TROPICAL UPDATE

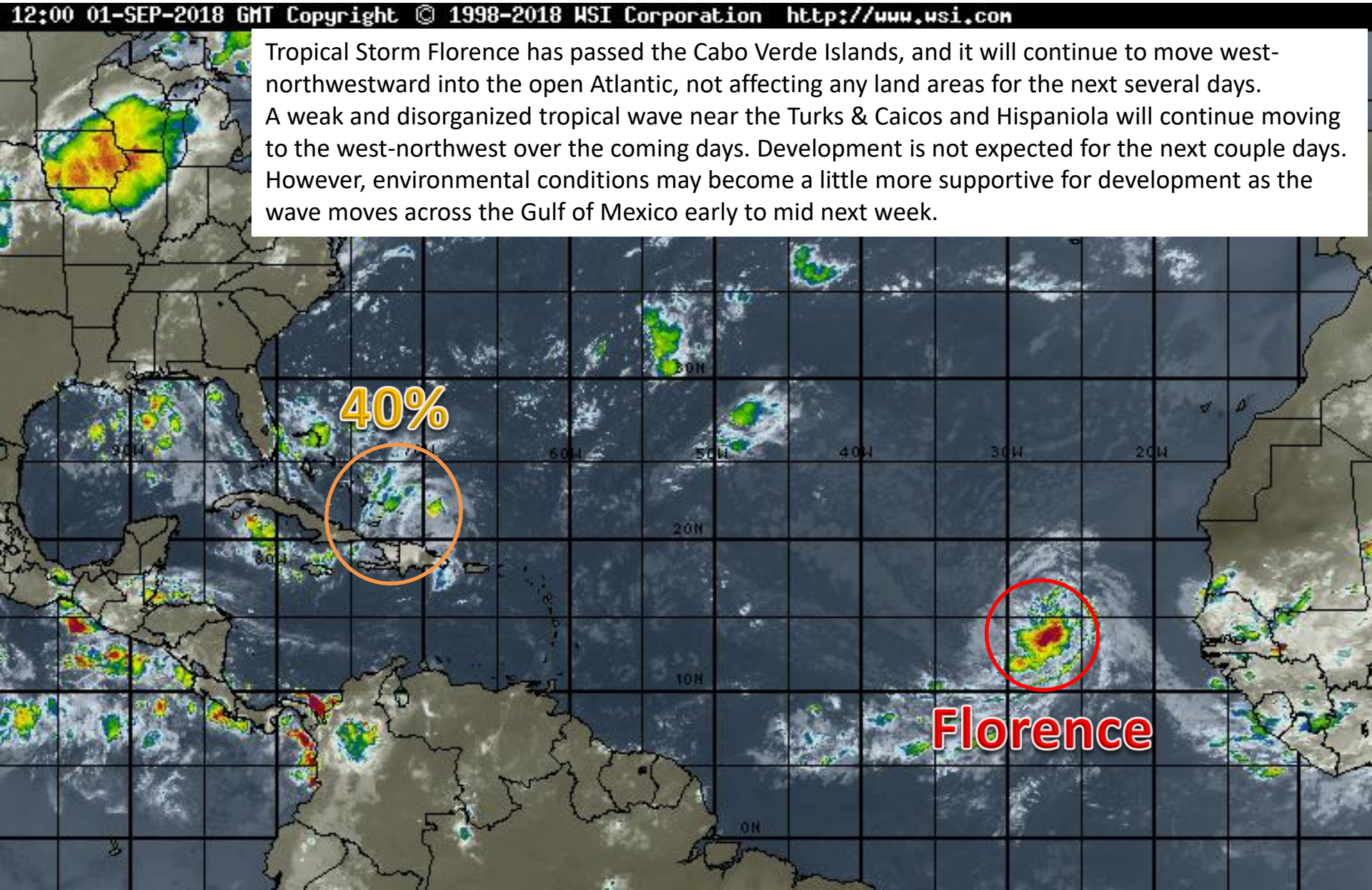
12 PM EDT

Saturday, September 1, 2018

Tropical Storm Florence, Caribbean Tropical Wave (40%)

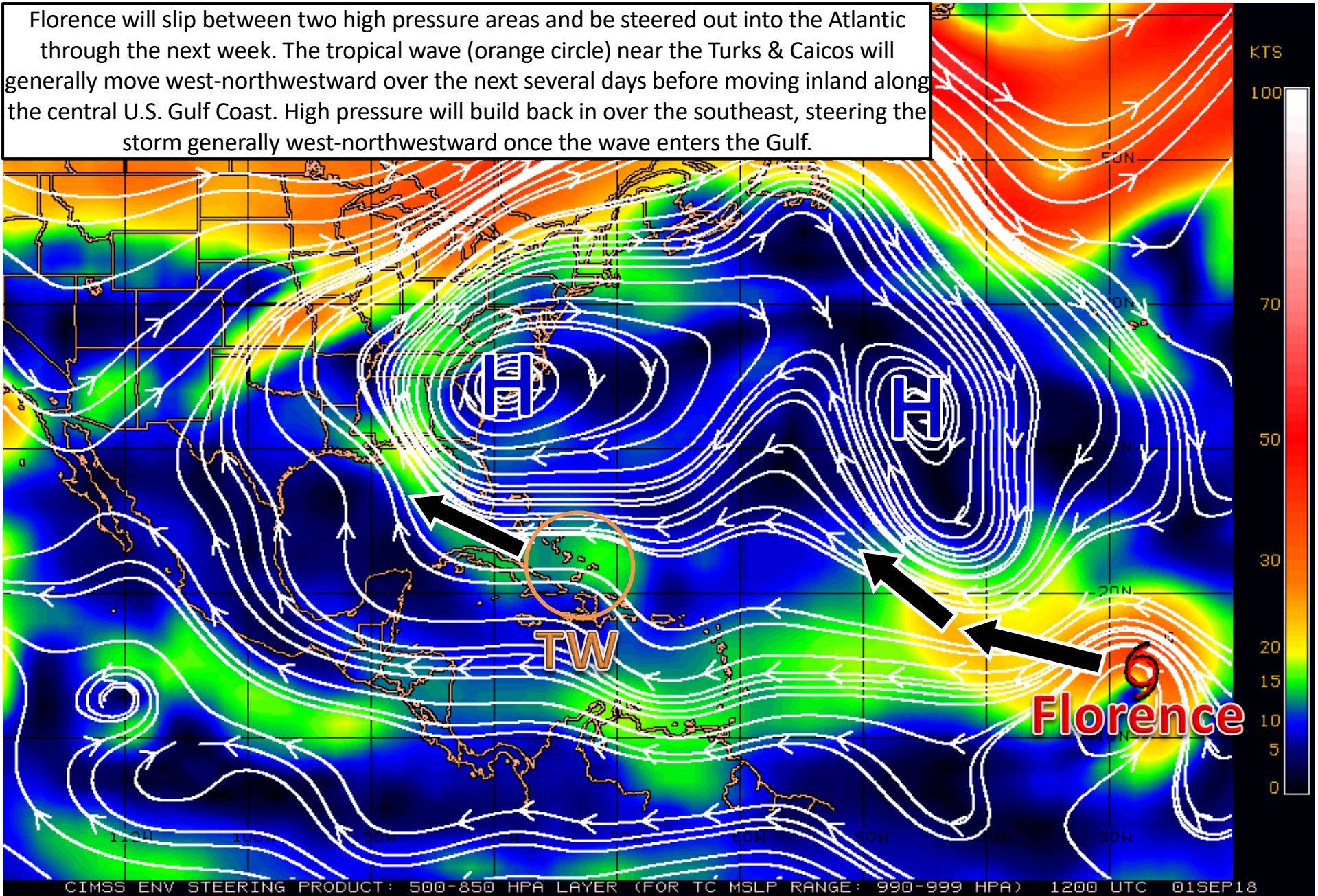
This update is intended for government and emergency response officials, and is provided for informational and situational awareness purposes only. Forecast conditions are subject to change based on a variety of environmental factors. For additional information, or for any life safety concerns with an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



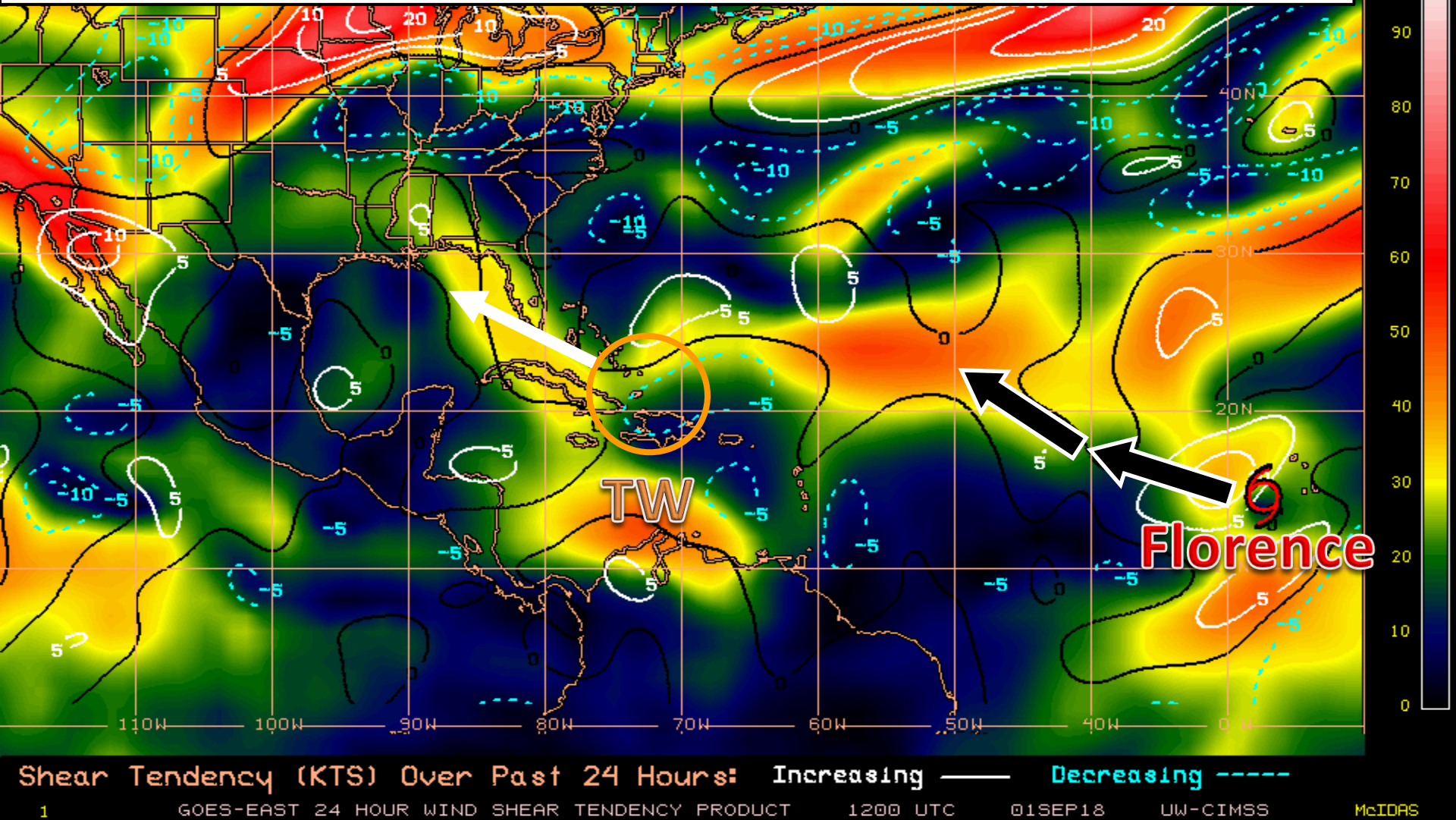
Steering Currents

Florence will slip between two high pressure areas and be steered out into the Atlantic through the next week. The tropical wave (orange circle) near the Turks & Caicos will generally move west-northwestward over the next several days before moving inland along the central U.S. Gulf Coast. High pressure will build back in over the southeast, steering the storm generally west-northwestward once the wave enters the Gulf.

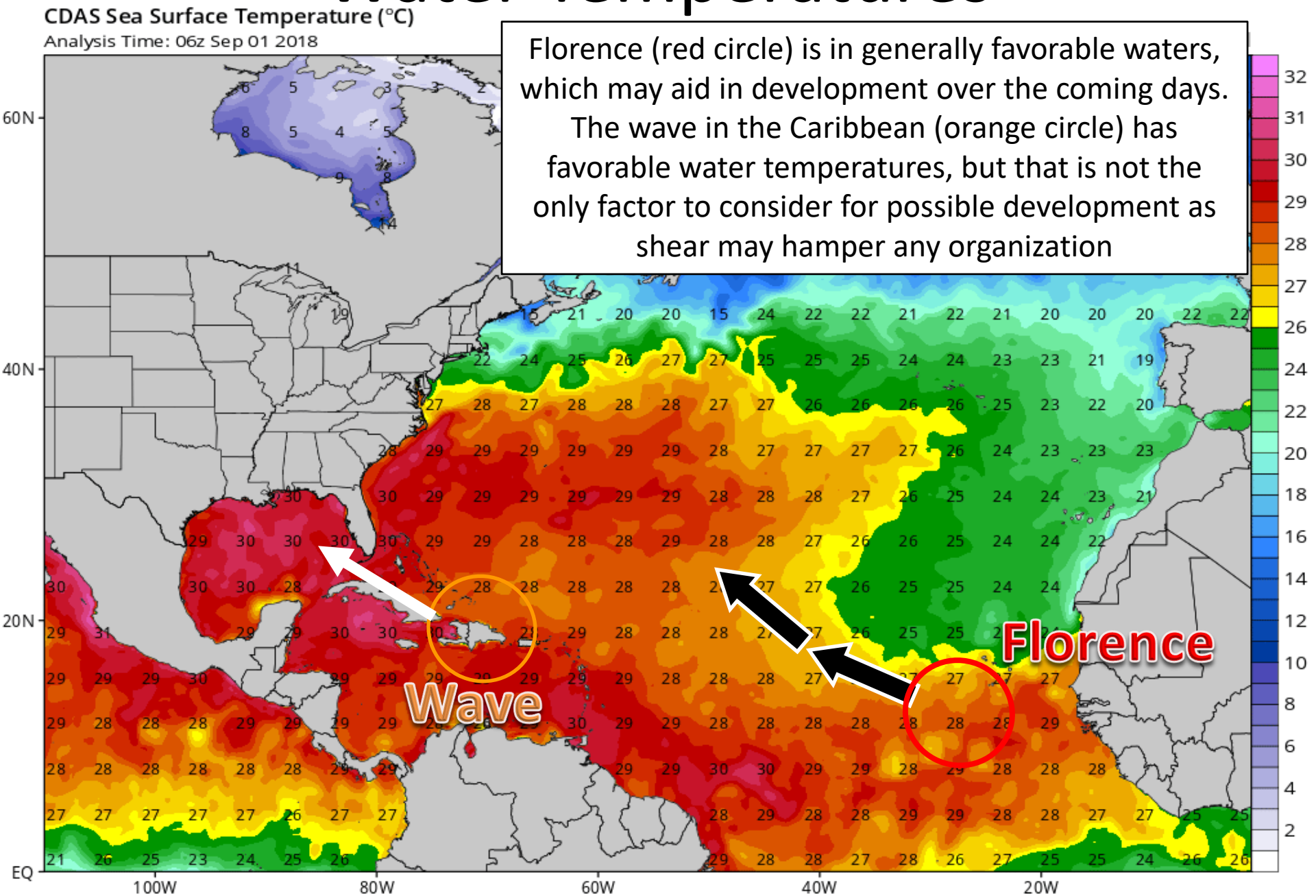


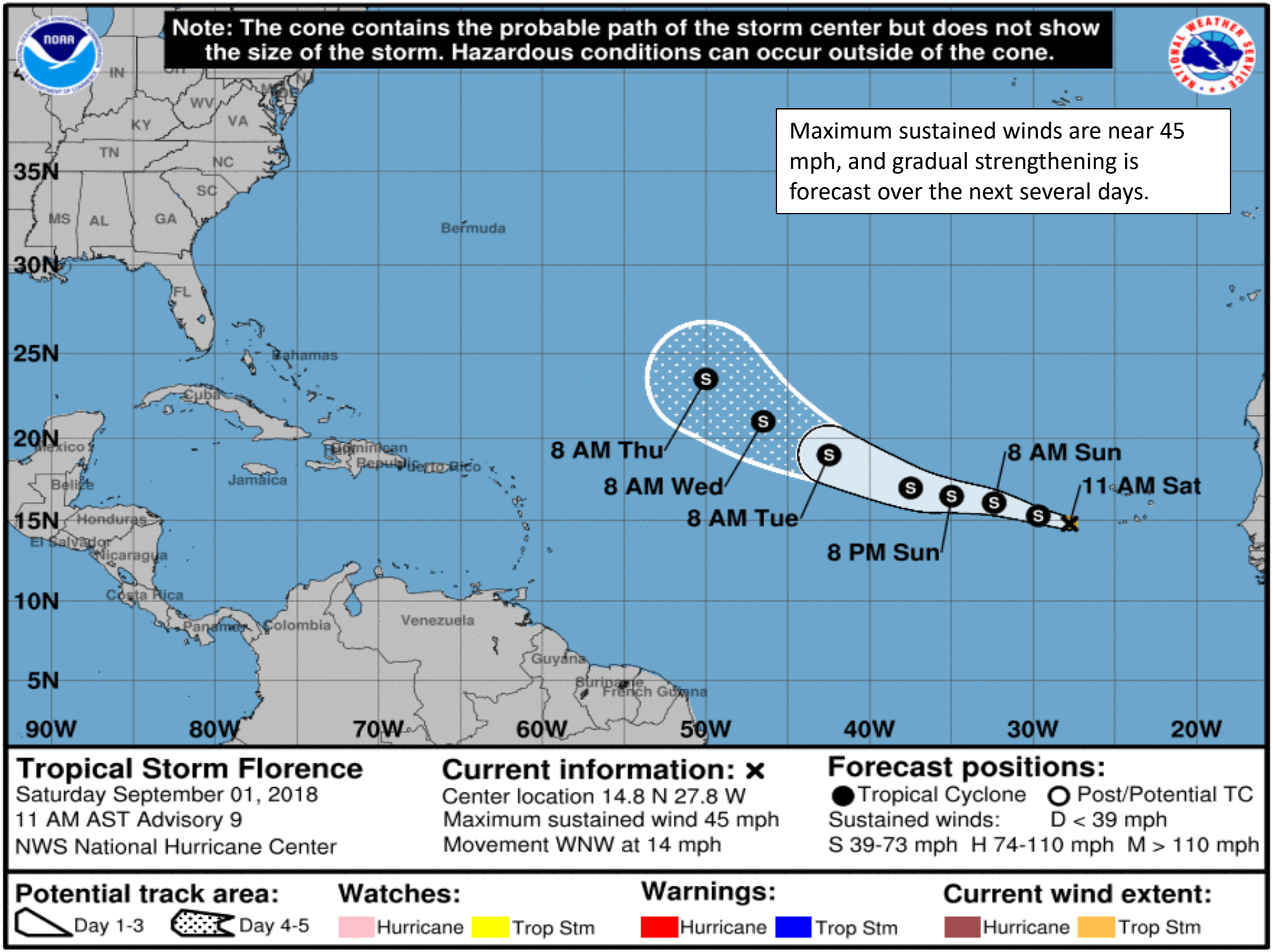
Wind Shear (shaded) and Wind Shear Tendencies (contoured)

Florence is battling some shear right now, and intensification is forecast to be gradual as it moves into the open Atlantic. The tropical wave near the Turks & Caicos (orange circle) is battling shear right now, and will continue to endure somewhat unfavorable shear conditions through the next few days until it reaches the eastern or central Gulf of Mexico.



Water Temperatures





Tropical Storm Florence

Saturday September 01, 2018
11 AM AST Advisory 9
NWS National Hurricane Center

Current information:

Center location 14.8 N 27.8 W
Maximum sustained wind 45 mph
Movement WNW at 14 mph

Forecast positions:

● Tropical Cyclone ○ Post/Potential TC
Sustained winds: D < 39 mph
S 39-73 mph H 74-110 mph M > 110 mph

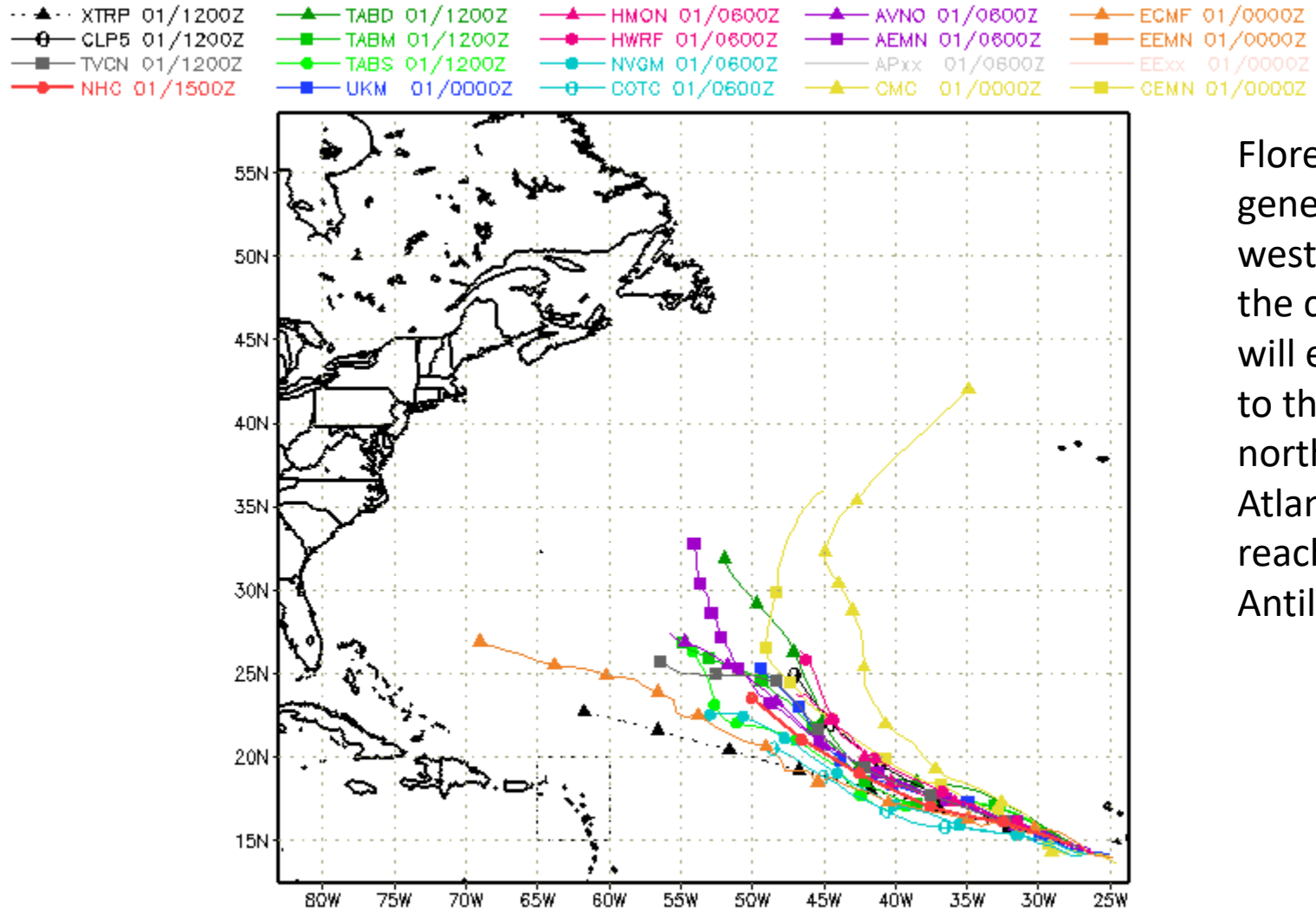
Potential track area: Day 1-3, Day 4-5

Watches: Hurricane, Trop Stm

Warnings: Hurricane, Trop Stm

Current wind extent: Hurricane, Trop Stm

Spaghetti Models (Florence)

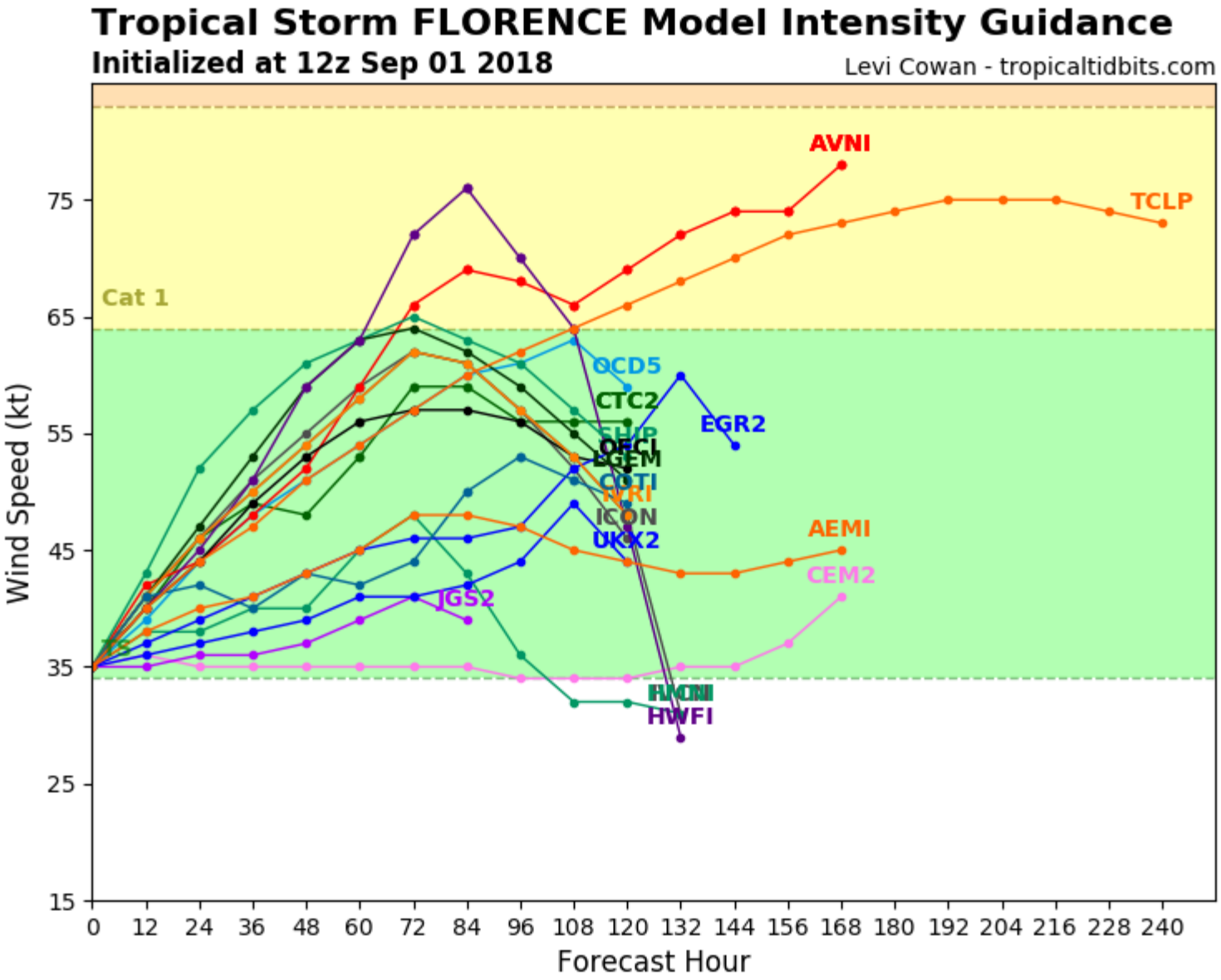


Florence will move generally west or west-northwest over the coming days. It will eventually curve to the northwest and north in the central Atlantic, well before reaching the Lesser Antilles.

storm_06
sfwmd.gov
weather@sfwmd.gov
01-Sep 10:51EDT

NHC Advisories and County Emergency Management Statements supersede this product.
This graphic should complement, not replace, NHC discussions.
If anything on this graphic causes confusion, ignore the entire product.
For full info, see http://my.sfwmd.gov/sfwmd/common/images/weather/plots.html

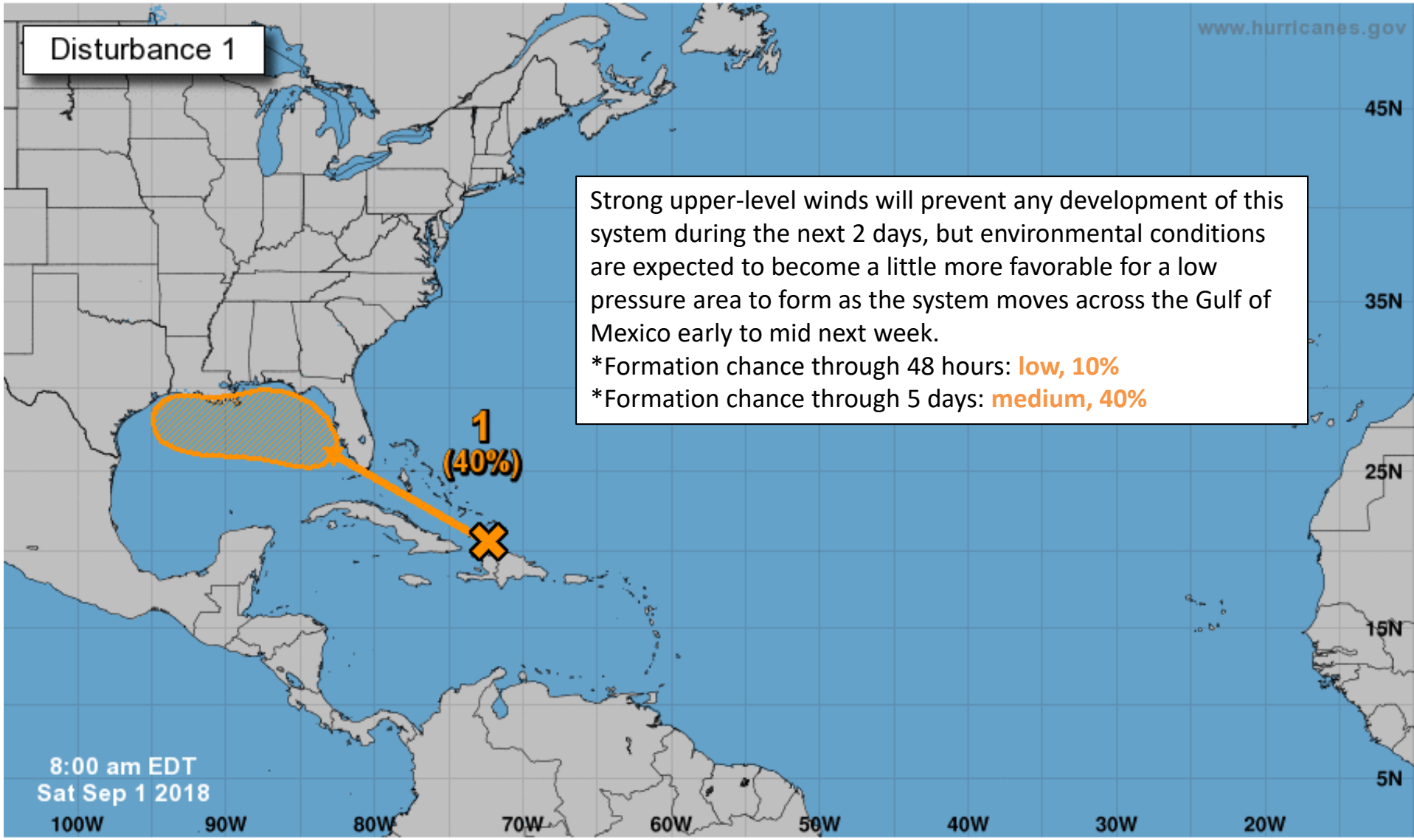
Intensity Models (Florence)



As Florence moves away from the Cabo Verde Islands, gradual strengthening is expected. Florence may approach hurricane strength in about 3-4 days, but models show some weakening in about 4-5 days as it encounters unfavorable conditions.

Five-Day Graphical Tropical Weather Outlook

National Hurricane Center Miami, Florida

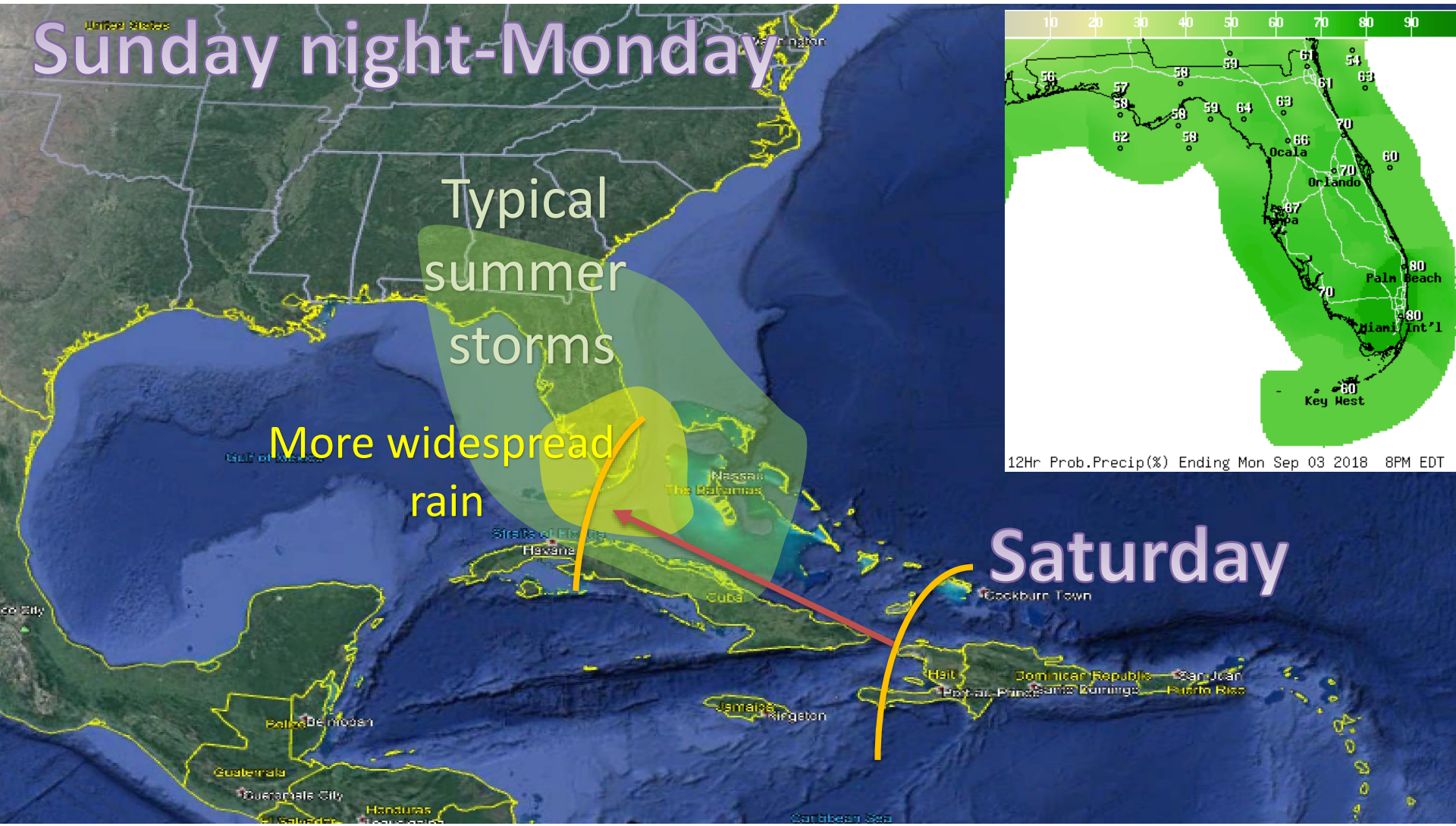


Current Disturbances and Five-Day Cyclone Formation Chance: < 40% 40-60% > 60%

Tropical or Sub-Tropical Cyclone: Depression Storm Hurricane

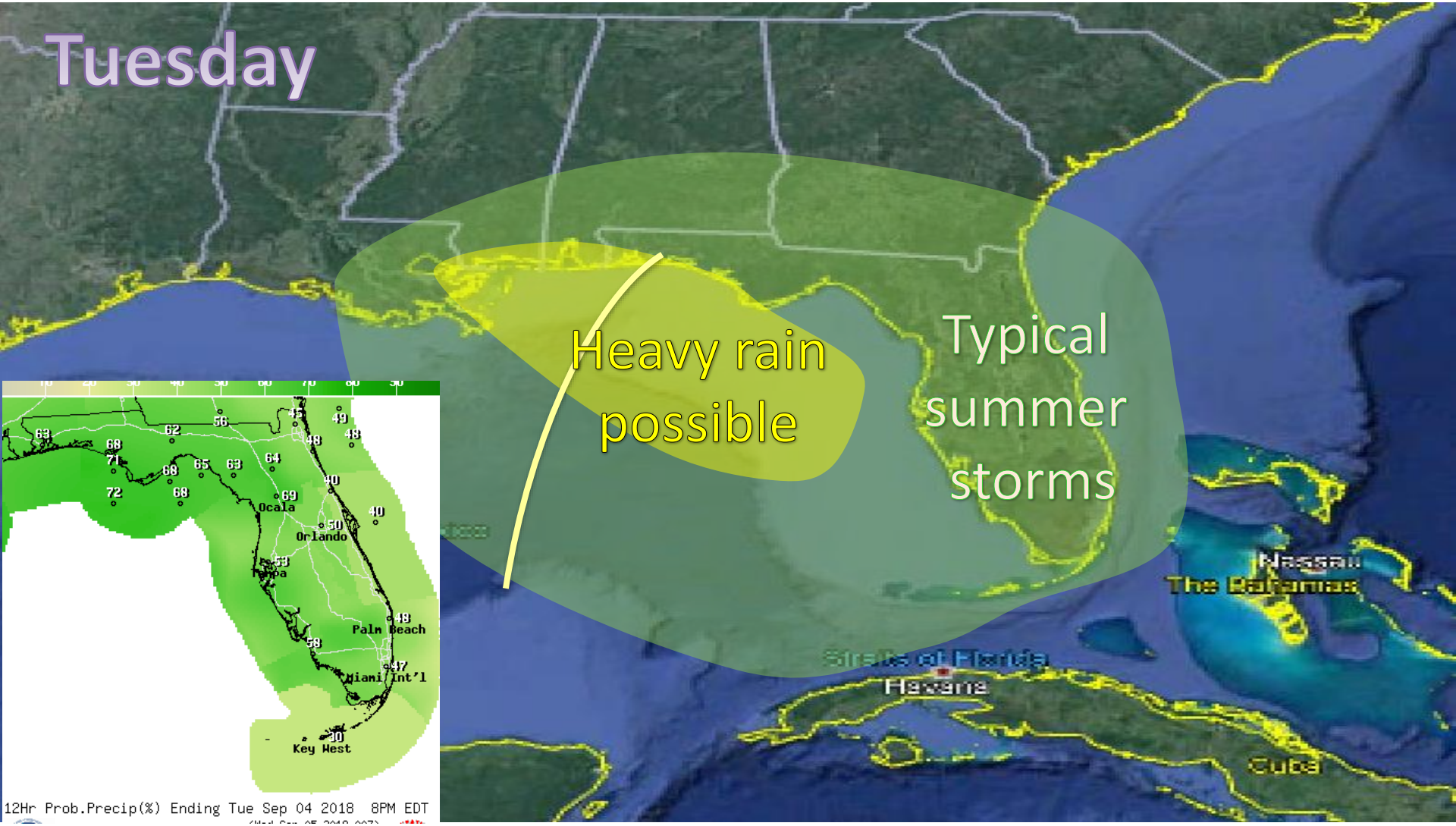
Post-Tropical Cyclone or Remnants

Timing and Potential Impacts



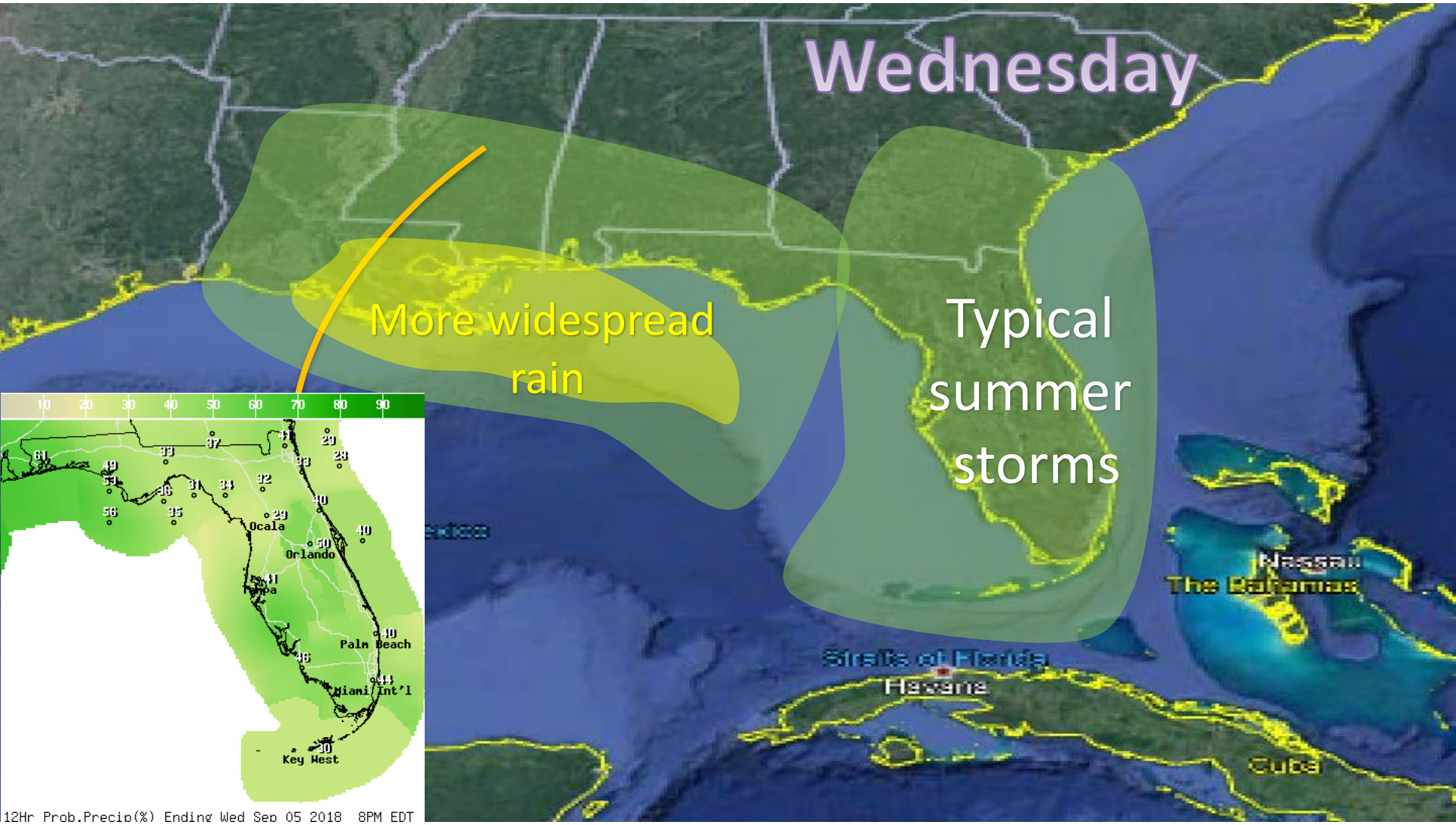
Increased rain chances and the potential for heavy rain across South Florida may begin Sunday night and will last through Labor Day into Tuesday morning. Typical summertime storms, some of which could produce brief heavy rain, are expected across North and Central Florida.

Timing and Potential Impacts

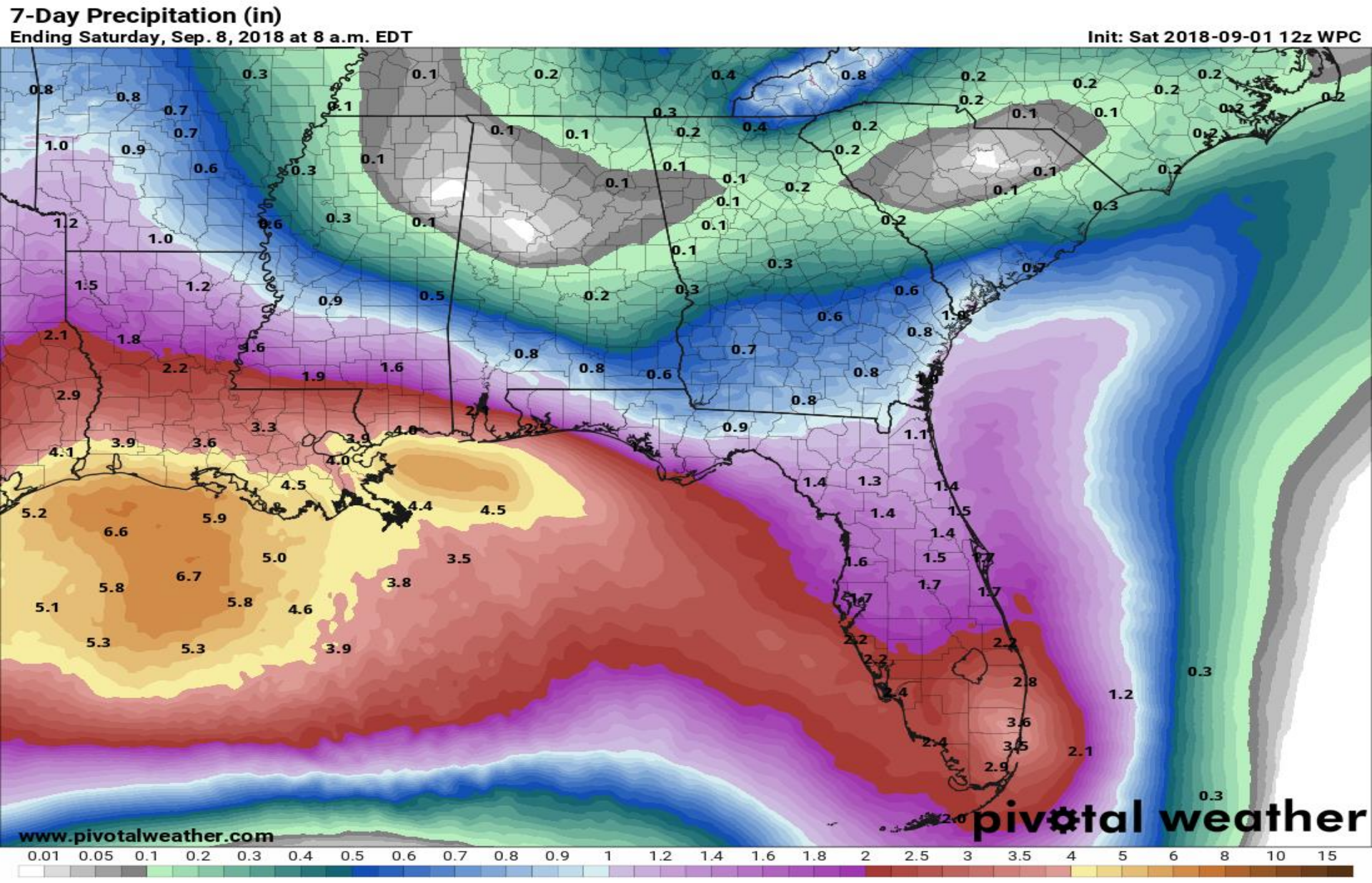


The models have come into slightly better agreement on the timing and position of the tropical wave. It will likely pass south of the Panhandle during the day Tuesday. The heaviest rainfall will likely remain offshore, though some locally heavy rainfall could reach the coast of the Panhandle. In the Peninsula, a return to typical summertime thunderstorms is expected with locally heavy rainfall possible in the stronger storms.

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.



Most areas should expect 1-3” of rain over the next 7 days, but there is the potential for some areas to receive as much as 4-6” of rain. These rain amounts may change day to day and are dependent on IF and WHERE the tropical wave moves and possibly develops.

Summary

- Tropical Storm Florence has passed the Cabo Verde Islands and is on its way into the open Atlantic.
- Maximum sustained winds are near 45 mph, and gradual strengthening is forecast through the next several days.
- This system is expected to have no impact on land.

- A tropical wave near Hispaniola is producing disorganized cloudiness and thunderstorms.
- This tropical wave is currently weak and disorganized but will move west-northwest towards the Bahamas and South Florida Sunday and Monday and into the eastern Gulf of Mexico early next week.
- Development is not expected to occur in the Caribbean or western Atlantic, but environmental conditions might become slightly more favorable for possible development in the eastern or central Gulf of Mexico.
- The National Hurricane Center has a 10% chance of formation over the next 2 days. Development chances in 3-5 days are at 40%. The increase in development chances is due to the inclusion of Wednesday in the 5-day outlook and for the possibility of the wave moving farther west over the Gulf of Mexico, having more time to possibly develop.

- 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 Africa coast in the 6-10 day timeframe.

Florida Outlook:

- No impacts to Florida or the Caribbean islands are expected from Tropical Storm Florence.
- The tropical wave near Hispaniola and Puerto Rico will bring increased rain chances to Florida this weekend and through the middle of next week. Regardless of development, locally heavy rainfall will be the main impact from this system.
- Rainfall totals will depend on the exact track and strength of this wave, but most areas should receive 1-3” of rain over the next 5-7 days with isolated higher amounts of 4-6” possible.
- 7 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.

Another briefing packet will be sent out Sunday morning. For the latest information on the tropics, please visit the National Hurricane Center website at [www.hurricanes.gov.](http://www.hurricanes.gov)

TROPICAL UPDATE

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State Meteorological Support Unit

Florida Division of Emergency Management

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