

TROPICAL UPDATE

9 AM EDT

Wednesday, September 20, 2017

Tropical Storm Jose, Hurricane Maria &

Remnants of Lee (70%)

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



Steering Currents

83

Jose will move northeast today as low pressure passes to its north, then as high pressure builds over the Northern U.S., Jose is expected to turn southward. Maria will move northwest and then north around high pressure in the southwestern Atlantic that is getting eroded by Jose. The remnants of Lee will be pulled northward by an upper-level low pressure system.

Ex-Lee

KTS

100

70

50

30

20 15

10

CIMSS ENV STEERING PRODUCT: 300-850 HPA LAYER (FOR TO MSLP RANGE: 950-969 HPA) 0900 UTC 205EP17

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



HOUR WIND SHEAR TENDENCY PRODUCT

0900 UTC

20SEP17

UW-CIMSS

MeIDAS

1

GOES-EAST 24



T.S. Jose Satellite Image







Tropical Storm JOSE Model Track Guidance

Initialized at 06z Sep 20 2017

Levi Cowan - tropicaltidbits.com



Tropical Storm JOSE Model Intensity Guidance

Initialized at 06z Sep 20 2017

Levi Cowan - tropicaltidbits.com



Wave Forecast for Today and Tonight





Hurricane Maria 5 AM EDT Wed Sep 20 2017 Position 17.9 N 65.6 W Maximum Winds 155 mph Gusts 190 mph Movement NW at 10 mph Minimum Pressure 917 mb (27.07 inches)

Blue Marble basemap imagery courtesy NASA

Satellite 11:37 AM UTC 7:37 AM EDT

wunderground.com



Hurricane MARIA Model Intensity Guidance

Initialized at 06z Sep 20 2017

Levi Cowan - tropicaltidbits.com







Most Likely Arrival Time of Tropical-Storm-Force Winds





Forecast Wave Heights - Saturday

Valid 23 Sep 2017 0000 GMT



Large waves and ocean swells will impact the Florida coast this weekend as Maria passes to the east. This may result in additional coastal erosion, dangerous seas and strong and frequent rip currents.



Issued: Sep 20 at 7 AM EDT

Remnants of Lee Satellite Image

GOES-FLOATER AVN COLOR IR - SEP 20 17 11:45 UTC

ПОАА



Five-Day Graphical Tropical Weather Outlook

National Hurricane Center Miami, Florida





Forecast Rainfall, Next 24 Hours



Widespread river flooding continues across much of the Florida Peninsula http://www.weather.gov/serfc/ <u>Rivers still rising 9/19/17</u> Withlacoochee (near crest) Orange Creek

Tallahassee

Melbourne Palm Bay



Summary

- At 5am EDT Wednesday, Jose weakened to a tropical storm. At 8am EDT Wednesday, Tropical Storm Jose was located about 165 miles south of Nantucket, Massachusetts.
- Maximum sustained winds have decreased to near 65 mph. Additional weakening is expected over the next few days due to cooler ocean temperatures and increased wind shear.
- Jose is moving toward the northeast near 8 mph, and this motion should continue today with a decrease in forward speed.
- On Thursday, Jose is forecast to begin a southwest motion as it transitions to a post-tropical storm.
- At 6:15am EDT Wednesday, Hurricane Maria made landfall near Yabucoa, Puerto Rico with maximum winds near 155mph.
- At 8am EDT Wednesday, the center of Hurricane Maria was located over eastern Puerto Rico about 15 miles southwest of San Juan.
- Maximum sustained winds are now near 150 mph, making it a Category 4 on the Saffir-Simpson Hurricane Wind Scale.
- Slow and gradual weakening is possible, but Maria is forecast to remain an extremely dangerous major hurricane for the next 3-4 days.
- Maria is moving towards the northeast near 10mph, and this motion should continue for the next 24 hours, followed by a turn to the north as it approaches the southeastern Bahamas.
- The center of Maria should continue north through early next week, moving east of Florida.
- Showers and thunderstorms associated with the remnants of Lee have increased overnight.
- Although environmental conditions are only marginally favorable for development, only a small increase in the overall organization of the system would result in the regeneration of Lee.
- The National Hurricane Center has placed a 70% chance of Lee redeveloping into a depression or storm within the next few days as it moves northward in the open central Atlantic.

Florida Outlook

- Extensive river flooding will continue across the Peninsula for several days to weeks.
- A **Coastal Flood Advisory** remains in effect for the St. Johns and its tributaries through Wednesday night.
- Lingering waves and ocean swells from Jose will keep the rip current risk at moderate to high levels along much of the Florida East Coast.
- Florida is outside of the 5 day cone of error for Hurricane Maria and the chances of tropical storm conditions in Florida are less than 5%.
- Even if Maria passes well to the east of Florida, indirect impacts in the form of increased waves and ocean swells are expected along the Florida East Coast this weekend and early next week.
- This will result in additional coastal erosion, dangerous seas and a high rip current risk flor much of the Florida East Coast.

Another briefing packet will be issued on Tuesday afternoon. 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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