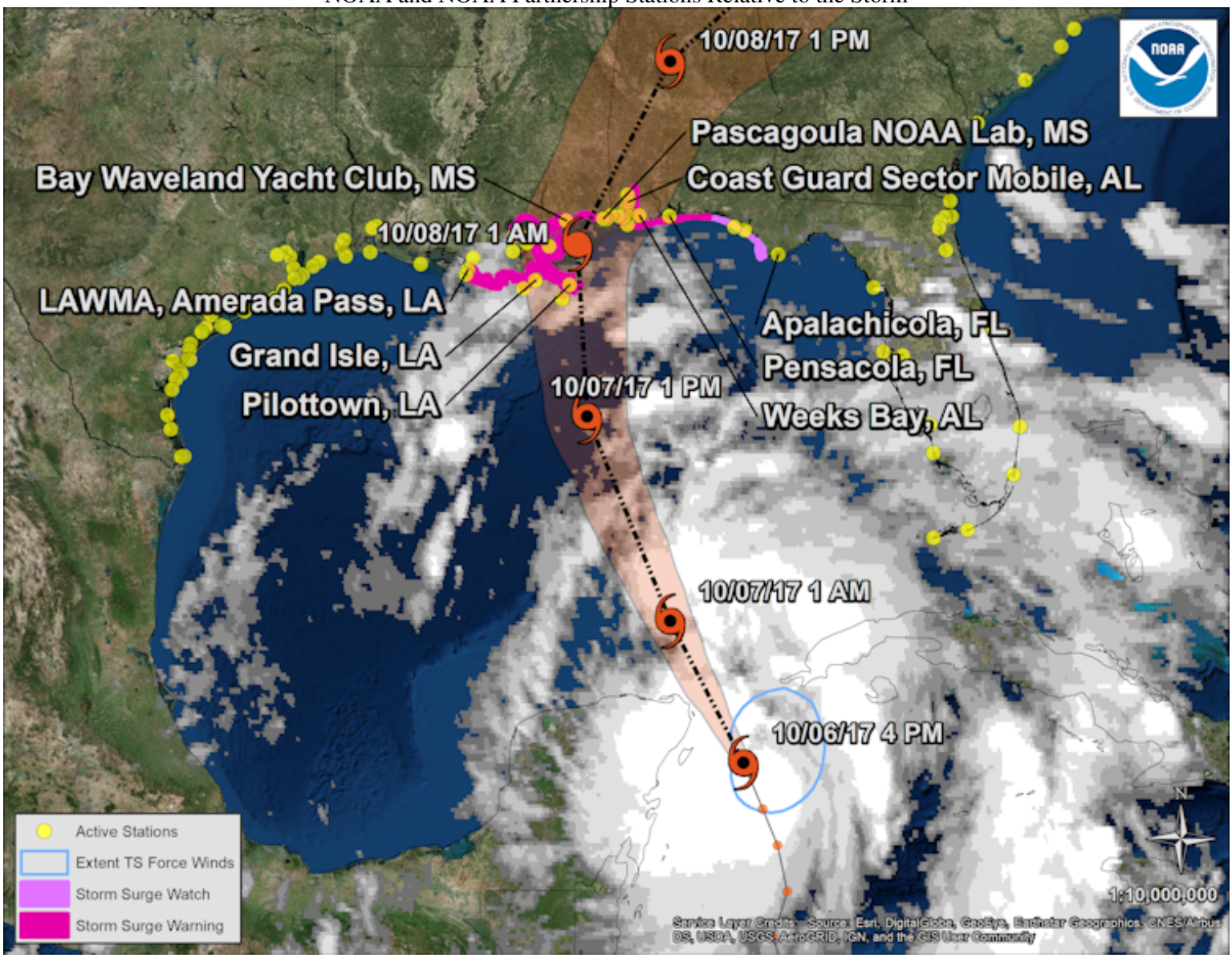
Tropical Storm NATE QuickLook
Posted: 17:00 CDT 10/06/2017

NOAA and NOAA Partnership Stations Relative to the Storm



Storm Analysis

As of 10/06/2017 17:00 CDT, water levels along the Gulf Coast from Amerada Pass, LA to Apalachicola, FL currently range between 1.2 and 2.0 ft above normal tide levels. Winds are following the normal diurnal cycle and range between 5 and 15 knots. 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 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: RCL

SELECT NATIONAL HURRICANE CENTER ADVISORY INFORMATION:

Tropical Storm Nate Advisory Number 10
NWS National Hurricane Center Miami FL
400 PM CDT Fri Oct 06 2017

...NATE STRENGTHENS AS THE CENTER APPROACHES THE NORTHEASTERN TIP
OF THE YUCATAN PENINSULA AND THE YUCATAN CHANNEL...
...HURRICANE WARNING ISSUED FOR METROPOLITAN NEW ORLEANS...

SUMMARY OF 400 PM CDT...2100 UTC...INFORMATION

LOCATION...20.3N 85.7W
ABOUT 80 MI...125 KM E OF COZUMEL MEXICO
ABOUT 645 MI...1035 KM SSE OF THE MOUTH OF THE MISSISSIPPI RIVER
MAXIMUM SUSTAINED WINDS...60 MPH...95 KM/H
PRESENT MOVEMENT...NNW OR 340 DEGREES AT 21 MPH...33 KM/H
MINIMUM CENTRAL PRESSURE...993 MB...29.33 INCHES

WATCHES AND WARNINGS

CHANGES WITH THIS ADVISORY:

A Hurricane Warning is now in effect for metropolitan New Orleans
and Lake Pontchartrain.

A Storm Surge Warning is now in effect east of the Alabama/Florida
border to the Okaloosa/Walton County Line.

A Tropical Storm Warning is now in effect east of the
Alabama/Florida border to the Okaloosa/Walton County Line.

SUMMARY OF WATCHES AND WARNINGS IN EFFECT:

A Hurricane Warning is in effect for...
* Grand Isle Louisiana to the Alabama/Florida border
* Metropolitan New Orleans and Lake Pontchartrain

A Storm Surge Warning is in effect for...
* Morgan City Louisiana to the Okaloosa/Walton County Line Florida
* Northern and western shores of Lake Pontchartrain

A Tropical Storm Warning is in effect for...
* Punta Herrero to Rio Lagartos Mexico
* Pinar del Rio
* Lake Maurepas
* West of Grand Isle to Morgan City Louisiana
* East of the Alabama/Florida border to the Okaloosa/Walton County Line.

A Hurricane Watch is in effect for...
* Punta Herrero to Rio Lagartos Mexico
* Lake Maurepas
* East of the Alabama/Florida border to the Okaloosa/Walton County Line
* West of Grand Isle to Morgan City Louisiana

A Storm Surge Watch is in effect for...
* East of the the Okaloosa/Walton County Line to Indian Pass Florida

A Tropical Storm Watch is in effect for...
* East of the Okaloosa/Walton County Line to Indian Pass Florida
* West of Morgan City to Intracoastal City Louisiana
* Isle of Youth

A Hurricane Warning means that hurricane conditions are expected somewhere within the warning area. A warning is typically issued 36 hours before the anticipated first occurrence of tropical-storm-force winds, conditions that make outside preparations difficult or dangerous. Preparations to protect life and property should be rushed to completion.

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

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.

A Hurricane Watch means that hurricane conditions are possible within the watch area.

A Tropical Storm Watch means that tropical storm conditions are possible within the watch area, generally within 48 hours.

Interests elsewhere in western Cuba, the Yucatan Peninsula, and the northern coast of the Gulf of Mexico should monitor the progress of Nate.

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

At 400 PM CDT (2100 UTC), the center of Tropical Storm Nate was located near latitude 20.3 North, longitude 85.7 West. Nate is moving toward the north-northwest near 21 mph (33 km/h) and this motion is expected to continue through Saturday, with a turn toward the north and northeast expected Saturday night and Sunday. On the forecast track, the center of Nate will move near or over the northeastern coast of the Yucatan peninsula this evening. Nate will then move into the southern Gulf of Mexico tonight, approach the northern Gulf coast Saturday, and then move make landfall over the northern Gulf coast Saturday night or Sunday.

Reports from NOAA buoy 42056, located just north and east of the center, indicate that maximum sustained winds have increased to near 60 mph (95 km/h) with higher gusts. Additional strengthening is forecast during the next 36 hours, and Nate is expected to become a hurricane by the time it reaches the northern Gulf of Mexico.

Tropical-storm-force winds extend outward up to 125 miles (205 km) mainly to the east of the center. NOAA buoy 42056 recently reported a 1-minute average wind of 56 mph (91 km/h) and a wind gust of 69 mph (111 km/h).

The estimated minimum central pressure is 993 mb (29.33 inches). NOAA buoy 42056 reported a minimum pressure of 995.6 mb as the center of Nate passed nearby.

HAZARDS AFFECTING LAND

RAINFALL: Nate is expected to produce the following rain accumulations through Monday:

Western Nicaragua, Honduras, and El Salvador: Lingering inflow bands will bring additional 2-4 inches, max 6 inches.
Eastern Yucatan and western Cuba: 2 to 4 inches, max 6 inches.
Eastern Belize and the Cayman Islands: 1 to 3 inches.

East of the Mississippi River from the central Gulf Coast into the Deep South, eastern Tennessee Valley, and southern Appalachians: 3 to 6 inches, max 10 inches.

Across the lower Ohio Valley into the central Appalachians: 2 to 4 inches, max 6 inches.

Heavy rainfall will occur over a wide area, including locations well away from the center along the Pacific coast of Central America. Rainfall across all of these areas may produce life-threatening flash floods and mudslides.

WIND: Hurricane conditions are possible within the hurricane watch area in Mexico tonight, with tropical storm conditions expected during the next few hours. Tropical storm conditions are expected in the warning area in Cuba tonight, and are possible in the watch area in Cuba tonight.

Along the northern Gulf Coast, hurricane conditions are expected in the hurricane warning area Saturday night, with tropical storm conditions expected by late Saturday. Tropical storm conditions are expected in the tropical storm warning area by Saturday night. Hurricane conditions are possible in the hurricane watch area Saturday night, and tropical storm conditions are possible in the tropical storm watch area Saturday night and Sunday.

STORM SURGE: In the United States, 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...

Morgan City, Louisiana to the mouth of the Mississippi River...4 to 6 ft
Mouth of the Mississippi River to the Alabama/Florida border...5 to 8 ft
Alabama/Florida border to Indian Pass, Florida...4 to 6 ft
Indian Pass to Crystal River, Florida...1 to 3 ft

The deepest water will occur along the immediate coast near and to the east of the landfall location, 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.

In Mexico, a storm surge will raise water levels by as much as 1 to 3 feet above normal tide levels along the immediate coast in areas of onshore winds on the Yucatan Peninsula and the adjacent islands. Near the coast, the surge will be accompanied by large and

destructive waves.

SURF: Swells generated by Nate will affect land areas around the northwestern Caribbean during the next day or so. These swells are likely to cause life-threatening surf and rip current conditions. Please consult products from your local weather office.

NEXT ADVISORY

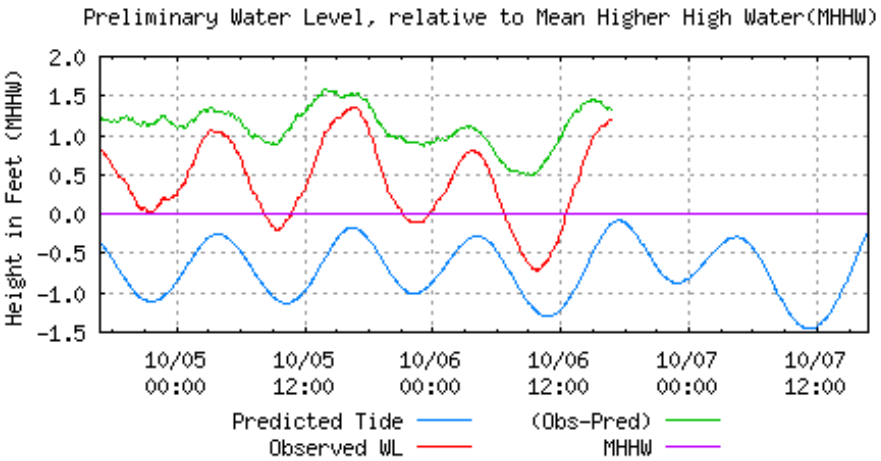
Next intermediate advisory at 700 PM CDT.
Next complete advisory at 1000 PM CDT.

Forecaster Beven

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.

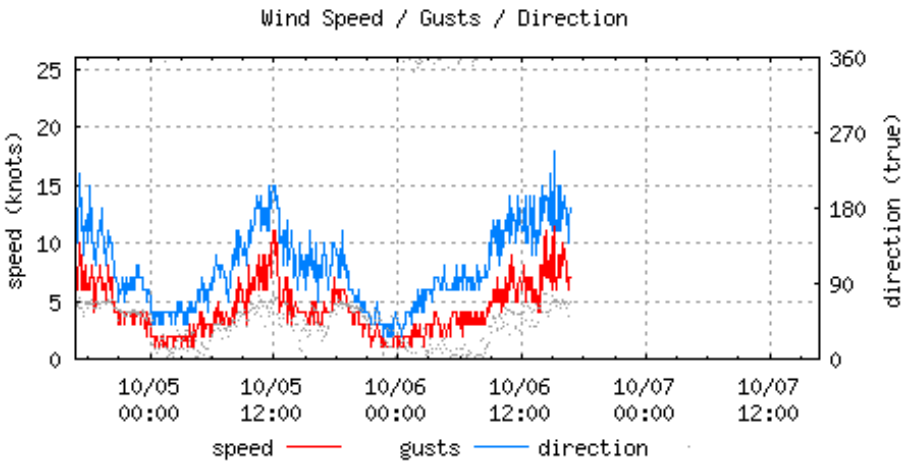
Jump to: LAWMA, Amerada Pass - Water Level, LAWMA, Amerada Pass - Winds, LAWMA, Amerada Pass - Barometric, Grand Isle - Water Level, Grand Isle - Winds, Grand Isle - Barometric, Pilottown - Water Level, Pilottown - Winds, Pilottown - Barometric, Bay Waveland Yacht Club - Water Level, Bay Waveland Yacht Club - Winds, Bay Waveland Yacht Club - Barometric, Pascagoula NOAA Lab - Water Level, Coast Guard Sector Mobile - Water Level, Coast Guard Sector Mobile - Winds, Coast Guard Sector Mobile - Barometric, Weeks Bay, Mobile Bay - Water Level, Pensacola - Water Level, Apalachicola - Water Level, Apalachicola - Winds, Apalachicola - Barometric

NOAA/NOS/CO-OPS 8764227 LAWMA, Amerada Pass, LA



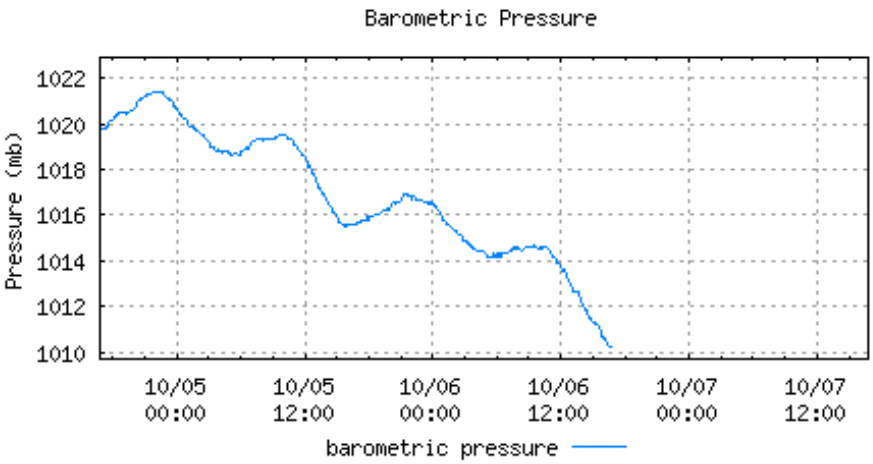
Last Observed Sample: 10/06/2017 16:42 (CDT). Data relative to MHHW
Observed: 1.20 ft. Predicted: -0.13 ft. Residual: 1.33 ft.
Historical Maximum Water Level: Sep 12 2008, 5.94 ft.
Next High Tide: 10/06/2017 17:26 (CDT), -0.09 ft.

NOAA/NOS/CO-OPS 8764227 LAWMA, Amerada Pass, LA



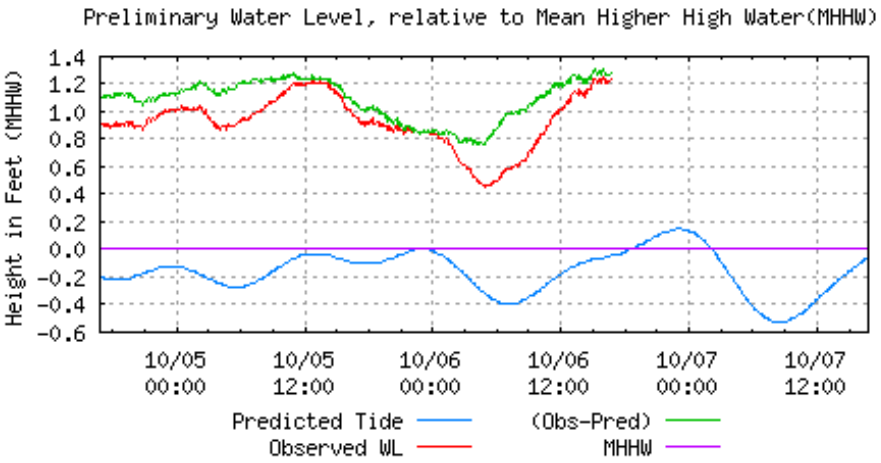
Last Observed Sample: 10/06/2017 16:42 (CDT)
Wind Speed: 7 knots Gusts: 13 knots Direction: 67° T

NOAA/NOS/CO-OPS 8764227 LAWMA, Amerada Pass, LA



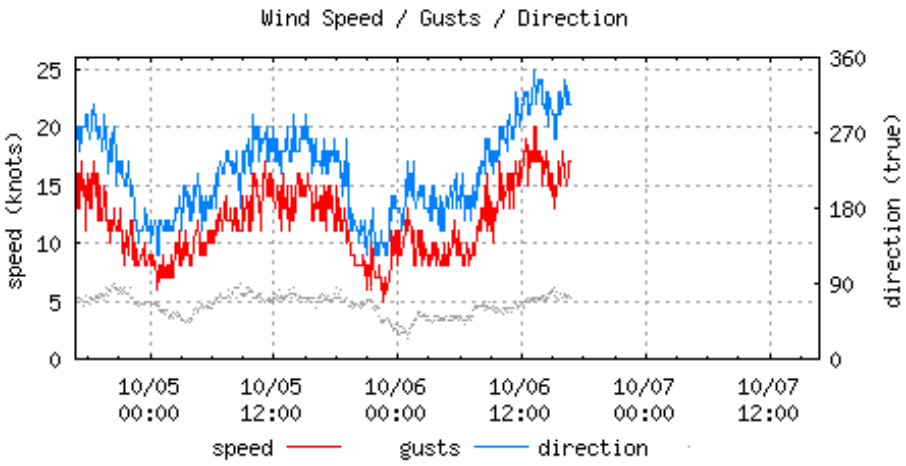
Last Observed Sample: 10/06/2017 16:42 (CDT)
Barometric Pressure: 1010.2 mb

NOAA/NOS/CO-OPS 8761724 Grand Isle, LA



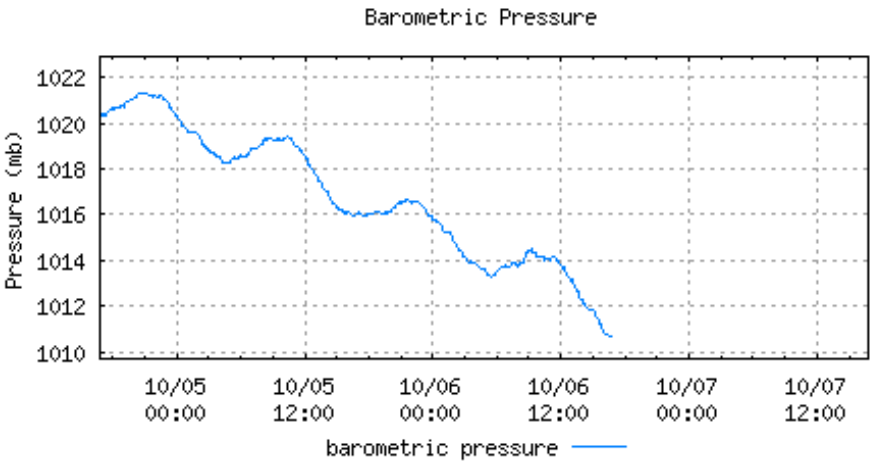
Last Observed Sample: 10/06/2017 16:42 (CDT). Data relative to MHHW
Observed: 1.24 ft. Predicted: -0.04 ft. Residual: 1.28 ft.
Historical Maximum Water Level: Aug 29 2012, 4.45 ft.
Next High Tide: 10/06/2017 23:06 (CDT), 0.15 ft.

NOAA/NOS/CO-OPS 8761724 Grand Isle, LA



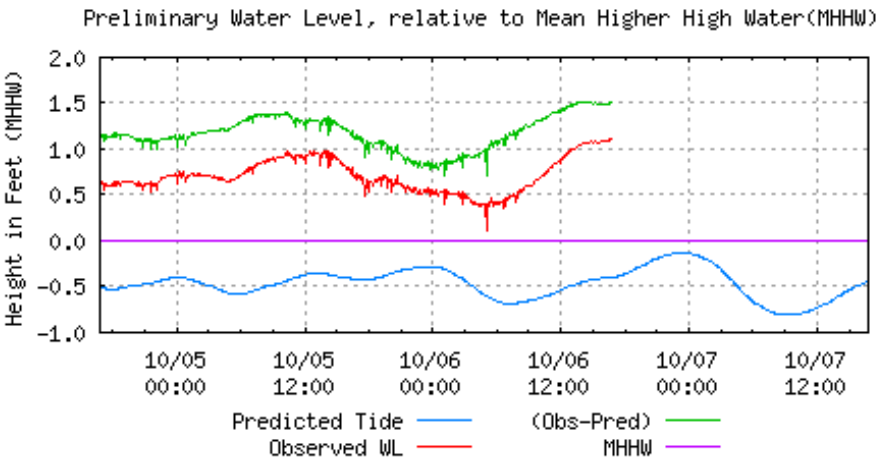
Last Observed Sample: 10/06/2017 16:42 (CDT)
Wind Speed: 17 knots Gusts: 22 knots Direction: 73° T

NOAA/NOS/CO-OPS 8761724 Grand Isle, LA



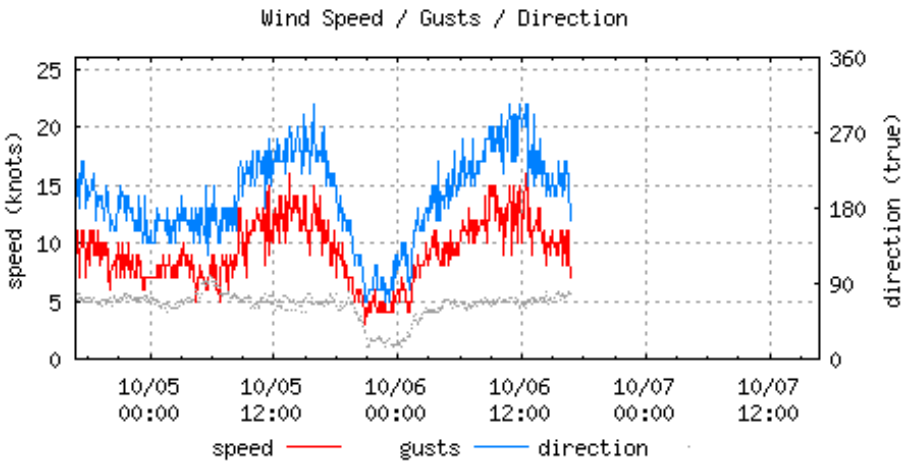
Last Observed Sample: 10/06/2017 16:42 (CDT)
Barometric Pressure: 1010.7 mb

NOAA/NOS/CO-OPS 8760721 Pilottown, LA



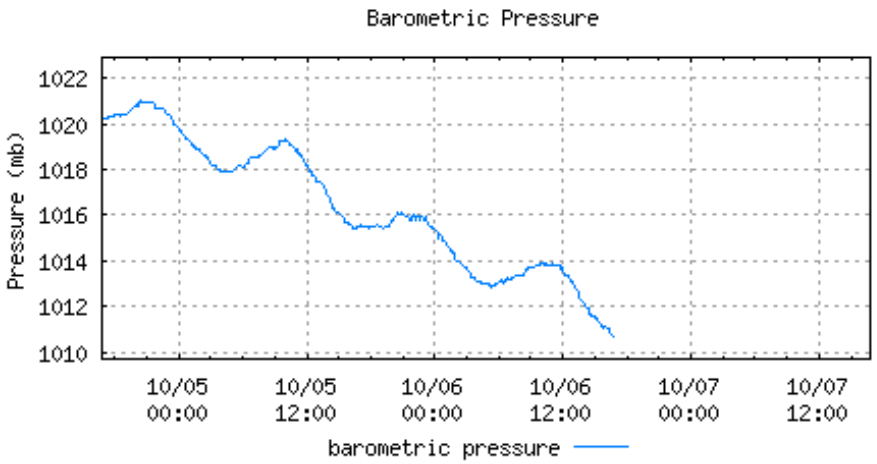
Last Observed Sample: 10/06/2017 16:42 (CDT). Data relative to MHHW
Observed: 1.10 ft. Predicted: -0.40 ft. Residual: 1.50 ft.
Historical Maximum Water Level: n/a
Next High Tide: 10/06/2017 23:17 (CDT), -0.14 ft.

NOAA/NOS/CO-OPS 8760721 Pilottown, LA



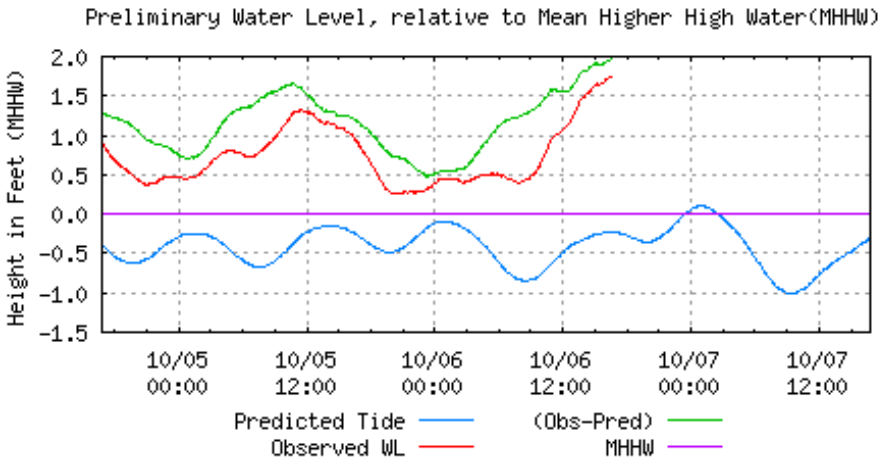
Last Observed Sample: 10/06/2017 16:42 (CDT)
Wind Speed: 7 knots Gusts: 12 knots Direction: 77° T

NOAA/NOS/CO-OPS 8760721 Pilottown, LA



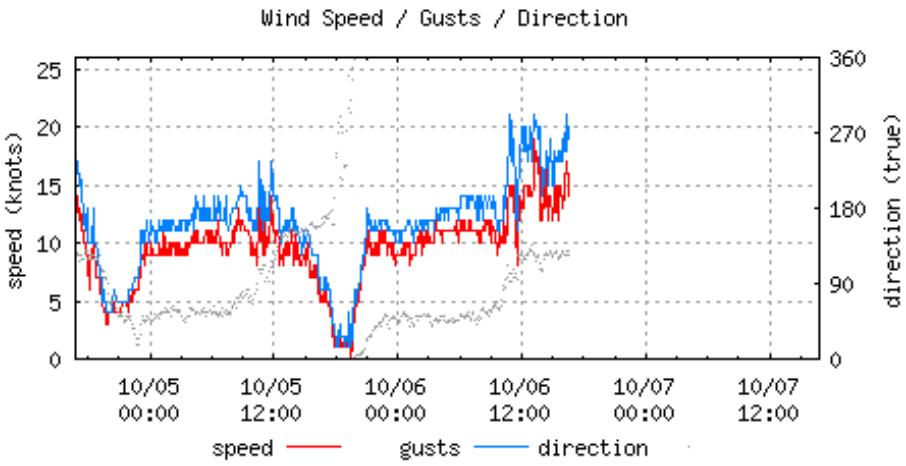
Last Observed Sample: 10/06/2017 16:42 (CDT)
Barometric Pressure: 1010.7 mb

NOAA/NOS/CO-OPS 8747437 Bay Waveland Yacht Club, MS



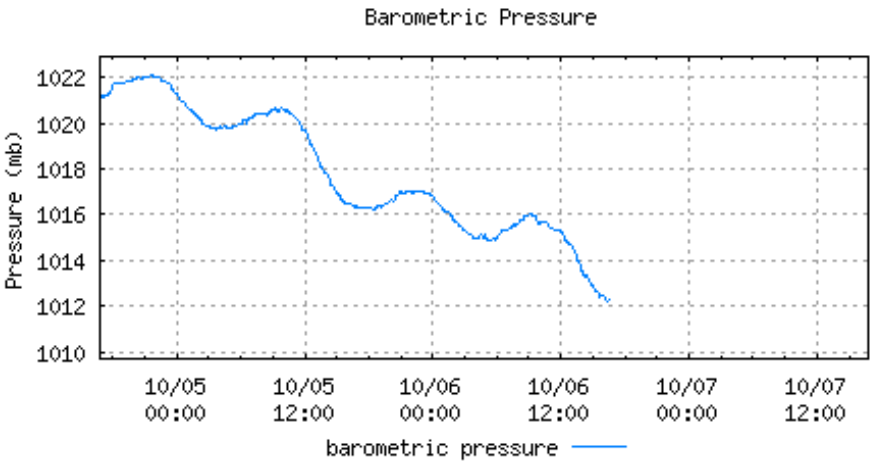
Last Observed Sample: 10/06/2017 16:42 (CDT). Data relative to MHHW
Observed: 1.78 ft. Predicted: -0.23 ft. Residual: 2.01 ft.
Historical Maximum Water Level: Sep 1 2008, 9.10 ft.
Next High Tide: 10/07/2017 00:56 (CDT), 0.10 ft.

NOAA/NOS/CO-OPS 8747437 Bay Waveland Yacht Club, MS



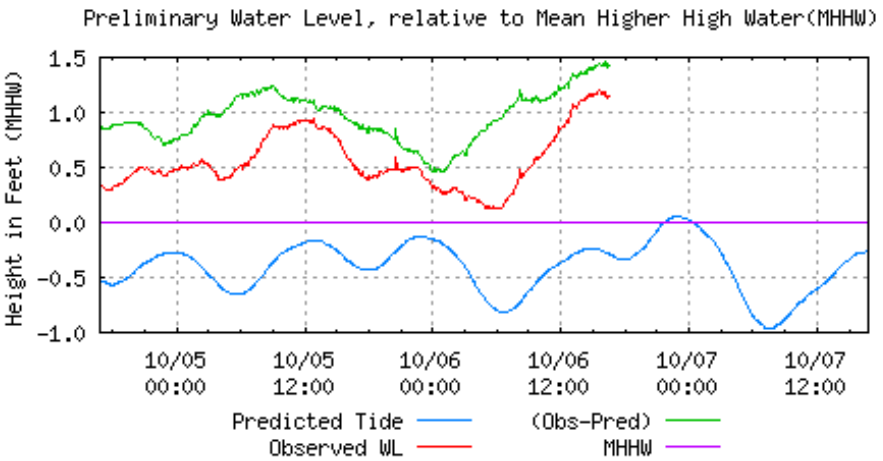
Last Observed Sample: 10/06/2017 16:42 (CDT)
Wind Speed: 14 knots Gusts: 19 knots Direction: 125° T

NOAA/NOS/CO-OPS 8747437 Bay Waveland Yacht Club, MS



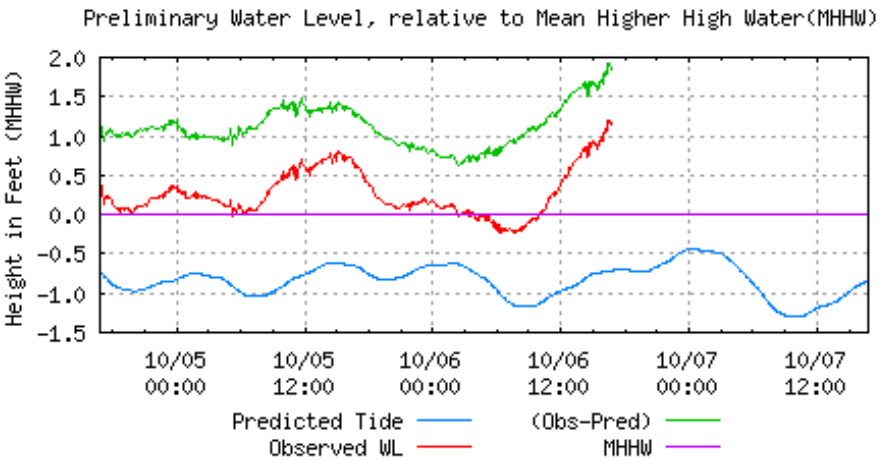
Last Observed Sample: 10/06/2017 16:42 (CDT)
Barometric Pressure: 1012.2 mb

NOAA/NOS/CO-OPS 8741533 Pascagoula NOAA Lab, MS



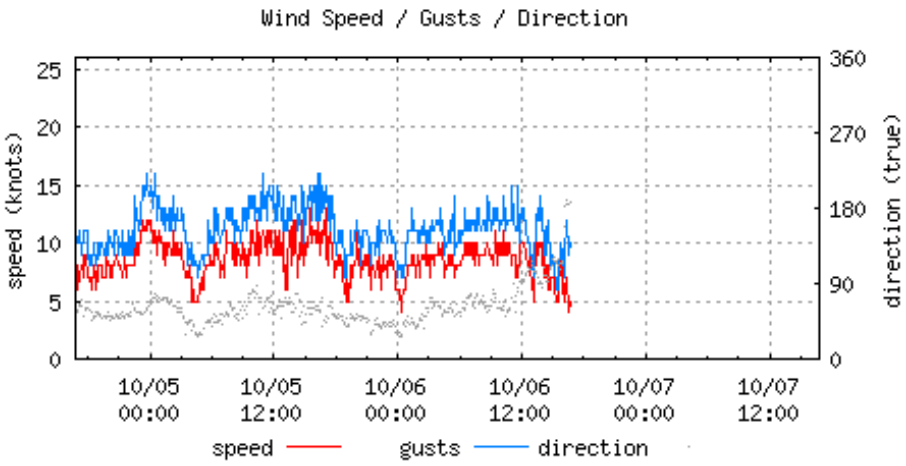
Last Observed Sample: 10/06/2017 16:36 (CDT). Data relative to MHHW
Observed: 1.13 ft. Predicted: -0.30 ft. Residual: 1.43 ft.
Historical Maximum Water Level: Sep 1 2008, 4.90 ft.
Next High Tide: 10/06/2017 22:55 (CDT), 0.06 ft.

NOAA/NOS/CO-OPS 8736897 Coast Guard Sector Mobile, AL



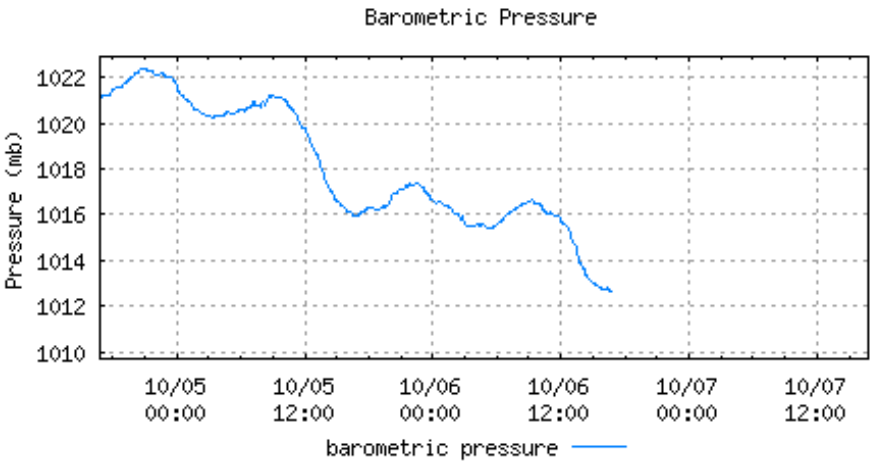
Last Observed Sample: 10/06/2017 16:42 (CDT). Data relative to MHHW
Observed: 1.14 ft. Predicted: -0.71 ft. Residual: 1.85 ft.
Historical Maximum Water Level: Sep 1 2008, 3.80 ft.
Next High Tide: 10/07/2017 00:17 (CDT), -0.43 ft.

NOAA/NOS/CO-OPS 8736897 Coast Guard Sector Mobile, AL



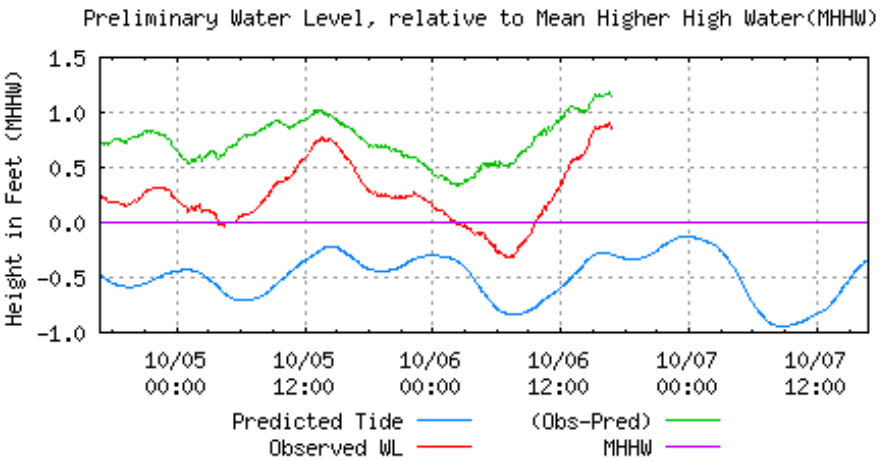
Last Observed Sample: 10/06/2017 16:42 (CDT)
Wind Speed: 5 knots Gusts: 10 knots Direction: 187° T

NOAA/NOS/CO-OPS 8736897 Coast Guard Sector Mobile, AL



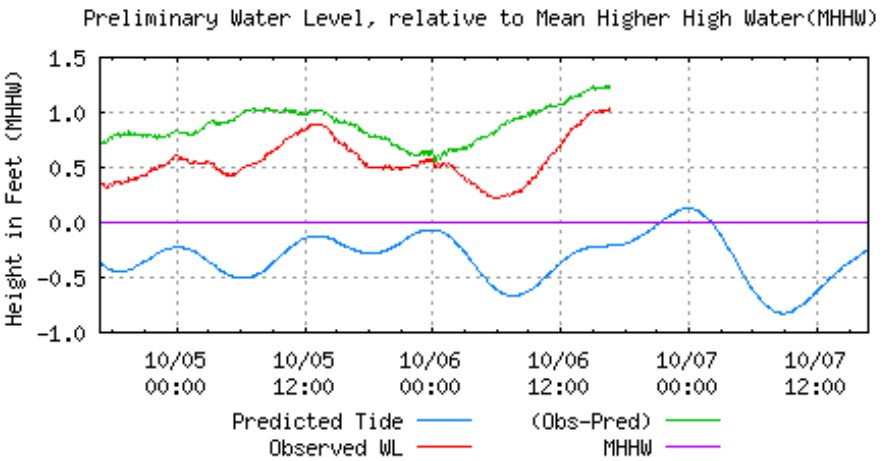
Last Observed Sample: 10/06/2017 16:42 (CDT)
Barometric Pressure: 1012.6 mb

NOAA/NOS/CO-OPS 8732828 Weeks Bay, Mobile Bay, AL



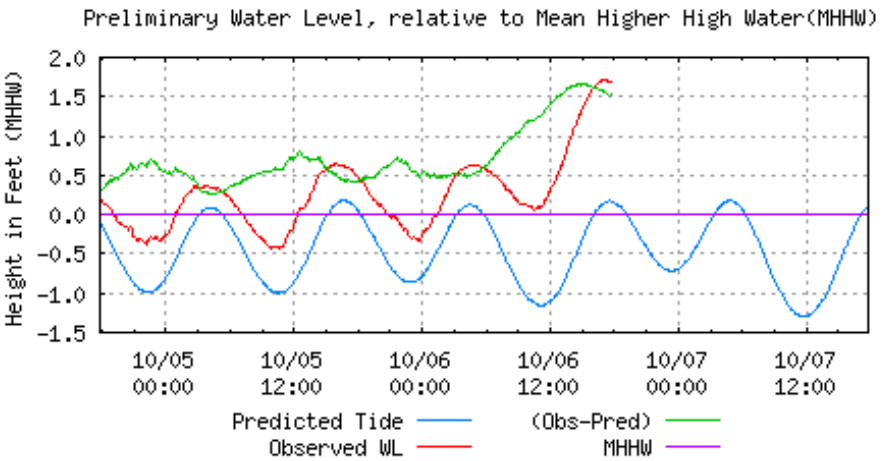
Last Observed Sample: 10/06/2017 16:42 (CDT). Data relative to MHHW
Observed: 0.86 ft. Predicted: -0.29 ft. Residual: 1.15 ft.
Historical Maximum Water Level: Aug 29 2012, 2.85 ft.
Next High Tide: 10/06/2017 23:43 (CDT), -0.12 ft.

NOAA/NOS/CO-OPS 8729840 Pensacola, FL



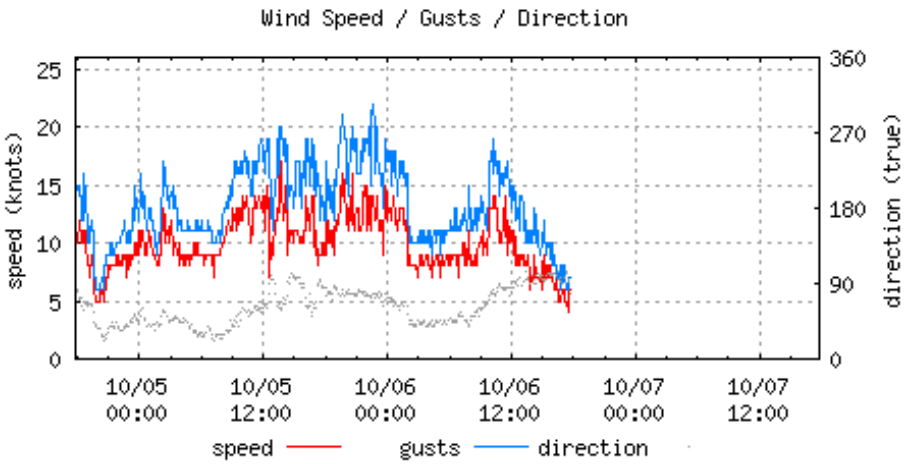
Last Observed Sample: 10/06/2017 16:36 (CDT). Data relative to MHHW
Observed: 1.03 ft. Predicted: -0.21 ft. Residual: 1.24 ft.
Historical Maximum Water Level: Sep 18 1926, 7.41 ft.
Next High Tide: 10/06/2017 23:55 (CDT), 0.12 ft.

NOAA/NOS/CO-OPS 8728690 Apalachicola, FL



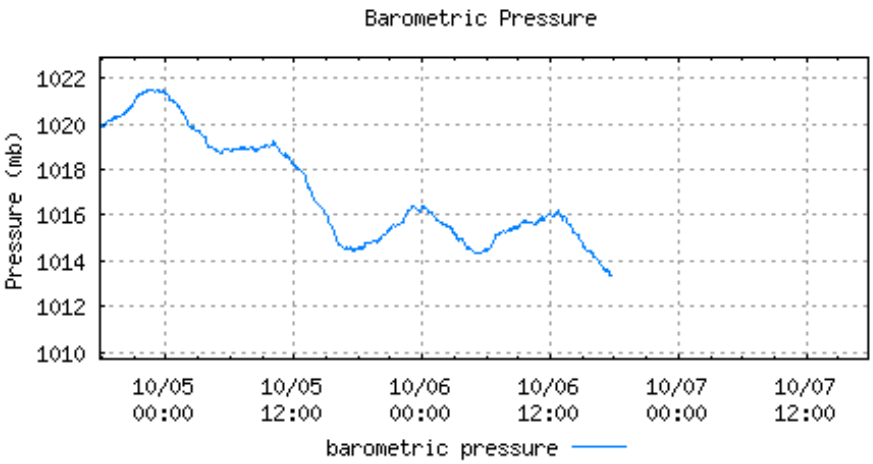
Last Observed Sample: 10/06/2017 17:42 (EDT). Data relative to MHHW
Observed: 1.70 ft. Predicted: 0.17 ft. Residual: 1.53 ft.
Historical Maximum Water Level: Jul 10 2005, 6.43 ft.
Next High Tide: 10/07/2017 04:51 (EDT), 0.18 ft.

NOAA/NOS/CO-OPS 8728690 Apalachicola, FL



Last Observed Sample: 10/06/2017 17:42 (EDT)
Wind Speed: 6 knots Gusts: 7 knots Direction: 77° T

NOAA/NOS/CO-OPS 8728690 Apalachicola, FL



Last Observed Sample: 10/06/2017 17:42 (EDT)

Barometric Pressure: 1013.4 mb

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
8764227	LAWMA, Amerada Pass, LA	10/06/2017 16:42 (CDT)	1.20 ft	-0.13 ft	1.33 ft	1.34 ft
8761724	Grand Isle, LA	10/06/2017 16:42 (CDT)	1.24 ft	-0.04 ft	1.28 ft	1.25 ft
8760721	Pilottown, LA	10/06/2017 16:42 (CDT)	1.10 ft	-0.40 ft	1.50 ft	1.10 ft
8747437	Bay Waveland Yacht Club, MS	10/06/2017 16:42 (CDT)	1.78 ft	-0.23 ft	2.01 ft	1.78 ft
8741533	Pascagoula NOAA Lab, MS	10/06/2017 16:36 (CDT)	1.13 ft	-0.30 ft	1.43 ft	1.19 ft
8736897	Coast Guard Sector Mobile, AL	10/06/2017 16:42 (CDT)	1.14 ft	-0.71 ft	1.85 ft	1.20 ft
8732828	Weeks Bay, Mobile Bay, AL	n/a	n/a	n/a	n/a	n/a
8729840	Pensacola, FL	10/06/2017 16:36 (CDT)	1.03 ft	-0.21 ft	1.24 ft	1.03 ft
8728690	Apalachicola, FL	10/06/2017 17:42 (EDT)	1.70 ft	0.17 ft	1.53 ft	1.72 ft

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