



TROPICAL UPDATE



5:00 PM EDT

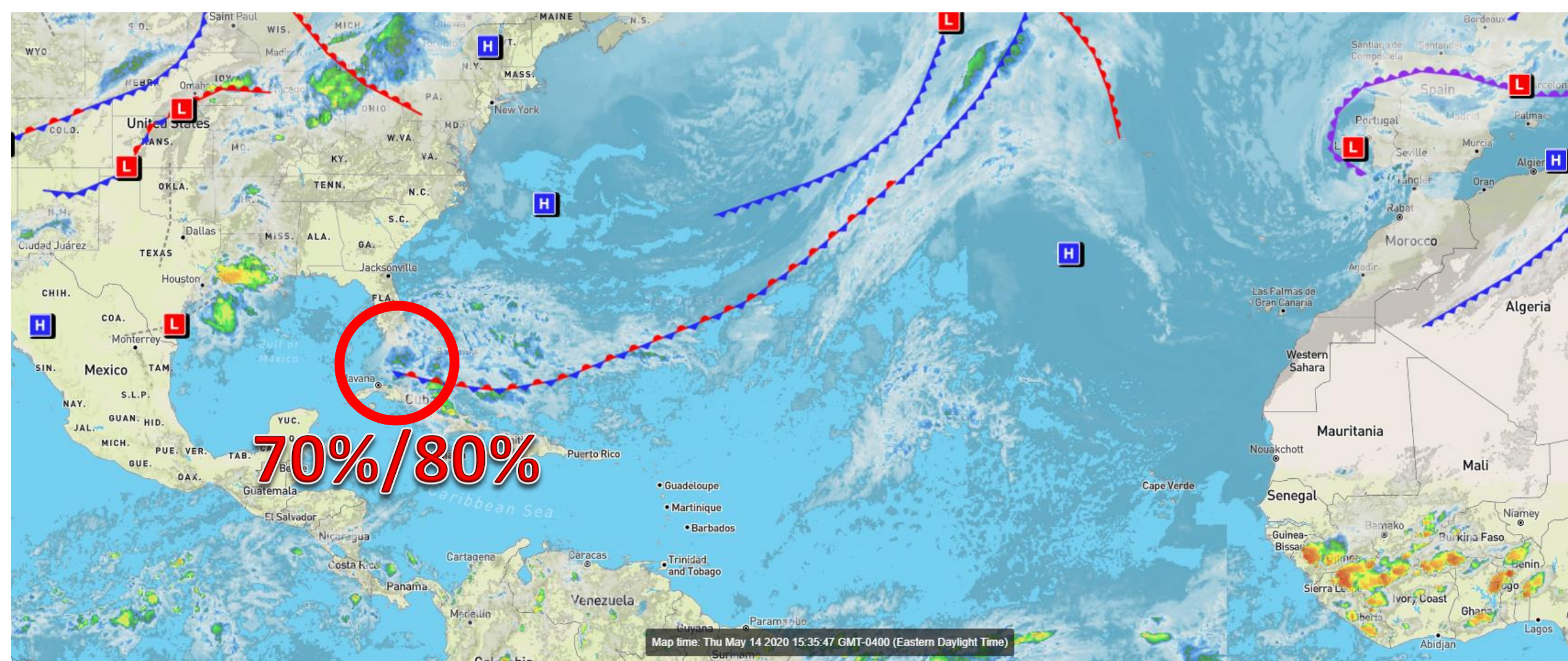
Thursday, May 14, 2020

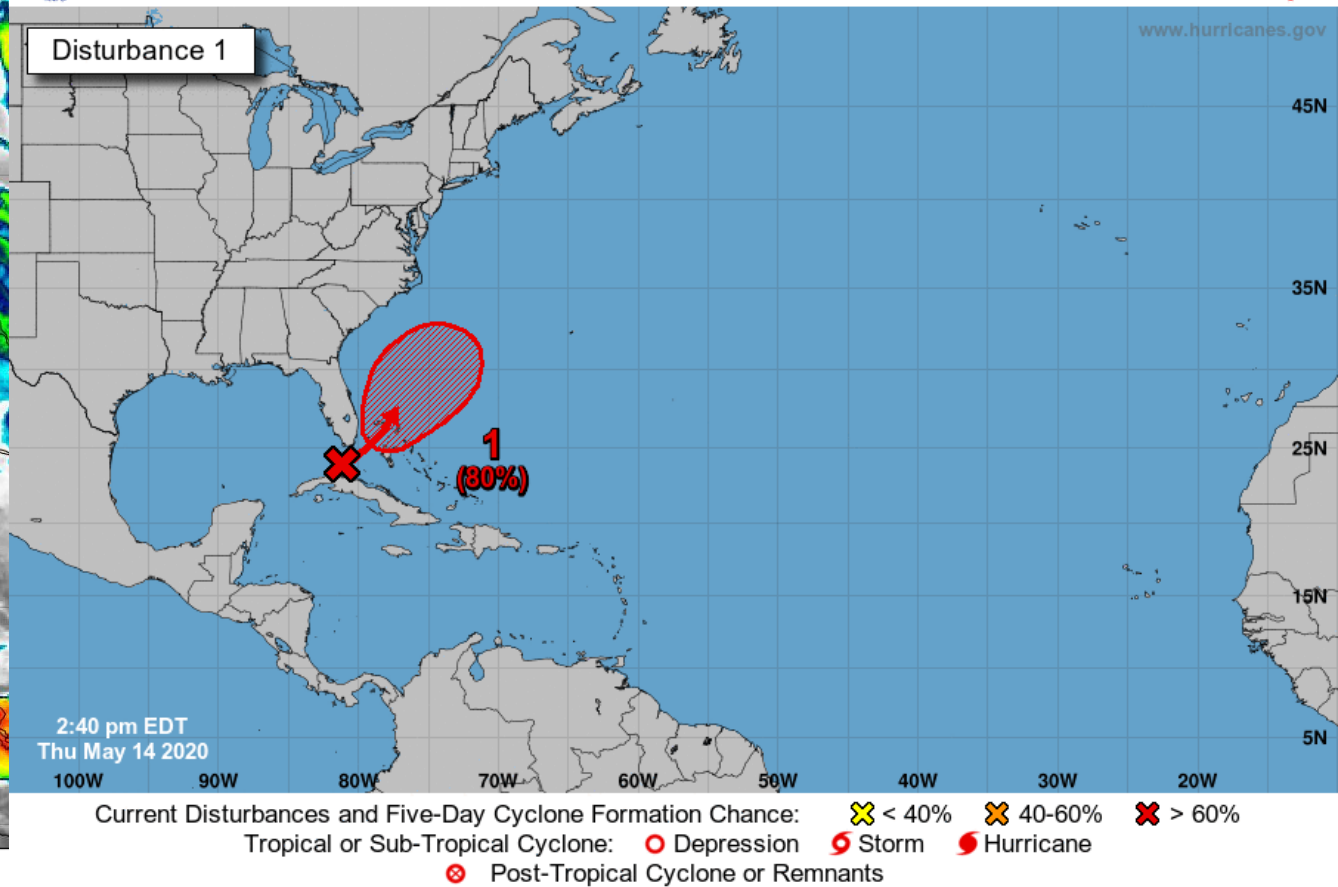
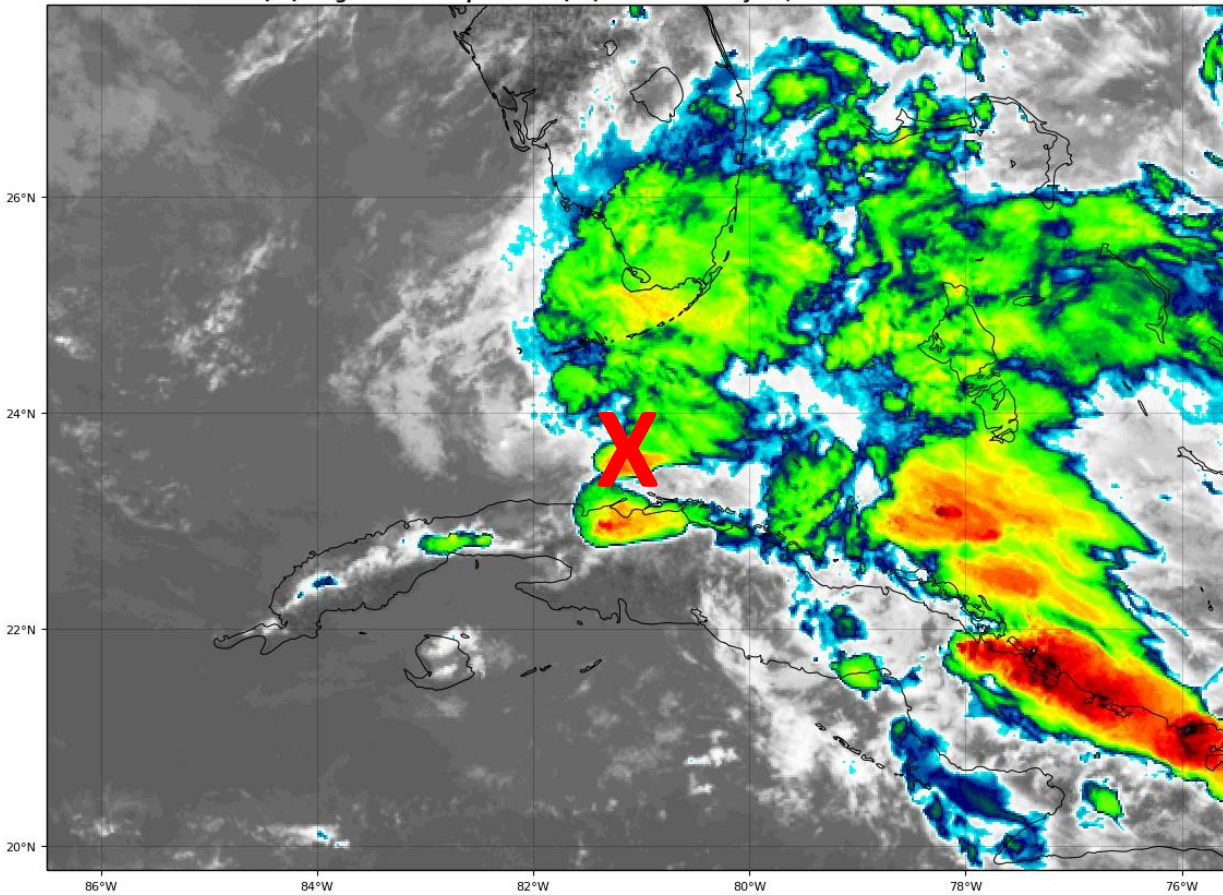
Invest 90L (80%)

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.hurricanes.gov.

Atlantic Basin Satellite Image

Chance of development: — None — Low — Medium — High





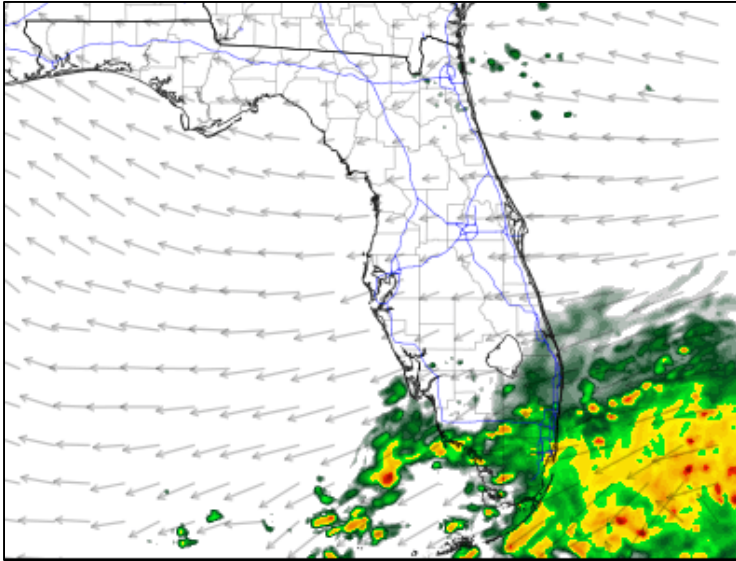
Invest 90L: A trough of low pressure over the Straits of Florida is producing a large area of cloudiness and thunderstorms. Environmental conditions are expected to become conducive for development, and this system is likely to become a tropical or subtropical storm by late Friday or Saturday when it is located near the northwestern Bahamas. The system is then forecast to move generally northeastward over the western Atlantic early next week. Regardless of development, the disturbance has the potential to bring heavy rainfall to portions of the Florida Keys, southeast Florida, and the Bahamas through Saturday. Tropical-storm-force wind gusts are also possible in the Florida Keys, southeast Florida, and the Bahamas during the next day or two. An Air Force Reserve Hurricane Hunter aircraft is scheduled to investigate this system tomorrow, if necessary. The next Special Tropical Weather Outlook on this system will be issued by 9 PM EDT today, or earlier, if necessary.

***Formation chance through 48 hours...high...70 percent.**

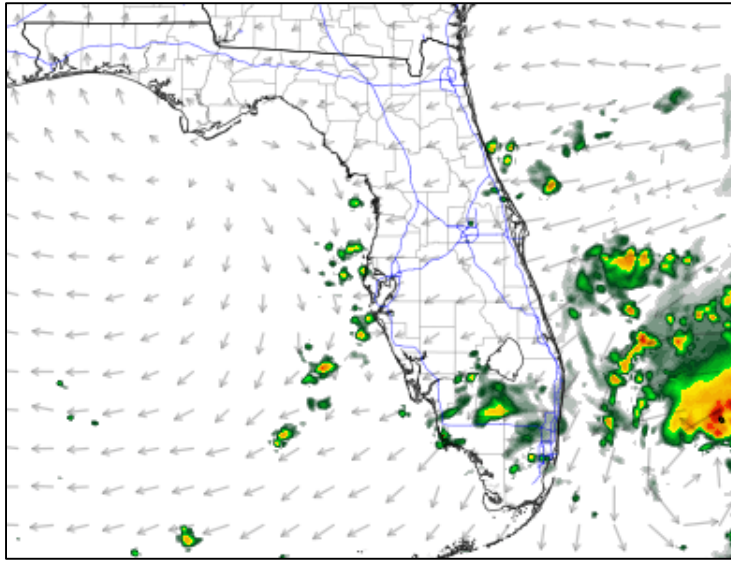
***Formation chance through 5 days...high...80 percent.**

Model Forecast Radar

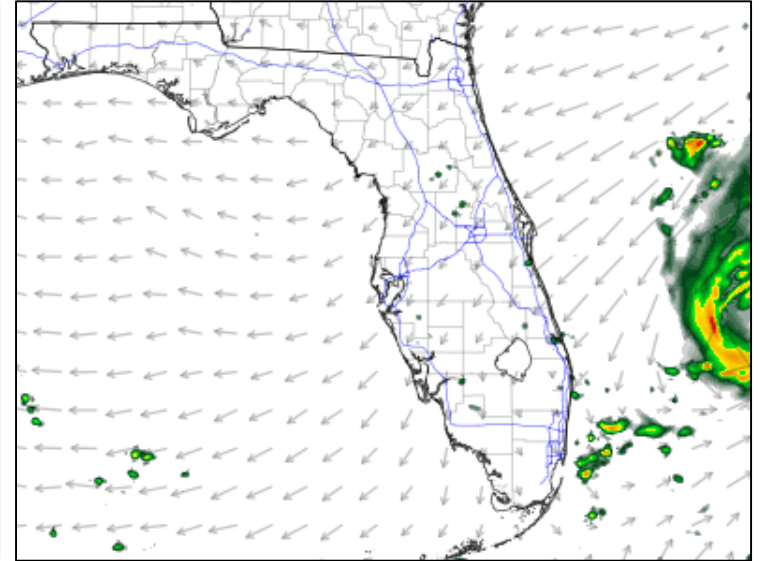
*****Only Model Guidance – Not an Actual Forecast. Time & Position Will Vary*****



Friday Morning



Friday Evening

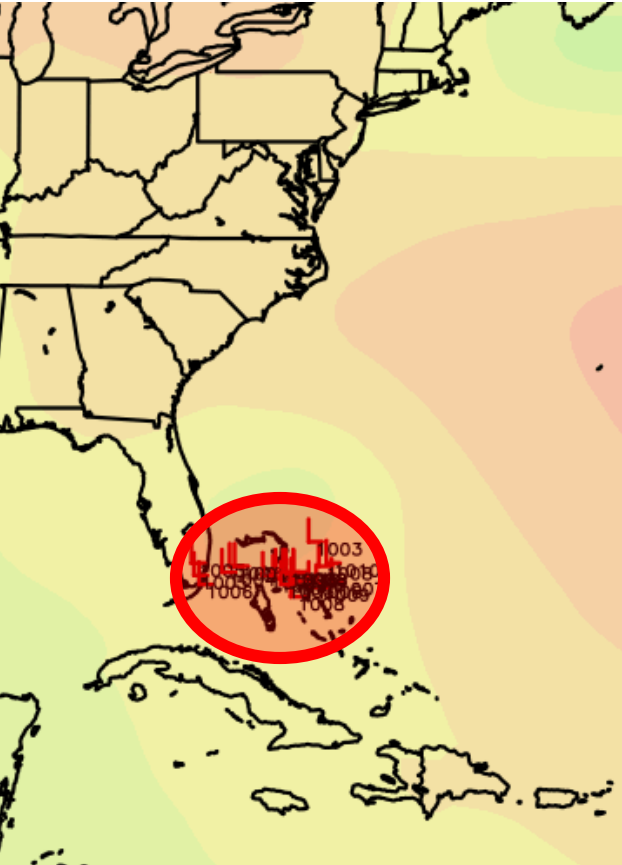


Saturday Morning

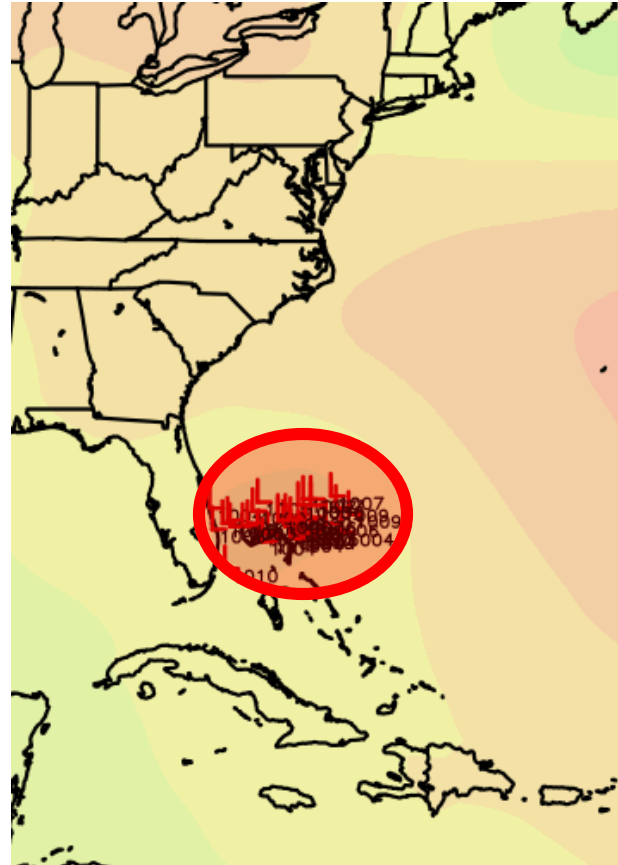
Regardless of how close the system tracks to the Southeast Florida coast, most of the rain and wind will be on the north and east side of the system. As the system passes to the east of the state, most of the rain will likely remain offshore. Gusty winds of 40-55 mph, frequent lightning, and waterspouts will be possible in the stronger storms.

Model Ensemble Track Guidance

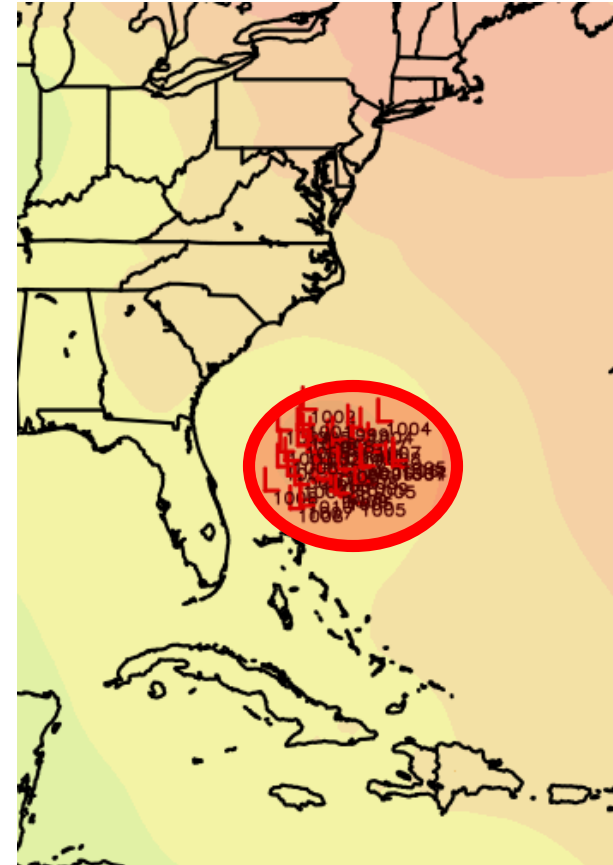
Fri. Afternoon



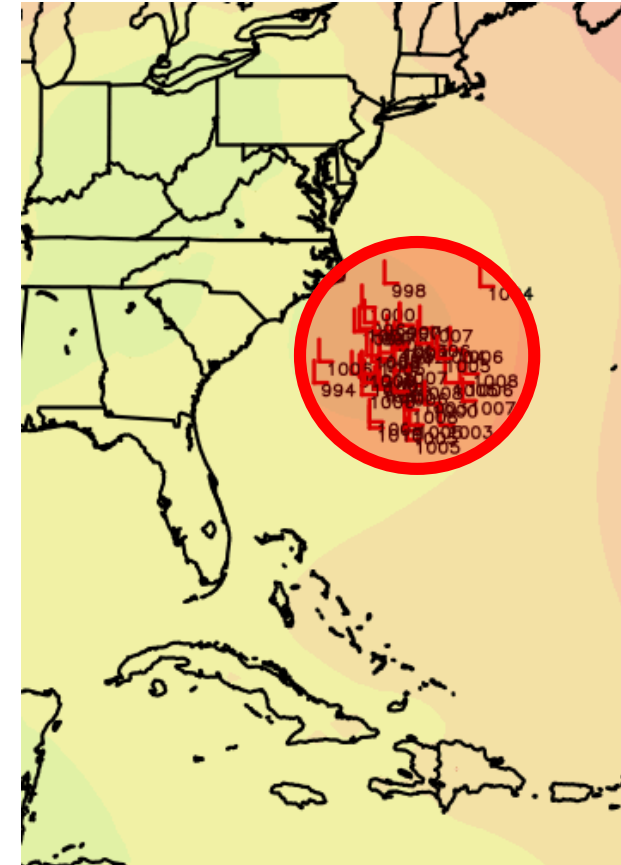
Sat. Morning



Sun. Morning



Mon. Morning



An area of low pressure will develop over the northwestern Bahamas on Friday or Saturday. The system (likely tropical/subtropical storm) will move northeastward over the western Atlantic between the US East Coast and Bermuda. Depending on its proximity to Florida, wind gusts up to tropical-storm-force may be possible along coastal Southeast Florida and in the Keys, mainly in stronger thunderstorms.

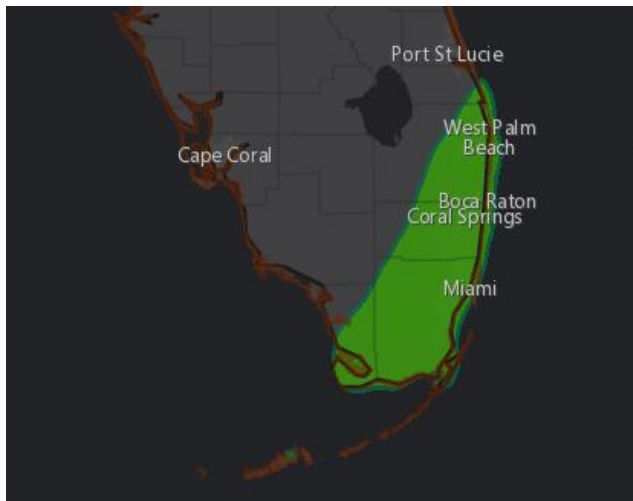
Locally heavy rainfall is possible over the next couple days, with the greatest chance of heavy rain in Southeast Florida and the Keys. There is a Marginal Risk of flash flooding for South Florida tonight and Friday.

Significant, wetting rainfall is not expected across North Florida for the next 7 days.

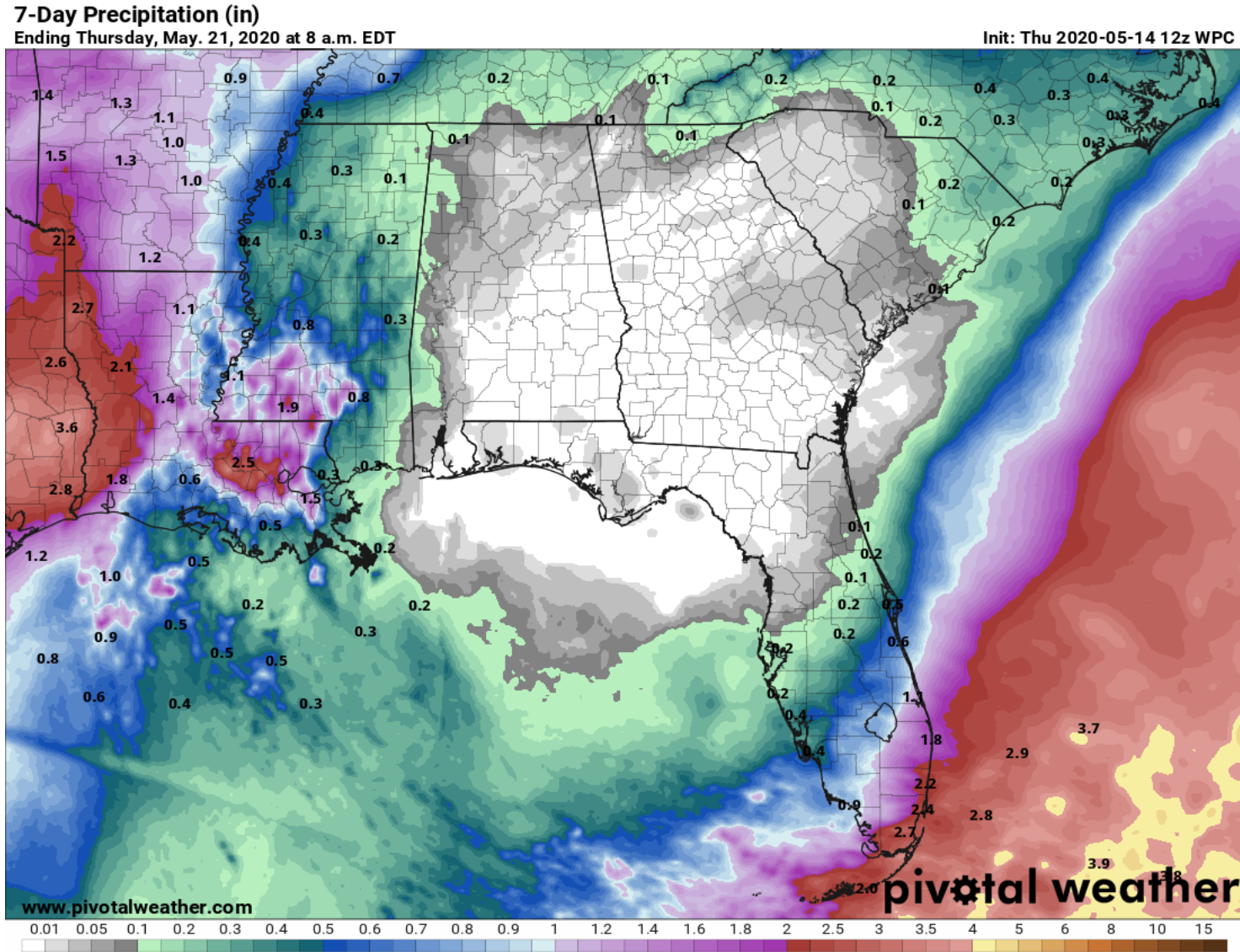
MARGINAL (MRGL)

Isolated flash
floods possible

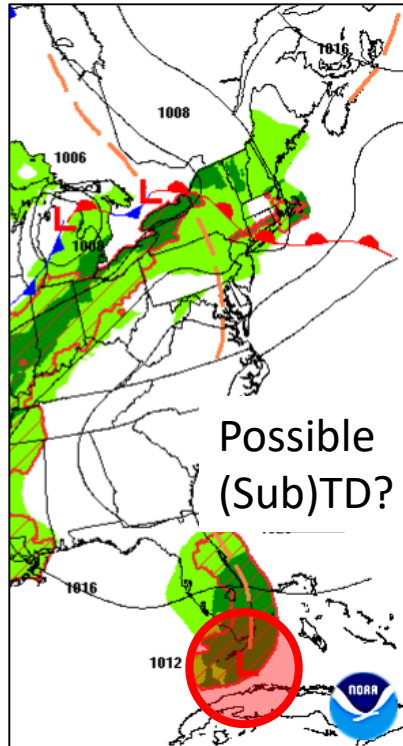
Localized and
primarily affecting
places that can
experience rapid
runoff with heavy
rainfall.



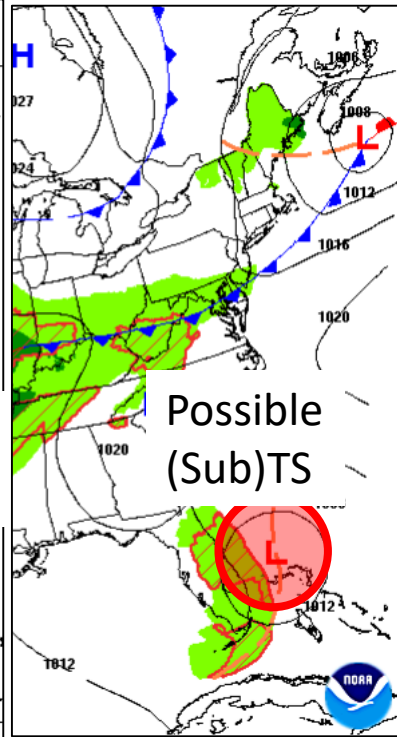
Forecast Rainfall Totals Next 7 Days



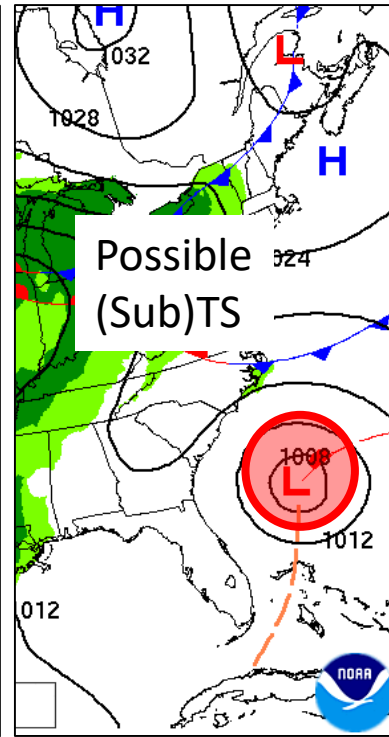
Stalled Front Keeps Elevated Rain Chances Across South Florida & Keys This Weekend



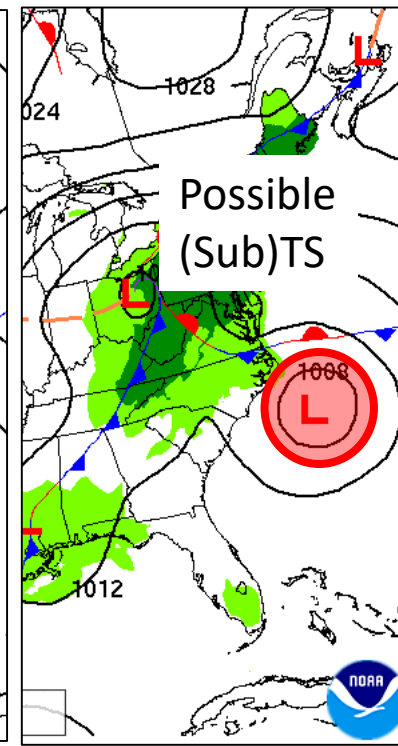
Friday



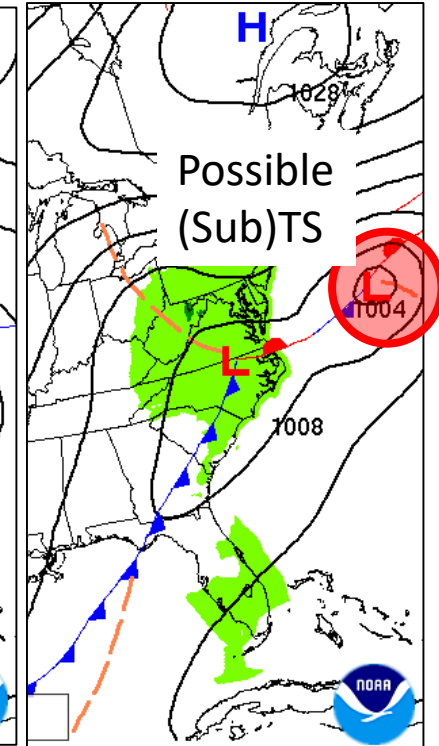
Saturday



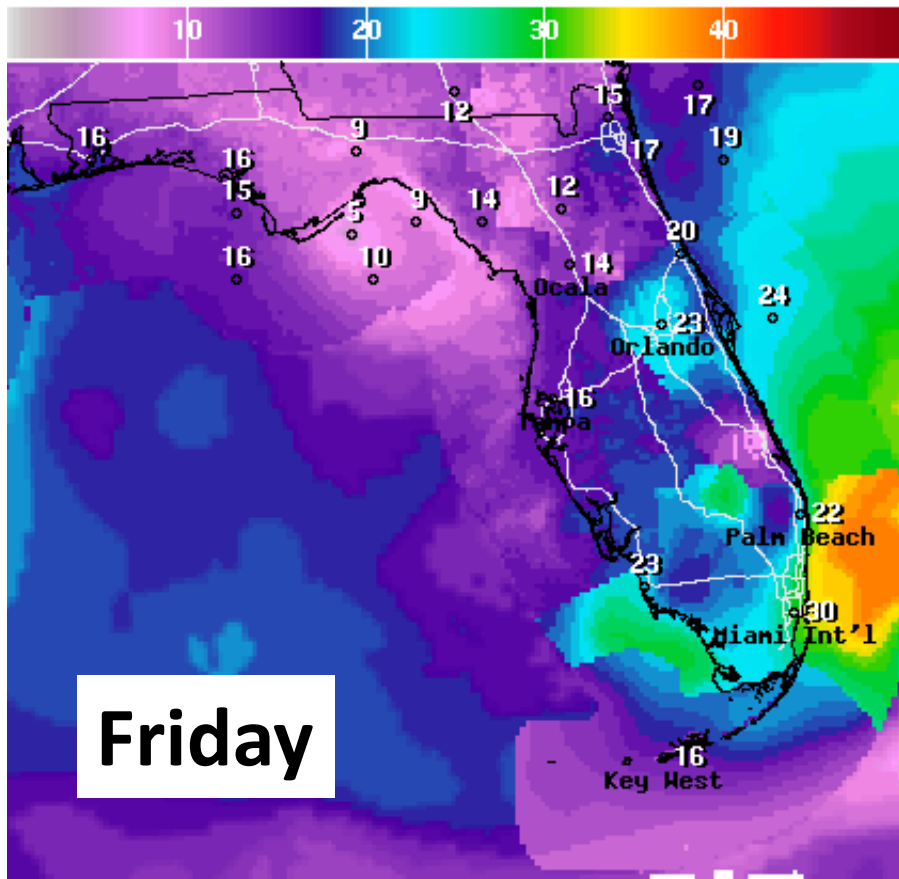
Sunday



Monday



Tuesday



Wind Gust(Kts) Fri May 15 2020 5PM EDT

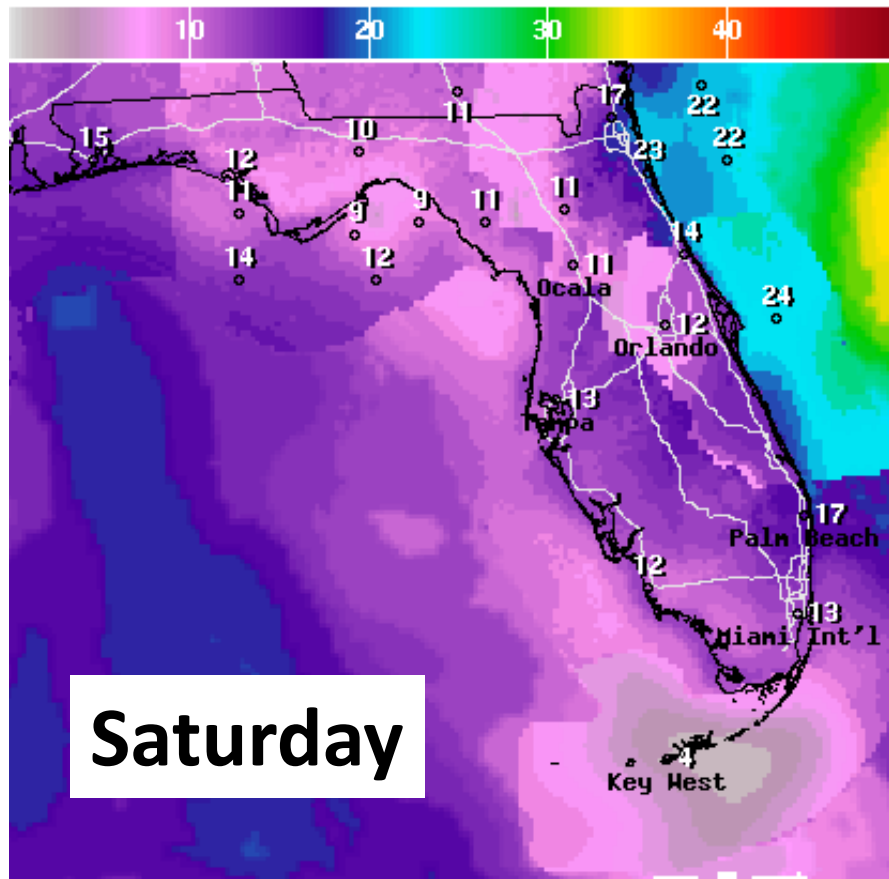
(Fri May 15 2020 21Z)



National Digital Forecast Database

19z issuance

Graphic created-May 14 3:52PM EDT



Wind Gust(Kts) Sat May 16 2020 2PM EDT

(Sat May 16 2020 18Z)



National Digital Forecast Database

19z issuance

Graphic created-May 14 3:53PM EDT



Wind Gusts Friday & Saturday

Gusty winds are also possible outside of the showers and storms. Wind gusts of 25-35 mph are possible in the Peninsula. Gusts up to 40 mph are possible in spots, particularly in coastal Southeast Florida. Higher wind gusts are also possible in any of the stronger thunderstorms.

Summary

Invest 90L (Bahama Low)

- An area of low pressure is beginning to develop in the Florida Straits which will move into the northwestern Bahamas late Friday or Saturday.
- This disturbance could become organized tomorrow and into Saturday, which could become a subtropical or tropical storm.
- The system is expected to move northeast around an area of high pressure, heading away from the state of Florida.
- Air Force Reserve Hurricane Hunters are scheduled to investigate the system on Friday, if necessary.
- The National Hurricane Center gives this system a 70% (high) chance of formation during the next 48 hours and an 80% (high) chance of formation during days 2-5.
- If this system were to attain tropical storm intensity, the first name on the list is Arthur.

Florida Outlook:

- Locally heavy rainfall and gusts possibly to tropical storm force will be possible in the Florida Keys and coastal Southeast Florida.
- Widespread rainfall totals of 2-4" are expected across Southeast Florida and the Florida Keys. Localized totals could be 4-6". Some parts of the Keys have already seen more than 4" of rain today.
- A Marginal Risk for flash flooding continues through tomorrow across Southeast Florida and the Keys, but antecedent drought should preclude any widespread flooding. Minor street flooding in urban areas is the main concern.
- Gusty winds of 40-55 mph, frequent lightning, and waterspouts are also possible in the stronger showers and storms.
- Windy conditions are possible outside of thunderstorms—gusts of 25-40 mph possible in the Peninsula.
- The rip current risk will likely remain high at Atlantic beaches into this weekend.

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



TROPICAL UPDATE



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State Meteorological Support Unit

Florida Division of Emergency Management

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