

TROPICAL UPDATE

FDE

11:00 AM EDT Friday, June 5, 2020 Tropical Depression Cristobal

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.hurricanes.gov.

Tropical Depression Cristobal Friday, June 5



Tropical Weather Overview:

Confidence is increasing in the threat of flash flooding, storm surge, and isolated tornadoes across parts of the state. Heavy rainfall of 3-6" with localized amounts up to 12" is possible. Storm surge of 2-4' in the Big Bend and Nature Coast is possible with 1-3' along the Panhandle and West Coast. Isolated tornadoes will be possible in outer bands. Confidence in the possibility of tropical-storm-force winds remains low.

Atlantic Basin Satellite Image



GOES-16 Channel 2 (visible) Reflectance at 13:57Z Jun 05, 2020



Visible Satellite Imagery: Tropical Depression Cristobal

Cristobal has turned northward over the Yucatan Peninsula, and this general motion should continue through landfall.

Most of the thunderstorms are on the northern and eastern side of the circulation. An expansion of the wind field to the east is expected as it reorganizes in the Gulf of Mexico. Most of the storms will continue to remain on the northern and eastern sides.



Projected Path: Tropical Depression Cristobal

- The center of Cristobal is located about 40 miles east of Campeche, Mexico, or about 620 miles southwest of Key West, FL
- Maximum sustained winds are at 35 mph.
- Cristobal is moving north at 12 mph, and this general motion will continue through landfall.
- Restrengthening back into a tropical storm is likely later today or tonight
- Cristobal will likely make landfall along the Louisiana coast Sunday evening
- Tropical Storm Watches are in effect from Intracoastal City, LA, to the AL/FL border.
- Storm Surge Watches are in effect from Intracoastal City, LA, to Ocean Springs, MS, and from Indian Pass, FL, to Aripeka, FL.



<u>Chances for Sustained</u> <u>Tropical Storm Force</u> <u>Winds (39+ mph)</u>

> Pensacola: 7% Milton: 6% Destin: 5% Panama City: 10% Apalachicola: 9% Cedar Key: 5% Tampa: 5% Venice: 5% Naples: 4% Key West: 4%



Key Messages for Tropical Depression Cristobal Advisory 16: 10:00 AM CDT Fri Jun 05, 2020



1. Damaging and deadly flooding has already been occurring in portions of Mexico and Central America. Cristobal is expected to produce additional extreme rainfall amounts through the end of the week. The heaviest additional rainfall is expected over far southern Mexico and portions of the Yucatan Peninsula, while also extending along the Pacific coast from Chiapas to Guatemala and El Salvador. This rainfall could cause widespread life-threatening flash floods and mudslides. Refer to products from your local weather office for more information.

2. Life-threatening storm surge is possible along the Florida Big Bend, in portions of southeastern Louisiana, and along the Mississippi coast within the next 48 hours, and a Storm Surge Watch has been issued for these areas. Residents in these locations should follow advice given by local emergency officials.

3. There is an increasing risk of tropical storm force winds beginning Sunday morning from Intracoastal City, Louisiana, to the Alabama/Florida border, including metropolitan New Orleans, and a Tropical Storm Watch has been issued for this area. These winds will arrive well in advance of and extend well east of Cristobal's center.

4. Heavy rainfall will spread onto portions of the Gulf Coast, from east Texas to Florida, this weekend into early next week, with areas of flash flooding and rapid rises on smaller streams and rivers possible.



For more information go to hurricanes.gov



Storm Surge Flooding This Weekend

Strengthening, prolonged south to southeast winds well ahead of Cristobal will result in some storm surge along the Gulf Coast.

Storm Surge Watches (orange) are in effect from Indian Pass to Aripeka. A Storm Surge Watch means that life-threatening inundation is possible within the next 48 hours.





Flood Watches Through 4 PM EDT Saturday

Links: <u>NWS Tampa Bay</u> | <u>NWS Melbourne</u> | <u>NWS Miami</u>

Torrential downpours and wet to saturated soils will lead to some flooding, especially of urban, low-lying or poor drainage areas. Average rainfall of 2-4" is expected across the Peninsula with localized amounts of 6-8" possible.

Some parts of the Peninsula have seen 2-5" of rain over the last few days, with 5-10+" locally. Additional rainfall could result in more flooding.

Additional Flood/Flash Flood Watches may be needed elsewhere across the state later this week into the weekend.





Saturday - Monday Timing the Event – Cristobal Rainfall



Rain bands will being moving into the Keys as early as tonight, then across the state through the weekend. The heaviest rainfall will be wherever the rain bands set up and train. <u>The threat for flash flooding is increasing.</u> However, the forecast is very dependent on the track and evolution of Cristobal.



Rainfall Totals Through Tuesday Timing the Event



Through next Tuesday, widespread rainfall totals of 2-5" are expected across much of the state. Locally higher totals of 6-12" are possible, especially where heavier bands set up.

This could result in flash flooding, especially in urban areas. Training rain bands will also increase the risk of flooding. River flooding will also be possible across North Florida this weekend into next week.



Weekend Flash Flood Threat



Parts of the state will be under a Marginal Risk for flash flooding each day through the weekend. However, should heavier rainfall materialize, the risk for flash flooding may increase.



4 km Resolution KBDI Statewide June 04, 2020





Possible River Flooding





Widespread minor and isolated moderate river flooding seems likely starting early next week due to the forecasted rainfall totals.

Current low river levels across the state will help to minimize river impacts.





Forecast Wave Heights

This Weekend



Waves will build this weekend as Cristobal moves northward through the Gulf of Mexico. High surf of 6-12 feet will be possible at Panhandle Beaches with 4-8 feet along the West Coast. This will result in dangerous rip currents along all Gulf beaches. Minor beach erosion is also possible.



Model Forecast Wind Gusts Exact wind gusts will vary in time, magnitude, and location.



Winds will begin increasing Saturday into Sunday as Cristobal approaches the northern Gulf Coast. The wind field is also expected to expand on the eastern side of Cristobal's center. This may result in some gusts to near tropicalstorm-force, especially in rain bands.



Tornado Risk for Sunday



As the outer bands from Cristobal spiral into the Panhandle, some stronger thunderstorms will be embedded. Outside of the gusty winds from rain bands, some thunderstorms may produce isolated tornadoes. There is a **Marginal Risk** for tornadoes along coastal parts of the Panhandle on Sunday.

Summary

Tropical Depression Cristobal

- As of 5 PM ET, the center of Cristobal is located over the Yucatan Peninsula, or about 620 miles southwest of Key West, FL, moving north at 12 mph.
- Maximum sustained winds are near 35 mph. Cristobal will likely re-strengthen to a tropical storm today or tonight once it emerges into the Gulf of Mexico
- This weekend, the system will continue to move northward and will approach the northern Gulf Coast Sunday/Monday. Cristobal will also expand as it moves northward.
- Indirectly related to the system, tropical moisture will increase across the Gulf Coast today, keeping rain chances high.

Florida Outlook:

- A **Storm Surge Watch** is in effect from Indian Pass (Gulf County) to Aripeka (Pasco/Hernando County Line). 2-4' of storm surge is possible in these areas within the next 48 hours. 1-3' of storm surge is possible outside of the watch area along the Gulf Coast, and Coastal Flood Advisories may be needed for these areas. A Coastal Flood Statement is in effect for Collier County.
 - **<u>Storm Surge Watch</u>**: Gulf, Franklin, Wakulla, Jefferson, Taylor, Dixie, Levy, Citrus, and Hernando Counties
- A widespread 2-5" of rain is forecast to fall across the state over the next week. This will come from multiple rounds of rainfall over multiple days. Rain bands and training thunderstorms will result locally higher amounts, perhaps up to 6-12".
- A primary rain band may set up across somewhere across North Florida with other rain bands elsewhere. This will create local maxima in rainfall totals and a flash flood threat.
- Gusty winds, perhaps to tropical storm force, will be possible in some of the rain bands.
- Isolated tornadoes may be possible in some of the outer bands, and the Storm Prediction Center has outlined coastal areas of the Panhandle in a Marginal Risk for severe weather (level 1 of 5) on Sunday.
- Dangerous rip currents and minor beach erosion are expected at Gulf Coast beaches.

The next briefing packet will be sent out this afternoon with the 5 PM ET advisory. For the latest information on the tropics, please visit the National Hurricane Center website at <u>www.hurricanes.gov</u>.



TROPICAL UPDATE



Created by:

Cameron Young, Assistant State Meteorologist <u>Cameron.Young@em.myflorida.com</u> 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_Tropics</u>. Other reports available for subscription are available at: <u>https://public.govdelivery.com/accounts/FLDEM/subscriber/new?preferences=true</u>