As of 10/10/2018 17:00 CDT, water levels at stations along the Gulf of Mexico coastline are elevated but have started to fall. Measured water levels from central Florida to Louisiana range from 1.6 to 6 feet above tidal predictions with the highest water levels being recorded at Apalachicola, FL as Hurricane Michael moves inland.
Winds around the region are reading values between 10 to 20 knots with gusts up to 30 knots. But the highest winds are being reported at Panama City Beach with winds of 40 kts and gusts up to 50 kts. Winds speeds are decreasing around where Hurricane Michael made landfall (near Panama City, FL). Barometric pressure has started to rise at most stations 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 visit 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 visit the Storm QuickLook Homepage.

Analyst: RCL

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Select National Hurricane Center Advisory BULLETIN
Hurricane Michael Advisory Number 17
NWS National Hurricane Center Miami FL
400 PM CDT Wed Oct 10 2018

...EYE OF MICHAEL APPROACHING EXTREME SOUTHEASTERN ALABAMA AND SOUTHWEST GEORGIA...
...LIFE-THREATENING STORM SURGE AND CATASTROPHIC WINDS CONTINUE...

SUMMARY OF 400 PM CDT...2100 UTC...INFORMATION
----------------------------------------------------------------------------------------
LOCATION...30.9N 85.1W
ABOUT 30 MI...50 KM W OF BAINBRIDGE GEORGIA
ABOUT 70 MI...115 KM SW OF ALBANY GEORGIA
MAXIMUM SUSTAINED WINDS...125 MPH...205 KM/H
PRESENT MOVEMENT...NNE OR 25 DEGREES AT 16 MPH...26 KM/H
MINIMUM CENTRAL PRESSURE...932 MB...27.53 INCHES

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

The Hurricane Warning west of the Okaloosa/Walton County Line has been discontinued.

The Tropical Storm Warning along the west coast of Florida has been discontinued south of the Suwanee River.

The Storm Surge Watch south of Anclote River has been discontinued.

SUMMARY OF WATCHES AND WARNINGS IN EFFECT:
A Storm Surge Warning is in effect for...
* Okaloosa/Walton County Line Florida to Anclote River Florida

A Storm Surge Watch is in effect for...
* Ocracoke Inlet North Carolina to Duck North Carolina

A Hurricane Warning is in effect for...
* Okaloosa/Walton County Line to Suwannee River Florida

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

A Hurricane Warning means that hurricane conditions are expected somewhere within the warning area.

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.

Interests elsewhere across the southeastern United States should monitor the progress of Michael.

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 OUTLOOK
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At 400 PM CDT (2100 UTC), the eye of Hurricane Michael was located near latitude 30.9 North, longitude 85.1 West. Michael is moving toward the north-northeast near 16 mph (26 km/h). A turn toward the northeast is expected this evening or tonight. A motion toward the northeast at a faster forward speed is forecast on Thursday through Friday night. On the forecast track, the core of Michael will move across southeastern Alabama and southwestern Georgia through this evening. Michael will then move northeastward across the southeastern United States through Thursday, and then move off the Mid-Atlantic coast away from the United States on late Thursday night and Friday.
Maximum sustained winds are near 125 mph (205 km/h) with higher
gusts. Michael is a dangerous category 3 hurricane on the
Saffir-Simpson Hurricane Wind Scale. Michael should weaken as it
crosses the southeastern United States through Thursday. Michael is
forecast to strengthen Thursday night and Friday when it moves off
the east coast of the United States and becomes a post-tropical
cyclone on Friday.

Hurricane-force winds extend outward up to 40 miles (65 km) from the
center and tropical-storm-force winds extend outward up to 160 miles
(260 km). A wind gust to 69 mph (111 km/h) was recently reported
at the airport in Tallahassee, Florida. A sustained wind of 59 mph
(96 km/h) with a gust to 74 mph (118 km/h) was observed at a
University of Florida/Weatherflow observing site just north of St.
George Island, Florida.

The estimated minimum central pressure is 932 mb (27.53 inches).

HAZARDS AFFECTING LAND

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STORM SURGE: Water levels are beginning to recede in some
locations, however, the combination of a dangerous storm surge
and the tide will continue to cause normally dry areas near the
coast to be flooded by rising waters moving inland from the
shoreline. The water has the potential to reach the following
heights above ground if peak surge occurs at the time of high
tide...

Tyndall Air Force Base FL to Aucilla River FL...5-10 ft
Okaloosa/Walton County Line FL to Tyndall Air Force Base...3-5 ft
Aucilla River FL to Chassahowitzka FL...4-6 ft
Chassahowitzka to Anclote River FL...2-4 ft
Sound side of the North Carolina Outer Banks from Ocracoke Inlet to
Duck...2-4 ft

Water levels remain high along the coast of the Florida Panhandle. A
National Ocean Service water level station at Apalachicola recently
reported over 7 feet of inundation above ground level.

WIND: Tropical storm and hurricane conditions are occurring over
portions of the Florida Panhandle, southeastern Alabama, and
southwestern Georgia and will continue to spread inland over
south-central Georgia tonight.

With the eye of Michael moving inland, residents are reminded to not
venture out into the relative calm of the eye, as hazardous winds
will increase very quickly as the eye passes!

Tropical storm conditions are expected to spread northward within
the warning area along the southeast U.S. coast beginning tonight.
through Friday.

Gale- to storm-force winds are expected over portions southeastern Virginia, extreme northeastern North Carolina, and the Delmarva Peninsula as Michael becomes post-tropical off the Mid-Atlantic coast late Thursday night or Friday.

RAINFALL: Michael is expected to produce the following rainfall amounts through Friday...

Florida Panhandle and Big Bend, southeast Alabama, and portions of southwest and central Georgia...4 to 8 inches, with isolated maximum amounts of 12 inches. This rainfall could lead to life-threatening flash floods.

The remainder of Georgia, the Carolinas, and into Virginia...3 to 6 inches, with isolated maximum amounts of 8 inches. This rainfall could lead to life-threatening flash floods.

Florida Peninsula, eastern Mid Atlantic, southern New England coast...1 to 3 inches.

TORNADOES: Isolated tornadoes are possible through tonight from northern Florida into much of Georgia and southern South Carolina.

SURF: Swells generated by Michael will affect the coasts of the eastern, northern, and western Gulf of Mexico through Thursday morning. 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 700 PM CDT.
Next complete advisory at 1000 PM CDT.

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: Apalachicola - Water Level, Apalachicola - Winds, Apalachicola - Barometric, Panama City Beach - Water Level, Panama City Beach - Winds, Panama City Beach - Barometric, Panama City - Water Level, Panama City - Barometric, Cedar Key - Water Level, Cedar Key - Winds, Cedar Key - Barometric, Clearwater Beach - Water Level, Clearwater Beach - Winds, Clearwater Beach - Barometric, Old Port Tampa - Water Level, Old Port Tampa - Winds, St. Petersburg, Tampa Bay - Water Level, St. Petersburg, Tampa Bay - Winds, Pensacola - Water Level, Pensacola - Winds, Pensacola - Barometric, Dauphin Island - Water Level, Dauphin Island - Winds, Dauphin Island - Barometric, Coast Guard Sector Mobile - Water Level, Coast Guard Sector Mobile - Winds, Pascagoula NOAA Lab
NOAA/NOS/CO-OPS 8728690 Apalachicola, FL

Last Observed Sample: 10/10/2018 18:42 (EDT). Data relative to MHHW
  Observed: 3.93 ft.  Predicted: 0.10 ft.  Residual: 3.83 ft.
  Historical Maximum Water Level: Jul 10 2005, 6.43 ft.
  Next High Tide: 10/11/2018 04:58 (EDT), 0.13 ft.

NOAA/NOS/CO-OPS 8728690 Apalachicola, FL

Wind Speed / Gusts / Direction

Last Observed Sample: 10/10/2018 18:42 (EDT)
  Wind Speed: 14 knots  Gusts: 22 knots  Direction: 248° T
NOAA/NOS/CO-OPS 8728690 Apalachicola, FL

Last Observed Sample: 10/10/2018 18:42 (EDT)
Barometric Pressure: 999.3 mb

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

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

Last Observed Sample: 10/10/2018 17:42 (CDT). Data relative to MHHW
Observed: 2.28 ft. Predicted: -0.08 ft. Residual: 2.36 ft.
Next High Tide: 10/10/2018 20:46 (CDT), 0.27 ft.
NOAA/NOS/CO-OFS 8729210 Panama City Beach, FL

Last Observed Sample: 10/10/2018 17:42 (CDT)

Wind Speed: 37 knots  
Gusts: 45 knots  
Direction: 287° T

Barometric Pressure: 998.7 mb
NOAA/NOS/CO-OPS 8729108 Panama City, FL

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

Last Observed Sample: 10/10/2018 17:42 (CDT). Data relative to MHHW

- Observed: 2.83 ft.
- Predicted: -0.12 ft.
- Residual: 2.95 ft.

Next High Tide: 10/10/2018 22:30 (CDT), 0.23 ft.

NOAA/NOS/CO-OPS 8729108 Panama City, FL

Barometric Pressure

Last Observed Sample: 10/10/2018 17:42 (CDT)

Barometric Pressure: 998.0 mb
Last Observed Sample: 10/10/2018 18:42 (EDT). Data relative to MHHW
Historical Maximum Water Level: Sep 2 2016, 5.98 ft.
Next High Tide: 10/11/2018 03:18 (EDT), 0.24 ft.

Last Observed Sample: 10/10/2018 18:42 (EDT)
Wind Speed: 21 knots Gusts: 28 knots Direction: 184° T
NOAA/NOS/CO-OPS 8727520 Cedar Key, FL

Barometric Pressure

Last Observed Sample: 10/10/2018 18:42 (EDT)
Barometric Pressure: 1004.6 mb

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

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

Last Observed Sample: 10/10/2018 18:36 (EDT). Data relative to MHHW
Observed: -0.44 ft. Predicted: -1.68 ft. Residual: 1.24 ft.
Historical Maximum Water Level: Mar 13 1993, 4.00 ft.
Next High Tide: 10/11/2018 00:46 (EDT), 0.36 ft.
NOAA/NOS/CO-OPS 8726724 Clearwater Beach, FL

Wind Speed / Gusts / Direction

Last Observed Sample: 10/10/2018 18:36 (EDT)
Wind Speed: 26 knots Gusts: 31 knots Direction: 190° T

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

Barometric Pressure

Last Observed Sample: 10/10/2018 18:36 (EDT)
Barometric Pressure: 1007.6 mb
NOAA/NOS/CO-OPS 8726607 Old Port Tampa, FL

Last Observed Sample: 10/10/2018 18:42 (EDT). Data relative to MHHW
Observed: 1.34 ft. Predicted: -0.38 ft. Residual: 1.72 ft.
Historical Maximum Water Level: Oct 8 1996, 3.60 ft.
Next High Tide: 10/11/2018 03:50 (EDT), 0.31 ft.

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

Last Observed Sample: 10/10/2018 18:42 (EDT)
Wind Speed: 14 knots Gusts: 21 knots Direction: 181° T
Last Observed Sample: 10/10/2018 18:24 (EDT). Data relative to MHHW

- Observed: 1.15 ft. Predicted: -0.49 ft. Residual: 1.64 ft.
- Historical Maximum Water Level: Aug 31 1985, 4.00 ft.
- Next High Tide: 10/11/2018 03:09 (EDT), 0.27 ft.

Last Observed Sample: 10/10/2018 18:24 (EDT)

- Wind Speed: 17 knots
- Gusts: 23 knots
- Direction: 205° T
Last Observed Sample: 10/10/2018 17:36 (CDT). Data relative to MHHW

Observed: 1.77 ft.  Predicted: -0.20 ft.  Residual: 1.97 ft.

Historical Maximum Water Level: Sep 16 2004, 9.54 ft.

Next High Tide: 10/10/2018 23:58 (CDT), 0.28 ft.

Last Observed Sample: 10/10/2018 17:36 (CDT)

Wind Speed: 8 knots  Gusts: 46 knots  Direction: 310° T
NOAA/NOS/CO-OPS 8729840 Pensacola, FL

Barometric Pressure

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

Last Observed Sample: 10/10/2018 17:24 (CDT)
Data relative to MHHW
Observed: 1.79 ft. Predicted: -0.23 ft. Residual: 2.02 ft.
Historical Maximum Water Level: Sep 12 1979, 7.96 ft.
Next High Tide: 10/10/2018 23:23 (CDT), 0.23 ft.
NOAA/NOS/CO-OPS 8735180 Dauphin Island, AL

**Wind Speed / Gusts / Direction**

Last Observed Sample: 10/10/2018 17:24 (CDT)

Wind Speed: 14 knots  
Gusts: 14 knots  
Direction: 318° T

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**Barometric Pressure**

Last Observed Sample: 10/10/2018 17:24 (CDT)

Barometric Pressure: 1004.8 mb
Last Observed Sample: 10/10/2018 17:30 (CDT). Data relative to MHHW
Observed: 1.14 ft. Predicted: -0.82 ft. Residual: 1.96 ft.
Historical Maximum Water Level: Oct 8 2017, 5.38 ft.
Next High Tide: 10/11/2018 00:22 (CDT), -0.35 ft.

Wind Speed: 8 knots  Gusts: 14 knots  Direction: 339° T
NOAA/NOS/CO-OPS 8741533 Pascagoula NOAA Lab, MS

Last Observed Sample: 10/10/2018 17:36 (CDT). Data relative to MHHW
Observed: 1.85 ft. Predicted: -0.27 ft. Residual: 2.12 ft.
Historical Maximum Water Level: Oct 8 2017, 6.20 ft.
Next High Tide: 10/10/2018 22:44 (CDT), 0.20 ft.

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

Last Observed Sample: 10/10/2018 17:42 (CDT). Data relative to MHHW
Observed: 1.30 ft. Predicted: -0.26 ft. Residual: 1.56 ft.
Historical Maximum Water Level: Sep 1 2008, 9.10 ft.
Next High Tide: 10/11/2018 00:45 (CDT), 0.25 ft.
NOAA/NOS/CO-OPS 8747437 Bay Waveland Yacht Club, MS

Wind Speed / Gusts / Direction

Last Observed Sample: 10/10/2018 17:42 (CDT)
Wind Speed: 9 knots Gusts: 11 knots Direction: 326° T

NOAA/NOS/CO-OPS 8761305 Shell Beach, LA

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

Last Observed Sample: 10/10/2018 17:42 (CDT). Data relative to MHHW
Observed: 1.66 ft. Predicted: -0.21 ft. Residual: 1.87 ft.
Next High Tide: 10/11/2018 03:46 (CDT), 0.28 ft.
NOAA/NOS/CO-OPS 8761305 Shell Beach, LA

Wind Speed / Gusts / Direction

Last Observed Sample: 10/10/2018 17:42 (CDT)
Wind Speed: 16 knots Gusts: 18 knots Direction: 302° T

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

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

Last Observed Sample: 10/10/2018 18:30 (EDT). Data relative to MHHW
Observed: -4.61 ft. Predicted: -4.62 ft. Residual: 0.01 ft.
Historical Maximum Water Level: Oct 2 1898, 6.91 ft.
Next High Tide: 10/10/2018 22:46 (EDT), 0.63 ft.
NOAA/NOS/CO-OPS 8670870 Fort Pulaski, GA

Last Observed Sample: 10/10/2018 18:36 (EDT). Data relative to MHHW
Observed: -3.76 ft. Predicted: -4.09 ft. Residual: 0.33 ft.
Historical Maximum Water Level: Oct 8 2016, 4.94 ft.
Next High Tide: 10/10/2018 21:52 (EDT), 0.59 ft.

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

Last Observed Sample: 10/10/2018 18:30 (EDT). Data relative to MHHW
Observed: -2.20 ft. Predicted: -2.75 ft. Residual: 0.55 ft.
Historical Maximum Water Level: Sep 21 1989, 6.76 ft.
Next High Tide: 10/10/2018 21:44 (EDT), 0.42 ft.
NOAA/NOS/CO-OPS 8725520 Fort Myers, Caloosahatchee River, FL

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

Last Observed Sample: 10/10/2018 18:36 (EDT). Data relative to MHHW
  Observed: 1.34 ft. Predicted: -0.11 ft. Residual: 1.45 ft.
  Historical Maximum Water Level: Nov 23 1988, 3.41 ft.
  Next High Tide: 10/11/2018 05:05 (EDT), 0.20 ft.

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

Wind Speed / Gusts / Direction

Last Observed Sample: 10/10/2018 18:36 (EDT)
  Wind Speed: 6 knots Gusts: 15 knots Direction: 173° T
Last Observed Sample: 10/10/2018 18:30 (EDT). Data relative to MHHW

Observed: -0.29 ft. Predicted: -1.31 ft. Residual: 1.02 ft.

Historical Maximum Water Level: Sep 10 2017, 4.02 ft.

Next High Tide: 10/11/2018 01:34 (EDT), 0.41 ft.
<table>
<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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<td>3.93 ft</td>
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<td>2.31 ft</td>
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<td>-1.31 ft</td>
<td>1.02 ft</td>
<td>1.39 ft</td>
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Center for Operational Oceanographic Products & Services (CO-OPS) | National Ocean Service (NOS)  
National Oceanic and Atmospheric Administration | U.S. Department of Commerce