

TROPICAL UPDATE

8 AM EDT Tuesday, October 9, 2018 Hurricane Michael, Tropical Storm Leslie, Tropical Depression 15

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



Hurricane Michael Satellite Image GOES-16 Channel 13 (IR) Brightness Temperature (°C) at 09:08Z Oct 09, 2018 TROPICALTIDEITS.COM

26°N

24°N



20°N

90°W

88°W



84°W

82°W

Michael will initially be steered northward between high pressure to the northeast and a cold front to the northwest. A turn to the northeast will occur by Wednesday as Michael is primarily steered by the cold front.

Forecast Weather Maps











Hurricane-Force Wind Speed Probabilities (Preliminary) For the 120 hours (5.0 days) from 1 AM CDT TUE OCT 09 to 1 AM CDT SUN OCT 14







Earliest Reasonable Arrival Time of Tropical-Storm-Force Winds







Watches: main hurricane constraints warnings: main hurricane constraints torm

Hurrevac Timing of onset of TS winds – Wednesday (assumes a perfect forecast) (all times eastern)



Earliest Reasonable Timing of onset of TS Winds (shading is areas with >50% chance of TS winds)





Storm Surge Warning Storm Surge Watch

NHC Potential Storm Surge Flooding Map Hurricane MICHAEL (2018) Advisory 10 From 11 PM EDT Monday October 08 to 05 AM EDT Friday October 12



Potential Storm Surge Flooding*

Intertidal Zone/Estuarine Wetland Greater than 1 foot above ground Greater than 3 feet above ground Greater than 6 feet above ground Greater than 9 feet above ground Leveed area Consult local officials for flood risk

Map Layer Options: Inundation Layer Inundation with Map Opacity Slider



Forecast Cumulative Rain Totals – Next 48 Hours

Rain bands will begin impacting parts of the Panhandle, Big Bend, and West Coast today. Rain totals will be maximized east of where Michael tracks. A Flash Flood Watch is in effect for portions of the Big Bend and eastern Panhandle where 4-8" of rain is expected with isolated totals of 10-12" possible.

48-Hour Precipitation (in) Ending Thursday, Oct. 11, 2018 at 8 a.m. EDT

Init: Tue 2018-10-09 12z WPC 0.3 0.6 1.0 0.5 1.2 0.8 0.6 0.7 1.1 0.7 0.7 1.3 0.8 0.4 0.6 1.0 0.3 2.0 1.4 1.4 0.3 0.3 0.9 1.1 50 0.3 1.3 1.2 0.3 0.2 0.2 1.4 0.9 0.2 0.9 0.6 2.5 0. 0.2 4.1 0.6 0.9 6.1 0.7 0.1 0.2 2.5 0.6 4.0 0.2 6.4 0.8 Ŏ.4 1.5 0.9 0.3 1.0 0.3 0.4 0.6 0.2 0.4 0.1 0.3 0.3 0.1 0.2 0.1 0.2 0.1 0.2 0.2 0.3 0.2 weat n AO TO www.pivotalweather.com 0.01 0.05 0.1 0.2 0.3 0.4 0.5 0.7 0.8 0.9 1.2 1.4 1.6 1.8 2 2.5 3 3.5 10 15 0.6 5 8

Flash Flood Watch in effect (light green)







Ocean swells will increase the rip current threat along the Panhandle coast and West Coast. Wave heights along the Panhandle and Big Bend may peak at 15-25' at the beach and much higher offshore. Beach erosion likely.

Wave Height(ft) Ending Thu Oct 11 2018 8PM EDT (Fri Oct 12 2018 002) National Digital Forecast Database

Graphic created-Oct 09 3:48AM EDT

07z issuance

(eu

iami/Int'l



Post-Storm High/Low Temperature Forecast - Thursday



Post-Storm High/Low Temperature Forecast - Friday



Post-Storm High/Low Temperature Forecast - Saturday



Tropical Storm Leslie Satellite Image



48°W

46°W



Tropical Depression 15 Satellite Image

GOES-16 Channel 13 (IR) Brightness Temperature (°C) at 09:35Z Oct 09, 2018

TROPICALTIDBITS.COM





Summary

Tropical Storm Leslie:

- At 5 AM EDT Tuesday, Tropical Storm Leslie was located about 1,035 miles west-southwest of the Azores.
- Maximum sustained winds are near 65 mph, and some strengthening is forecast over the next couple of days. Leslie could become a hurricane later this week.
- Leslie is moving south-southeast at 13 mph. Leslie will continue southeastward over the next day or so before turning toward the east-northwest toward Portugal.

Tropical Depression #15

- Invest 93L has become sufficiently organized to become a tropical depression.
- At 6 AM EDT Tuesday, Tropical Depression #15 was located about 475 miles southwest of the southernmost Cabo Verde Islands.
- Maximum sustained winds are near 35 mph, and some strengthening is forecast over the next couple days. Weakening is forecast thereafter, and TD 15 is forecast to dissipate.
- This system poses no threat to land over the next 5 days and is currently forecast to remain over the open Atlantic.

Tropical Storm Michael

- As of 5 AM EDT Tuesday, Hurricane Michael was located about 390 miles south of Apalachicola, FL, or about 420 miles south of Panama City, FL.
- Maximum sustained winds are near 90 mph, a Category 1 on the Saffir-Simpson Hurricane Wind Scale.
- Additional strengthening is expected today, and Michael is expected to become a major hurricane later today or tonight.
- Michael is expected to make landfall in the Florida Panhandle or Big Bend as a major hurricane on Wednesday.
- Michael is moving north-northwest at 12 mph, and will continue to accelerate northward over the next 48 hours before making a turn towards the north-northeast or northeast as it makes landfall.
- Landfall is expected in the Panhandle or Big Bend sometime on Wednesday, and there remains some discrepancy in forward speed. A faster storm will make landfall on the western side of the forecast cone, where a slower storm will make more of a northeast turn into the Big Bend.
- Hurricane hunters will continue investigating Michael through the day.

Florida Outlook:

- The eastern Florida Panhandle and western Big Bend remain within the cone of error for landfall potential.
- An increase in water levels from Michael are already present and wave heights will continue to increase through Thursday morning.
- Tropical storm conditions may arrive in the Panhandle as soon as tonight but no later than late Wednesday morning. If the track shifts eastward or expands in size, the Florida West Coast could experience tropical storm force winds tonight or early tomorrow morning. Hurricane conditions should arrive in the Panhandle Wednesday afternoon or evening.
- **Tropical Storm Wind Watches** are in effect for 5 counties along the Florida West Coast and 4 counties in the Suwannee Valley, with a **Tropical Storm Warning** in effect for 6 counties in the eastern Big Bend and Nature Coast.
- Hurricane Warnings are in effect for 18 Panhandle and Big Bend counties, including coastal portions of Taylor and Dixie.
- Storm surge will be one of the greatest impacts from this storm and may affect a large portion of the Florida Gulf Coast. **Storm Surge Warnings** have been issued between the Walton/Okaloosa border eastward to the Pasco/Pinellas County line for possible surge inundation of 6-9' for the eastern Panhandle coast and Nature Coast, and 8-12' for Apalachee Bay. Storm Surge Watches remain in effect for the western Panhandle and Tampa Bay region for possible surge values of 2-4'.
- Widespread rainfall totals of 4-8" with locally higher amounts of 8-10+" can be expected across the Panhandle and Big Bend, with most of it occurring on Wednesday.
- Isolated tornadoes will be possible tonight and Wednesday across North Florida and even northern portions of Central Florida.
- Ocean swells from Tropical Storm Leslie and breezy onshore winds from high pressure to the north of Florida will continue producing high risk of rip currents along all Atlantic beaches.
- Tropical Depression #15 is not expected to affect Florida.

Another briefing packet will be issued later this afternoon. For the latest information on the tropics, please visit the National Hurricane Center website at <u>www.hurricanes.gov.</u>



TROPICAL UPDATE

Created by:

Amy Godsey, Chief State Meteorologist <u>Amy.Godsey@em.myflorida.com</u>

Cameron Young, Assistant State Meteorologist

Cameron.Young@em.myflorida.com

State Meteorological Support Unit

Florida Division of Emergency Management

Users wishing to subscribe (approval pending) to this distribution list, register at <u>https://public.govdelivery.com/accounts/FLDEM/subscriber/new?topic_id=SERT_Met_</u> <u>Tropics</u>.

Other reports available for subscription are available at

https://public.govdelivery.com/accounts/FLDEM/subscriber/new?preferences=true