

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





Steering Currents

Tropical Depression is expected to slowly move northwest over the next 24 hours. The large area of high pressure over the eastern United State today will move eastward. The southerly winds on the west side of the high pressure in addition to a cold front coming out of the Great Plaines will continue to pull TD 16 north into the Gulf of Mexico this weekend.

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



GOES-EAST 24 HOUR WIND SHEAR TENDENCY PRODUCT 1800 UTC 040CT

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Sea Surface Temperatures



- Hurricane/Typhoon

Category

Category 5

(w/ category)

Tropical Depression Sixteen 11/AM EDT Wed Oct 04/2017 Position 12.2 N 81.9 W Maximum Winds 35 mph Gusts 45 mph Movement NW at 6 mph Minimum Pressure 1005 mb (29/67/in ches)

Blue Marble basemap imagery courtesy NASA

Satellite 7:27 PM UTC

wunderground.com



Tropical Depression 16L Model Intensity Guidance

Initialized at 18z Oct 04 2017

Levi Cowan - tropicaltidbits.com







Most Likely Arrival Time of Tropical-Storm-Force Winds





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





Forecast Winds/Wave Height Thursday Afternoon





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 <u>www.hurricanes.gov</u>.



TROPICAL UPDATE

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Florida Division of Emergency Management

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