Storm Analysis

As of 8/31/2016 10:00 CDT, water levels along the Gulf Coast from Mississippi to Naples, FL are elevated and range from 0.7 to 2.0 feet above normal tide levels. Winds remain between 5 and 15 knots with slightly higher gusts at this time. Barometric pressure is slowly falling across the area.
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: TROPICAL DEPRESSION NINE ADVISORY NUMBER 12
NWS NATIONAL HURRICANE CENTER MIAMI FL 1000 AM CDT WED AUG 31 2016

...DEPRESSION NEARLY STATIONARY BUT SHOULD RESUME HEADING FOR THE FLORIDA GULF COAST TODAY......EXPECTED TO STRENGTHEN...

SUMMARY OF 1000 AM CDT...INFORMATION

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LOCATION...24.6N 88.0W
ABOUT 395 MI...SSW OF APALACHICOLA FLORIDA
ABOUT 415 MI...WSW OF TAMPA FLORIDA
MAXIMUM SUSTAINED WINDS...35 MPH
PRESENT MOVEMENT...STATIONARY
MINIMUM CENTRAL PRESSURE...1001 MB

WATCHES AND WARNINGS

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CHANGES WITH THIS ADVISORY:

A Tropical Storm Watch has been issued for the United States Atlantic coast from Marineland Florida to Altamaha Sound Georgia.

SUMMARY OF WATCHES AND WARNINGS IN EFFECT:

A Hurricane Watch is in effect for...
* Anclote River to Indian Pass

A Tropical Storm Warning is in effect for...
* Anclote River to the Walton/Bay County line

A Tropical Storm Watch is in effect for...
* Marineland Florida to Altamaha Sound Georgia

A Hurricane Watch means that hurricane conditions are possible within the watch area. A watch is typically issued 48 hours before the anticipated first occurrence of tropical-storm-force winds, conditions that make outside preparations difficult or dangerous.

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, generally within 48 hours.

Interests along the United States east coast from Georgia through the Carolinas should monitor the progress of this system.

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 1000 AM CDT, the center of Tropical Depression Nine was located near latitude 24.6 North, longitude 88.0 West. The depression is currently nearly stationary. A north-northeastward motion is expected to begin later today, and a turn toward the northeast with increasing forward speed is expected on Thursday. On the forecast track, the center of the tropical cyclone will approach the northwest Florida coast in the warning area on Thursday afternoon.

Maximum sustained winds are near 35 mph with higher gusts. Strengthening is forecast during the next 48 hours, and the depression is expected to become a tropical storm later today, and it could be near hurricane strength by the time landfall occurs.

The estimated minimum central pressure is 1001 mb.

HAZARDS AFFECTING LAND

WIND: Tropical storm conditions are expected to first reach the coast within the warning area on Thursday afternoon. Hurricane conditions are possible over portions of the hurricane watch area beginning Thursday afternoon. Tropical storm conditions are possible in the tropical storm watch area by early Friday.

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. There is a danger of life-threatening inundation within the next 36 to 48 hours along the Gulf coast of Florida from Aripeka to Indian Pass. For a depiction of areas at risk, please see the Prototype National Weather Service Storm Surge Watch/Warning Graphic. Persons located within these areas should take all necessary actions to protect life and property from rising water. Promptly follow any instructions, including evacuation orders, from local officials.

The water could reach the following heights above ground if the peak surge occurs at the time of high tide...

- Indian Pass to Ochlockonee River...2 to 4 feet
- Ochlockonee River to Chassahowitzka...3 to 5 feet
- Chassahowitzka to Aripeka...2 to 4 feet
- Aripeka to Bonita Beach...including Tampa Bay...1 to 2 feet

The Prototype National Weather Service Storm Surge Watch/Warning Graphic is a depiction of areas that would qualify for inclusion under a storm surge watch or warning currently under development by the National Weather Service and planned for operational use in
2017. This prototype graphic is available at www.hurricanes.gov/graphics_at4.shtml?wsurge

RAINFALL: The depression is expected to produce additional rain accumulations of 2 to 4 inches over western Cuba through today, with maximum storm total amounts up to 20 inches. These rains could cause life-threatening flash floods and mud slides. Storm total rainfall amounts of 5 to 10 inches are possible over portions of central and northern Florida through Friday, with isolated maximum amounts of 15 inches possible. Coastal areas of Georgia and the Carolinas are expected to receive storm total rainfall of 4 to 7 inches, with local amounts of 10 inches possible through Saturday morning. These rains may cause flooding and flash flooding.

TORNADOES: Isolated tornadoes are possible late tonight into Thursday morning mainly across central Florida. A few tornadoes are possible Thursday afternoon into Thursday night over north Florida and southeast Georgia.

NEXT ADVISORY
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Next intermediate advisory at 100 PM CDT.
Next complete advisory at 400 PM CDT.

Forecaster Pasch

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: Cedar Key - Water Level, Cedar Key - Winds, Cedar Key - Barometric, Clearwater Beach - Water Level, Clearwater Beach - Winds, Clearwater Beach - Barometric, St Petersburg, Tampa Bay - Water Level, St Petersburg, Tampa Bay - Winds, St Petersburg, Tampa Bay - Barometric, Old Port Tampa - Water Level, Old Port Tampa - Winds, Old Port Tampa - Barometric, Fort Myers - Water Level, Fort Myers - Winds, Fort Myers - Barometric, Naples - Water Level, Naples - Barometric, Apalachicola - Water Level, Apalachicola - Winds, Panama City Beach - Water Level, Panama City Beach - Winds, Pensacola - Water Level, Pensacola - Winds, Dauphin Island - Water Level, Dauphin Island - Winds, Pascagoula NOAA Lab - Water Level
NOAA/NOS/CO-OPS 8727520 Cedar Key, FL

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

**Last Observed Sample:** 08/31/2016 12:06 (EDT). Data relative to MHHW

- **Observed:** 1.76 ft.
- **Predicted:** -0.11 ft.
- **Residual:** 1.87 ft.

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

**Next High Tide:** 08/31/2016 13:48 (EDT), 0.50 ft.

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**Wind Speed / Gusts / Direction**

**Last Observed Sample:** 08/31/2016 12:06 (EDT)

- **Wind Speed:** 12 knots
- **Gusts:** 15 knots
- **Direction:** 189° T
Barometric Pressure: 1013.1 mb

Last Observed Sample: 08/31/2016 12:06 (EDT)

Last Observed Sample: 08/31/2016 12:00 (EDT)

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

Next High Tide: 09/01/2016 00:29 (EDT), -0.31 ft.
Last Observed Sample: 08/31/2016 12:00 (EDT)

Wind Speed: 6 knots  Gusts: 8 knots  Direction: 134° T

Barometric Pressure: 1013.9 mb
Last Observed Sample: 08/31/2016 12:00 (EDT). Data relative to MHHW

- Observed: 1.24 ft. Predicted: 0.01 ft. Residual: 1.23 ft.
- Historical Maximum Water Level: Aug 31 1985, 4.00 ft.
- Next High Tide: 08/31/2016 14:01 (EDT), 0.35 ft.

Last Observed Sample: 08/31/2016 12:00 (EDT)

Wind Speed: 3 knots  Gusts: 5 knots  Direction: 156° T
NOAA/NOS/CO-OPS 8726520 St Petersburg, Tampa Bay, FL

Barometric Pressure

Last Observed Sample: 08/31/2016 12:00 (EDT)
Barometric Pressure: 1013.4 mb

NOAA/NOS/CO-OPS 8726607 Old Port Tampa, FL

Last Observed Sample: 08/31/2016 12:06 (EDT)
Data relative to MHHW
Observed: 1.12 ft. Predicted: -0.09 ft. Residual: 1.21 ft.
Historical Maximum Water Level: Oct 8 1996, 3.60 ft.
Next High Tide: 08/31/2016 14:32 (EDT), 0.49 ft.
Wind Speed: 3 knots  
Gusts: 4 knots  
Direction: 97° T
Preliminary Water Level, relative to Mean Higher High Water (MHHW)

Last Observed Sample: 08/31/2016 12:06 (EDT). Data relative to MHHW
Observed: 0.76 ft. Predicted: -0.46 ft. Residual: 1.22 ft.
Historical Maximum Water Level: Nov 23 1988, 3.41 ft.
Next High Tide: 08/31/2016 15:53 (EDT), 0.27 ft.

Wind Speed: 7 knots  
Gusts: 11 knots  
Direction: 145° T
NOAA/NOS/CO-OPS 8725520 Fort Myers, FL

Barometric Pressure

![Graph showing barometric pressure over time](image)

Last Observed Sample: 08/31/2016 12:06 (EDT)
Barometric Pressure: 1012.5 mb

NOAA/NOS/CO-OPS 8725110 Naples, FL

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

![Graph showing water level over time](image)

Last Observed Sample: 08/31/2016 12:06 (EDT). Data relative to MHHW

- Observed: 1.09 ft
- Predicted: 0.50 ft
- Residual: 0.59 ft

Historical Maximum Water Level: Dec 21 1972, 3.11 ft
Next High Tide: 08/31/2016 12:12 (EDT), 0.50 ft
NOAA/NOS/CO-OPS 8725110 Naples, FL

Barometric Pressure

Barometric Pressure: 1013.0 mb

Last Observed Sample: 08/31/2016 12:06 (EDT)

NOAA/NOS/CO-OPS 8728690 Apalachicola, FL

Last Observed Sample: 08/31/2016 12:06 (EDT)

Data relative to MHHW


Historical Maximum Water Level: Jul 10 2005, 6.43 ft.

Next High Tide: 08/31/2016 15:35 (EDT), 0.21 ft.
NOAA/NOS/CO-OPS 8728690 Apalachicola, FL

Wind Speed / Gusts / Direction

Last Observed Sample: 08/31/2016 12:06 (EDT)

Wind Speed: 9 knots Gusts: 12 knots Direction: 41° T

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

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

Last Observed Sample: 08/31/2016 11:06 (CDT). Data relative to MHHW

Observed: 1.16 ft. Predicted: 0.23 ft. Residual: 0.93 ft.

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

Next High Tide: 09/01/2016 00:01 (CDT), -0.47 ft.
NOAA/NOS/CO-OPS 8729210 Panama City Beach, FL

Wind Speed / Gusts / Direction

Last Observed Sample: 08/31/2016 11:06 (CDT)
Wind Speed: 9 knots  Gusts: 16 knots  Direction: 93° T

NOAA/NOS/CO-OPS 8729840 Pensacola, FL

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

Last Observed Sample: 08/31/2016 11:00 (CDT). Data relative to MHHW
Observed: 1.17 ft.  Predicted: 0.26 ft.  Residual: 0.91 ft.
Historical Maximum Water Level: Sep 18 1926, 7.41 ft.
Next High Tide: 08/31/2016 11:10 (CDT), 0.27 ft.
NOAA/NOS/CO-OPS 8729840 Pensacola, FL

Wind Speed / Gusts / Direction

Last Observed Sample: 08/31/2016 11:00 (CDT)
Wind Speed: 3 knots Gusts: 6 knots Direction: 103° T

NOAA/NOS/CO-OPS 8735180 Dauphin Island, AL

Last Observed Sample: 08/31/2016 11:00 (CDT)
Data relative to MHHW
Observed: 1.23 ft. Predicted: 0.16 ft. Residual: 1.07 ft.
Historical Maximum Water Level: Sep 16 2004, 5.94 ft.
Next High Tide: 09/01/2016 11:12 (CDT), 0.04 ft.
NOAA/NOS/CO-OPS 8735180 Dauphin Island, AL

Wind Speed: 13 knots
Gusts: 15 knots
Direction: 50° T

Last Observed Sample: 08/31/2016 11:00 (CDT)

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

Last Observed Sample: 08/31/2016 11:06 (CDT), Data relative to MHHW

- Observed: 1.10 ft.
- Predicted: 0.14 ft.
- Residual: 0.96 ft.

Historical Maximum Water Level: Sep 1 2008, 4.90 ft.
Next High Tide: 09/01/2016 10:31 (CDT), 0.06 ft.
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<thead>
<tr>
<th>Station ID</th>
<th>Station Name</th>
<th>Date/Time</th>
<th>Observed Water Level</th>
<th>Predicted Tide</th>
<th>Residual Water Level</th>
<th>24 Hour Maximum Storm Tide</th>
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