



# TROPICAL UPDATE



11 AM EDT

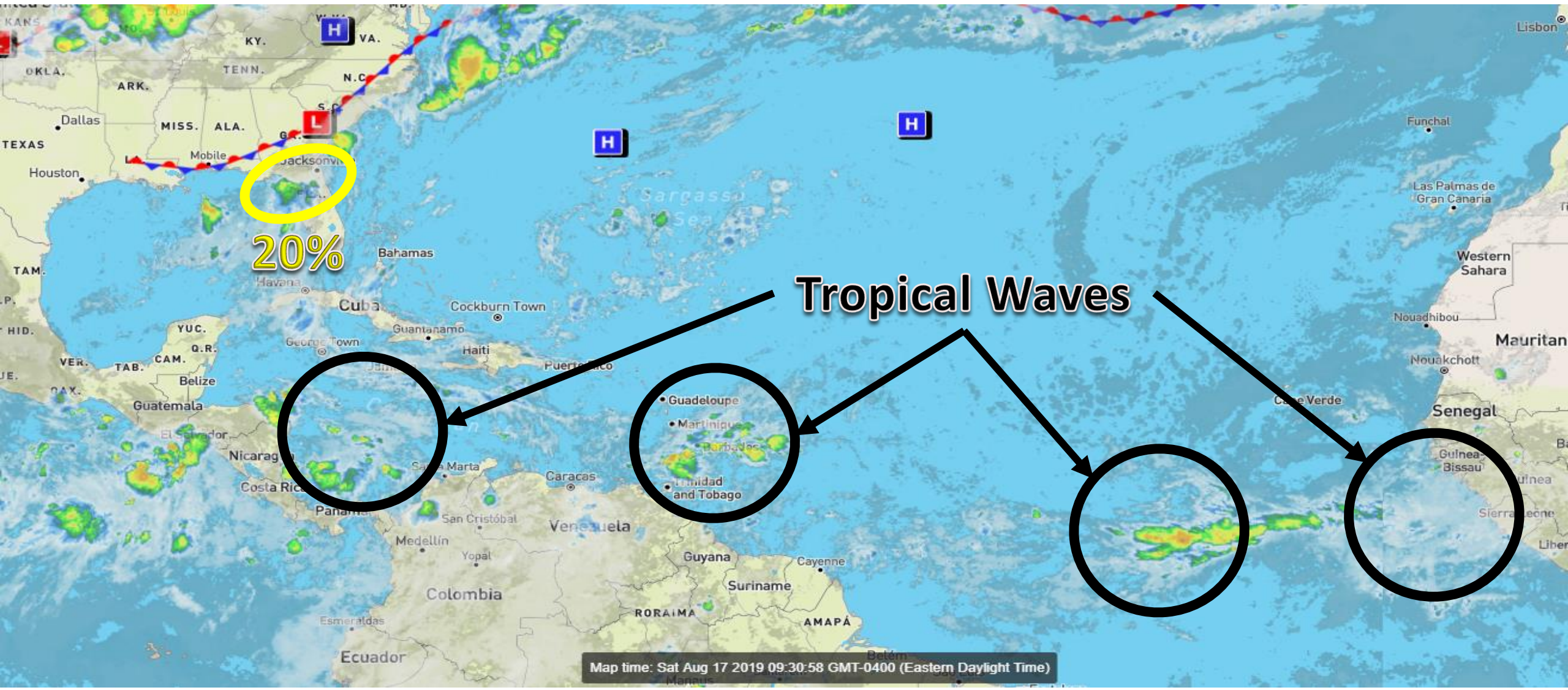
Saturday, August 17, 2019

Weak Low over NE Florida (20%) & Big  
Bend and West Coast Flooding

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](http://www.hurricanes.gov).

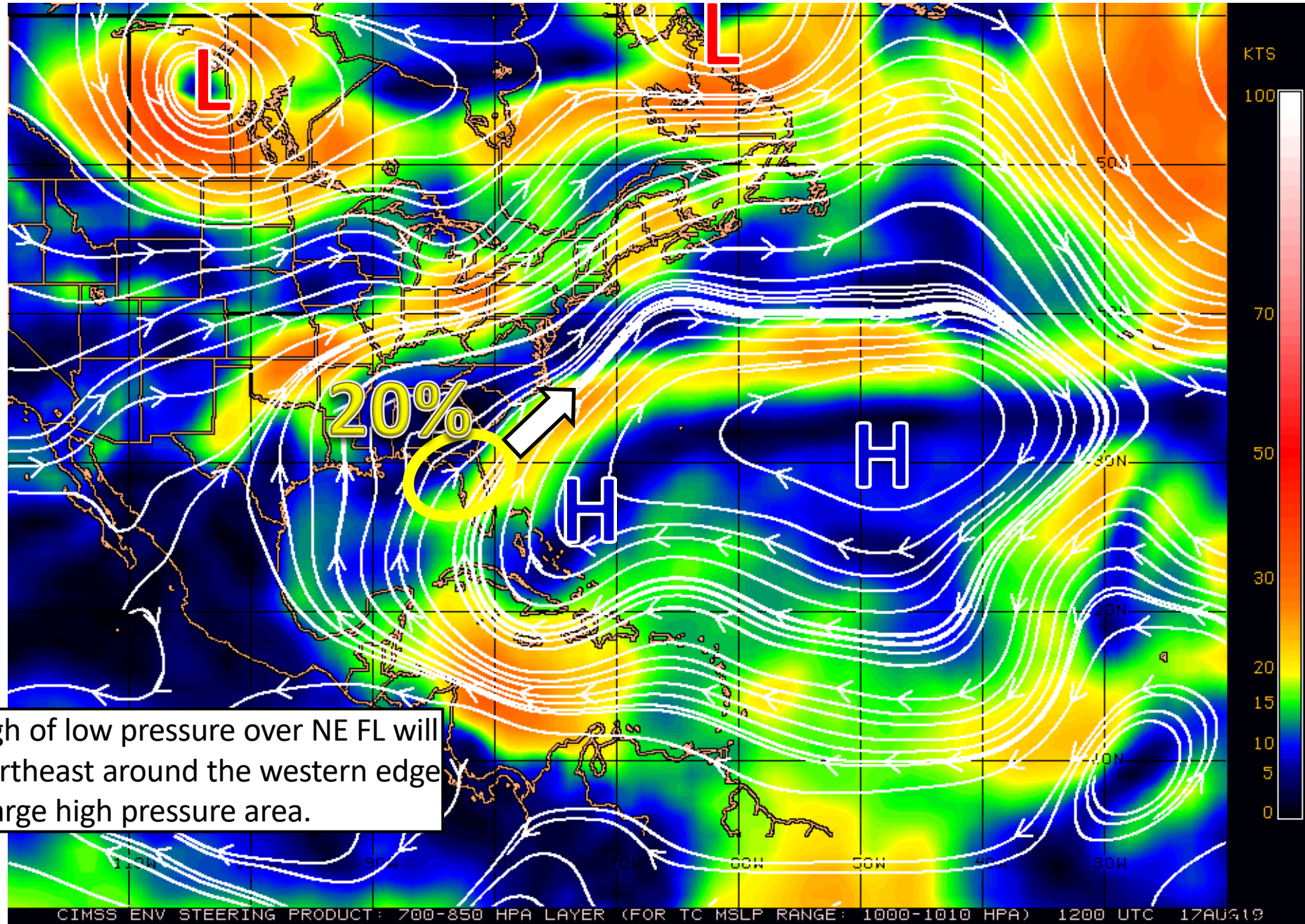
# Atlantic Basin Satellite Image

Chance of development:  None  Low  Medium  High



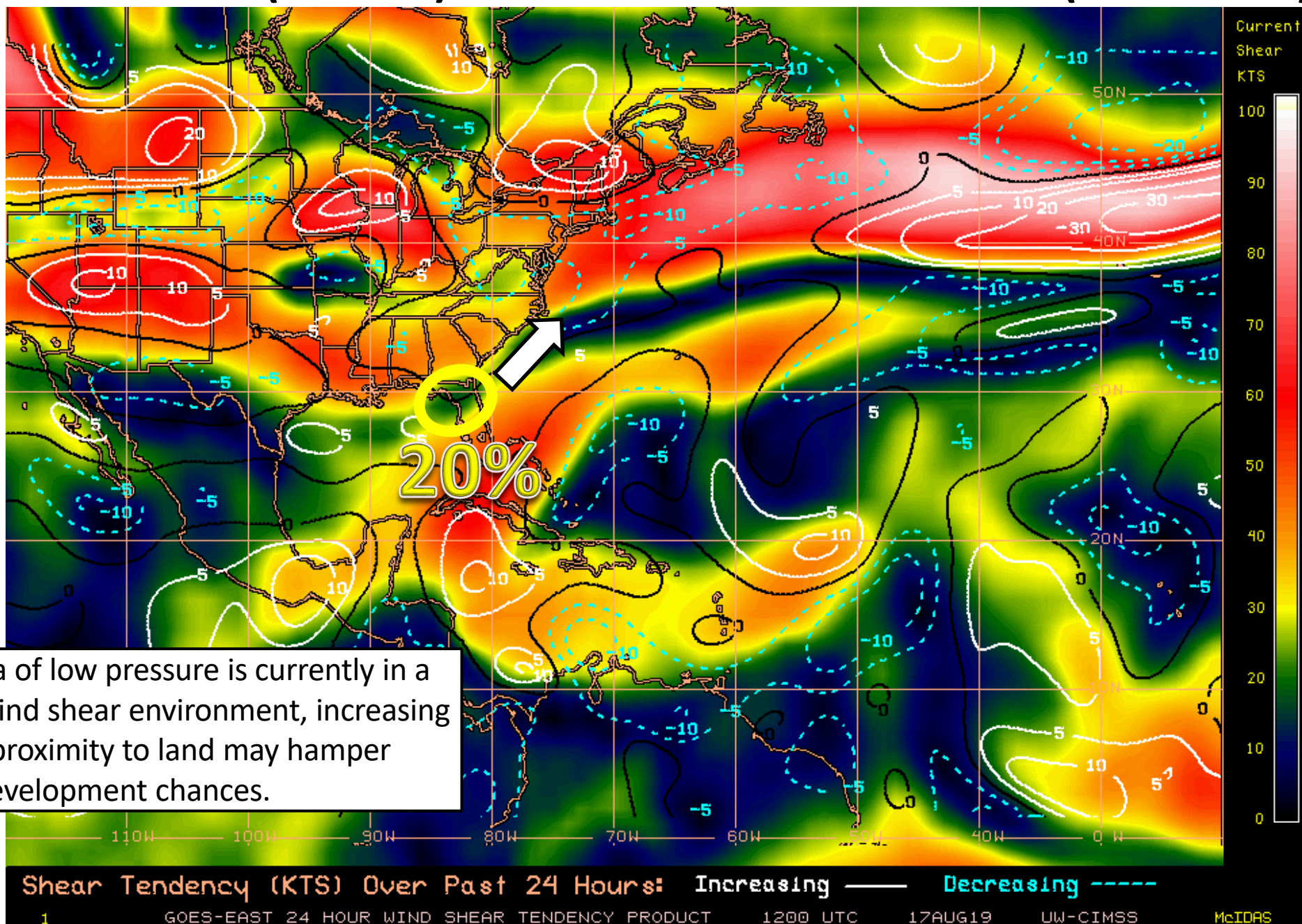


# Steering Currents



The weak trough of low pressure over NE FL will move to the northeast around the western edge of a large high pressure area.

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

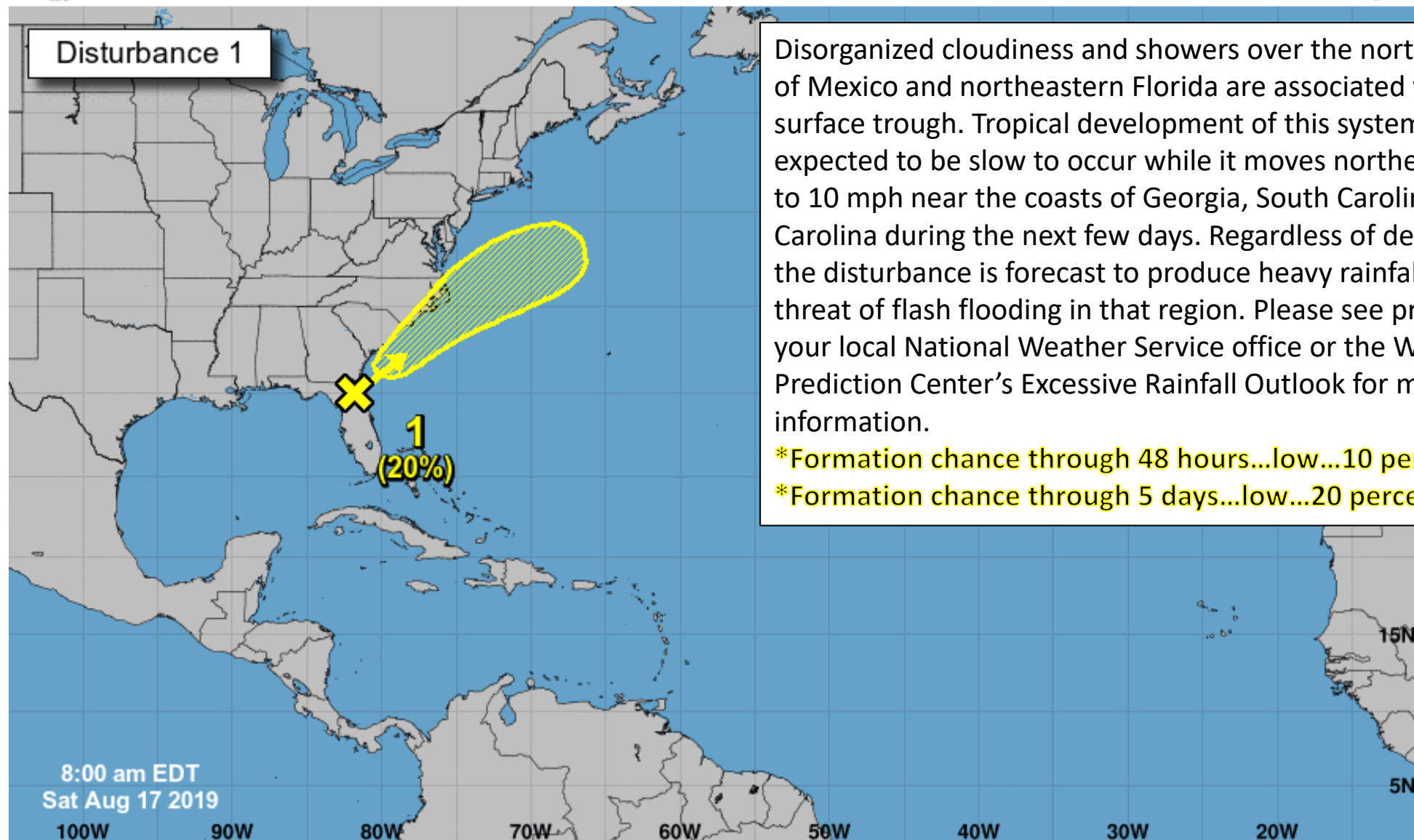






# Five-Day Graphical Tropical Weather Outlook

National Hurricane Center Miami, Florida



Disorganized cloudiness and showers over the northeastern Gulf of Mexico and northeastern Florida are associated with a weak surface trough. Tropical development of this system, if any, is expected to be slow to occur while it moves northeastward at 5 to 10 mph near the coasts of Georgia, South Carolina, and North Carolina during the next few days. Regardless of development, the disturbance is forecast to produce heavy rainfall along with a threat of flash flooding in that region. Please see products from your local National Weather Service office or the Weather Prediction Center's Excessive Rainfall Outlook for more information.

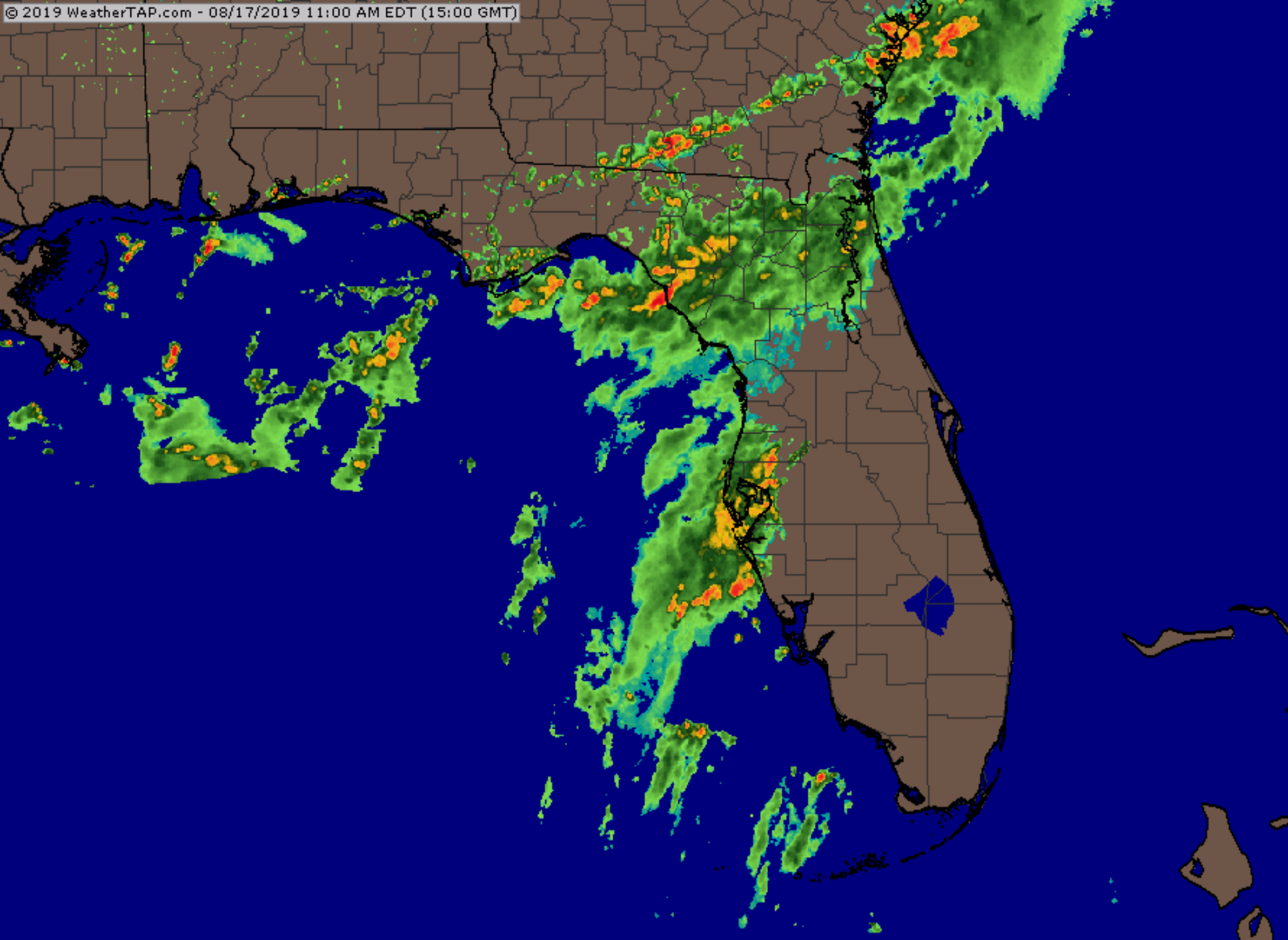
**\*Formation chance through 48 hours...low...10 percent.**

**\*Formation chance through 5 days...low...20 percent.**

Current Disturbances and Five-Day Cyclone Formation Chance: < 40% 40-60% > 60%

Tropical or Sub-Tropical Cyclone: Depression Storm Hurricane

Post-Tropical Cyclone or Remnants



## Florida Radar as of 11 AM EDT

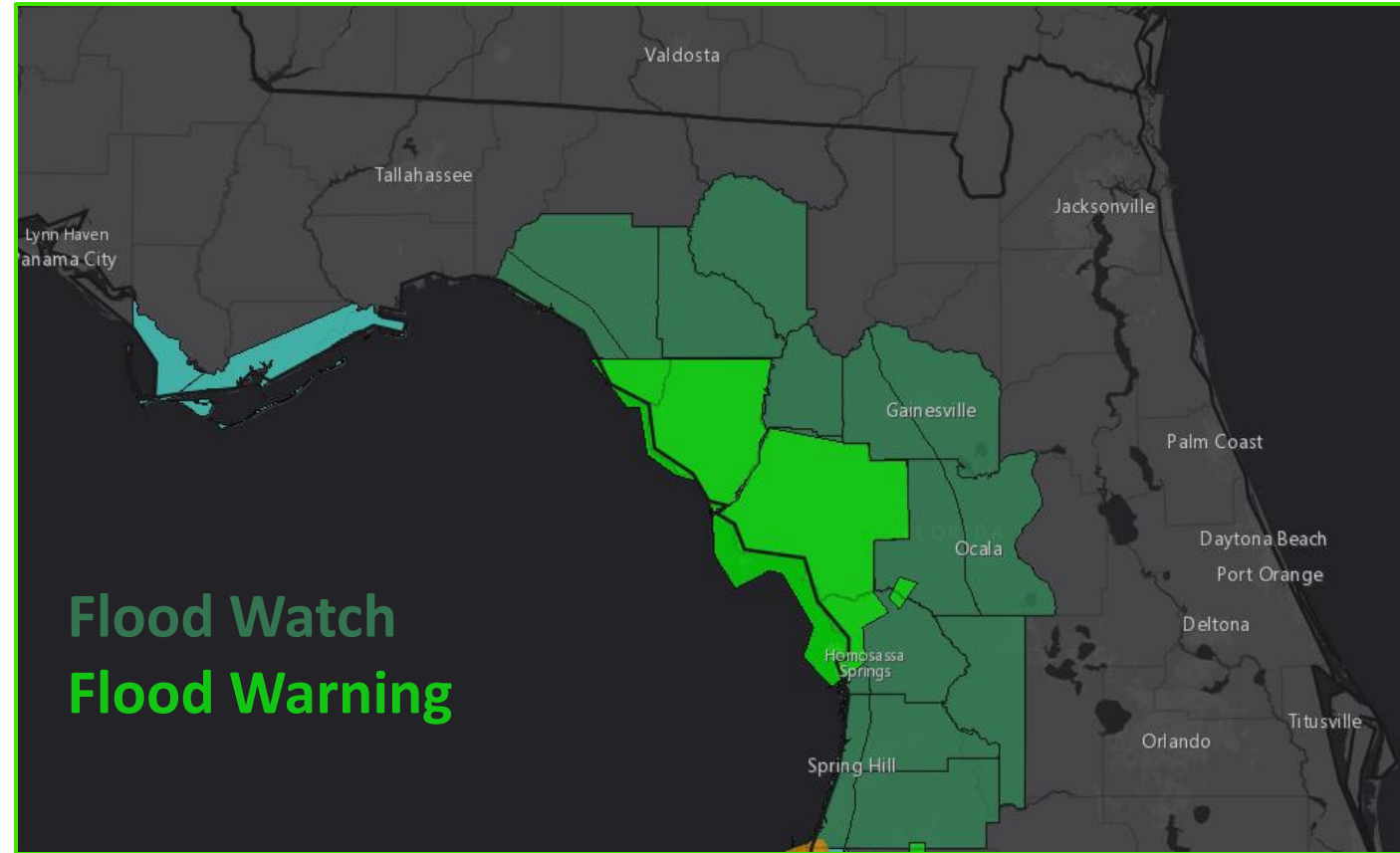
Showers and thunderstorms, some with locally heavy rainfall continue to move onshore of the eastern Big Bend and West Coast. The flood potential will continue today through Monday.

# Flood Alerts

**Flood Watches** are in effect for the eastern Big Bend, Nature Coast, and Suwannee River Valley through tonight or early Sunday morning

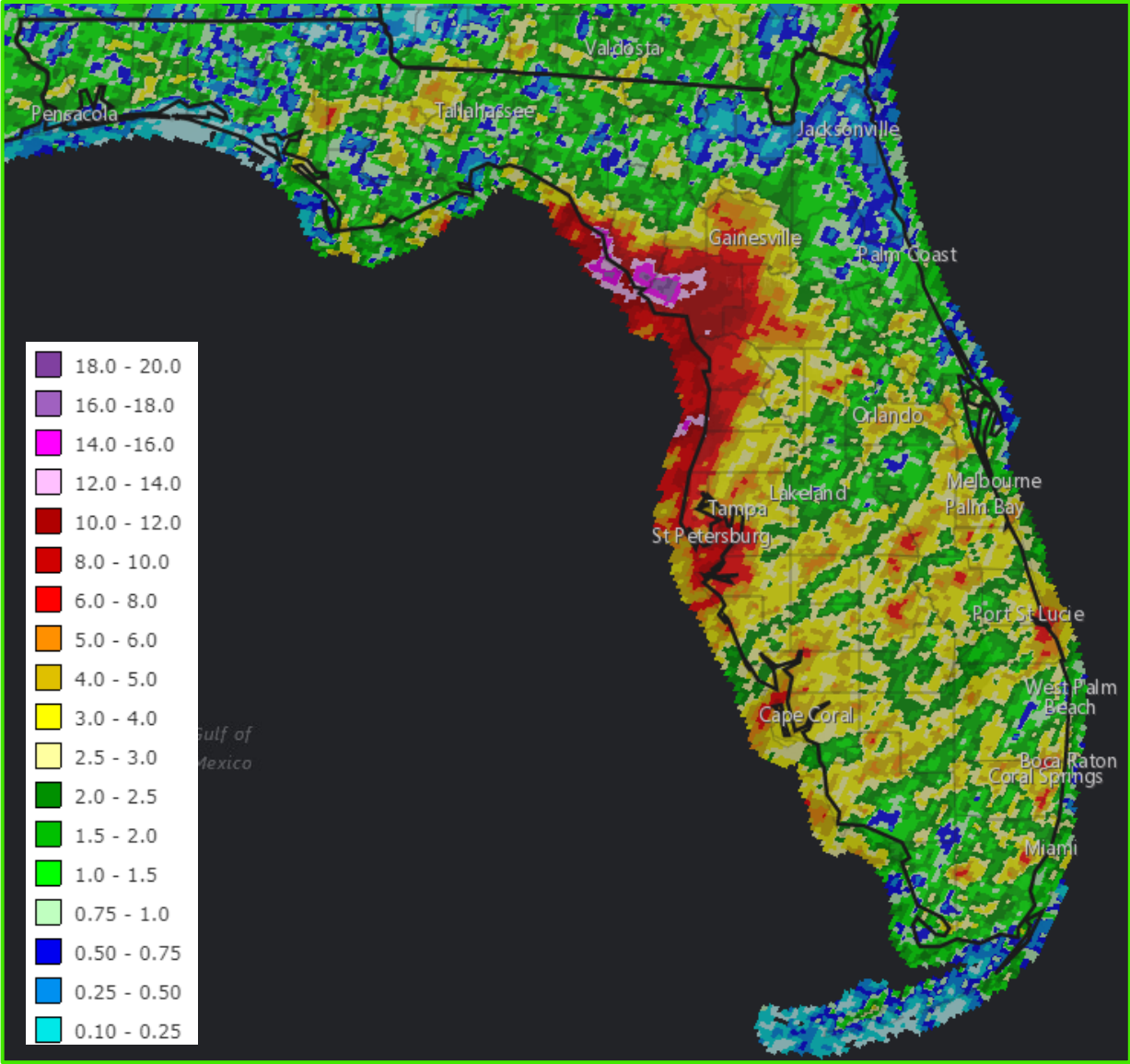
Areal Flood Warnings continue for parts of Taylor, Dixie, Levy, and Citrus Counties.

Several River Flood Warnings are in effect along much of the West Coast.



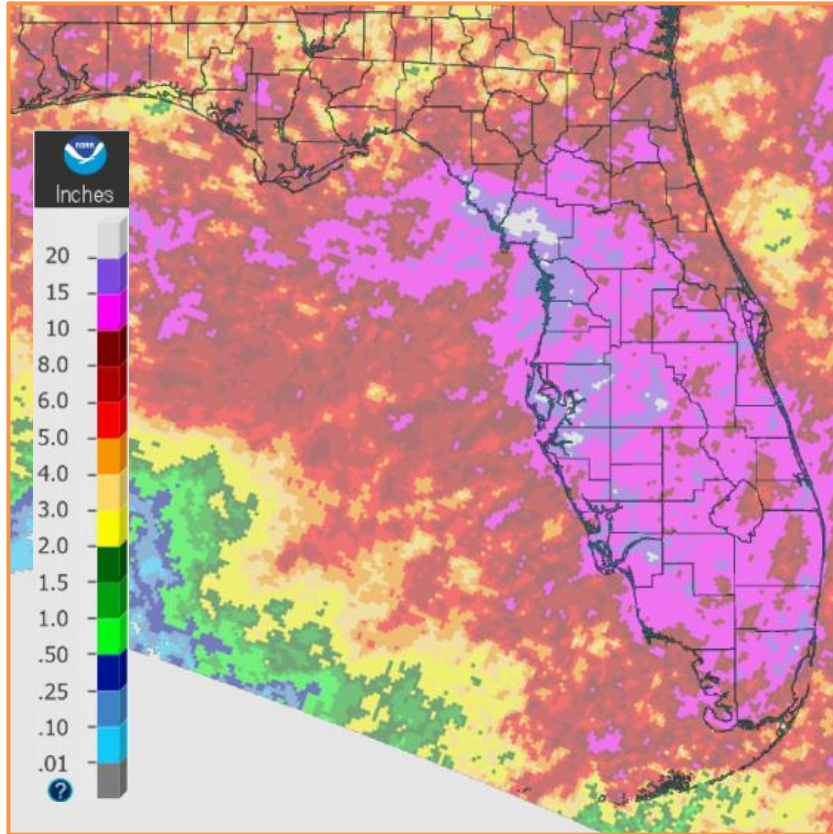
# Estimated Rainfall Totals Last 5 Days

Much of the West Coast has seen about 4-8" of rainfall over the last 5 days. Along the Nature Coast, most places have seen about 6-12" of rain. Localized totals in Dixie and Levy Counties have exceeded 12-16".

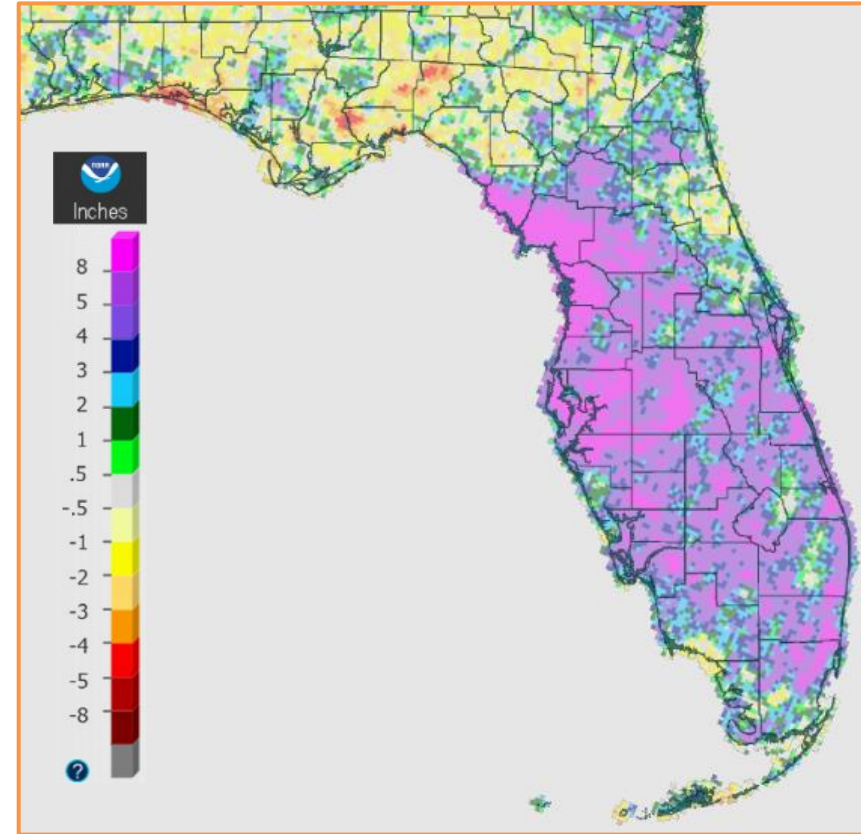




# Estimated 30 Day Rainfall



# 30 Day Rainfall Departures

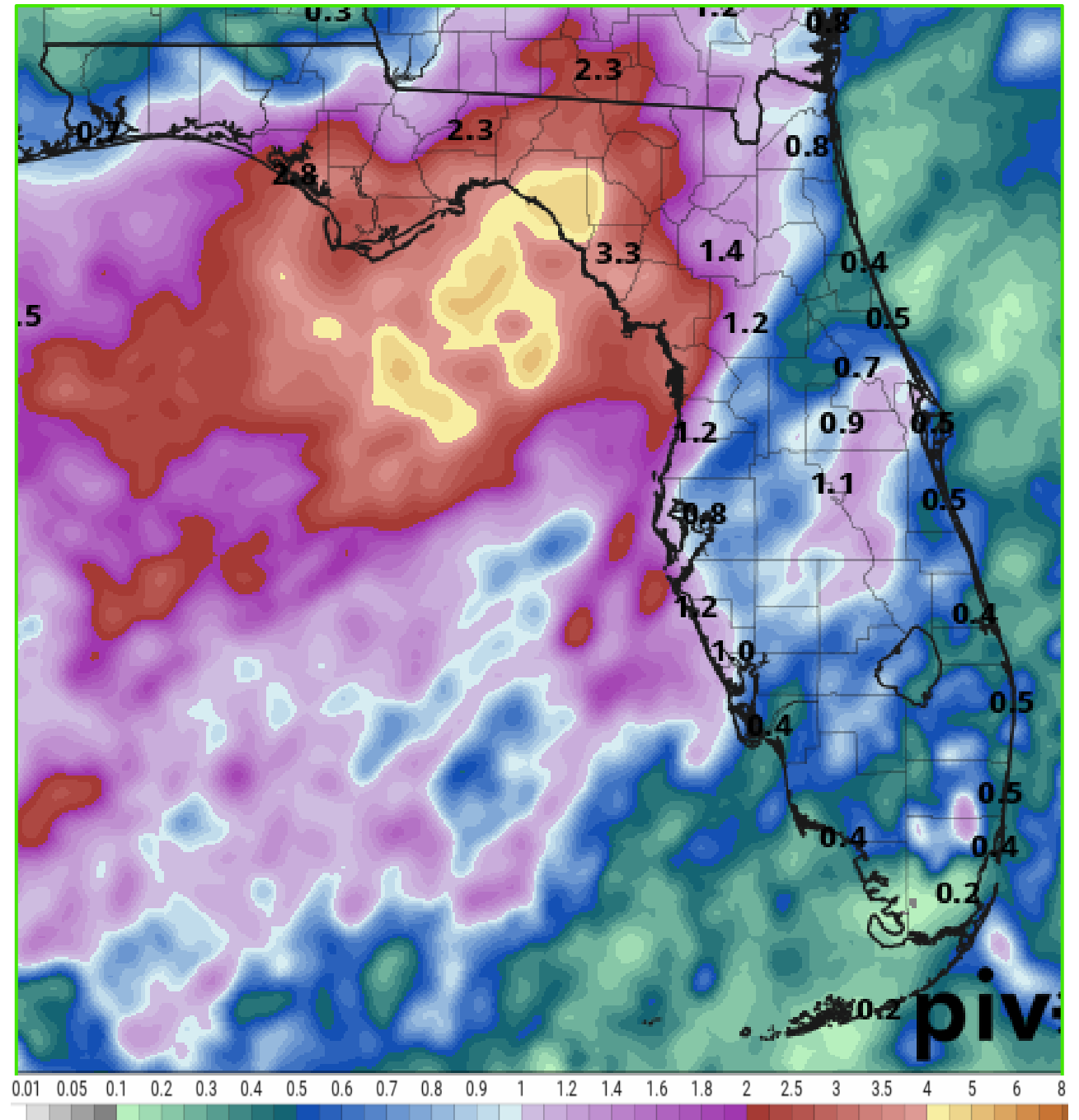


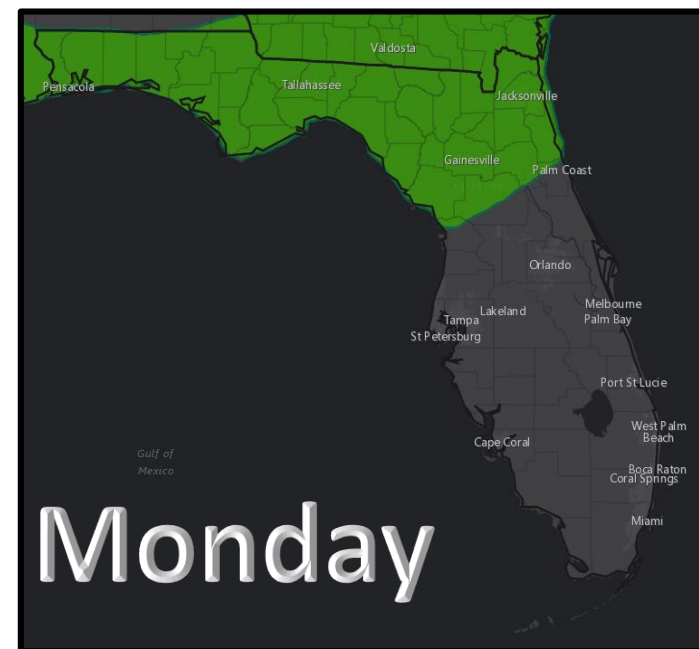
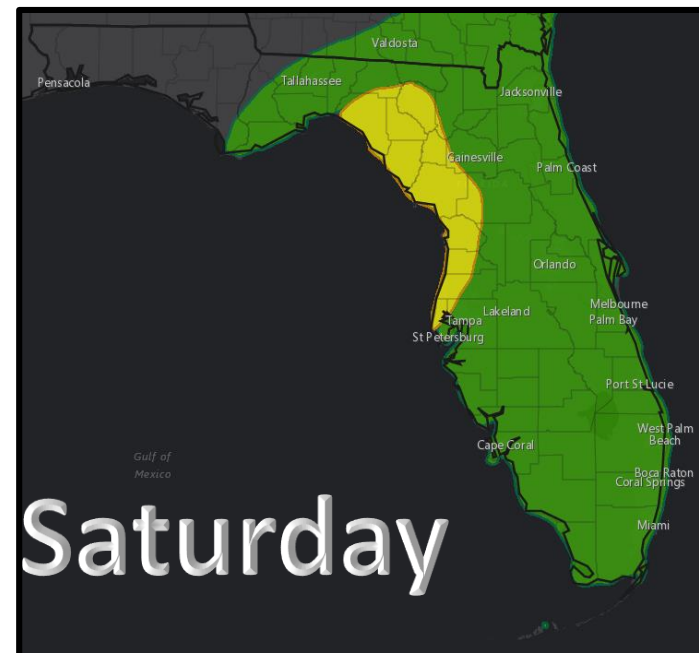
Rainfall over the last 30 days has been very abundant across the Peninsula with most areas seeing 10-15 inches of rain. Localized areas in the Peninsula have seen 15-20"+, which is about 4-8"+ above average. This is also about 150-300% of normal rainfall. Rainfall in the Panhandle is about 1-3" below average for the last 30 days.

# Rainfall Totals Through the Weekend

The eastern Big Bend and the Nature Coast will see the highest rainfall totals through the next 3 days. Rainfall totals of 3-5" are possible in this area with localized higher totals of 5-8" possible.

2-3" of rain are possible in the Big Bend and eastern Panhandle and along the West Coast over the next 5 days. Typical pop-up thunderstorms across the rest of the state could yield locally heavy rainfall.





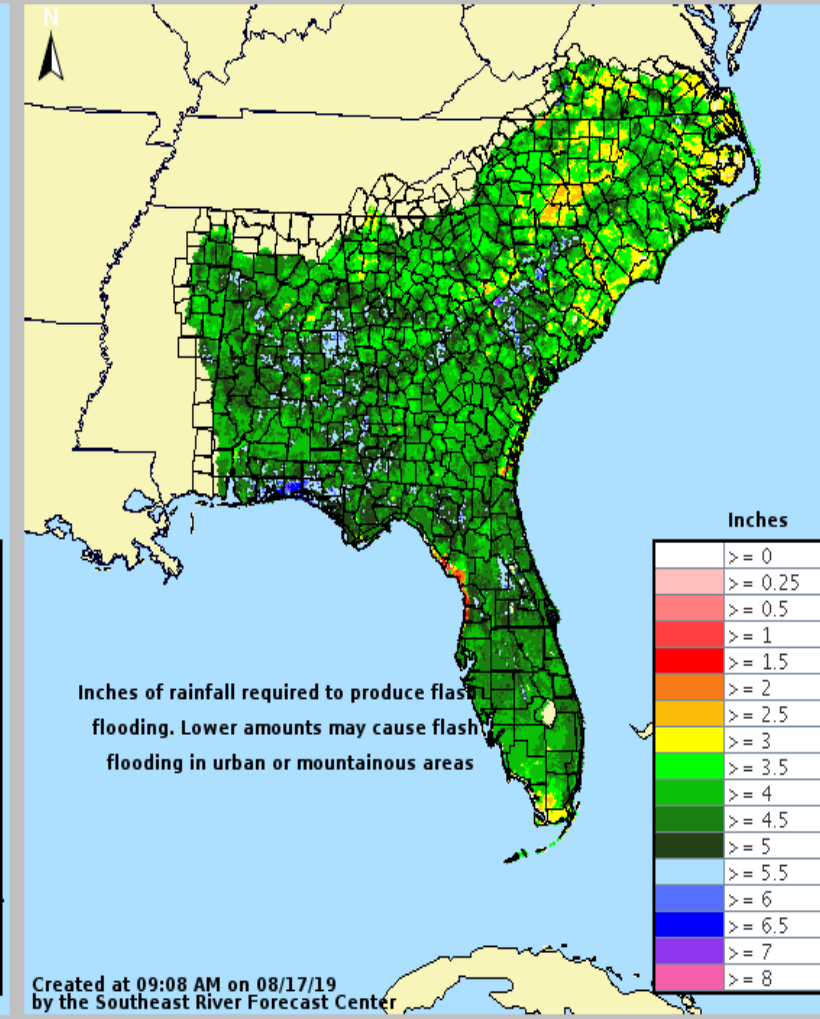
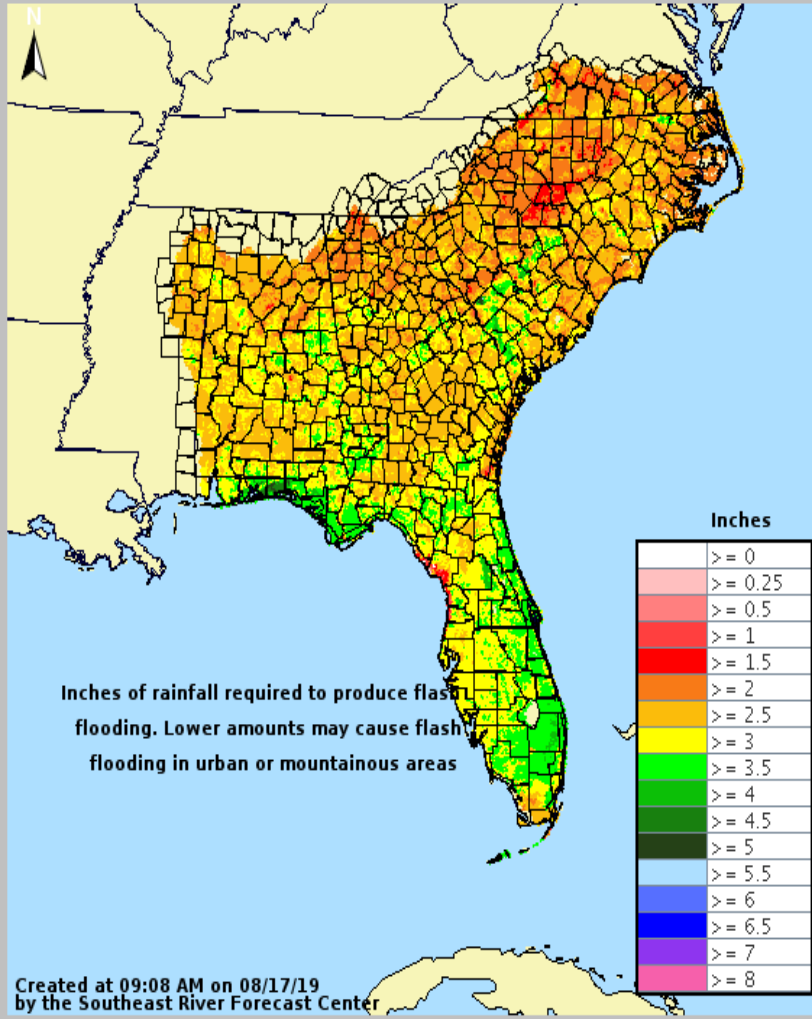
MARGINAL (MRGL)	SLIGHT (SLGT)
Isolated flash floods possible	Scattered flash floods possible
Localized and primarily affecting places that can experience rapid runoff with heavy rainfall.	Mainly localized. Most vulnerable are urban areas, roads, small streams and washes. Isolated significant flash floods possible.

# Flash Flood Outlooks This Weekend

Each day, there is a risk of flash flooding in Florida. For today, there is a **Slight Risk** (level 2 of 4) for flash flooding across the eastern Big Bend and Nature Coast with a **Marginal Risk** (level 1 of 4) elsewhere in the Big Bend and Peninsula. On Sunday and Monday, there is a **Marginal Risk** for all of North Florida and the northern part of the Peninsula.



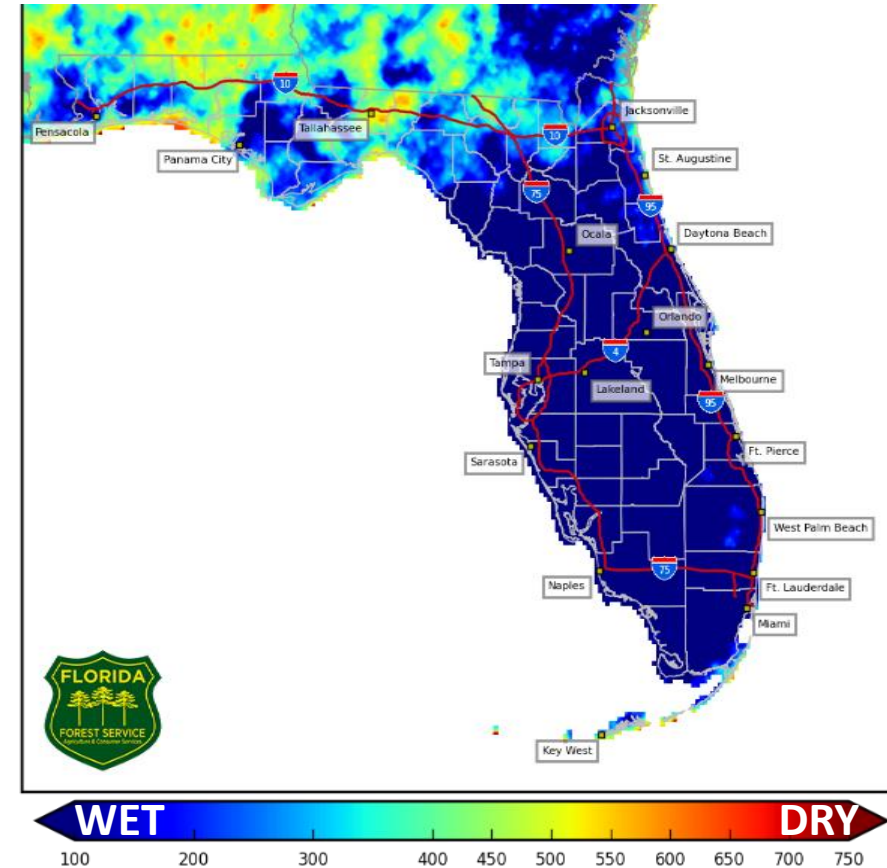
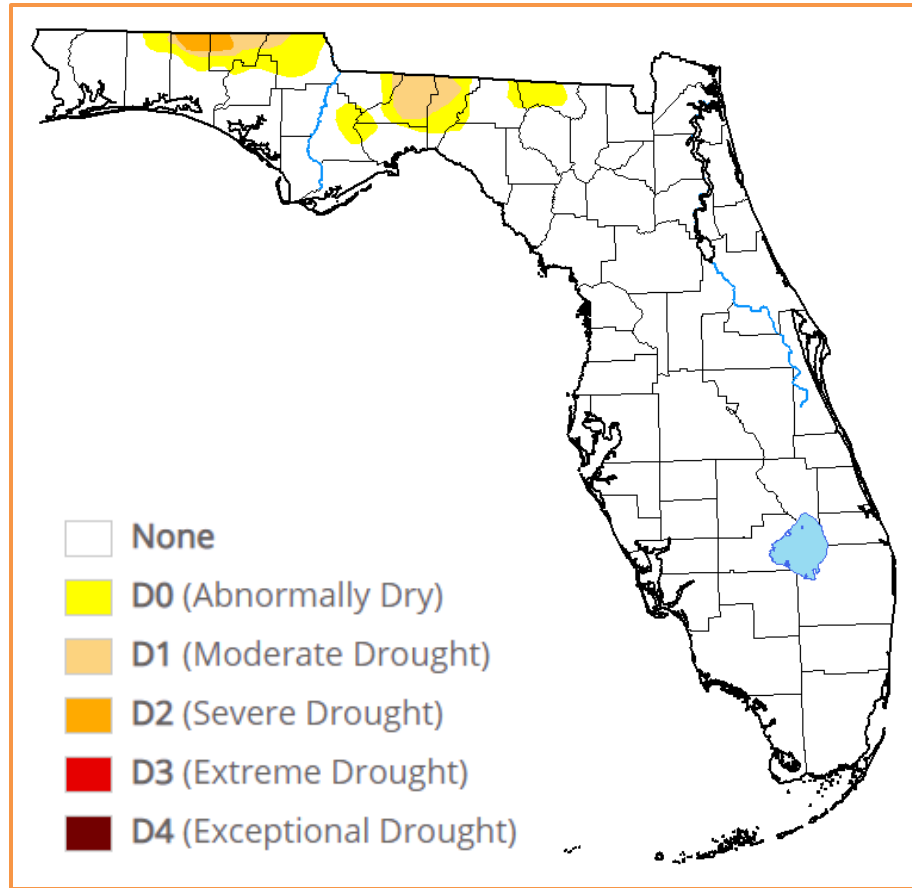
# Rainfall Needed to Cause Flash Flooding



Along the Nature Coast, it will only take about 1-2" within 1 hour or 2-3" with 6 hours to produce flash flooding due to extremely saturated conditions.

Elsewhere in the state, it will take about 2-4" in 1 hour or 4-6" within 6 hours to cause flash flooding

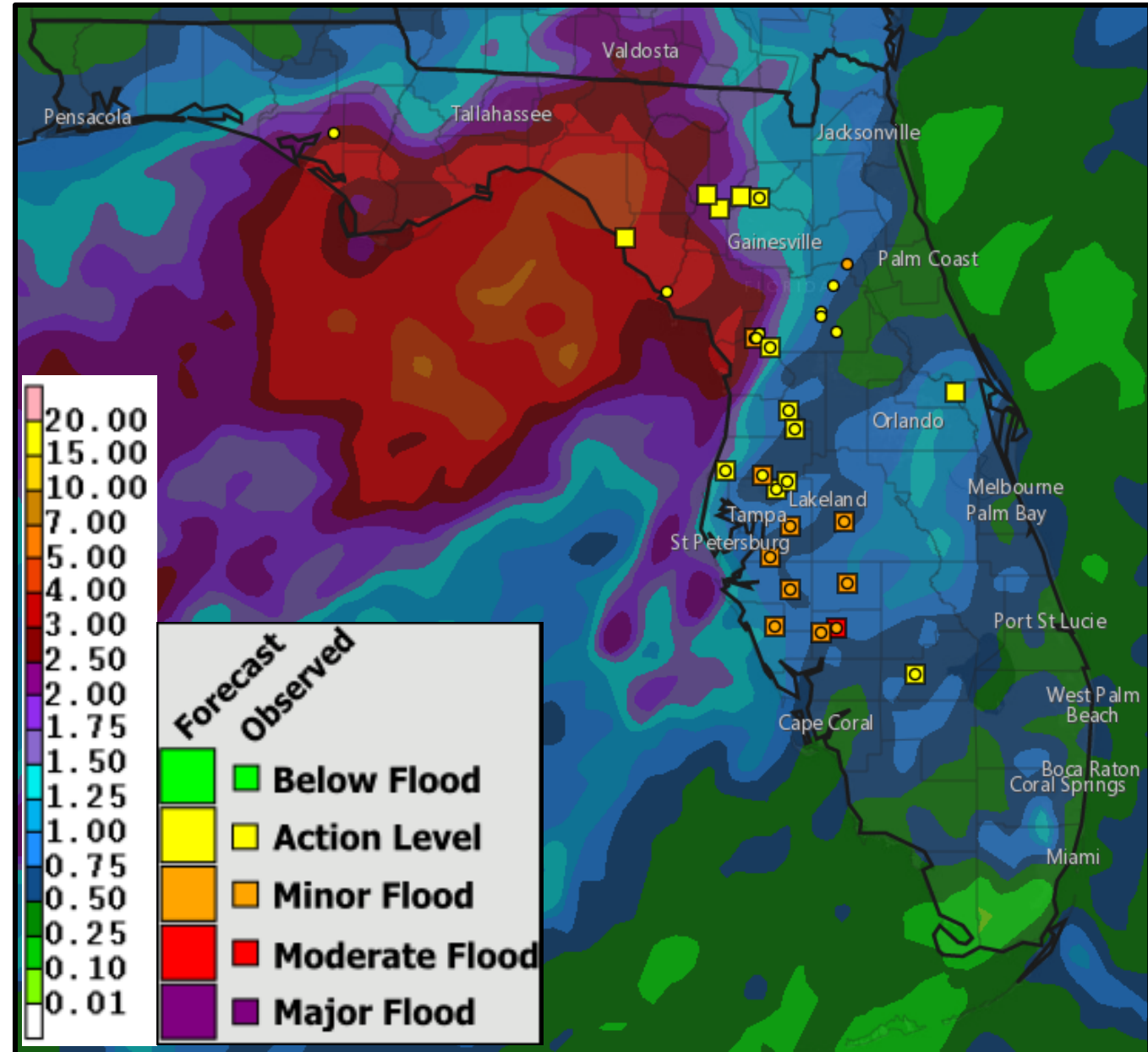
# Current Drought Monitor and Keetch-Byram Drought Index



Soils are very saturated across nearly all of the Peninsula, and the additional rainfall is not needed and may lead to additional flooding concerns. However, parts of North Florida are still in moderate to severe drought, and the rainfall would be welcome in those areas.

# Current/Forecast River Statuses and 3-Day Rainfall

Several River Flood Warnings remain in effect across West Central Florida. Rivers are rising across much of the Peninsula. Several rivers across West Central Florida are in or expected to rise to minor flood stage. The Peace River at Arcadia could rise into moderate flood stage. Several other rivers across the Peninsula are in or rising to action stage.

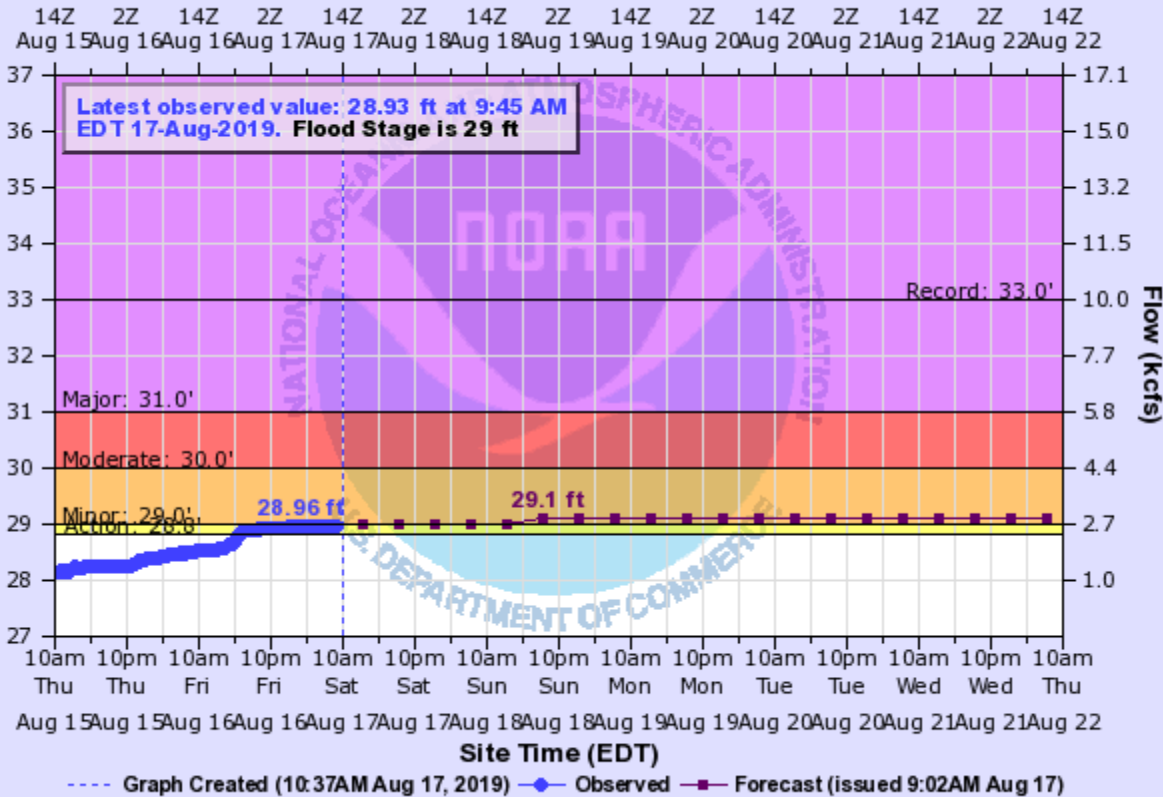




# Current and Forecast Hydrographs

**WITHLACOOCHEE RIVER (FL) AT DUNNELLON**

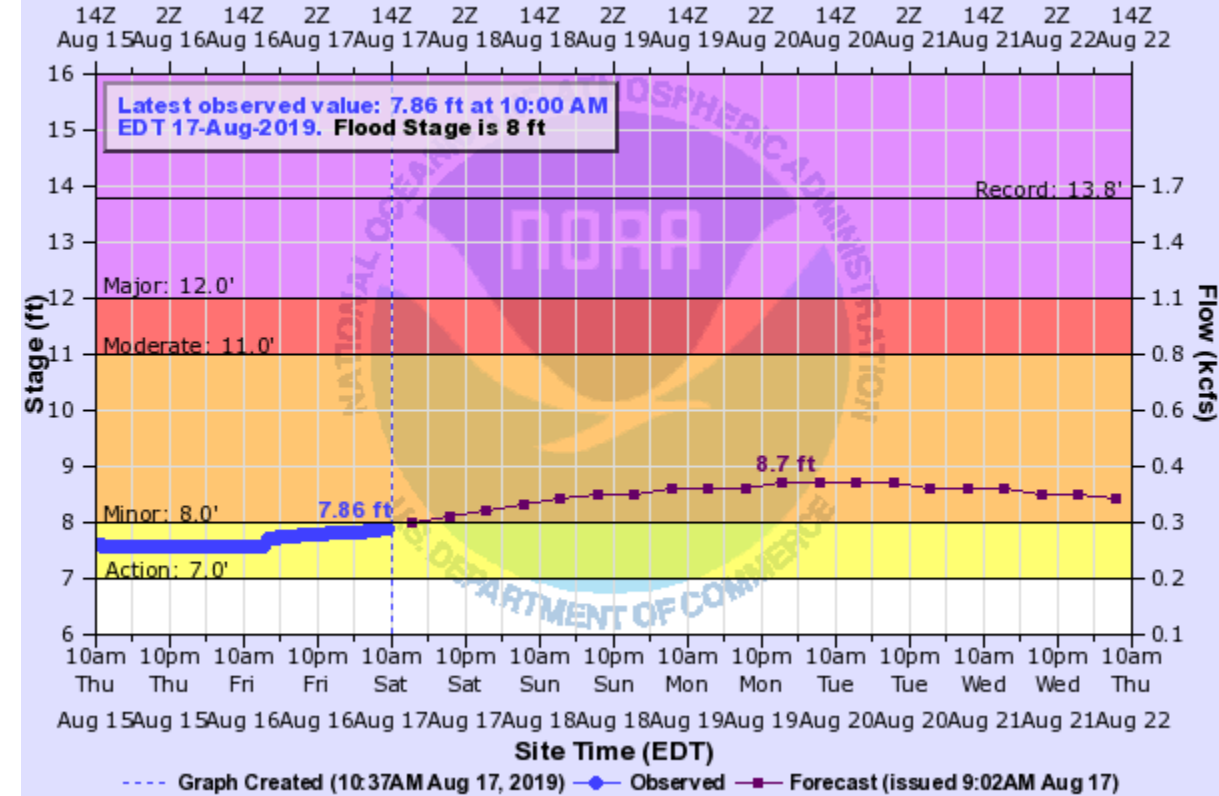
Universal Time (UTC)



- 29 ft. – Docks and boat ramps flood.

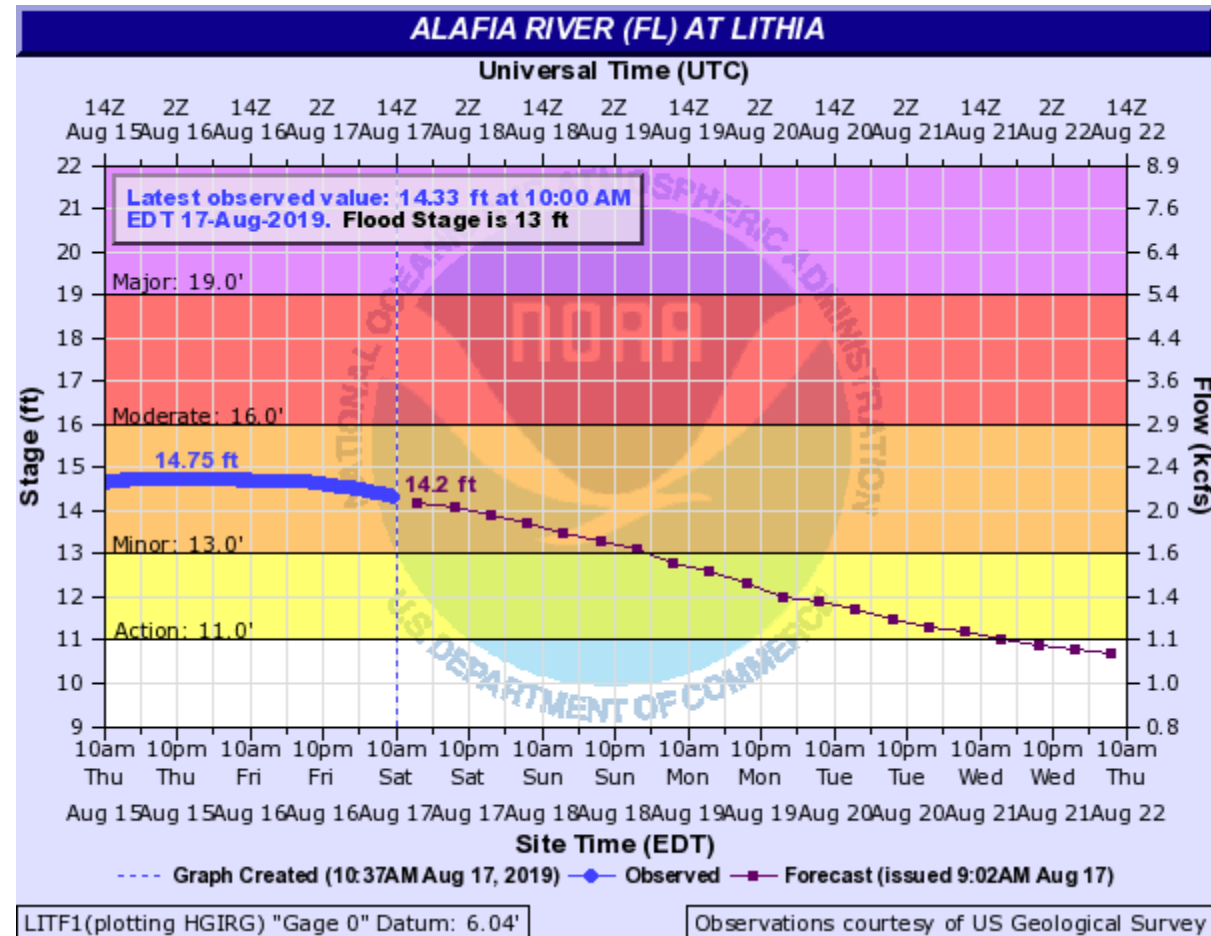
**CYPRESS CREEK (FL) AT WORTHINGTON GARDENS**

Universal Time (UTC)

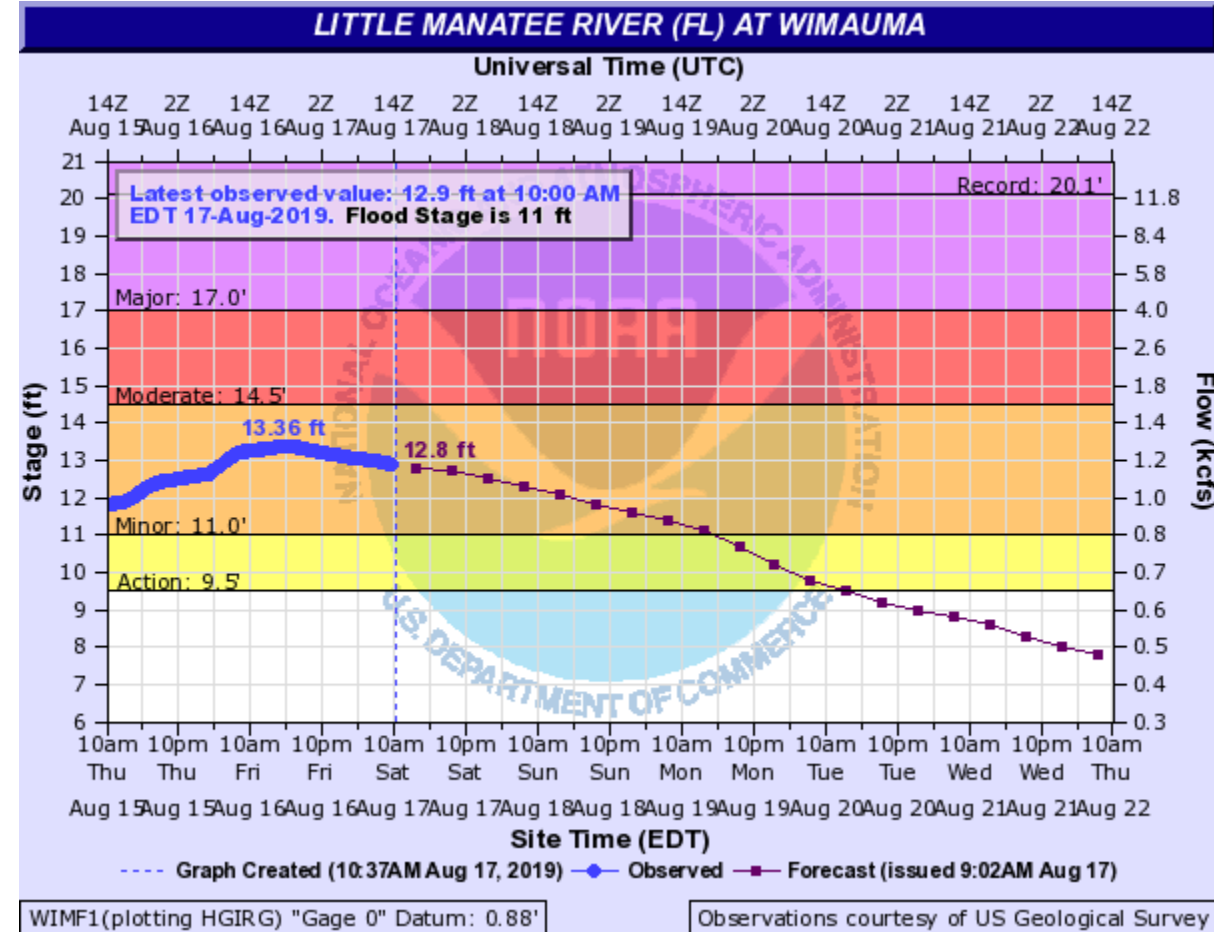


- 8 ft. – Flooding begins at the recreation area on State Road 54.

# Current and Forecast Hydrographs



- 13 ft. – River Drive and Squirrel Run Way downstream of County Road 640 are completely covered by water. One home begins to flood.
- 12 ft. – Water begins to affect River Drive and Squirrel Run Way downstream of County Road 640.

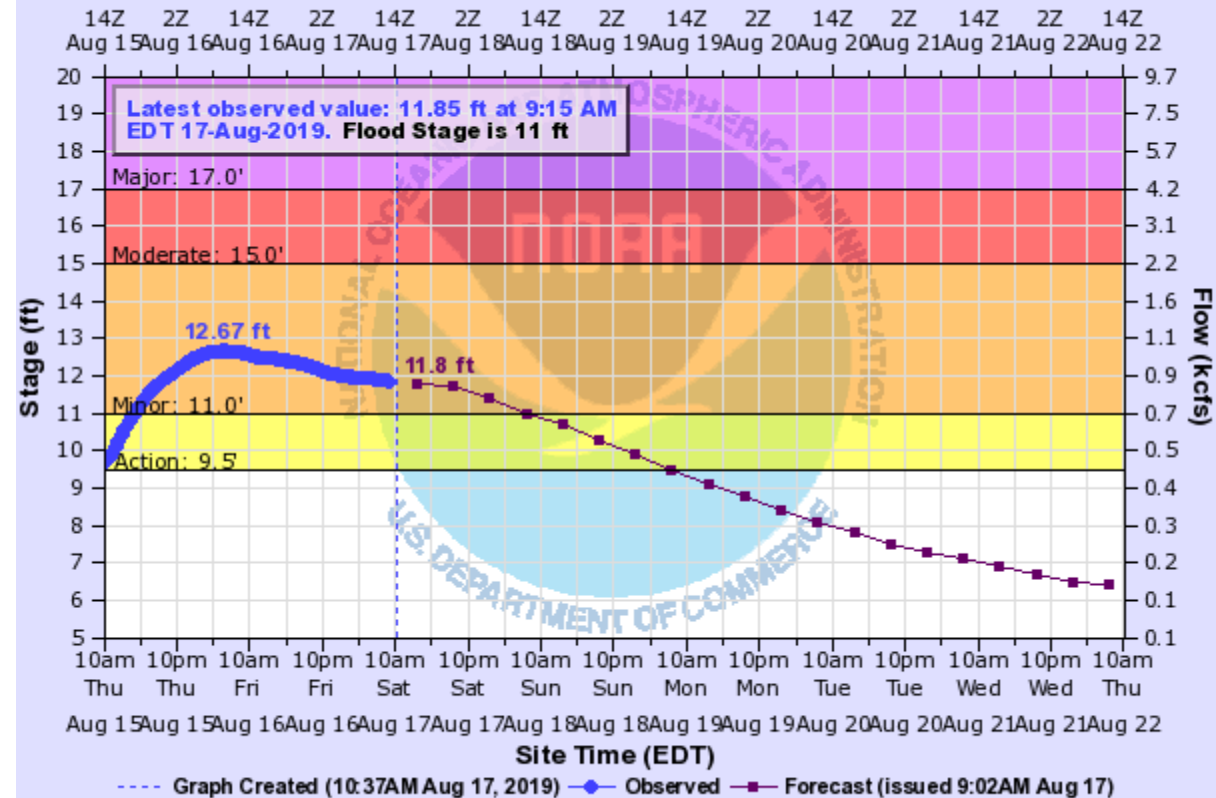


- 13 ft. – The canoe rental area floods.
- 11 ft. – The river overflows its banks.

# Current and Forecast Hydrographs

**MANATEE RIVER (FL) AT MYAKKA HEAD**

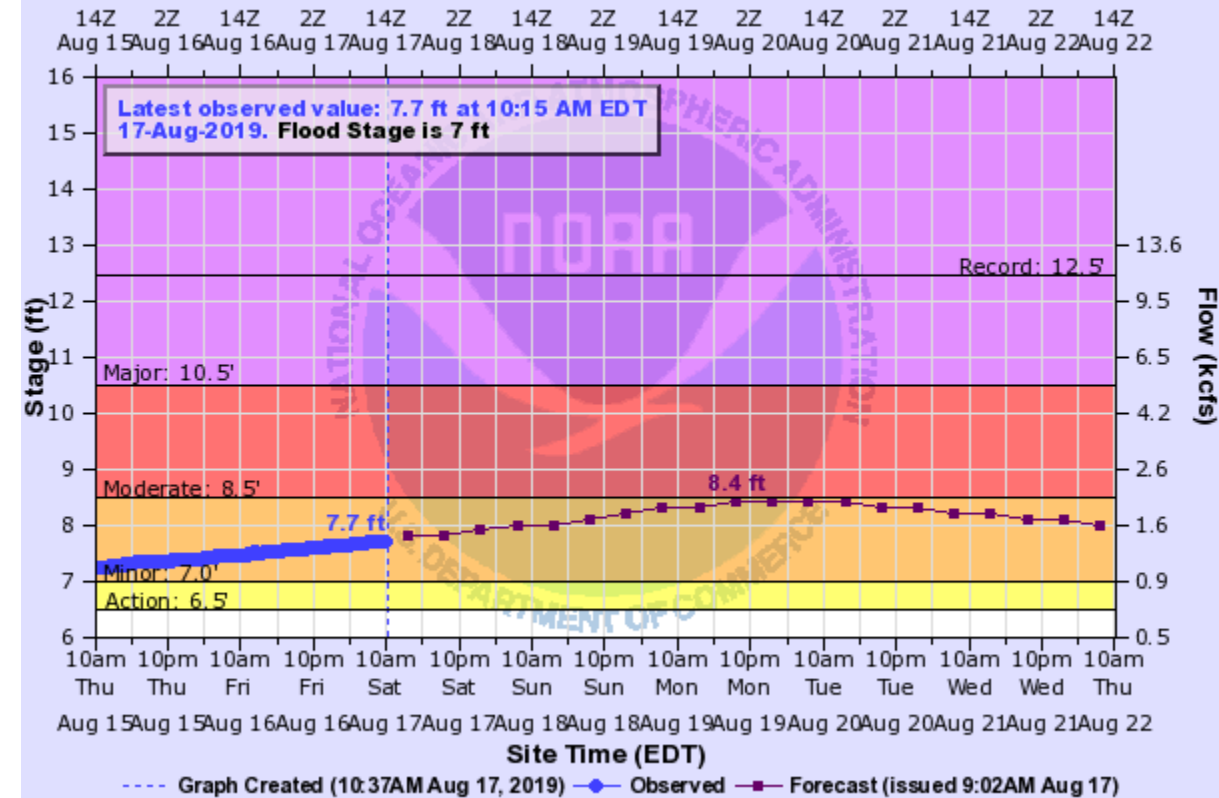
Universal Time (UTC)



- 15 ft. – Low sections of State Road 64 start to flood.
- 11 ft. – Private road and bridge 1 mile downstream flood. Agricultural, rural Kibler area begins to flood.

**MYAKKA RIVER (FL) AT MYAKKA RIVER STATE PARK**

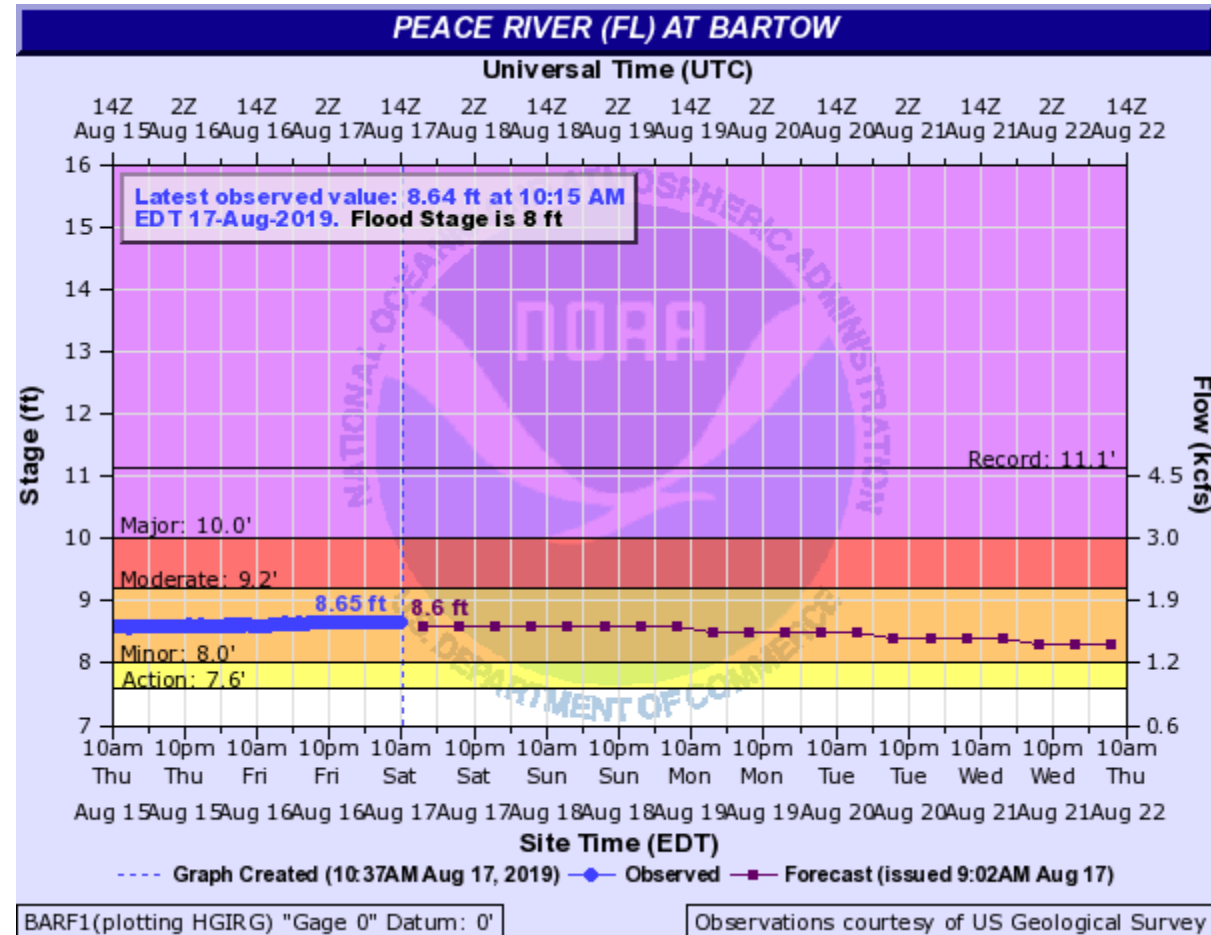
Universal Time (UTC)



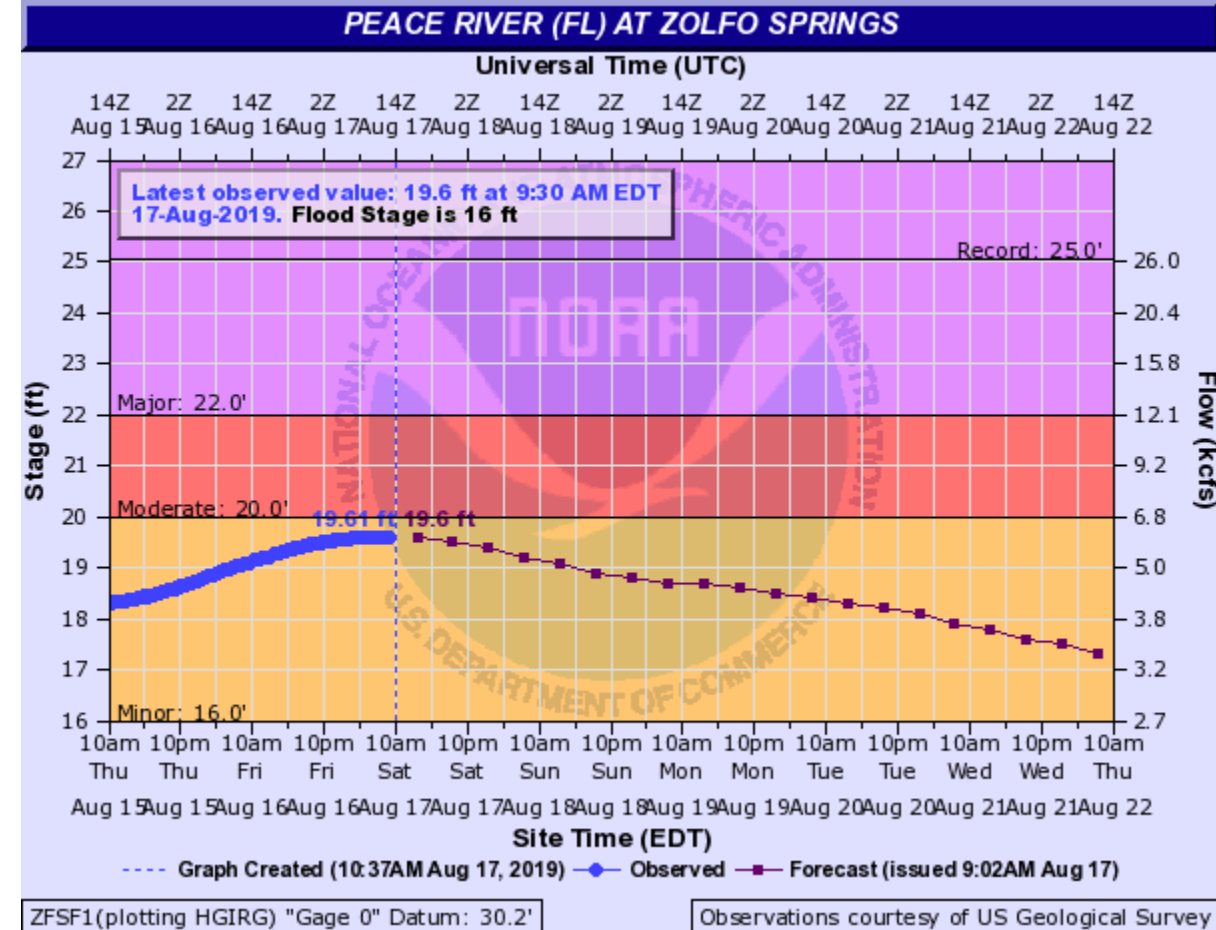
- 8.5 ft. – Most of Myakka State Park is closed.
- 8 ft. – The main road at Myakka State Park floods.
- 7 ft. – Trails, picnic areas, and parking lots at Myakka State Park flood.



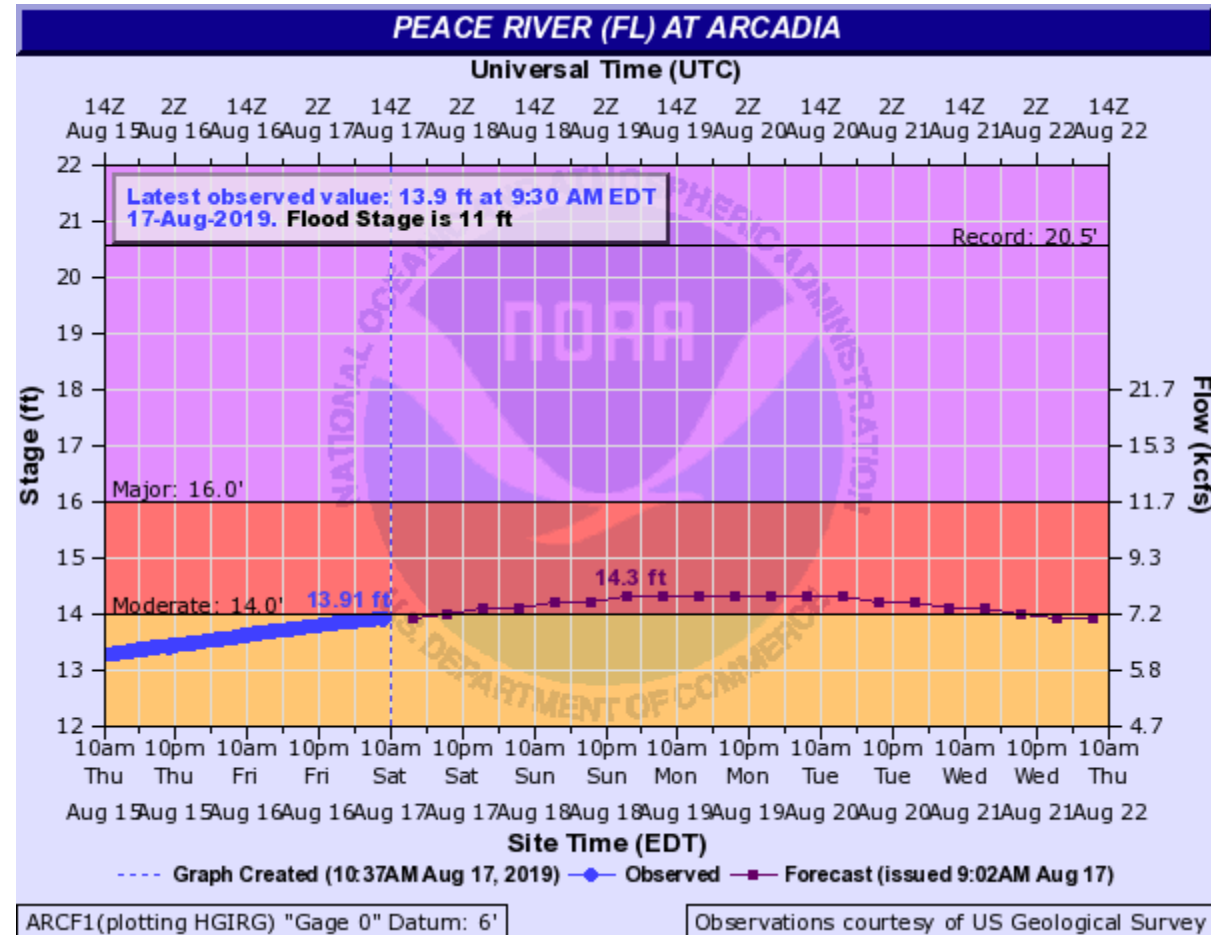
# Current and Forecast Hydrographs



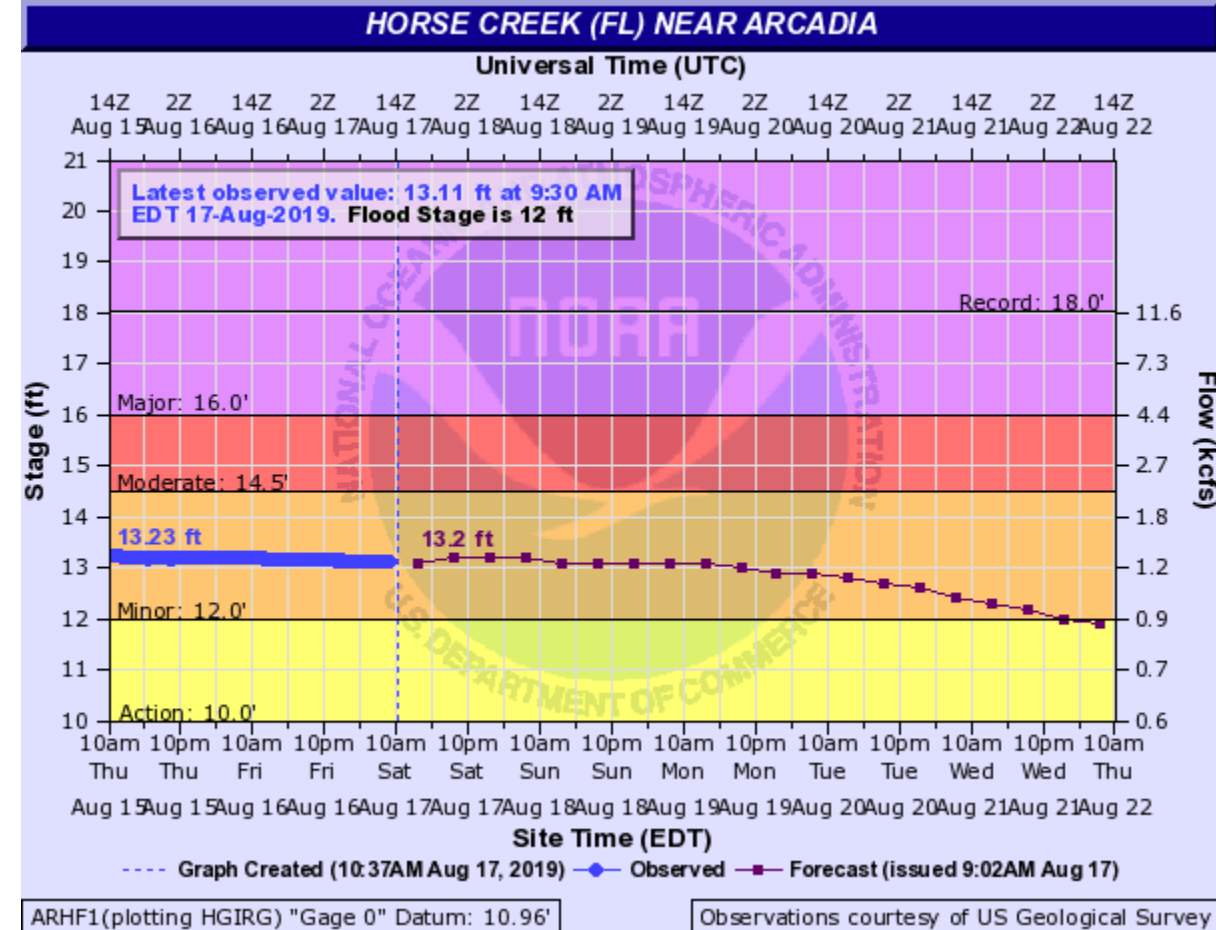
- 8 ft. – Private roads downstream flood.



# Current and Forecast Hydrographs

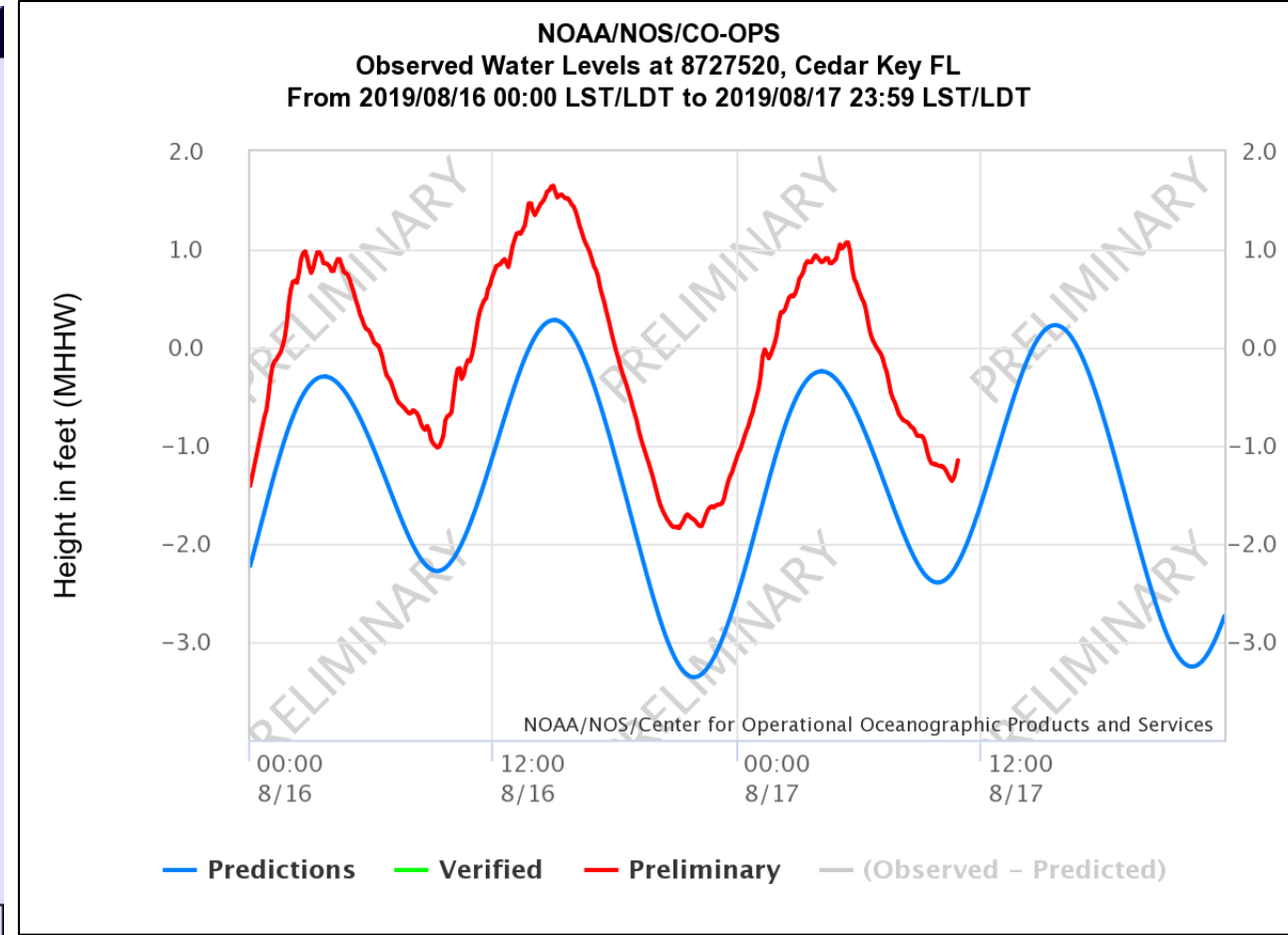
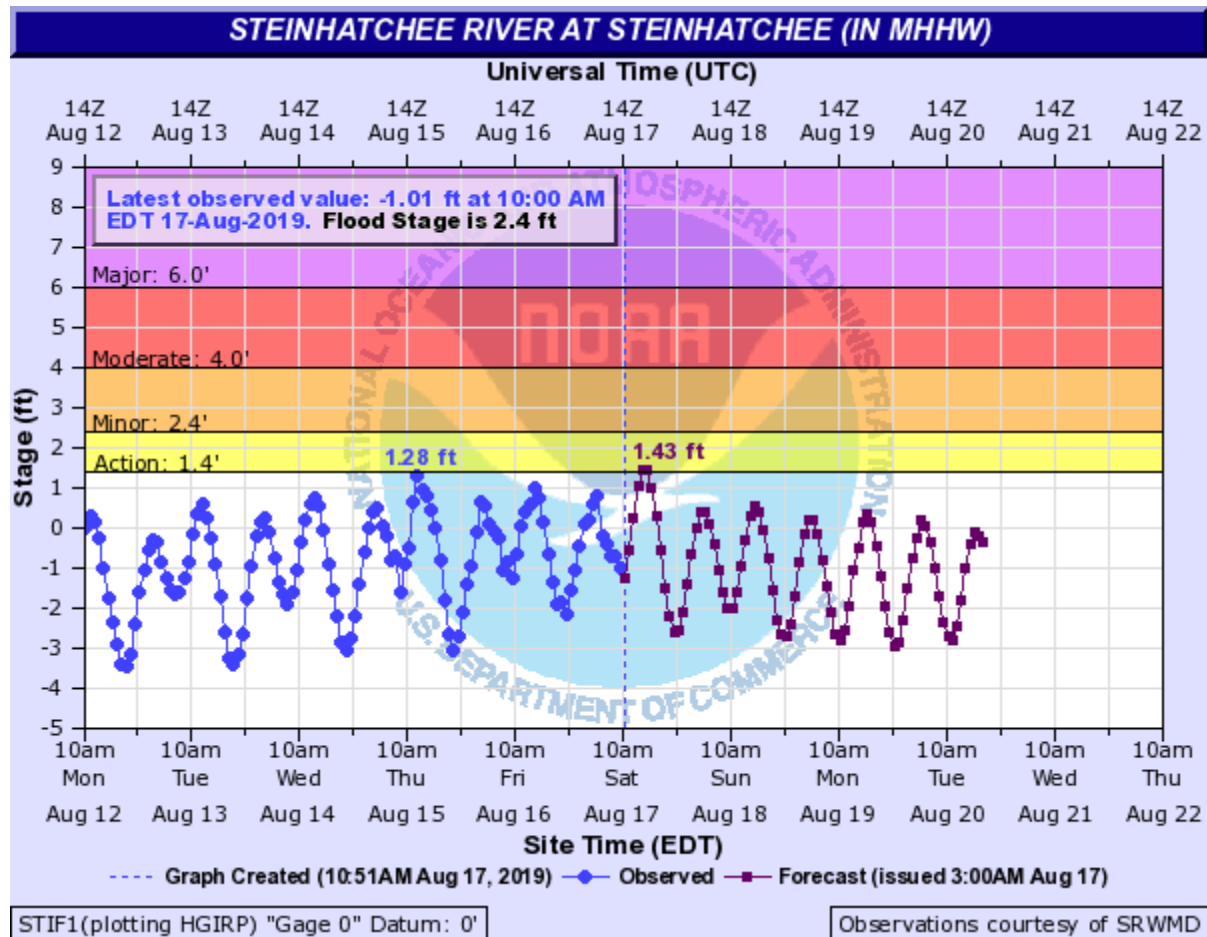


- 15 ft. – River Acres is impacted
- 14 ft. – Peace River Campground flood and 6 homes at River Acres are impacted.
- 13 ft. – Peace River Estates floods affecting several dozen homes.
- 12 ft. – The Girl Scout camp floods.
- 11 ft. – Access roads to River Acres become flooded.



- 14 ft. – Buildings in Hidden Acres flood.
- 12 ft. – The access road to Hidden Acres is impassable.
- 11 ft. – Secondary roads in Hidden Acres and Royal Palm begin to flood.

# Minor Coastal Flooding Possible



Tides are running about 1-2' above normal along the Dixie and Levy County coasts. This could result in some minor flooding, and a **Coastal Flood Advisory** is in effect through this evening. If heavy rainfall occurs near high tide, it may be difficult for the tide to drain, resulting in some possible minor flooding.



# Summary:

- **What:**
  - A weak trough of low pressure over Northeast Florida will move northeastward along the coast of Georgia and the Carolinas. This system has a 10% chance of formation during the next 48 hours and 20% during the next 5 days.
  - Heavy rainfall and possible flooding is expected across much of the Big Bend, West Coast, and northern Peninsula. Isolated flooding is possible elsewhere in the state.
  - 3-5" in the eastern Big Bend and Nature Coast (localized 5-8"); 2-3" in North Florida and the Peninsula.
  - River flooding will continue across much of the western Peninsula.
  - Minor coastal flooding is possible in Dixie and Levy Counties
- **Where:** The highest threat of flash flooding will be in the Big Bend, West Coast, and northern Peninsula—Slight Risk of flash flooding (level 2 of 4) Saturday.
- **When:** This weekend and possibly early next week. River flood impacts continue into next week. Coastal flood impacts decrease after today.
- **Potential Impacts:** Heavy rainfall may produce flooding in areas where abundant rain has fallen over the last month and soils are saturated. Minor to moderate river flooding will be possible across West Central Florida into next week. Heavy rainfall combined with strong westerly winds may prevent tides from draining, resulting in minor coastal flooding in Dixie and Levy Counties.

Another update may be issued Sunday morning, especially if flood issues continue. For the latest tropics information, please see the latest outlooks from the [National Hurricane Center](#). For the latest flood updates, see the latest products from your local National Weather Service, the [Southeast River Forecast Center](#), and the [Weather Prediction Center](#).



# TROPICAL UPDATE



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State Meteorological Support Unit

Florida Division of Emergency Management

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