

# TROPICAL UPDATE

### 10 AM EDT

### Sunday, September 2, 2018 Tropical Storm Florence, Invest 91L (80%)

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**

12:00 02-SEP-2018 GMT Copyright © 1998-2018 WSI Corporation <u>http://www.wsi.com</u> <mark>91</mark> 20N **Florence** Tropical Wave λ.

### **Steering Currents**



### Wind Shear (shaded) and Wind Shear Tendencies (contoured)



# CDAS Sea Surface Temperature (°C)

Analysis Time: 06z Sep 02 2018

#### TROPICALTIDBITS.COM



### **Tropical Storm Florence Satellite Image**

#### GOES-16 Channel 2 (visible) / Channel 7 (shortwave IR) [Day/Night] at 13:50Z Sep 02, 2018

34°W

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28°W



32°W

30°W

38°W

36°W



## Track Models (Florence)



Florence will move generally westnorthwest over the coming days. It will eventually curve to the northwest and north in the central Atlantic, remaining well to the north of the Caribbean islands.

## Intensity Models (Florence)





### **Five-Day Graphical Tropical Weather Outlook**

National Hurricane Center Miami, Florida



www.hurricanes.gov



# Invest 91L Satellite Image

#### GOES-16 Channel 2 (visible) Reflectance at 13:50Z Sep 02, 2018

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### **Timing and Potential Impacts**



Increased rain chances and the potential for heavy rain across South Florida will begin tonight and will last through Labor Day. Typical summertime storms, some of which could produce brief heavy rain, are expected across North and Central Florida. An isolated strong to severe thunderstorm with gusty winds of 45 mph and a brief, weak tornado will be possible in South Florida during this time.

### **Timing and Potential Impacts**



The tropical wave will pass south of the Panhandle tomorrow as it moves through the northeastern Gulf of Mexico. The heaviest rainfall will likely remain offshore, though some locally heavy rainfall could reach the coast of the Panhandle. In the Peninsula, a return to typical summertime thunderstorms is expected on Tuesday.

## **Timing and Potential Impacts**



The wave will continue west-northwestward into central Louisiana through the day Wednesday. The widespread heavy rainfall threat will taper on Wednesday near the Panhandle coast, and a return to a typical summertime pattern is expected.

## Intensity Models (Invest 91L)





Most areas should expect 1-3" of rain over the next 5 days, but there is the potential for some areas of SE FL, the Florida Keys, and the western Panhandle to receive as much as 4-6" of rain.

# Flash Flood Threat Tonight/Monday and Tuesday



An isolated case of Flash Flooding will remain possible tonight and tomorrow in South Florida. However, the threat is not widespread enough to warrent Flood Watches. In the western Panhandle on Tuesday and Wednesday, Flash Flood Watches may be needed depending on the eventual track and intensity of the system.

## **Current and Forecast River Conditions**



Several rivers in Central and Southwest Florida remain in minor flood stage. Forecasted rainfall amounts do not bring any rivers into moderate flood stage. For more specifics on individual river levels, please visit the Southeast River Forecast Center at https://www.weather.gov/serfc/

### Summary

- Tropical Storm Florence remains in the open waters of the Tropical Atlantic, several hundred miles from land.
- Maximum sustained winds are near 60 mph, but little change in strength is expected through the next several days.
- This system is expected to have no impact on land at this time as it eventually recurves north in the open Atlantic.
- A tropical wave in the Bahamas (now designated Invest 91L) continues to produce disorganized showers and thunderstorms.
- This tropical wave will move west-northwest towards South Florida tonight and Monday and will emerge into the eastern Gulf of Mexico Tuesday and Wednesday.
- Development is not expected to occur over the Bahamas due to strong upper-level winds, but environmental conditions will become more favorable for development in the eastern or central Gulf of Mexico.
- The National Hurricane Center has a 50% (medium) chance of formation over the next 48 hours and an 80% (high) chance of formation over the next five days.
- The next name on the list is Gordon. Should the system first get a Potential Tropical Cyclone or Tropical Depression designation, it will be number seven.
- No additional tropical cyclone development is expected in the Atlantic basin through the next five days, but additional tropical waves are forecast to emerge off the west African coast in the 6-10 day timeframe.

#### Florida Outlook:

- The tropical wave in the Bahamas will bring increased rain chances to South Florida tonight and tomorrow and the western Panhandle Tuesday and Wednesday. Regardless of development, locally heavy rainfall will be the main impact from this system.
- Rainfall totals for most areas will be 1-3" over the next 5 days with isolated higher amounts of 4-6" possible in Southeast Florida, the Florida Keys, and the western Panhandle.
- 6 West-Central Florida rivers remain in minor flood stage, and many rivers across the state are elevated due to recent rainfall, but significant river flooding is not currently expected.
- This wave, along with potential rain amounts and impacts, will continue to be monitored.
- There will be a high risk of rip currents for Panhandle and East Coast beaches through the next several days.
- Even if this wave develops, the current track consensus would keep any wind impacts offshore away from Florida and into LA/MS.

Another briefing packet will be sent out Monday morning. For the latest information on the tropics, please visit the National Hurricane Center website at <u>www.hurricanes.gov.</u>



# TROPICAL UPDATE

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