



TROPICAL UPDATE



9 AM EDT

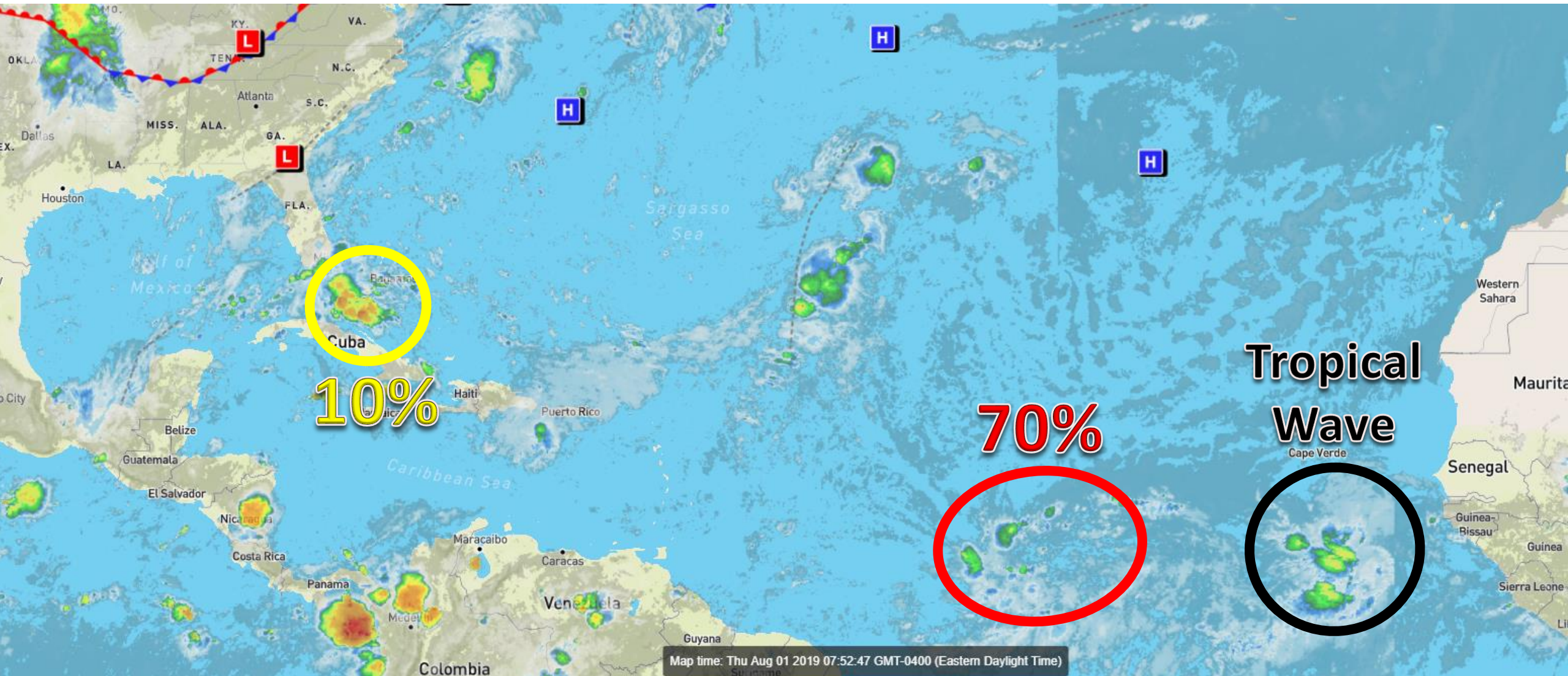
Thursday, August 1, 2019

Ex-Invest 95L (10%), Invest 96L (70%)

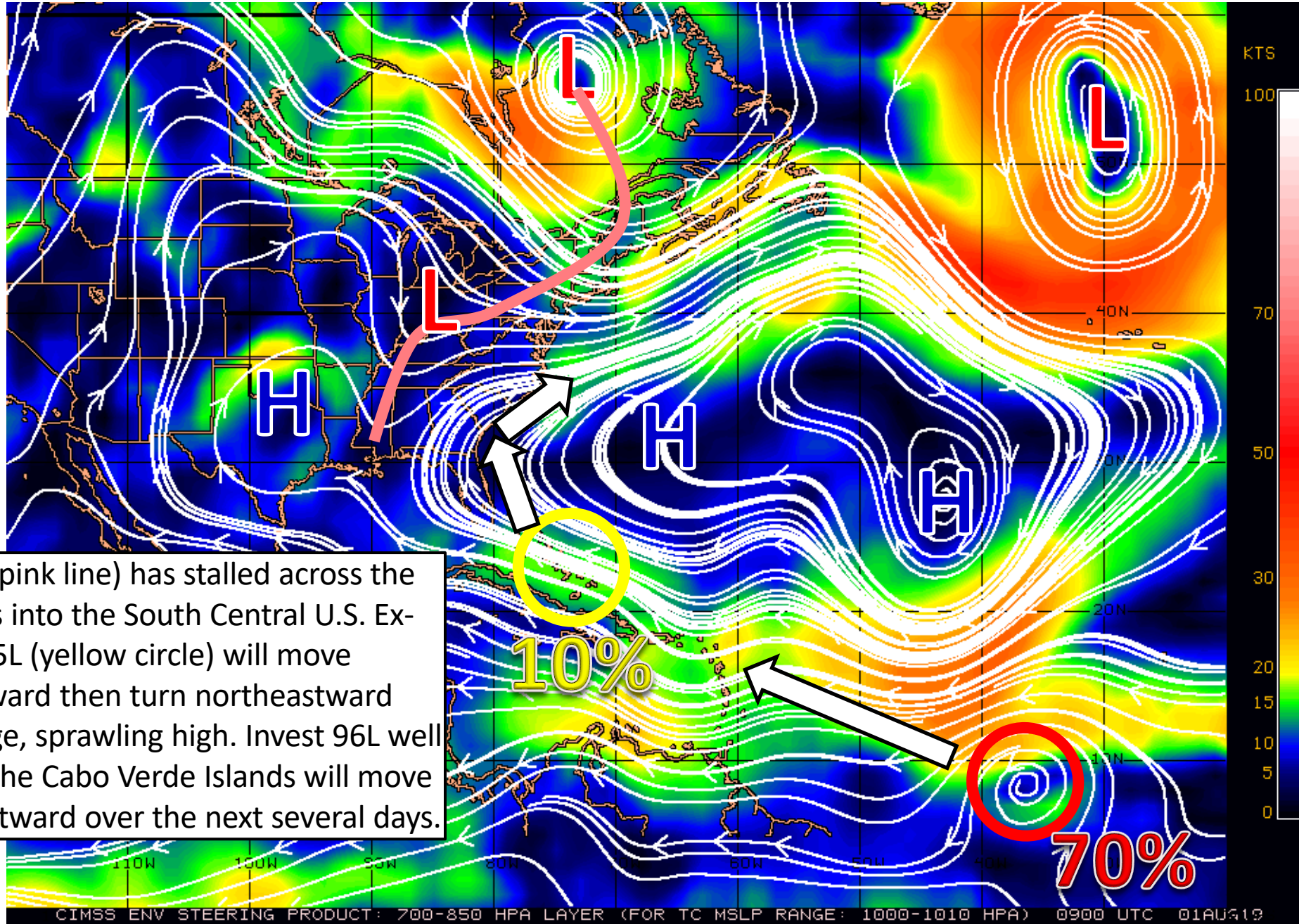
This update is intended for government and emergency response officials, and is provided for informational and situational awareness purposes only. Forecast conditions are subject to change based on a variety of environmental factors. For additional information, or for any life safety concerns with an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

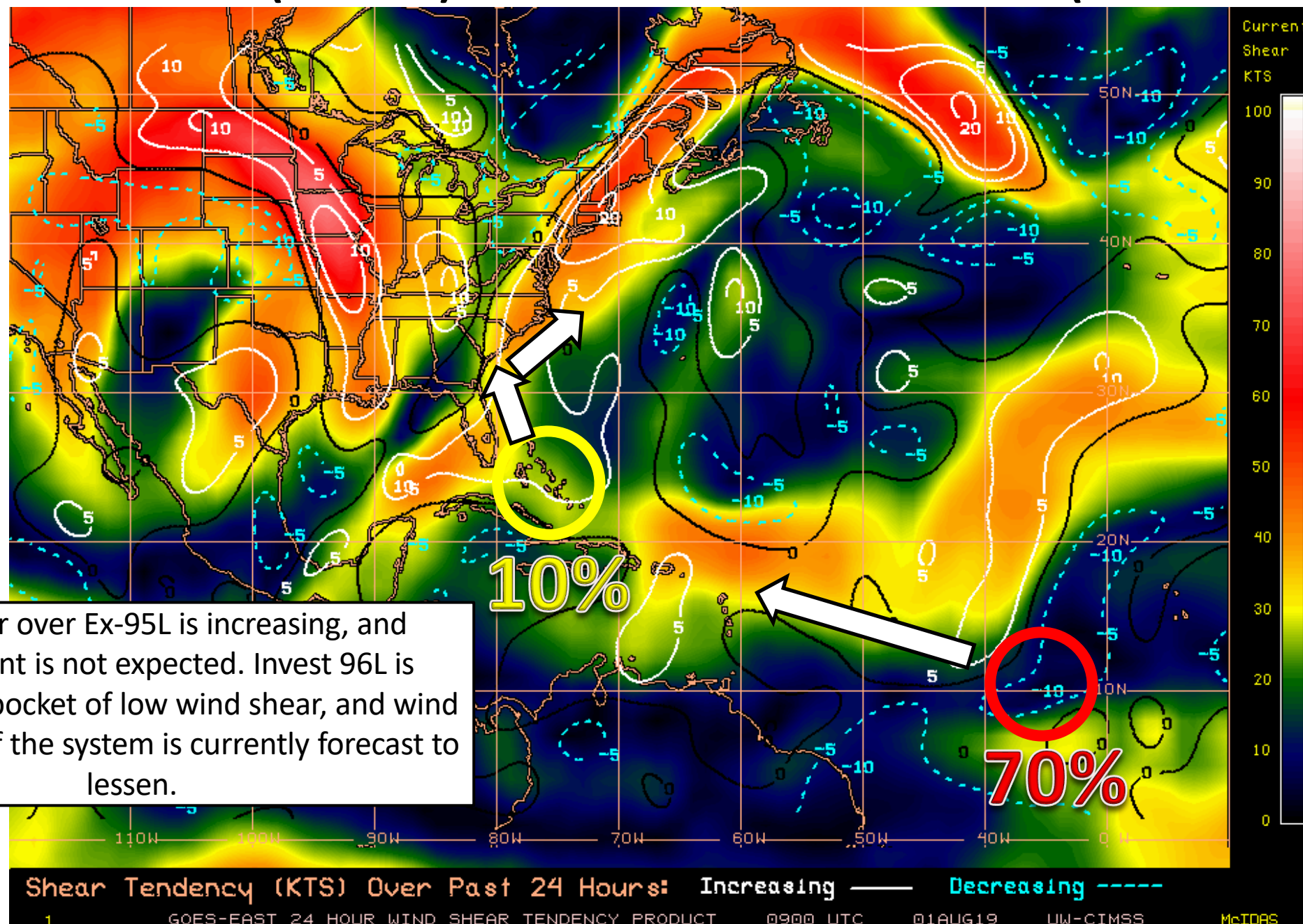


Steering Currents



A cold front (pink line) has stalled across the Appalachians into the South Central U.S. Ex-Invest 95L (yellow circle) will move northwestward then turn northeastward around the large, sprawling high. Invest 96L well southwest of the Cabo Verde Islands will move west-northwestward over the next several days.

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

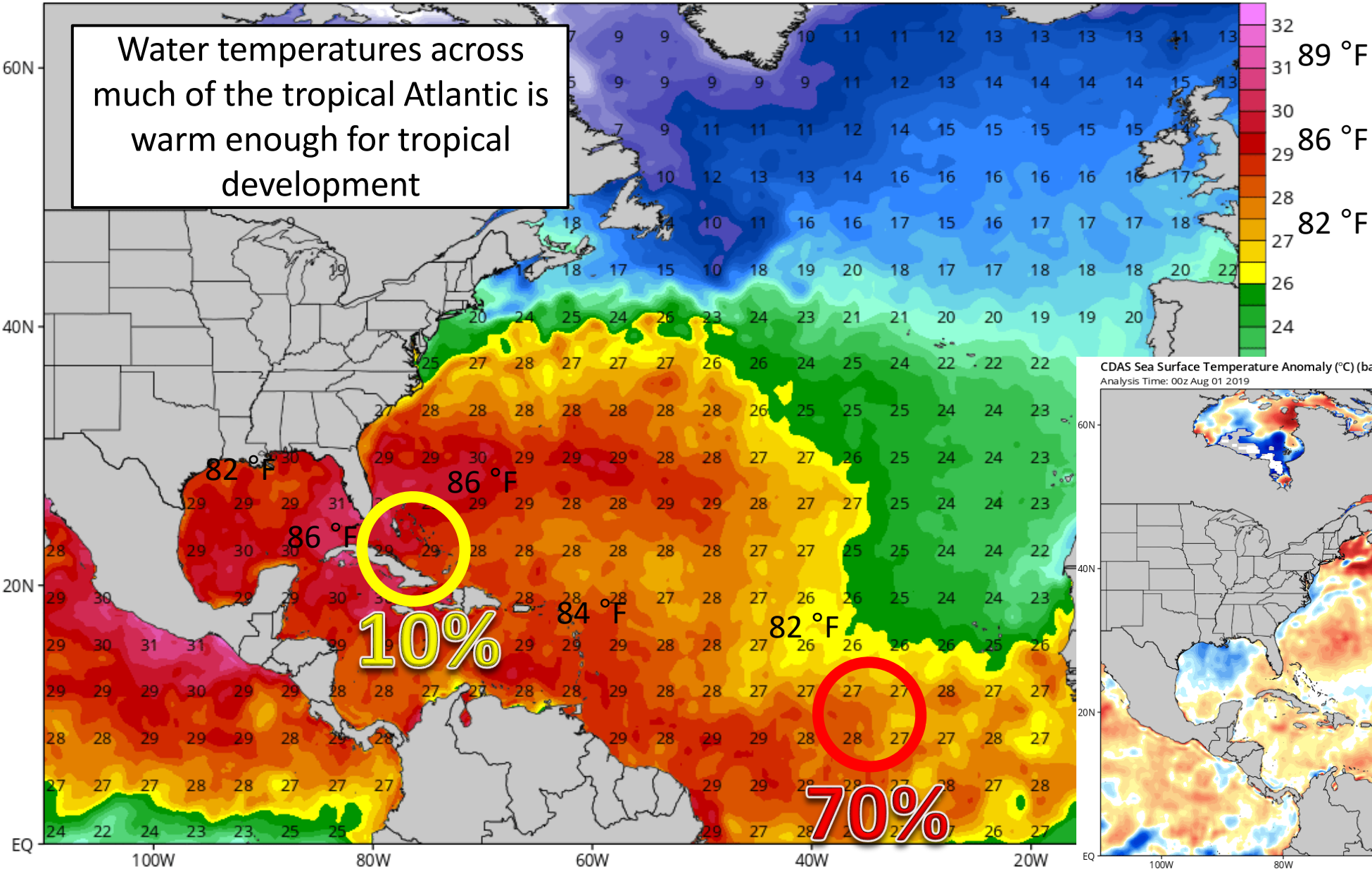


Current Sea Surface Temperatures

CDAS Sea Surface Temperature (°C)

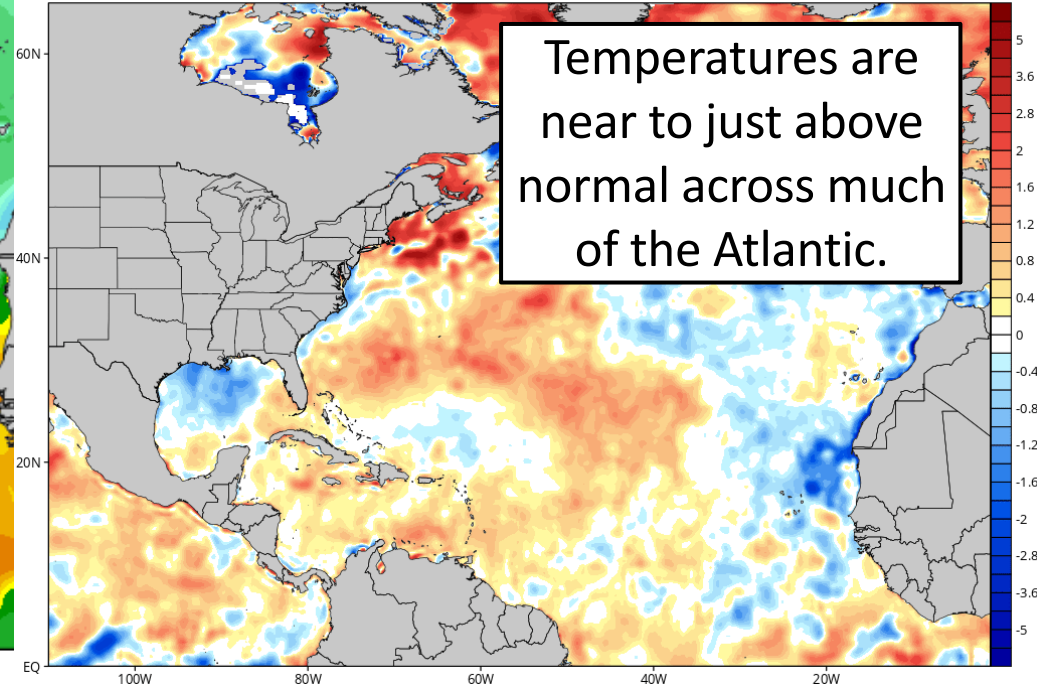
Analysis Time: 00z Aug 01 2019

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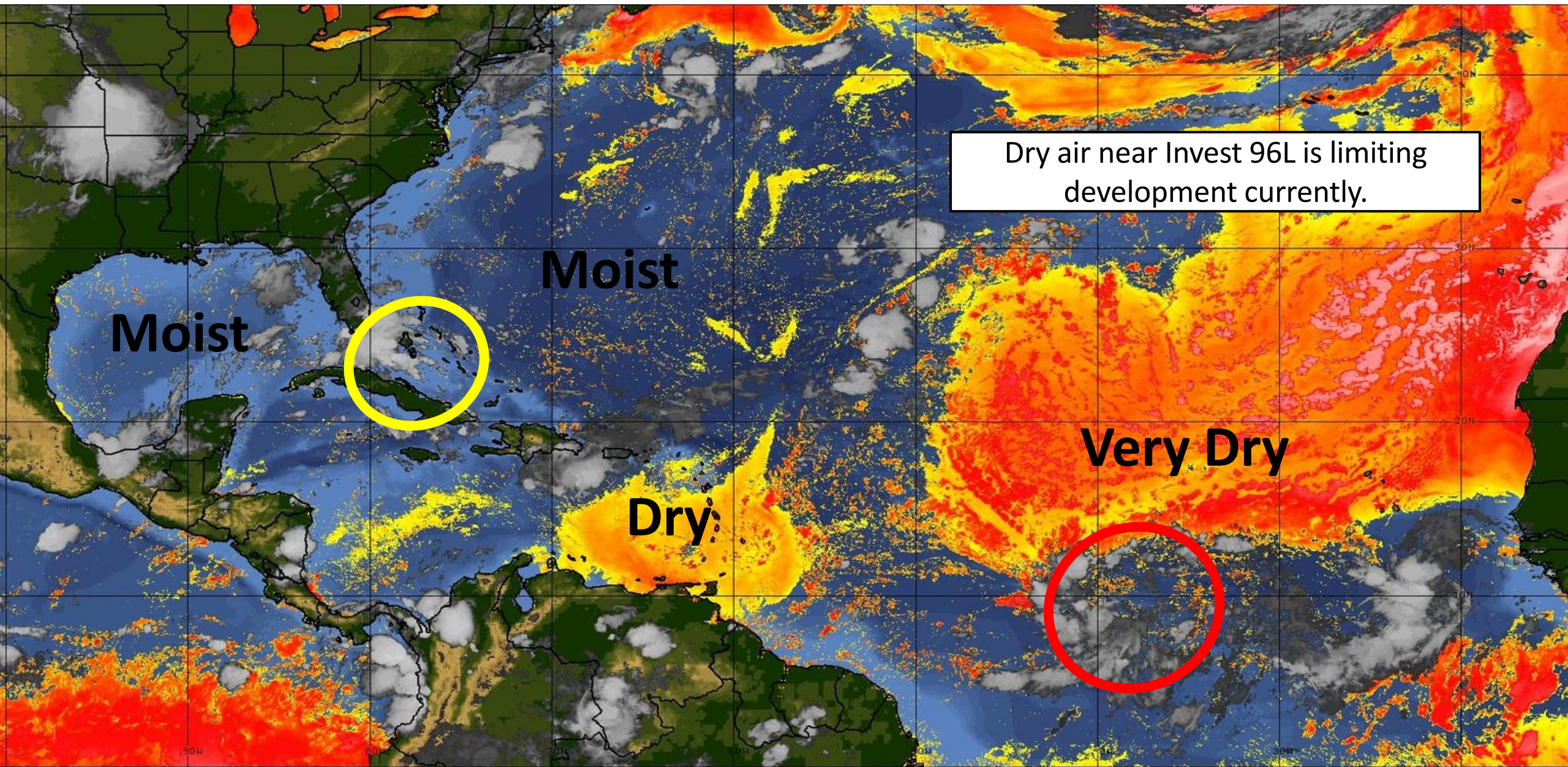


CDAS Sea Surface Temperature Anomaly (°C) (based on CFSR 1981-2010 Climatology)
Analysis Time: 00z Aug 01 2019

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Dry Air & Saharan Dust



Dry air near Invest 96L is limiting development currently.

Moist

Moist

Dry

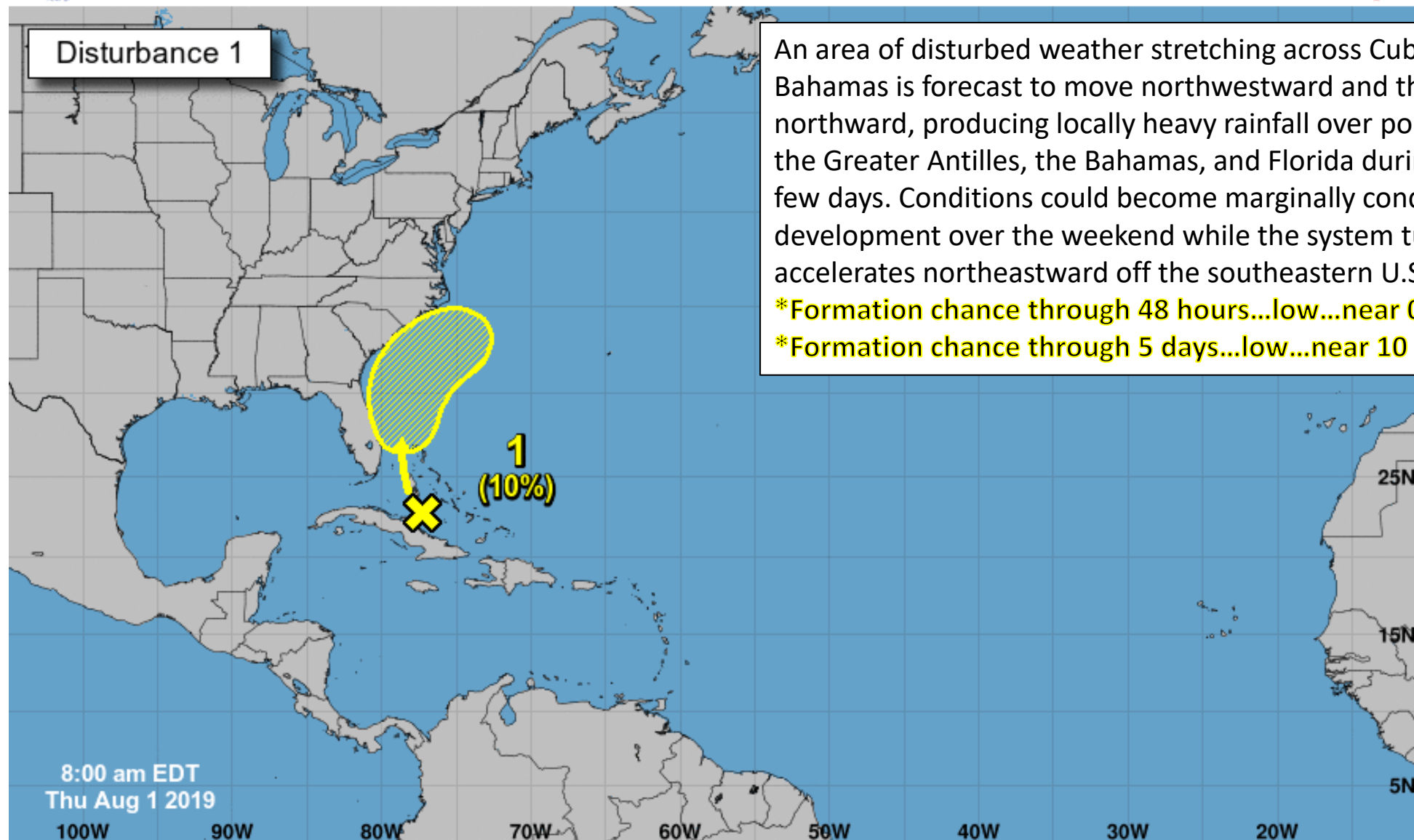
Very Dry

LESS <----- DRY AIR (LOW/MID-LEVEL) AND/OR DUSTY SAL AIRMASS -----> MORE



Five-Day Graphical Tropical Weather Outlook

National Hurricane Center Miami, Florida



An area of disturbed weather stretching across Cuba and the Bahamas is forecast to move northwestward and then northward, producing locally heavy rainfall over portions of the Greater Antilles, the Bahamas, and Florida during the next few days. Conditions could become marginally conducive for development over the weekend while the system turns and accelerates northeastward off the southeastern U.S. coast.

*Formation chance through 48 hours...low...near 0 percent.

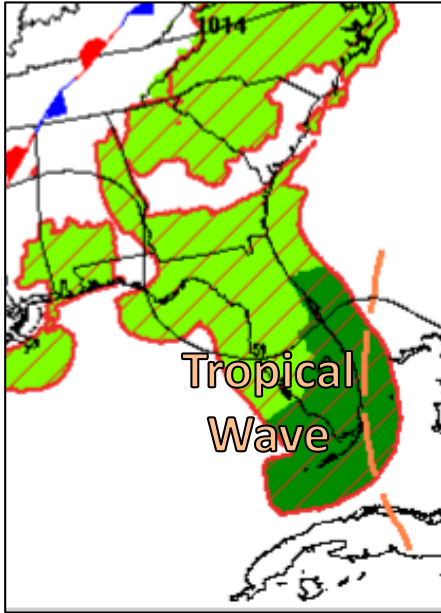
*Formation chance through 5 days...low...near 10 percent.

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

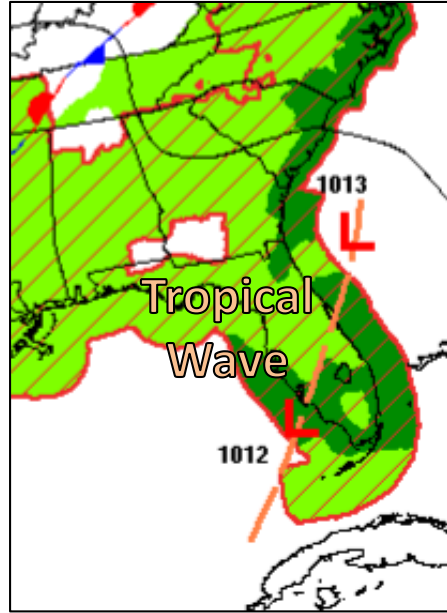
Tropical or Sub-Tropical Cyclone: Depression Storm Hurricane

Post-Tropical Cyclone or Remnants

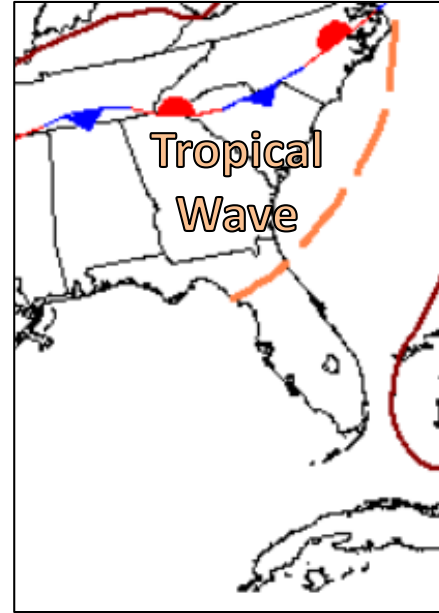
Forecast Weather Maps (fronts)



Friday



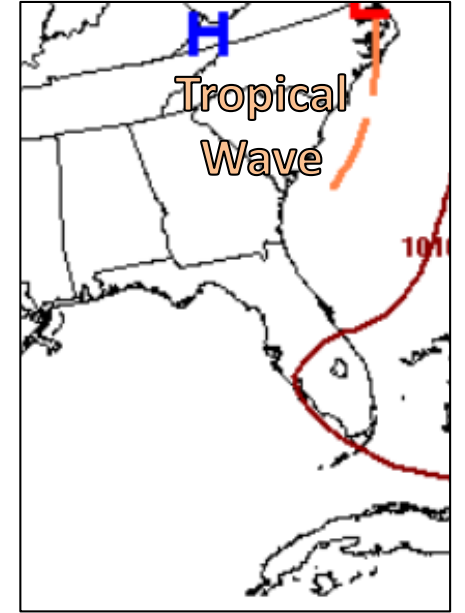
Saturday



Sunday



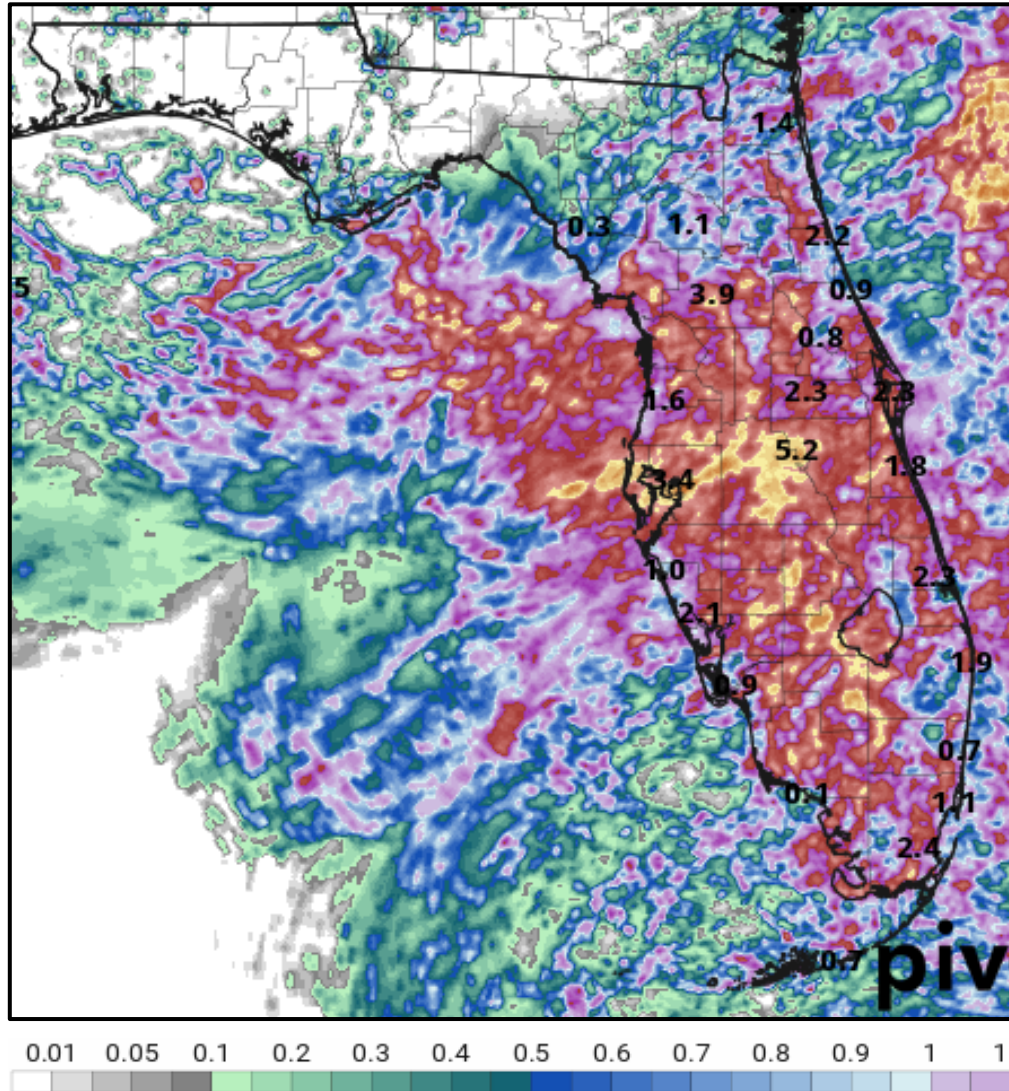
Monday



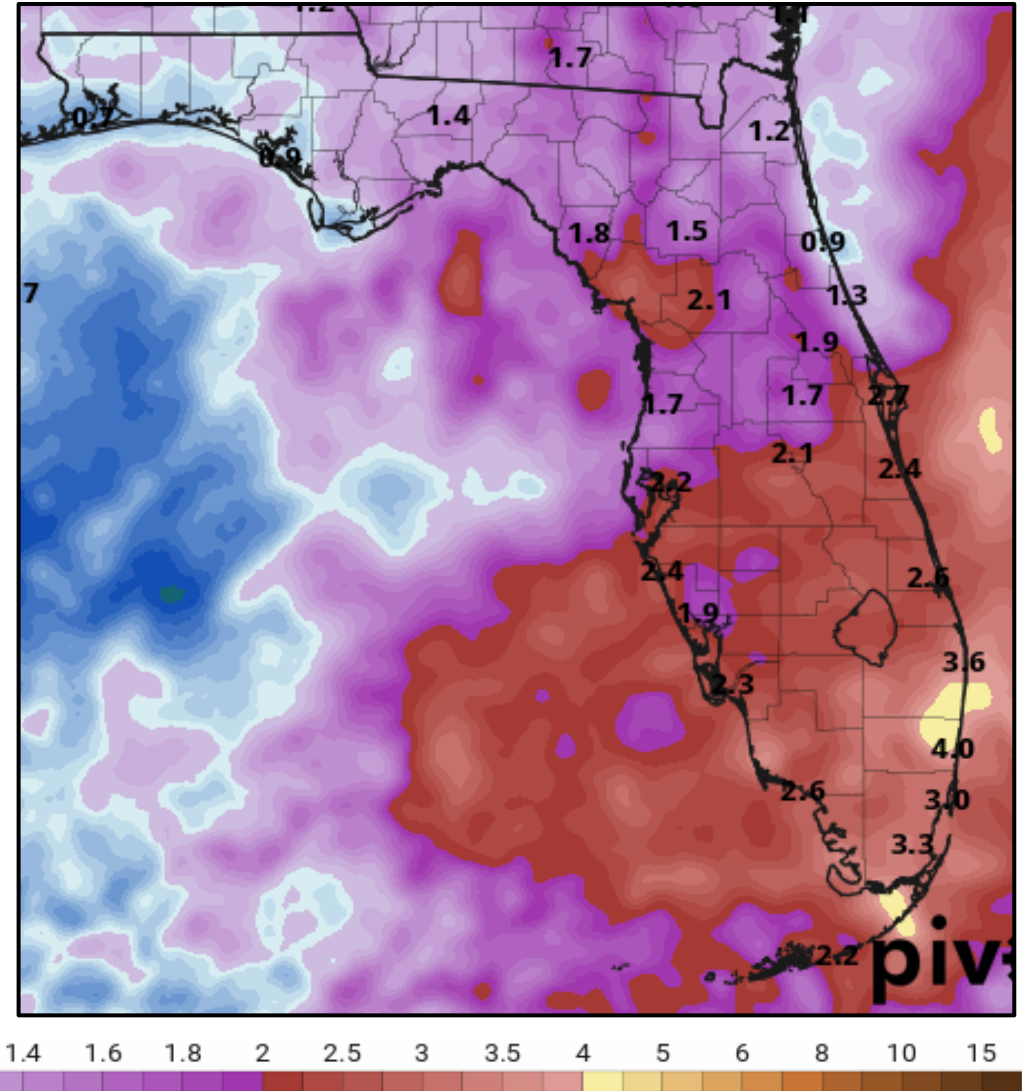
Tuesday

Ex-Invest 95L (likely a weak tropical wave) will move toward the Florida East Coast through tomorrow, then very near or over the Florida Peninsula this weekend before lifting to the north early next week. Locally heavy rainfall is possible through this weekend, especially across South Florida. An isolated waterspout or tornado will also be possible in South Florida Friday into the weekend.

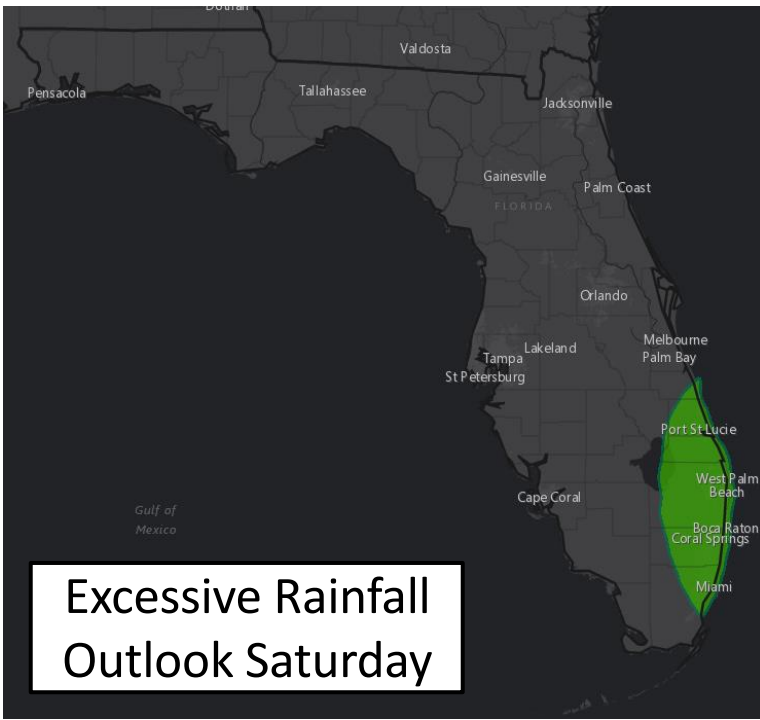
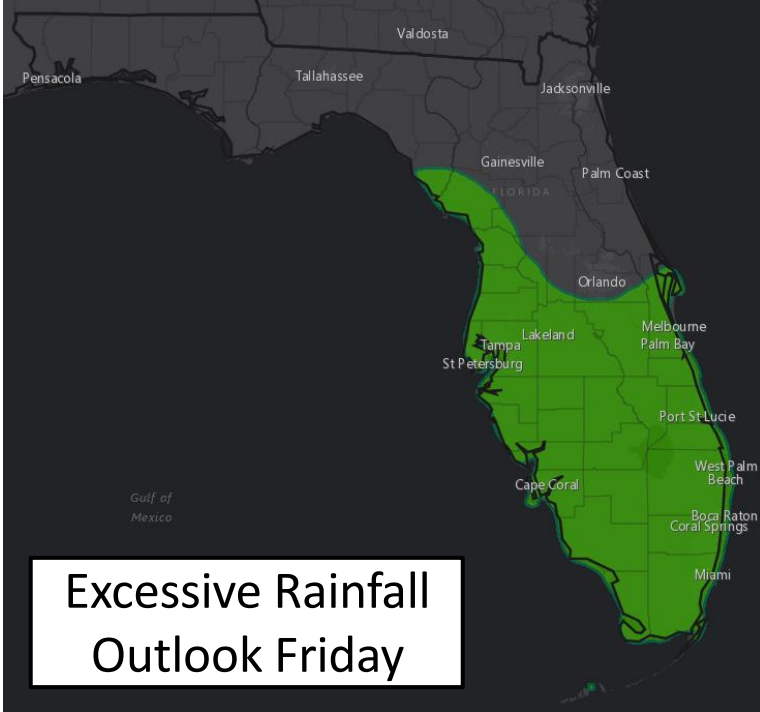
Estimated Rainfall Totals Last 7 Days









Cumulative Rainfall Totals Next 5 Days



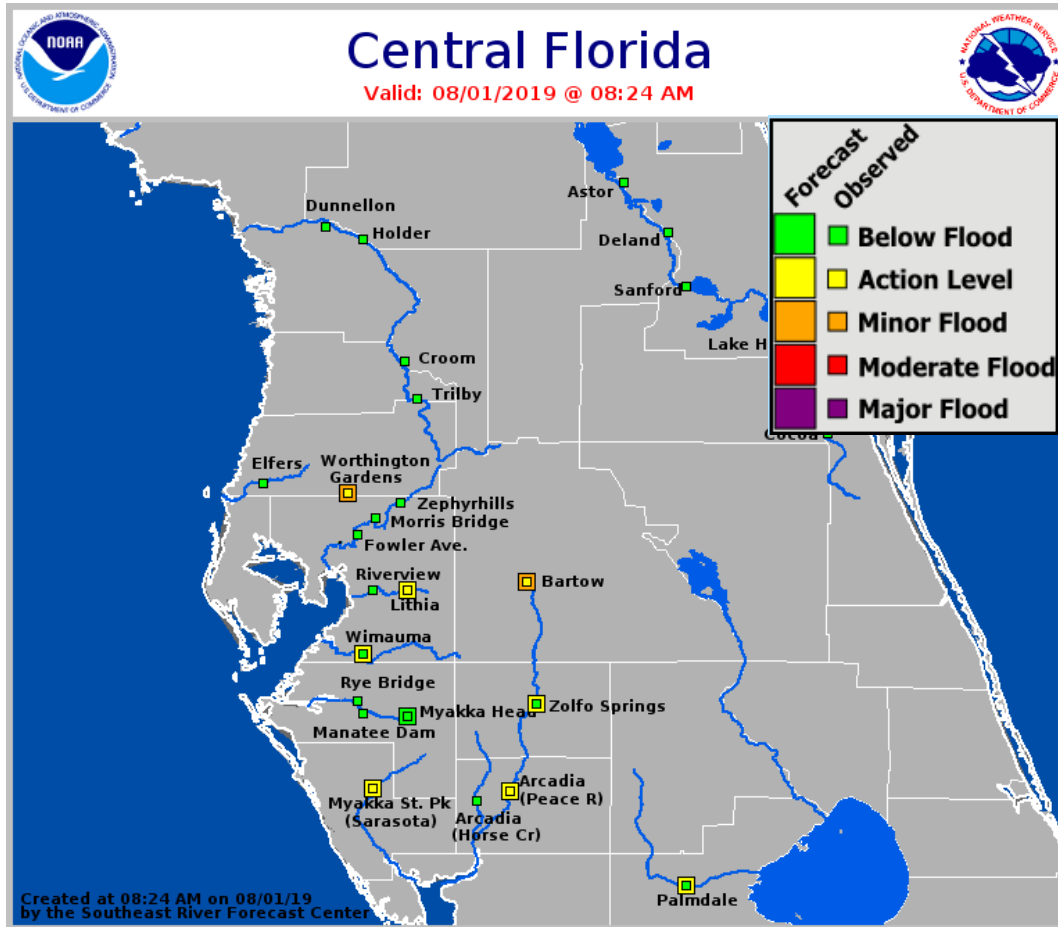
About 2-4" of rain has fallen across much of the Peninsula over the last week or so with localized totals up to 6". Over the next 5 days, another 1-3" of rain in the northern Peninsula and 2-4" in South Florida is expected. Localized totals of 4-6" are possible in some spots.



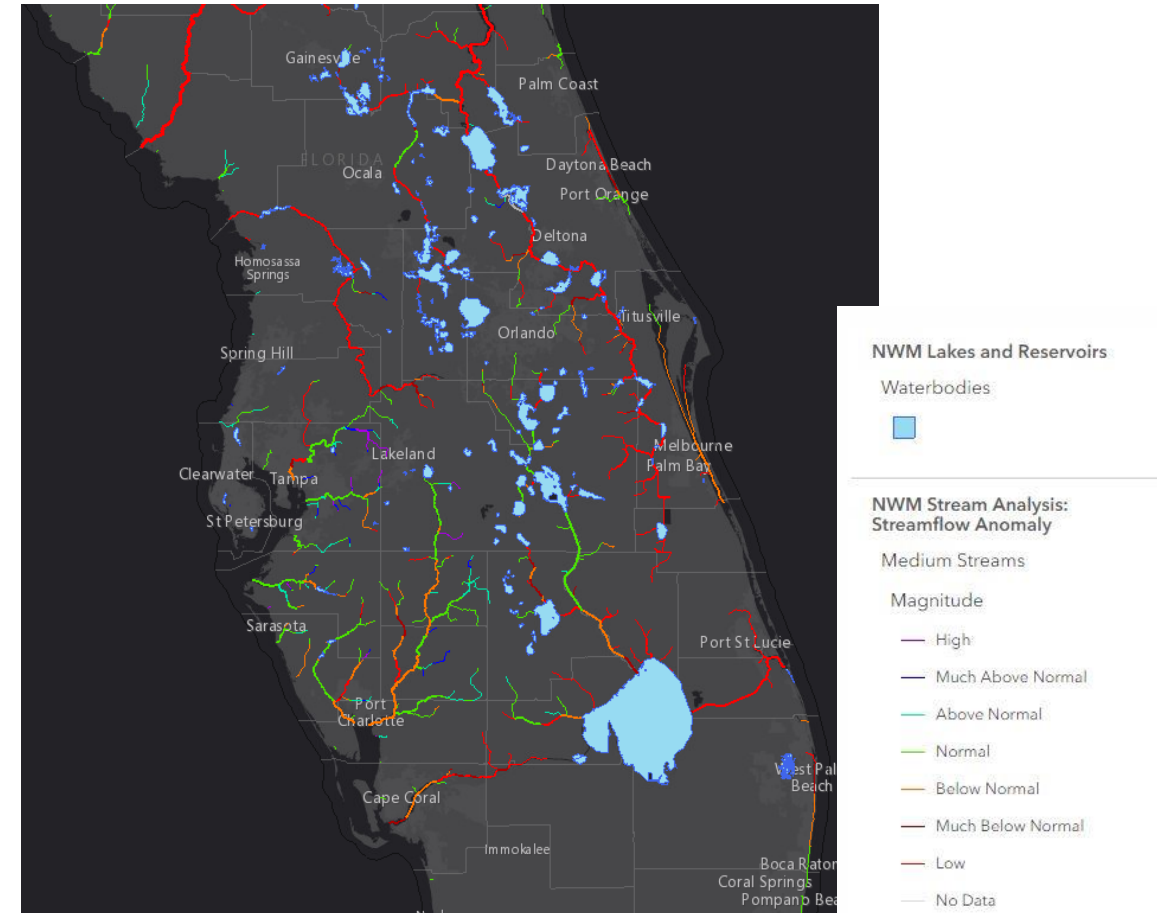
| Understanding WPC Excessive Rainfall Risk Categories | | | | |
|--|--|---|---|--|
| No Area/Label | MARGINAL (MRGL) | SLIGHT (SLGT) | MODERATE (MDT) | HIGH (HIGH) |
| Flash floods are generally not expected. | Isolated flash floods possible | Scattered flash floods possible | Numerous flash floods likely | Widespread flash floods expected |
| www.wpc.ncep.noaa.gov @NWSWPC | 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. | Numerous flash flooding events with significant events possible. Many streams may flood, potentially affecting larger rivers. | Severe, widespread flash flooding. Areas that don't normally experience flash flooding, could. Lives and property in greater danger. |
| Flash flooding near me? | Flash Flooding NO Flash Flooding | | | |
|   WEATHER PREDICTION CENTER |  |  |  |  |

There is a marginal risk of excessive rainfall that could lead to some isolated, minor flash flooding in South Florida on Friday and Saturday. This will mainly be confined to urban, low-lying, or poor drainage areas.

Current/Forecast River Stages



Current Streamflow Anomalies



River Flood Warnings are in effect for the Cypress Creek at Worthington Gardens and the Peace River at Bartow. Additional rivers are in action stage across West Central Florida. Minor flooding may become possible should heavier rainfall occur. It will take about 2-3" over the next 3 days to cause minor flooding along the many West Central Rivers.



Five-Day Graphical Tropical Weather Outlook

National Hurricane Center Miami, Florida



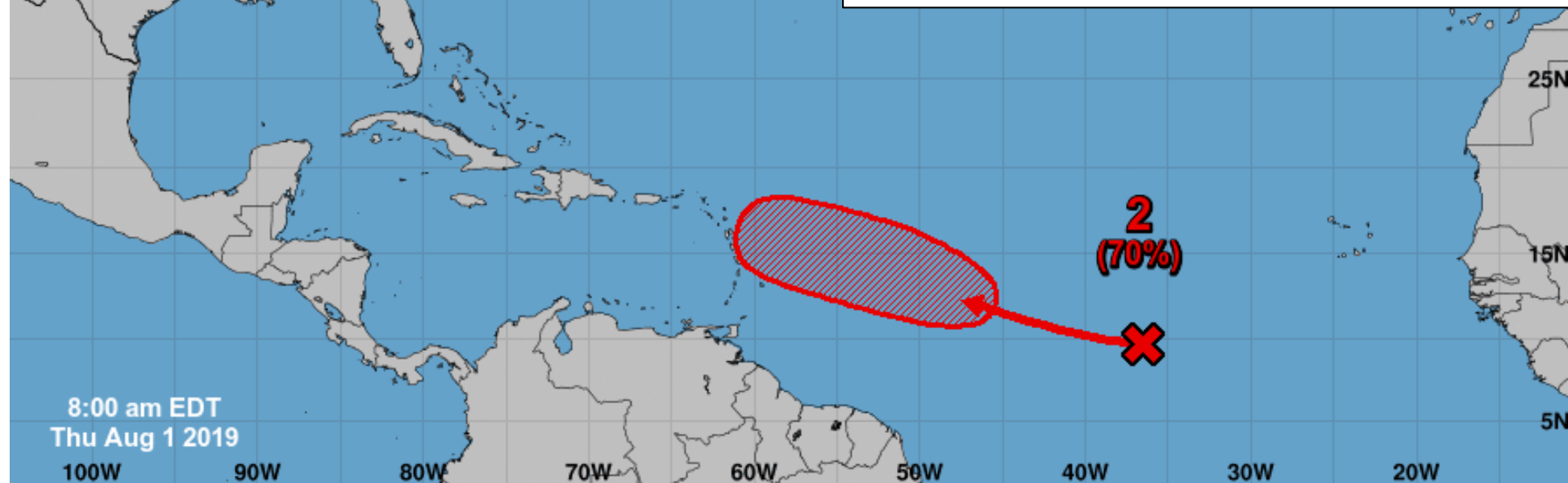
Disturbance 2

A broad low pressure system located about 1000 miles west-southwest of the Cabo Verde Islands continues to produce a large area of disorganized showers and thunderstorms. Only gradual development of this system is expected for the next day or so while it moves west-northwestward at 10-15 mph.

Environmental conditions could become more supportive by Saturday and a tropical depression is likely to form over the weekend, several hundred miles east of the Lesser Antilles.

***Formation chance through 48 hours...low...near 20 percent.**

***Formation chance through 5 days...medium...near 70 percent.**



8:00 am EDT
Thu Aug 1 2019

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

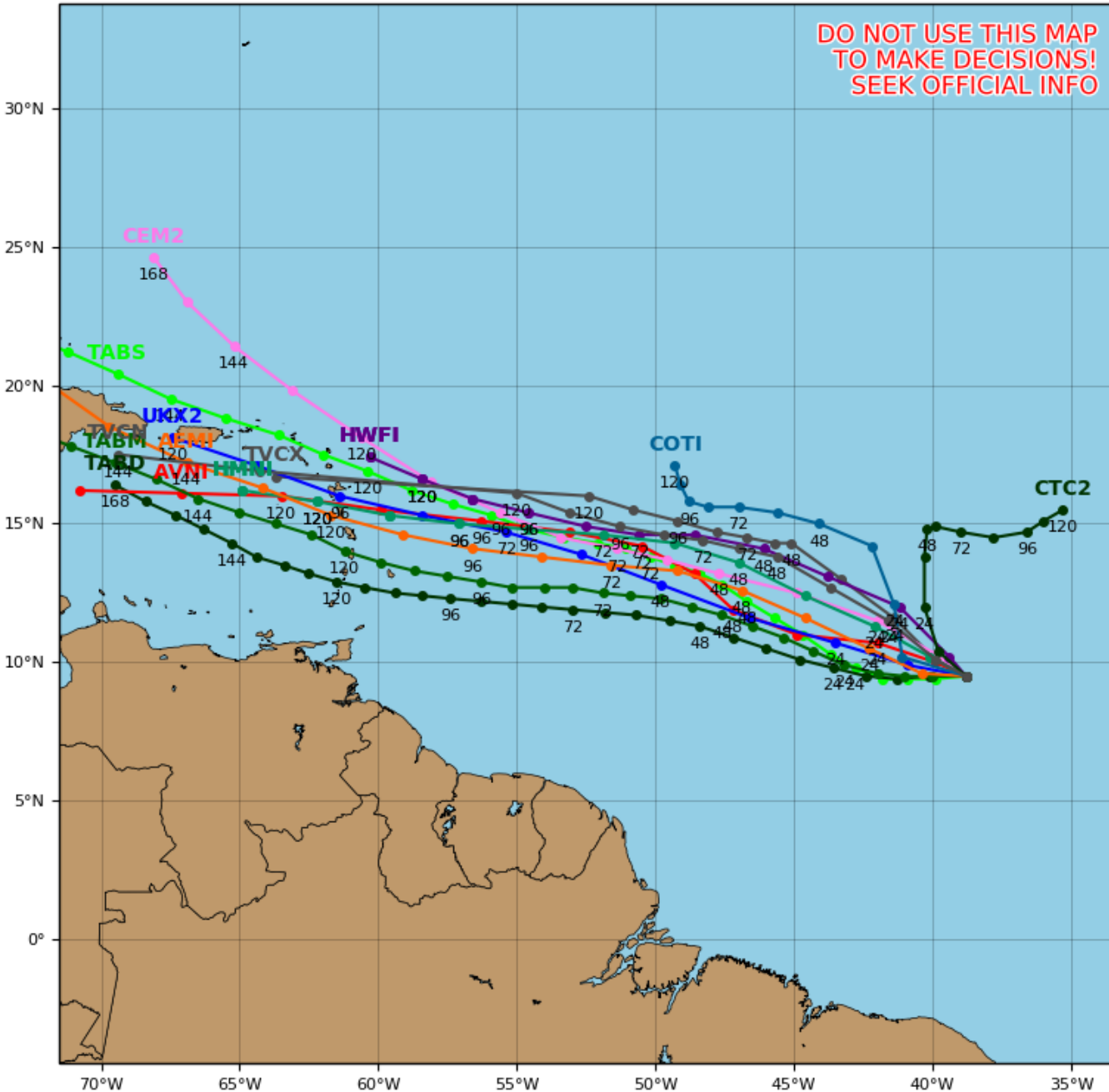
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Post-Tropical Cyclone or Remnants

Invest 96L Model Track Guidance

Initialized at 12z Aug 01 2019

Levi Cowan - tropicaltidbits.com



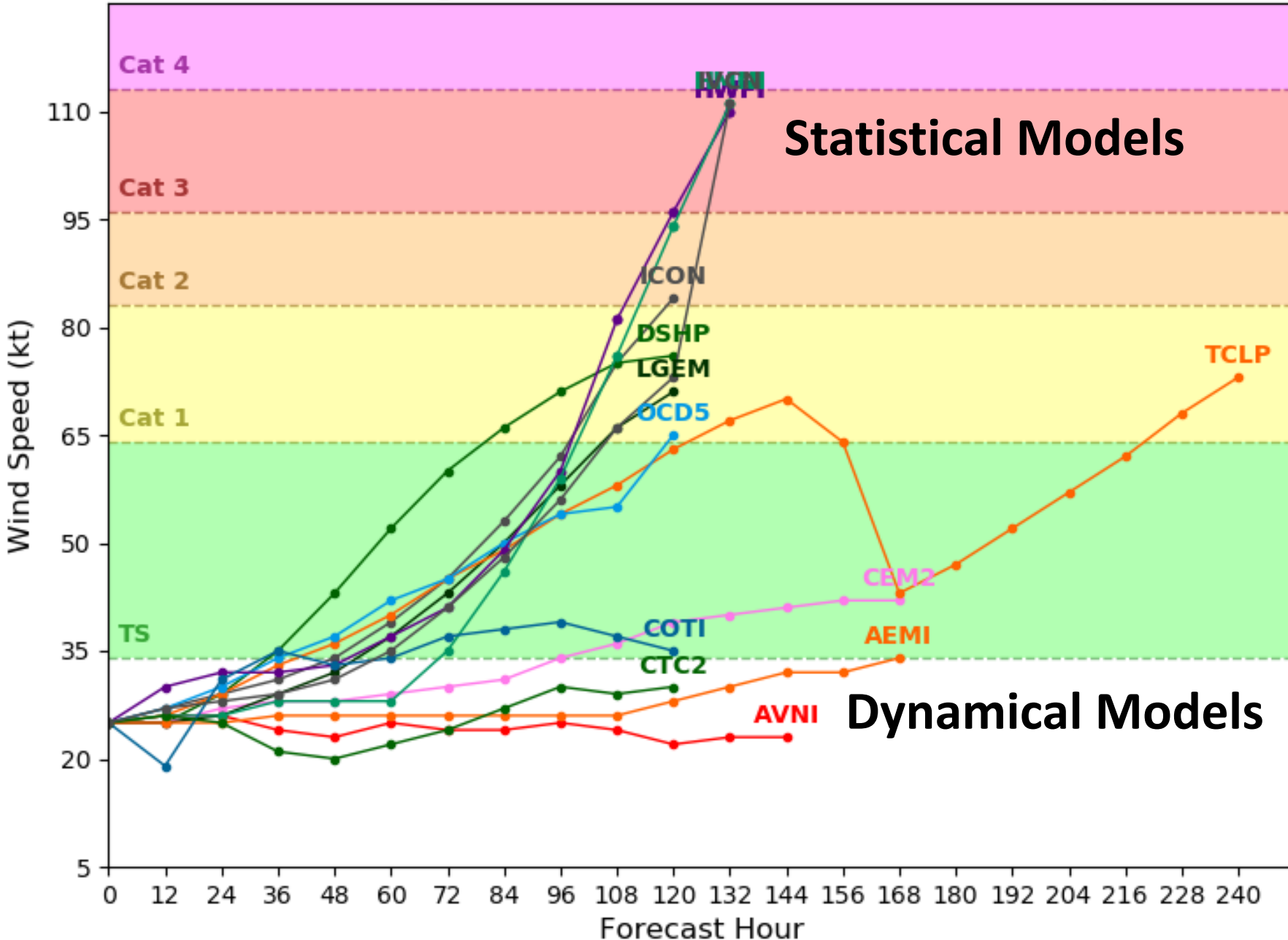
Current Model Track Guidance for Invest 96L

Model guidance is generally in agreement with 96L moving to the west-northwest over the next several days. 96L should reach the Lesser Antilles in about 5 days and be near Puerto Rico in about 7 days.

Invest 96L Model Intensity Guidance

Initialized at 12z Aug 01 2019

Levi Cowan - tropicaltidbits.com



Current Model Intensity Guidance for Invest 96L

While models generally agree on track, they vary widely on intensity. It is important to note that it is mostly statistical models that show the rapid intensification, *and these models do not account for the current state of the atmosphere*. Most dynamical models keep 96L weak. However, with a currently disorganized system, intensity guidance can fluctuate greatly.

Summary

Ex-Invest 95L/Bahamas Tropical Wave

- Land interaction and unfavorable upper-level winds will prevent development of this system.
- The National Hurricane Center gives it a 0% chance of development in the next 48 hours and a 10% (low) chance over 5 days.
- The area of tropical moisture will reach the Florida Peninsula later today and this weekend increasing rain chances.
- Early next week, the system merges with a cold front and accelerates to the northeast, away from the United States.

Invest 96L/Eastern Atlantic Wave

- Invest 96L is located about 1,000 miles west-southwest of the Cabo Verde Islands, moving west-northwestward around 15 mph.
- Somewhat unfavorable upper-level winds and nearby dry air will only allow for gradual development over the next couple days.
- By this weekend, as the system approaches the Lesser Antilles, conditions for development will become more favorable.
- The National Hurricane Center gives this system a 20% (low) chance of development in the next 48 hours but a 70% (high) chance days 3-5.
- Development odds will continue to increase over the next few days.
- By the middle of next week, 96L will be nearing Puerto Rico. Details afterward are uncertain.
- Track guidance is in generally good agreement, but intensity is very uncertain.

Florida Outlook:

- Rain chances increase across South Florida over the next few days with locally heavy rainfall possible.
- Widespread cumulative rainfall totals of 2-4" are forecast over the next 5 days, with localized totals of 6+" which may result in some isolated flash flooding through the weekend.
- Isolated tornadoes and waterspouts are possible in some of the stronger thunderstorms.
- Due to the New Moon, tides are running 0.5'-1.5' above normal. Should a heavy rainfall event occur at high tide near the coast, the risk for minor flooding will be increased. Water will have difficulty draining until high tide begins to recede.
- Due to recent rainfall, some West-Central Florida rivers are in minor flood stage. Additional rainfall totals over 2-3" will result in additional minor river flooding.
- The Cabo Verde tropical wave poses no threat to Florida for at least the next 7 days, but should continue to be monitored.

The next briefing 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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