

TROPICAL UPDATE



11:00 AM EDT

Tuesday, September 29, 2020

Western Caribbean (50%)

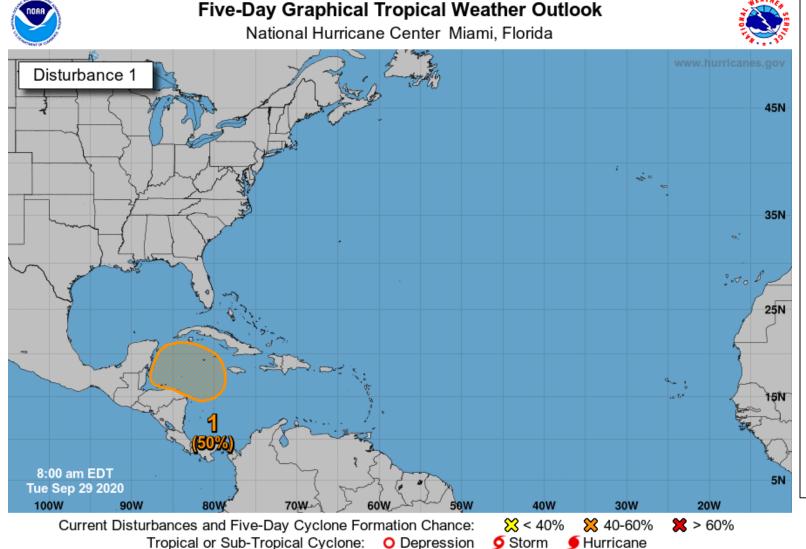
This update is intended for government and emergency response officials, and is provided for informational and situational awareness purposes only. Forecast conditions are subject to change based on a variety of environmental factors. For additional information, or for any life safety concerns with an 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.

Atlantic Basin Satellite Image Chance of development: — None Medium High Low Spain United States OKLA. Tunisia Morocco Cold Front **Tropical Waves** Tropical Waves Tropical Waves Venezuela French Guiana RORAIMA AMAPA



Tropical Weather Outlook

Possible Area of Development During the Next 5 Days (LINK)



Post-Tropical Cyclone or Remnants

A broad area of low pressure is expected to form over the western Caribbean Sea in a few days.

Environmental conditions are forecast to be conducive for some gradual development thereafter, and a tropical depression could form late this week or this weekend while the system moves slowly west-northwestward over the northwestern Caribbean Sea.

The movement and the strength of the system is highly uncertain this weekend and will depend on its evolution over the next few days.

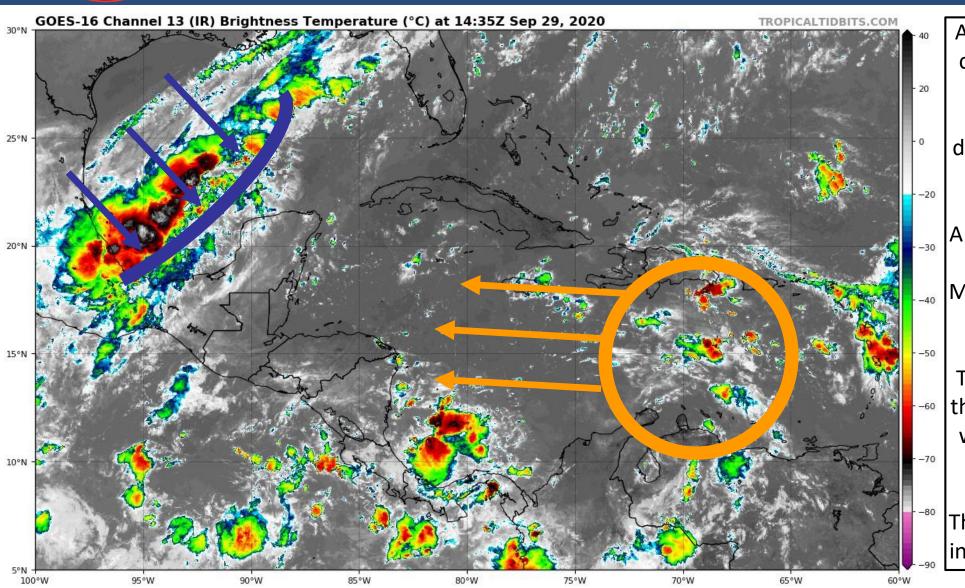
This system should be monitored closely later this week, but is no immediate threat.

- *Formation chance through 48 hrs...low...near 0%
- *Formation chance through 5 days...medium...50%

FDEM OTHER OF THE GOVERNOR

Satellite Imagery

Western Atlantic



A tropical wave currently in the central Caribbean is producing showers and a few thunderstorms, but remains disorganized. It is moving to the west.

A strong, early-season cold front is moving across the Gulf of Mexico and towards the Yucatan Peninsula.

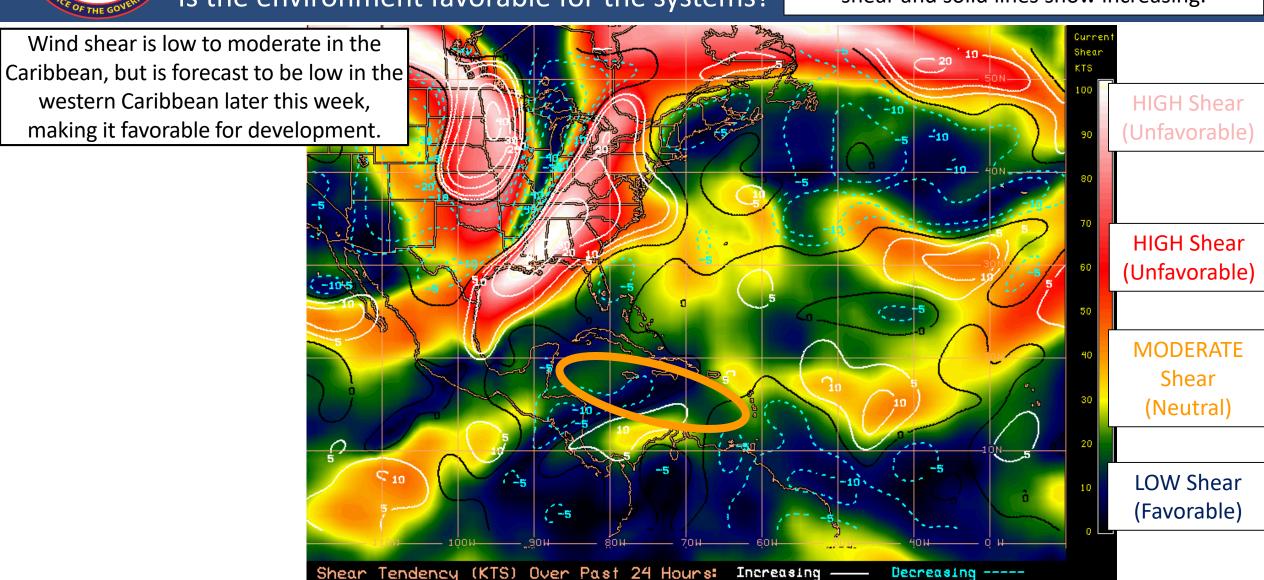
These two systems will meet in the western Caribbean later this week and may form an area of low pressure.

There is no development chance in the short-term/next 48 hours.



Is the environment favorable for the systems?

Color denotes the amount of wind shear and the lines denote how it have changed over the last 24 hours (dotted lines show decreasing shear and solid lines show increasing.

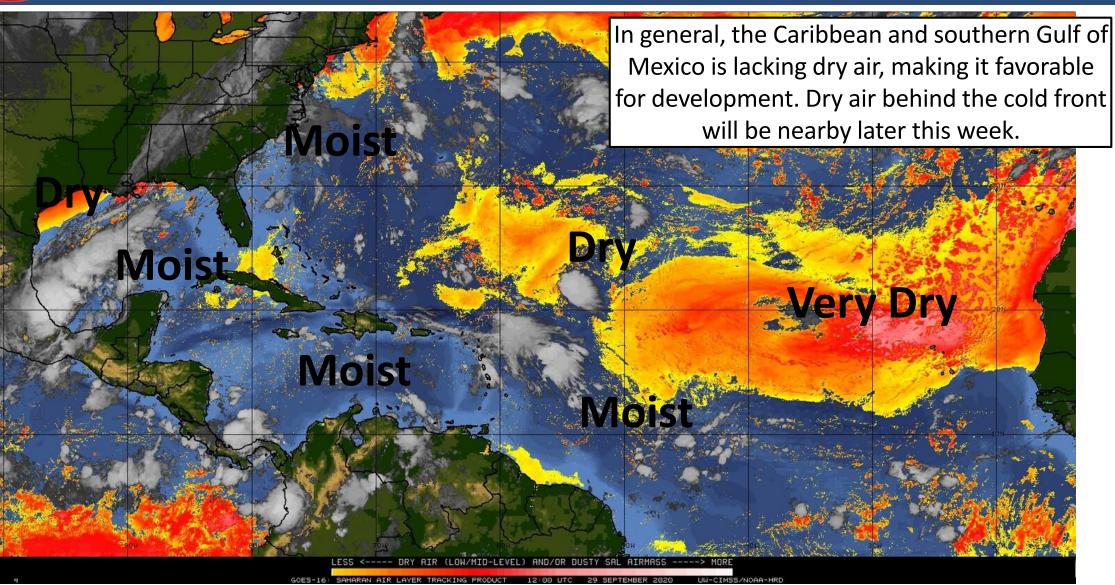




Dry Air & Saharan Dust

Is the environment favorable for the systems?

Color denotes concentration of Saharan Dust or dry, stable air.



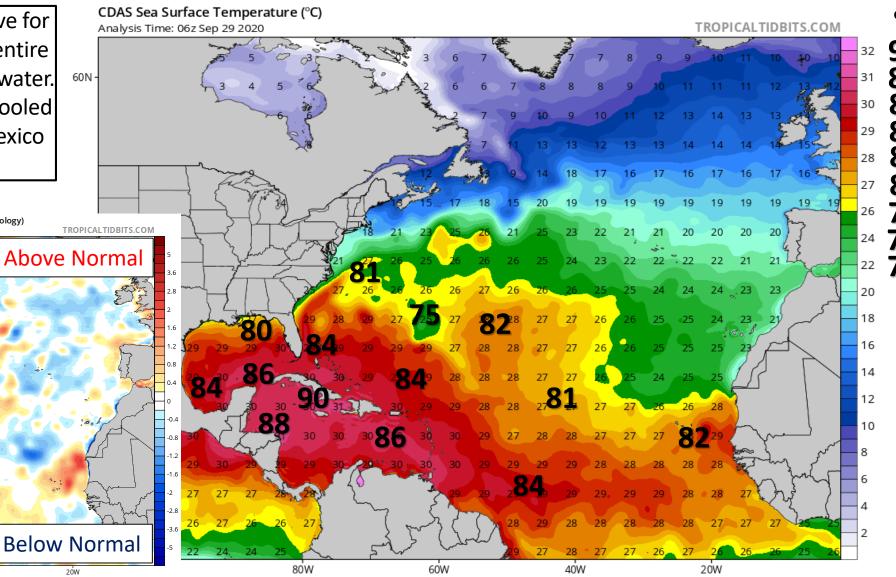


Sea Surface Temperatures & Anomalies

Is the ocean favorable for the system?

Water temperatures are supportive for tropical development across the entire Caribbean, with very warm, deep water. The recent stretch of storms has cooled waters in the northern Gulf of Mexico and near Bermuda.

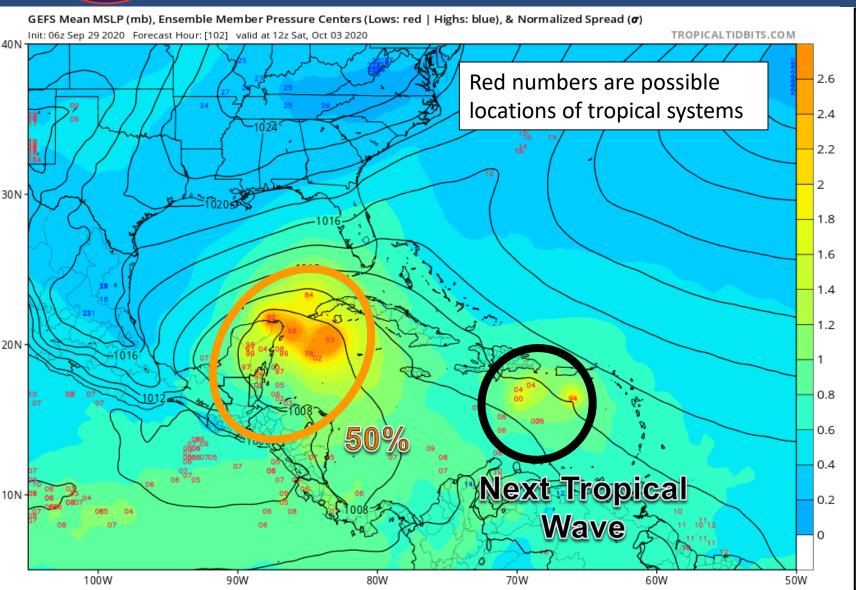
CDAS Sea Surface Temperature Anomaly (°C) (based on CFSR 1981-2010 Climatology)





Model Forecasts

Ensemble Models – Saturday Morning (Oct. 3)



Development is not expected over the next 48 hours, but could begin on Thursday near Jamaica or Friday/Saturday in the western Caribbean.

This weekend, *IF* something develops there is great uncertainty in the eventual track and intensity.

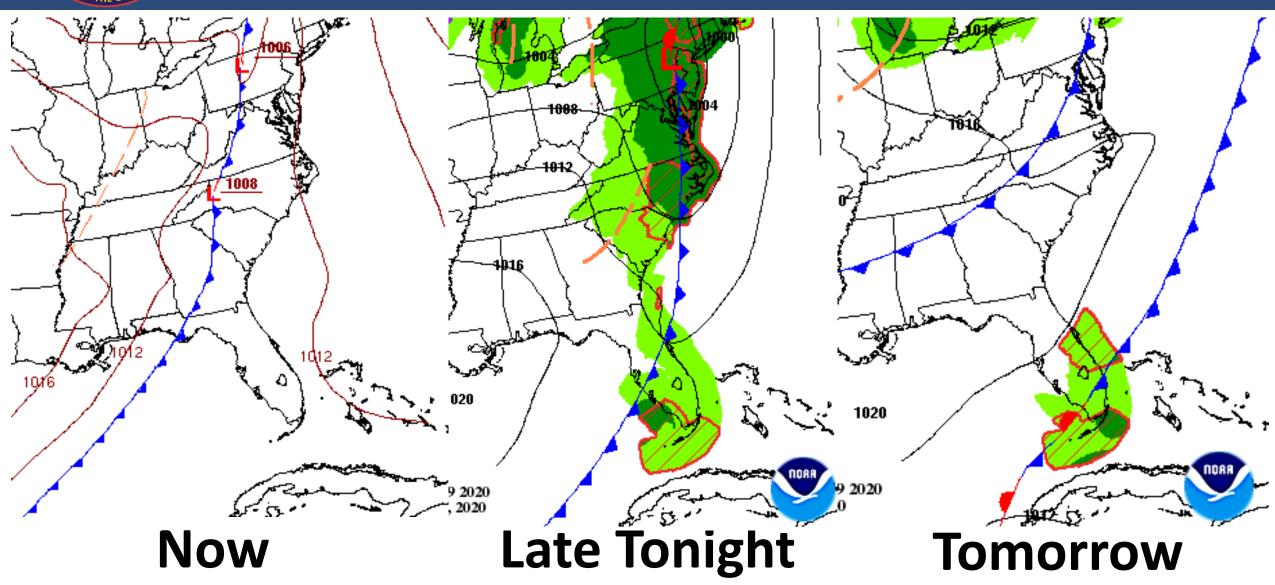
The most likely solution from the models this morning is a weaker system drifting to the west.

Climatology favors a northward track this time of year, *BUT* only a small handful of model solutions show this track happening at this time.

A stronger, faster developing storm would tend to move north.

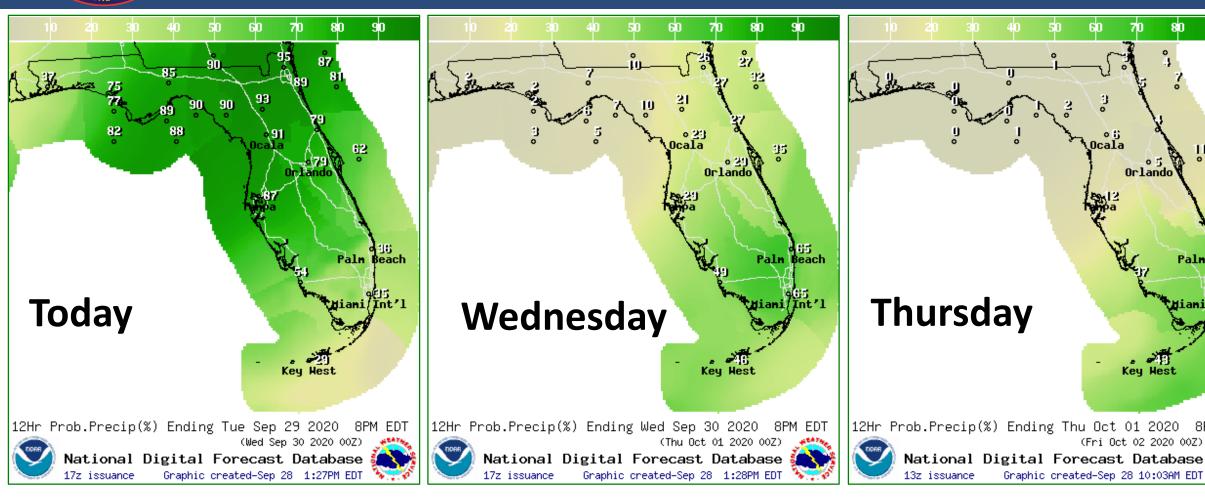


A Cold Front is Coming!





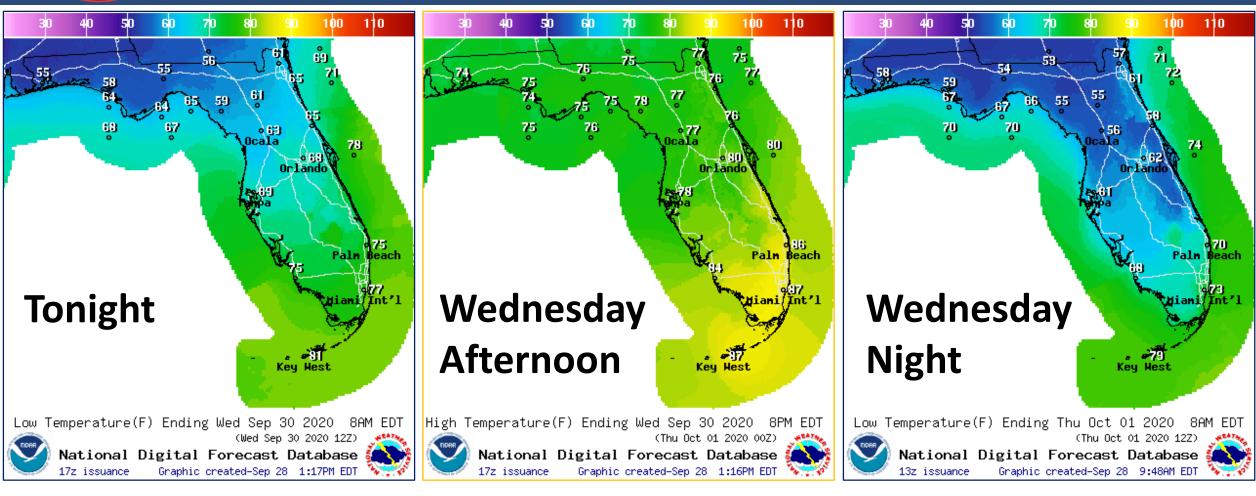
Forecast Rain Chances



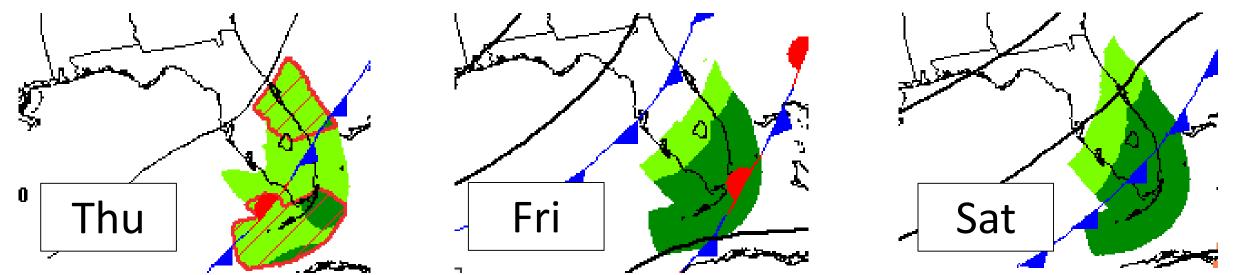
Numerous thunderstorms ahead of the front with rain chances continuing in South Florida later this week as the front stalls.



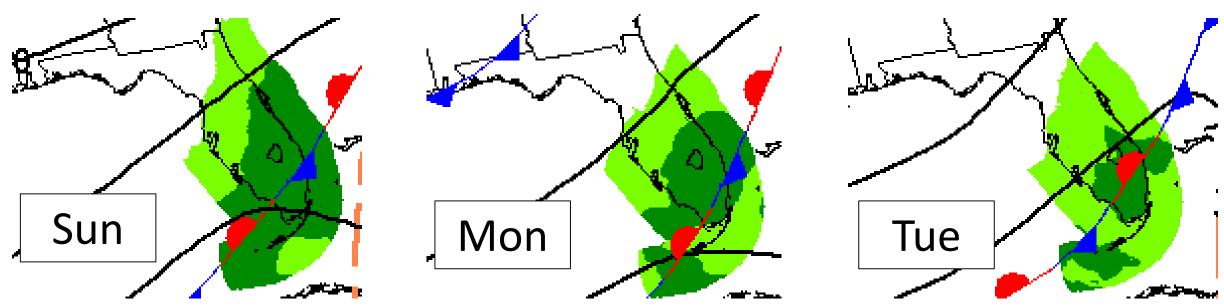
Forecast Temperatures



Low humidity will accompany the cooler temperatures. Near record lows in a few locations across North Florida.



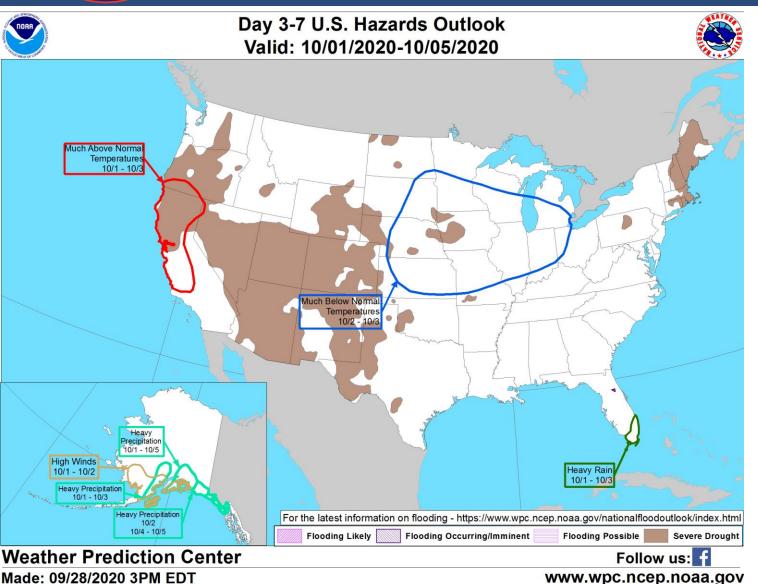
Front Remains Stalled Across South Florida Into Next Week With High Rain Chances Each Day





Hazard Outlook

From the Weather Prediction Center



Heavy rainfall is possible with the stalled front in South Florida from Thursday-Saturday.

www.wpc.ncep.noaa.gov



Flooding Possible Late Week/Weekend



What We Know:

- Periods of heavy rain likely late week into the weekend.
- Flooding risk may develop during this time.



What We Don't Know:

- How widespread or severe any possible flooding would be.
- Exact rain amounts, although totals may exceed 5 inches along the Atlantic coast.
- Impactful flooding is possible, so stay weather aware.



What You Can Do:

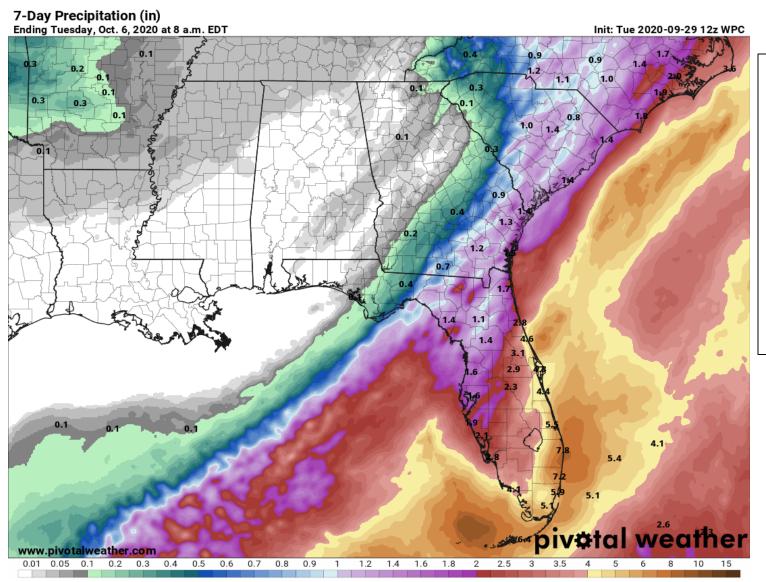
- Listen for forecast updates this week.
- Have a way to receive weather information. A NOAA weather radio is great for this!

Greater Risk Confidence **Impacts** La Belle Belle Glade W Palm Beach Immokalee Naples Fort Lauderdale **Everglades** City Miami Homestead Lesser Risk



Rainfall Totals Next 7 Days

UNRELATED TO THE TROPICS



- A widespread 1-3" expected today in Northeast Florida and the Peninsula.
- Locally higher amounts are possible, particularly in Northeast Florida today.
- Thursday-Saturday, heavy rainfall is expected in South Florida with a widespread 3-5" possible, locally 7-10".



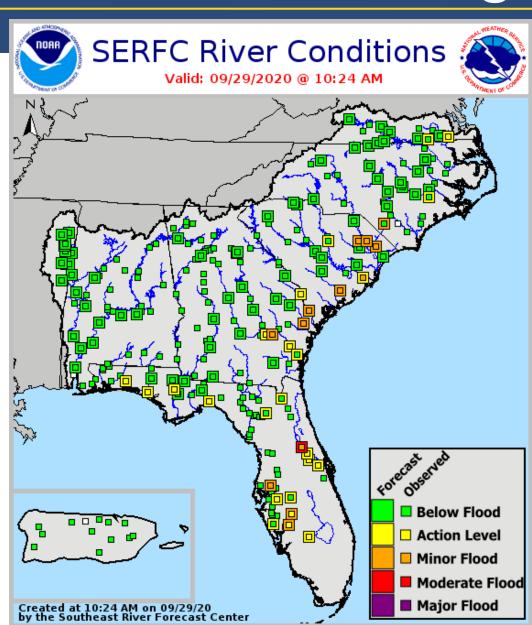
Current & Forecast River Flooding

Southeast River Forecast Center

Rivers Currently in or Forecast to Reach Flood Stage:

- Chipola River at Scott's Ferry- Minor
- St. Johns River at Astor Minor
- Haw Creek above Russell Landing- Minor
- Ocklawaha River at Rodman Dam- Minor
- Cypress Creek at Worthington Gardens- Minor
- Peace River at Zolfo Springs- Minor
- Peace River at Arcadia- Minor

More details on river levels available at the Southeast River Forecast Center website.





Overall Summary

Western Caribbean

- A tropical wave and stalled front may develop into a low pressure area in the western Caribbean later this week or this weekend. A Tropical Depression may form as early as Thursday, but more likely over the weekend.
- Conditions are forecast to be favorable for development in the western Caribbean by this weekend.
- This system has a near 0% (low) chance of formation over the next 48 hours, but a 50% (medium) chance in days 3-5 later this week.
- The next name on the list is Gamma.

Florida Outlook:

- This system poses no direct threat to Florida over the next 5 days, but will need to be monitored closely.
- Unrelated to the tropics, a strong cold front will bring numerous thunderstorms to the state today. Locally heavy rainfall is possible with an isolated flash flood or severe thunderstorm.
- Below normal temperatures are expected from mid-week into this weekend for North & Central Florida.
- The front will stall near South Florida and high rain chances will continue into this weekend, regardless of the tropics. South Florida will need to be monitored for a flood threat later in the week. 7-10" possible locally.

The next briefing packet will be issued Wednesday. For the latest information on the tropics, please visit the National Hurricane Center website at www.hurricanes.gov.



TROPICAL UPDATE



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