

TROPICAL UPDATE

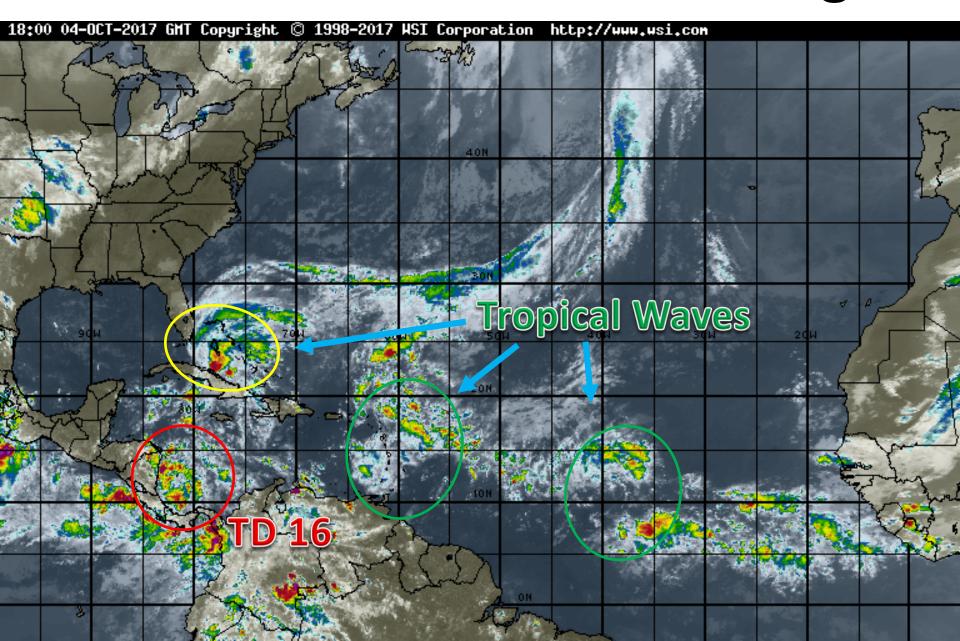
5 PM EDT

Wednesday, October 4, 2017

Tropical Depression 16 & Bahamas Disturbance (near 0%)

This update is intended for government and emergency response officials, and is provided for informational and situational awareness purposes only. Forecast conditions are subject to change based on a variety of environmental factors. For additional information, or for any life safety concerns with an active weather event please contact your County Emergency Management or Public Safety Office, local National Weather Service forecast office or visit the National Hurricane Center website at www.nhc.noaa.gov.

Atlantic Basin Satellite Image

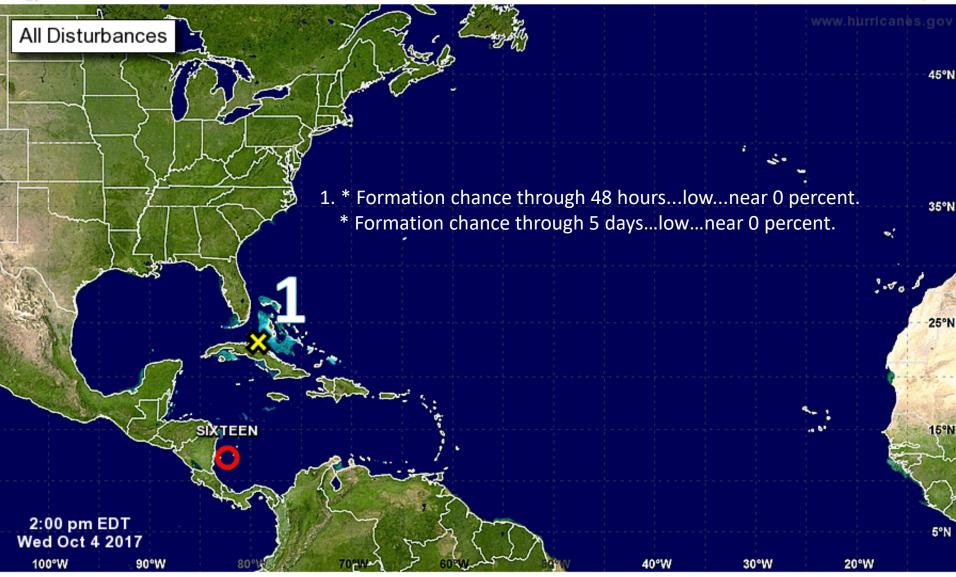




Five-Day Graphical Tropical Weather Outlook

National Hurricane Center Miami, Florida

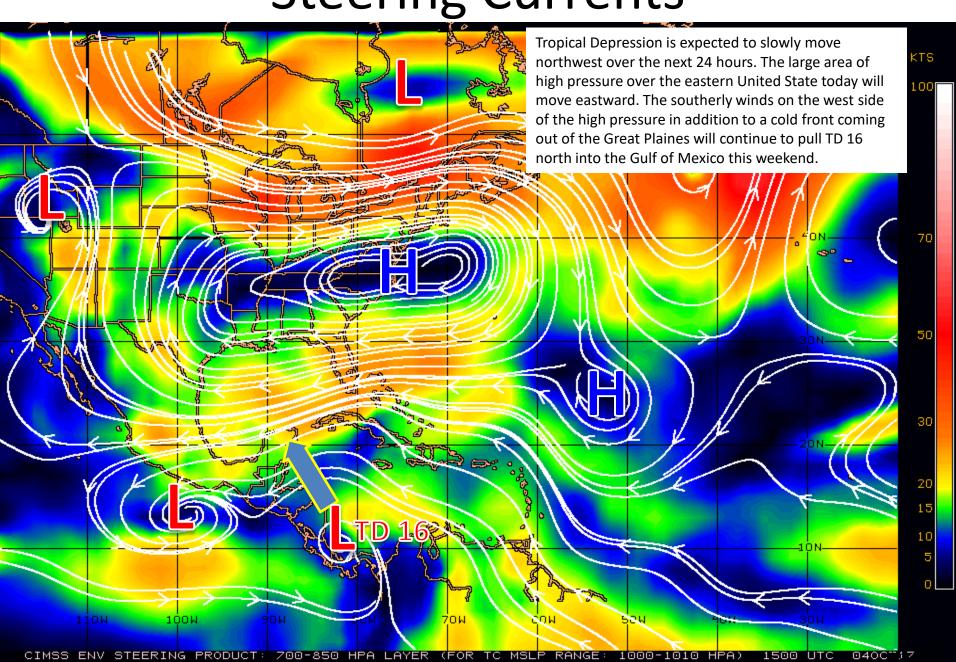




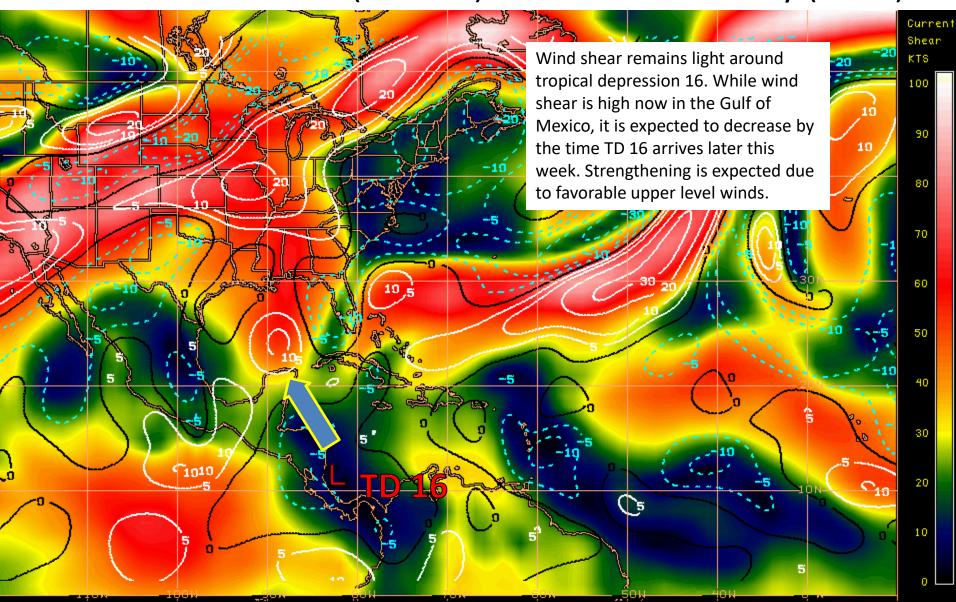
Current Disturbances and Five-Day Cyclone Formation Chance: \$\iff 40\% \$\iff 40-60\%\$ \rightarrow > 60\%\$

Tropical or Sub-Tropical Cyclone: O Depression 5 Storm 5 Hurricane

Steering Currents

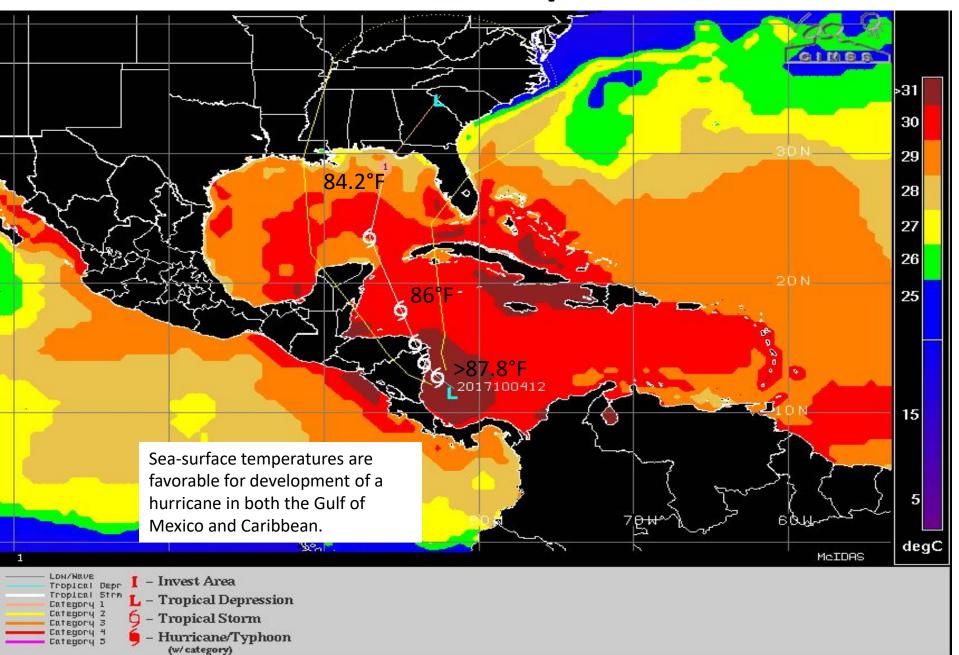


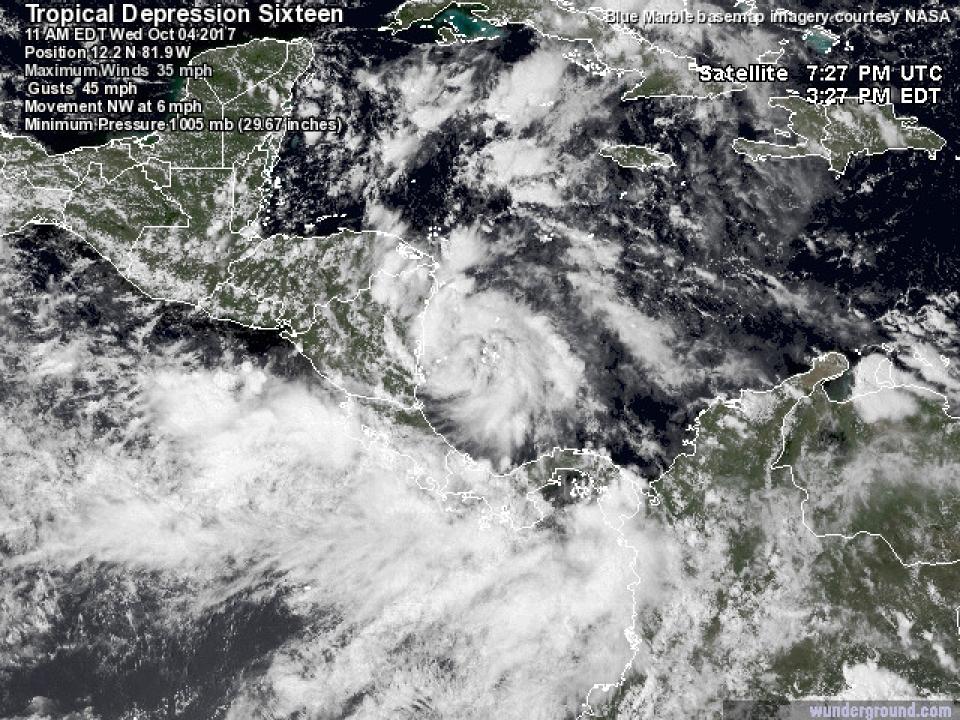
Current Wind Shear (Shaded) and Shear Tendency (Lines)



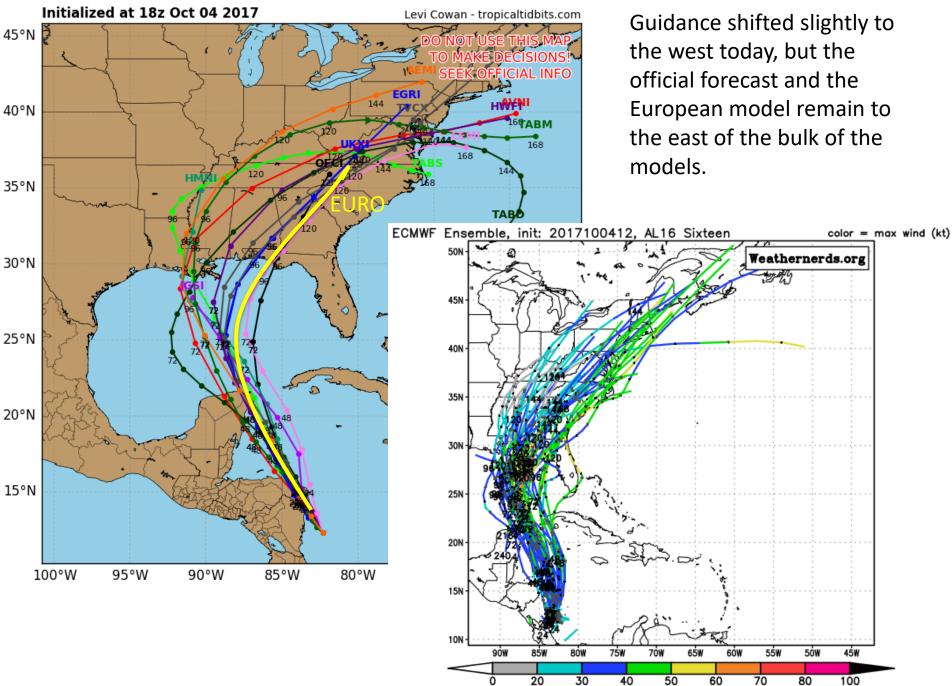
Shear Tendency (KTS) Over Past 24 Hours: Increasing — Decreasing ----
1 GOES-EAST 24 HOUR WIND SHEAR TENDENCY PRODUCT 1800 UTC 040CT17 UW-CIMSS

Sea Surface Temperatures

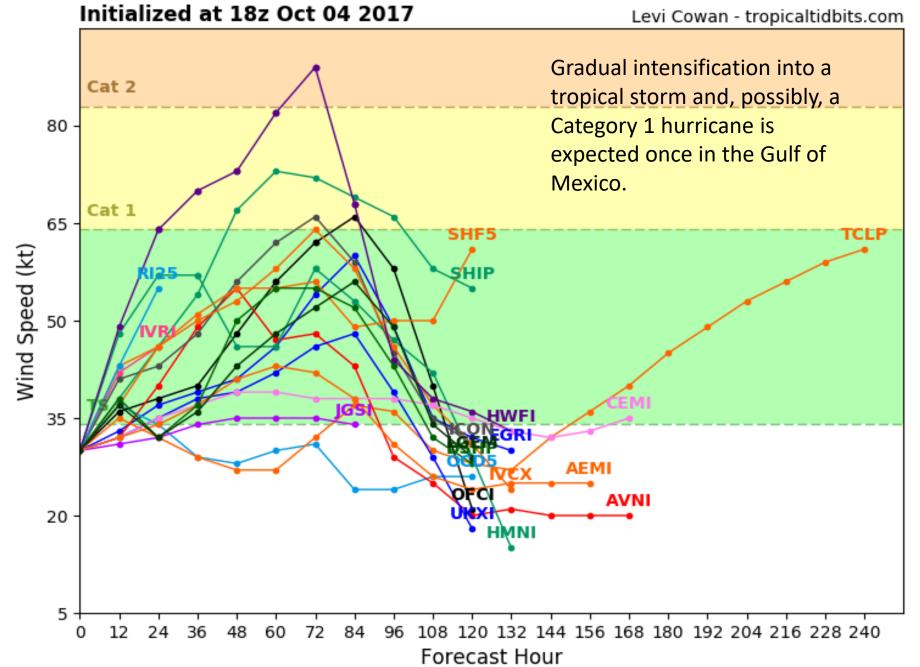


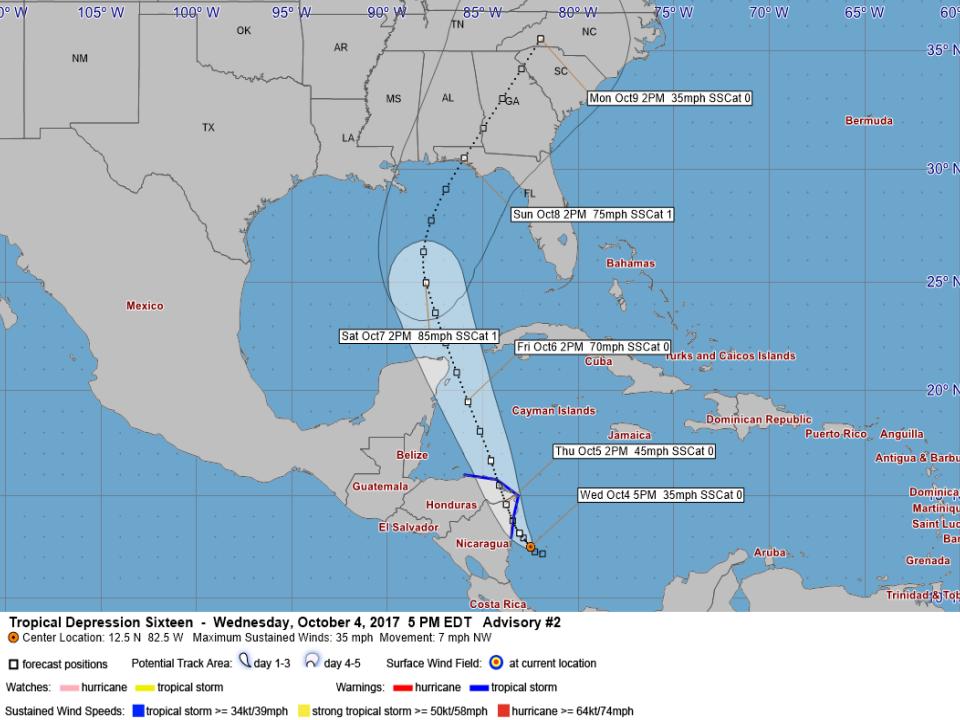


Tropical Depression 16L Model Track Guidance



Tropical Depression 16L Model Intensity Guidance





NORF

Advisory 2

Most Likely Arrival Time of Tropical-Storm-Force Winds

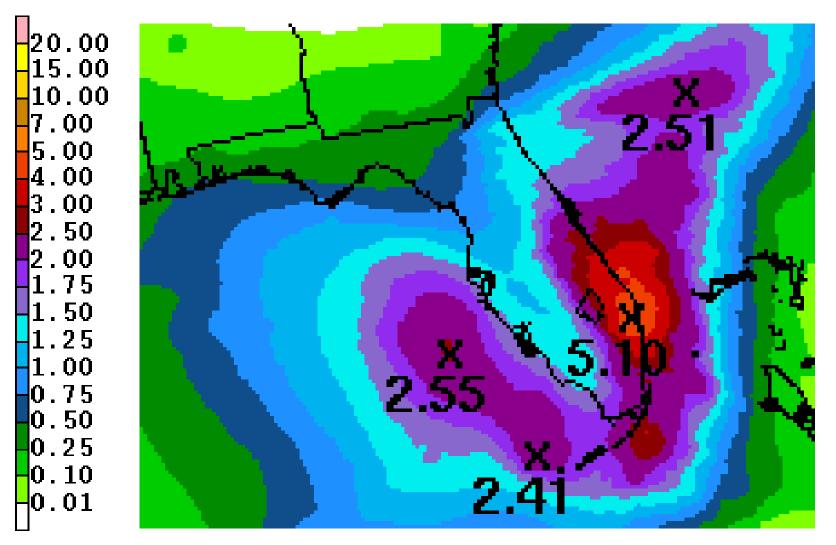




100 %

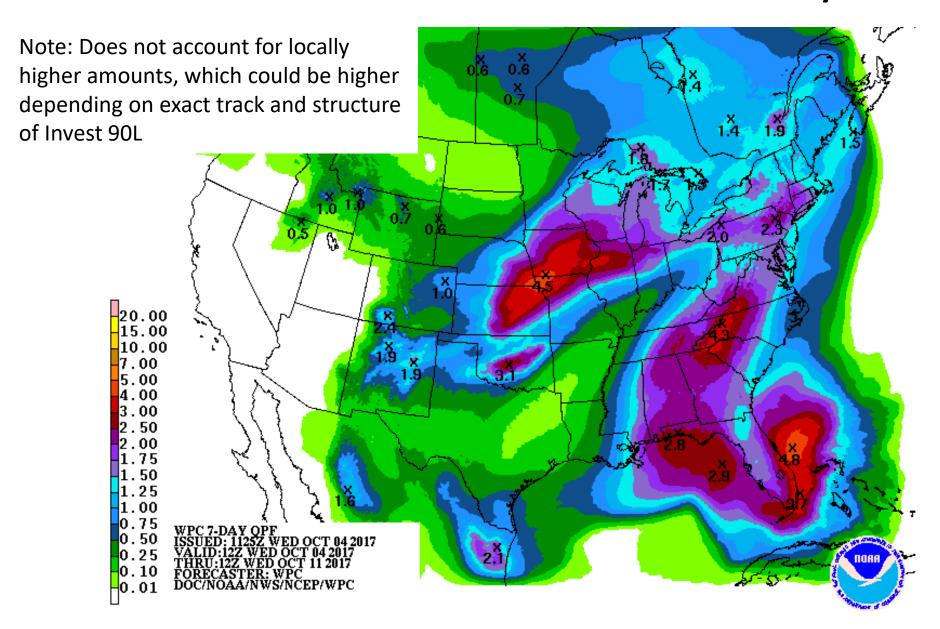
O<34 Ó34-63 **6**≥64

Forecast Cumulative Rainfall – Next 3 Days

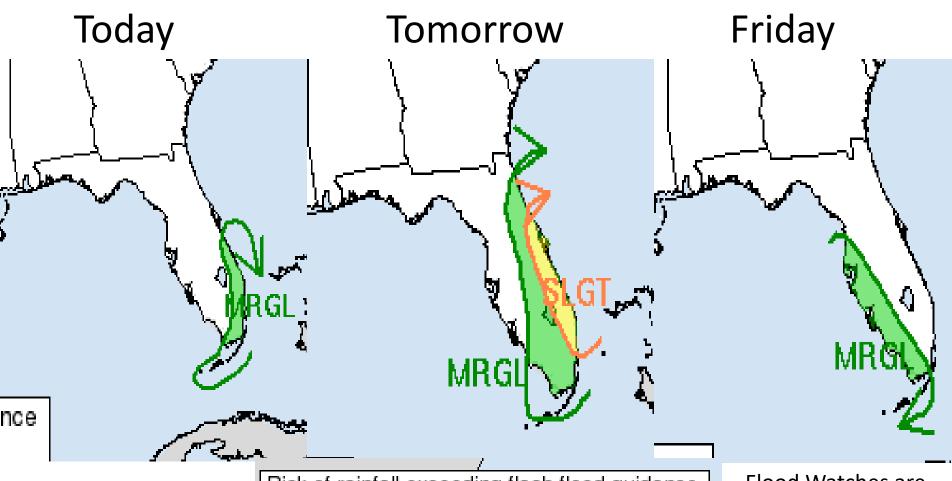


The low pressure disturbance located near the northwestern Bahamas will continue to increase rain chances across South Florida as it moves west. Although development of this system is not expected, it will likely produce heavy rain and gusty winds over portions of the Bahamas and Florida during the next couple of days.

Forecast Total Rainfall – Next 7 Days



Flash Flood Threat

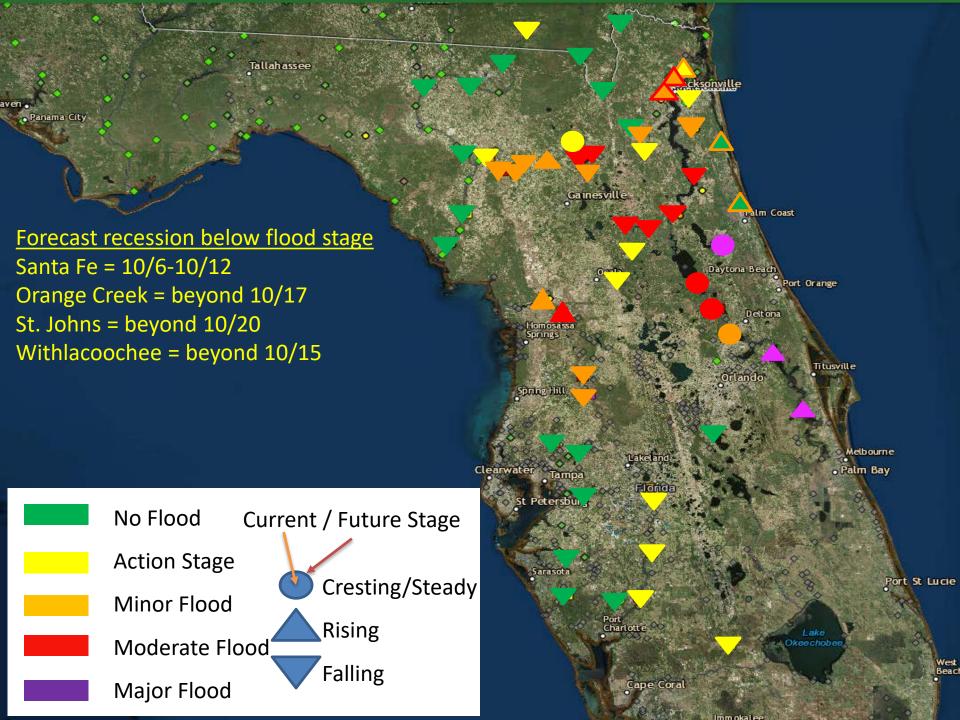


Risk of rainfall exceeding flash flood guidance to the right of a line

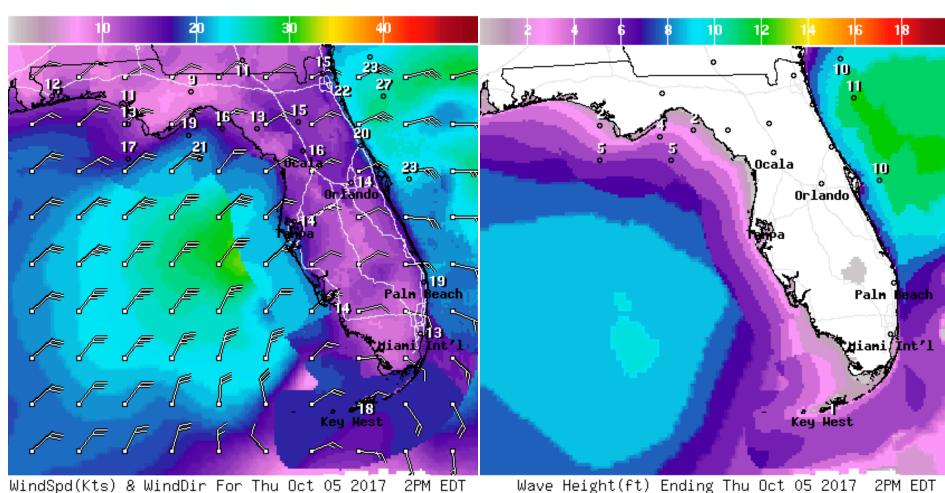
HIGH: > 15% SLGT: 5%-10%

MDT: 10%-15% MRGL: 2%-5%

Flood Watches are in effect tomorrow for Brevard, Indian River, St. Lucie, and Martin County.



Forecast Winds/Wave Height Thursday Afternoon



WindSpd(Kts) & WindDir For Thu Oct 05 2017

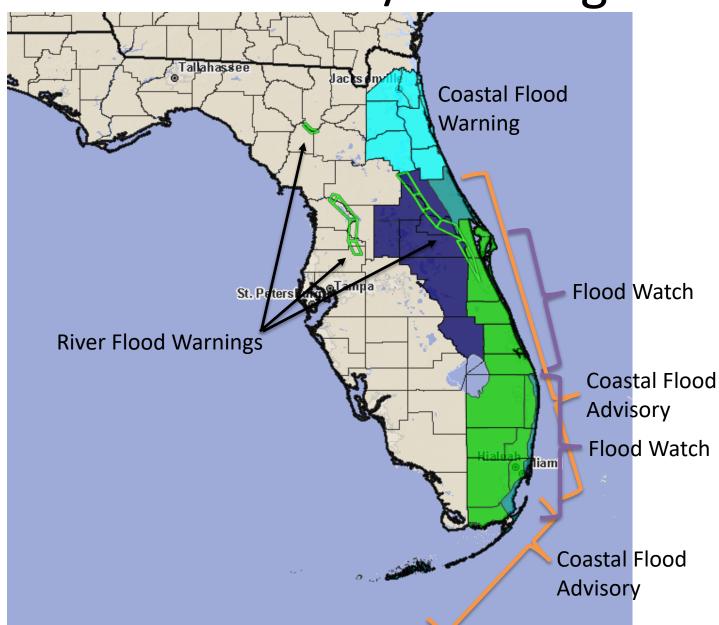




National Digital Forecast Database 18z issuance Graphic created-Oct 04 2:49PM EDT

(Thu Oct 05 2017 18Z)

Active Watches/Warnings



Summary:

- At 11AM EDT, Invest 90L was determined to have a closed center of circulation and advisories began on Tropical Depression 16.
- As of 5PM EDT, TD 16 had maximum sustained winds of 35 mph and was moving to the northwest at 7 mph.
- TD 16 is expected to continue to move northwestward and emerge over the southern Gulf of Mexico by Saturday.
- Confidence in the eventual track and intensity are still currently low, with the range of possibilities for landfall anywhere between New Orleans, LA and Tampa, FL. The current forecast is for a Category 1 hurricane at landfall.
- Additional Hurricane Hunter reconnaissance missions will continue through the coming days.
- The next name on the 2017 Atlantic storm list is Nate.
- Elsewhere, a broad low pressure disturbance located near the Florida Straits, Cuba and the Bahamas will continue to increase rain chances across South Florida as it moves west.
- Although development of this system is not expected, it will likely produce heavy rain and gusty winds over portions of the Bahamas and Florida during the next couple of days.

Florida Outlook:

- Rainfall amounts of 2-4" (with isolated amounts up to 5-6" possible) is forecast for portions of the Florida East Coast and Florida Keys during the next 48 hours.
- A **Flood Watch** is currently in effect for all coastal counties between and including Brevard and Miami-Dade counties.
- Strong east winds combined with the lunar "King Tide" could have the potential to produce high waves and minor coastal flooding during high tide. Any locally heavy rainfall during times of high tide could exacerbate coastal flooding issues.
- A **Coastal Flood Advisory** is in effect from Miami-Dade to Volusia County, with a **Coastal Flood Warning** in effect for the St. Johns River and tributaries.
- Concerning Tropical Depression 16, specific impacts to Florida are still uncertain.
- However, a system moving towards the U.S. Gulf Coast would have the ability to produce storm surge, dangerous surf
 conditions, isolated tornadoes, gusty winds, and heavy rain.

Another briefing packet will be issued Thursday morning. For more information, visit the NHC website at www.hurricanes.gov.



TROPICAL UPDATE

Created by:

Michael Spagnolo, Deputy State Meteorologist michael.spagnolo@em.myflorida.com

State Meteorological Support Unit Florida Division of Emergency Management

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