Storm Analysis

As of 07/31/2017 9:00 EDT, water levels along the western coast of Florida are slightly elevated and range between 0.25 and 1.55 ft above normal tide levels. Winds are steady, ranging between 5 and 15 knots. Wind gusts up to 40 knots have been observed at Naples, FL. Barometric pressure is following the normal diurnal pattern 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: AC

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SELECT NATIONAL HURRICANE CENTER ADVISORY INFORMATION: TROPICAL STORM EMILY
SPECIAL ADVISORY NUMBER 2
NWS NATIONAL HURRICANE CENTER MIAMI FL
800 AM EDT MON JUL 31 2017

...DEPRESSION BECOMES A TROPICAL STORM WEST OF TAMPA BAY...
...TROPICAL STORM WARNING ISSUED FOR WEST-CENTRAL FLORIDA...

WATCHES AND WARNINGS
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CHANGES WITH THIS ADVISORY:

A TROPICAL STORM WARNING HAS BEEN ISSUED FOR THE WEST COAST OF FLORIDA FROM ANCLEOTE RIVER SOUTHWARD TO BONITA BEACH.

SUMMARY OF WATCHES AND WARNINGS IN EFFECT:

A TROPICAL STORM WARNING IS IN EFFECT FOR...
* ANCLEOTE RIVER TO BONITA BEACH FLORIDA

A TROPICAL STORM WARNING MEANS THAT TROPICAL STORM CONDITIONS ARE LIKELY WITHIN THE WARNING AREA, IN THIS CASE WITHIN THE NEXT FEW 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
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AT 800 AM EDT, THE CENTER OF TROPICAL STORM EMILY WAS LOCATED ABOUT 45 MI WSW OF TAMPA FLORIDA. EMILY IS MOVING TOWARD THE EAST NEAR 8 MPH, AND THIS GENERAL MOTION IS EXPECTED TO CONTINUE TODAY. A TURN TOWARD THE NORTHEAST AND AN INCREASE IN FORWARD SPEED ARE EXPECTED TONIGHT OR TUESDAY. ON THE FORECAST TRACK, THE CENTER OF EMILY IS EXPECTED TO MOVE INLAND OVER THE WEST-CENTRAL FLORIDA PENINSULA LATER TODAY AND MOVE ACROSS CENTRAL FLORIDA THROUGH TONIGHT. EMILY IS EXPECTED TO MOVE OFFSHORE OF THE EAST-CENTRAL FLORIDA COAST EARLY TUESDAY.

NOAA DOPPLER RADAR DATA FROM TAMPA, FLORIDA, INDICATE THAT MAXIMUM SUSTAINED WINDS HAVE INCREASED TO NEAR 45 MPH WITH HIGHER GUSTS. LITTLE CHANGE IN STRENGTH IS FORECAST UNTIL LANDFALL OCCURS THIS AFTERNOON. EMILY IS EXPECTED TO WEAKEN TO A TROPICAL DEPRESSION WHILE IT MOVES ACROSS THE FLORIDA PENINSULA TONIGHT.
TROPICAL-STORM-FORCE WINDS EXTEND OUTWARD UP TO 60 MILES FROM THE CENTER.

THE ESTIMATED MINIMUM CENTRAL PRESSURE IS 1006 MB.

HAZARDS AFFECTING LAND
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RAINFALL: EMILY IS EXPECTED TO PRODUCE TOTAL RAIN ACCUMULATIONS OF 2 TO 4 INCHES THROUGH MONDAY NIGHT ALONG THE WEST COAST OF CENTRAL FLORIDA BETWEEN THE TAMPA BAY AREA AND NAPLES, WITH ISOLATED AMOUNTS UP TO 8 INCHES POSSIBLE. ELSEWHERE ACROSS CENTRAL AND SOUTH FLORIDA, 1 TO 2 INCHES OF RAIN IS EXPECTED WITH LOCALIZED AMOUNTS OF UP TO 4 INCHES POSSIBLE.

WIND: TROPICAL STORM CONDITIONS ARE LIKELY WITHIN THE WARNING AREA THROUGH THIS AFTERNOON.

NEXT ADVISORY
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NEXT COMPLETE ADVISORY AT 1100 AM EDT.

FORECASTER STEWART

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

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

Last Observed Sample: 07/31/2017 08:54 (EDT). Data relative to MHHW

- Predicted Tide: 0.19 ft
- Observed: 0.76 ft
- Residual: 0.95 ft

Historical Maximum Water Level: Sep 6 2004, 2.29 ft

Next High Tide: 07/31/2017 21:41 (EDT), -0.83 ft

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

**Barometric Pressure**

Last Observed Sample: 07/31/2017 08:54 (EDT)

Barometric Pressure: 1010.9 mb
Last Observed Sample: 07/31/2017 08:48 (EDT). Data relative to MHHW

- **Observed:** 0.88 ft.
- **Predicted:** -0.09 ft.
- **Residual:** 0.97 ft.

**Historical Maximum Water Level:** Aug 31 1985, 4.00 ft.

**Next High Tide:** 07/31/2017 22:49 (EDT), -0.78 ft.

Last Observed Sample: 07/31/2017 08:48 (EDT)

- **Wind Speed:** 9 knots
- **Gusts:** 15 knots
- **Direction:** 108° T
NOAA/NOS/CO-OPS 8726520 St Petersburg, Tampa Bay, FL

Barometric Pressure

Last Observed Sample: 07/31/2017 08:48 (EDT)
Barometric Pressure: 1011.7 mb

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

This data type is not currently available from this station.

Last Observed Sample: 07/31/2017 09:00 (EDT). Data relative to MHHW
Observed: 0.70 ft. Predicted: -0.08 ft. Residual: 0.78 ft.
Historical Maximum Water Level: Oct 8 1996, 3.60 ft.
Next High Tide: 07/31/2017 09:18 (EDT), -0.08 ft.
NOAA/NOS/CO-OPS 8726607 Old Port Tampa, FL

**Wind Speed / Gusts / Direction**

Last Observed Sample: 07/31/2017 09:00 (EDT)
Wind Speed: 7 knots  Gusts: 12 knots  Direction: 93° T

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**Barometric Pressure**

Last Observed Sample: 07/31/2017 09:00 (EDT)
Barometric Pressure: 1012.3 mb
NOAA/NOS/CO-OPS 8726667 Mckay Bay Entrance, FL

Last Observed Sample: 07/31/2017 09:00 (EDT). Data relative to MHHW
Observed: 0.64 ft. Predicted: -0.16 ft. Residual: 0.80 ft.
Next High Tide: 07/31/2017 09:09 (EDT), -0.16 ft.

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

Last Observed Sample: 07/31/2017 08:54 (EDT). Data relative to MHHW
Observed: -0.20 ft. Predicted: -0.74 ft. Residual: 0.54 ft.
Historical Maximum Water Level: Mar 13 1993, 4.00 ft.
Next High Tide: 07/31/2017 19:39 (EDT), -1.03 ft.
NOAA/NOS/CO-OPS 8726724 Clearwater Beach, FL

Wind Speed / Gusts / Direction

Last Observed Sample: 07/31/2017 08:54 (EDT)
Wind Speed: 13 knots Gusts: 18 knots Direction: 64° T

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

Barometric Pressure

Last Observed Sample: 07/31/2017 08:54 (EDT)
Barometric Pressure: 1011.8 mb
Last Observed Sample: 07/31/2017 09:00 (EDT). Data relative to MHHW

- Observed: 0.91 ft.
- Predicted: -0.20 ft.
- Residual: 1.11 ft.

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

Next High Tide: 07/31/2017 10:49 (EDT), -0.07 ft.

Last Observed Sample: 07/31/2017 09:00 (EDT)

- Wind Speed: 10 knots
- Gusts: 18 knots
- Direction: 159° T
NOAA/NOS/CO-OPS 8725520 Fort Myers, FL

Barometric Pressure

Last Observed Sample: 07/31/2017 09:00 (EDT)
Barometric Pressure: 1014.3 mb

NOAA/NOS/CO-OPS 8725110 Naples, FL

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

Last Observed Sample: 07/31/2017 09:00 (EDT). Data relative to MHHW
Observed: 0.99 ft. Predicted: -0.49 ft. Residual: 1.48 ft.
Historical Maximum Water Level: Dec 21 1972, 3.11 ft.
Next High Tide: 07/31/2017 20:29 (EDT), -0.87 ft.
Last Observed Sample: 07/31/2017 09:00 (EDT)
Wind Speed: 7 knots  
Gusts: 11 knots  
Direction: 251° T

Barometric Pressure: 1015.1 mb
NOAA/NOS/CO-OPS 8727520 Cedar Key, FL

Last Observed Sample: 07/31/2017 09:00 (EDT). Data relative to MHHW

Observed: -0.27 ft. Predicted: -0.23 ft. Residual: -0.04 ft.


Next High Tide: 07/31/2017 21:41 (EDT), -0.99 ft.

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

Wind Speed / Gusts / Direction

Last Observed Sample: 07/31/2017 09:00 (EDT)

Wind Speed: 13 knots Gusts: 17 knots Direction: 41° T
NOAA/NOS/CO-OPS 8727520 Cedar Key, FL

Last Observed Sample: 07/31/2017 09:00 (EDT)
Barometric Pressure: 1013.2 mb
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<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>07/31/2017 08:54 (EDT)</td>
<td>0.76 ft</td>
<td>-0.19 ft</td>
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<td>-0.23 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