



# TROPICAL UPDATE



11:00 AM EDT

Monday, July 6, 2020

Tropical Storm Edouard, Invest 98L (40%),  
& Tropical Wave (10%)

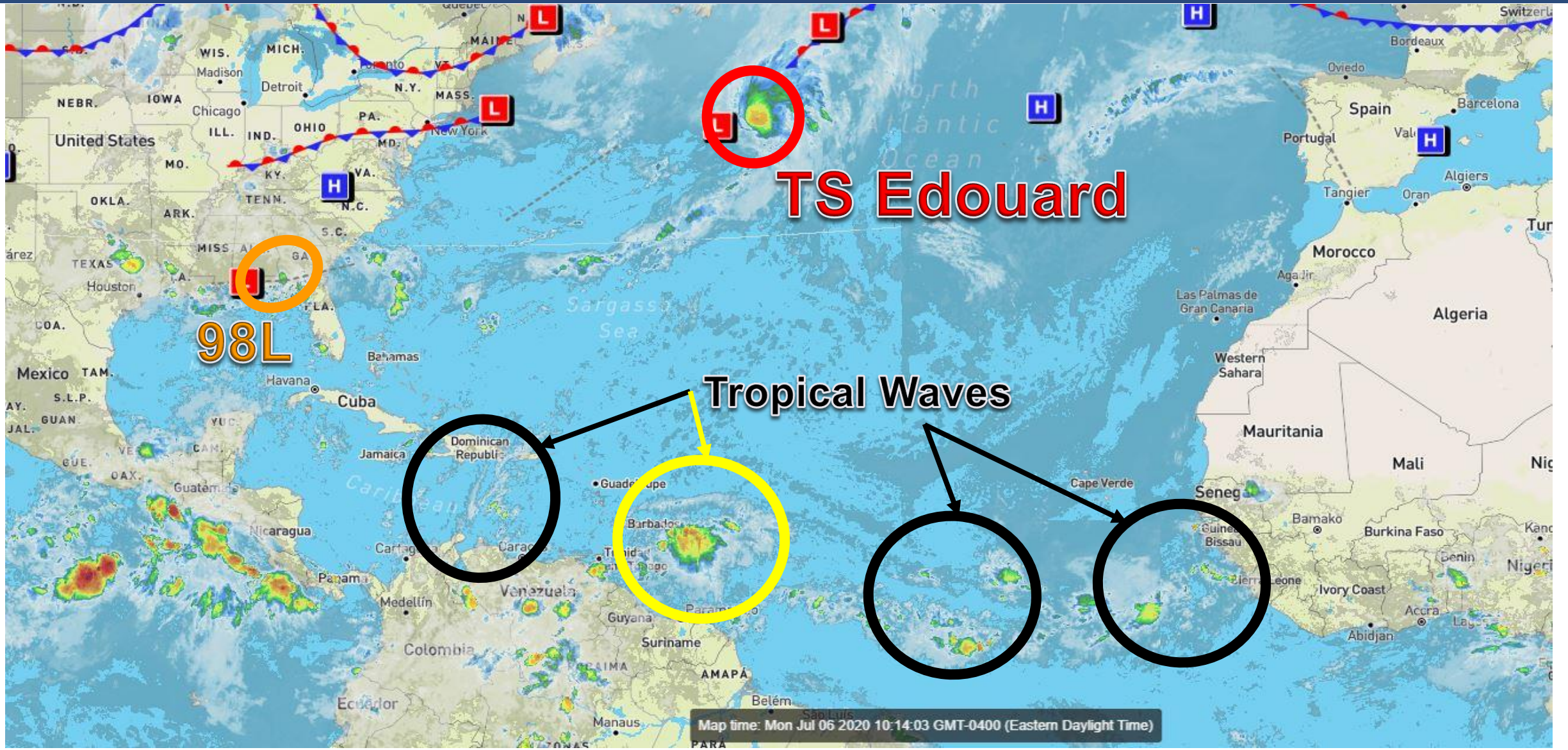
This update is intended for government and emergency response officials, and is provided for informational and situational awareness purposes only. Forecast conditions are subject to change based on a variety of environmental factors. For additional information, or for any life safety concerns with an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







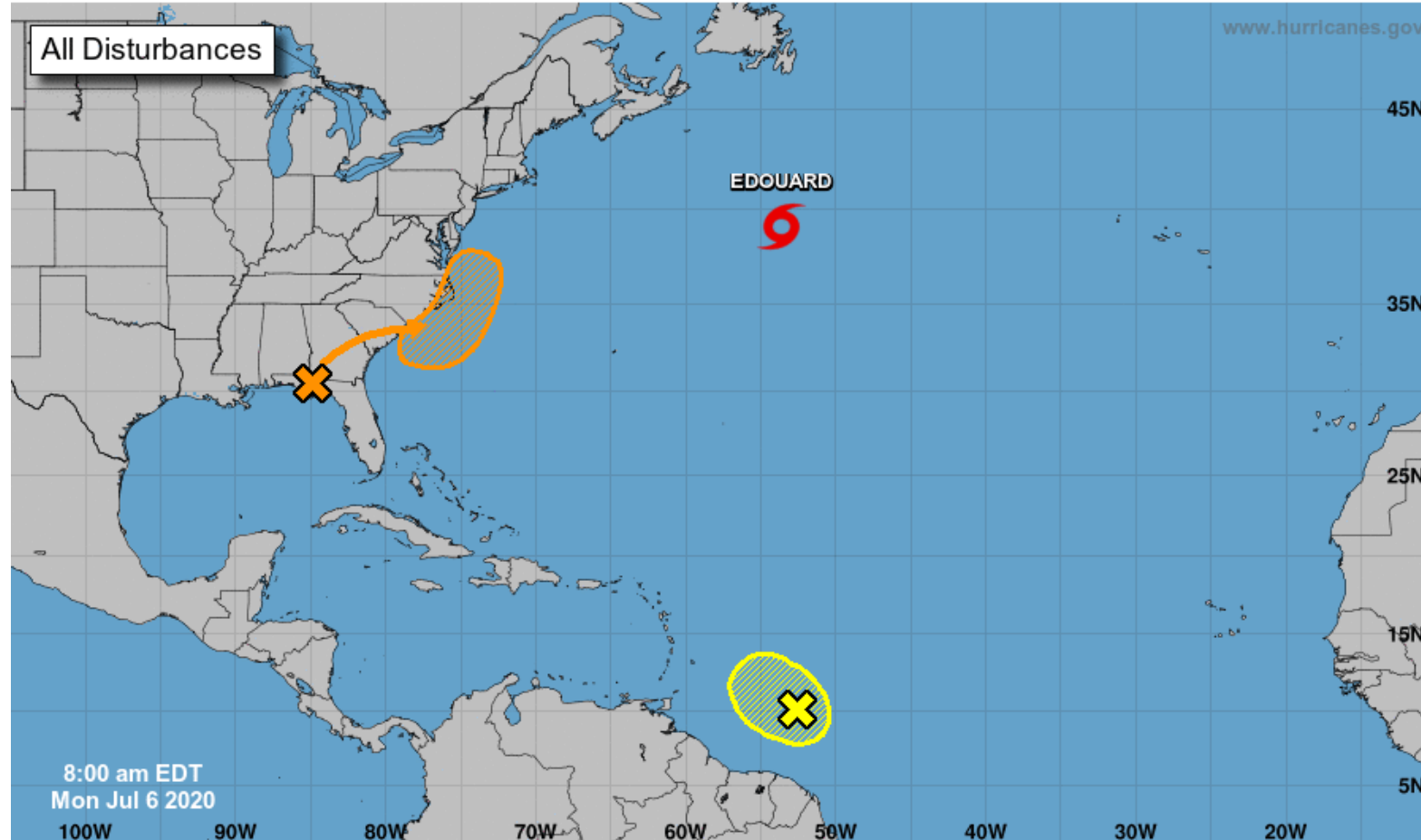
# Tropical Weather Outlook

Possible Areas of Development During the Next 5 Days ([LINK](#))



## 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



# Steering Currents

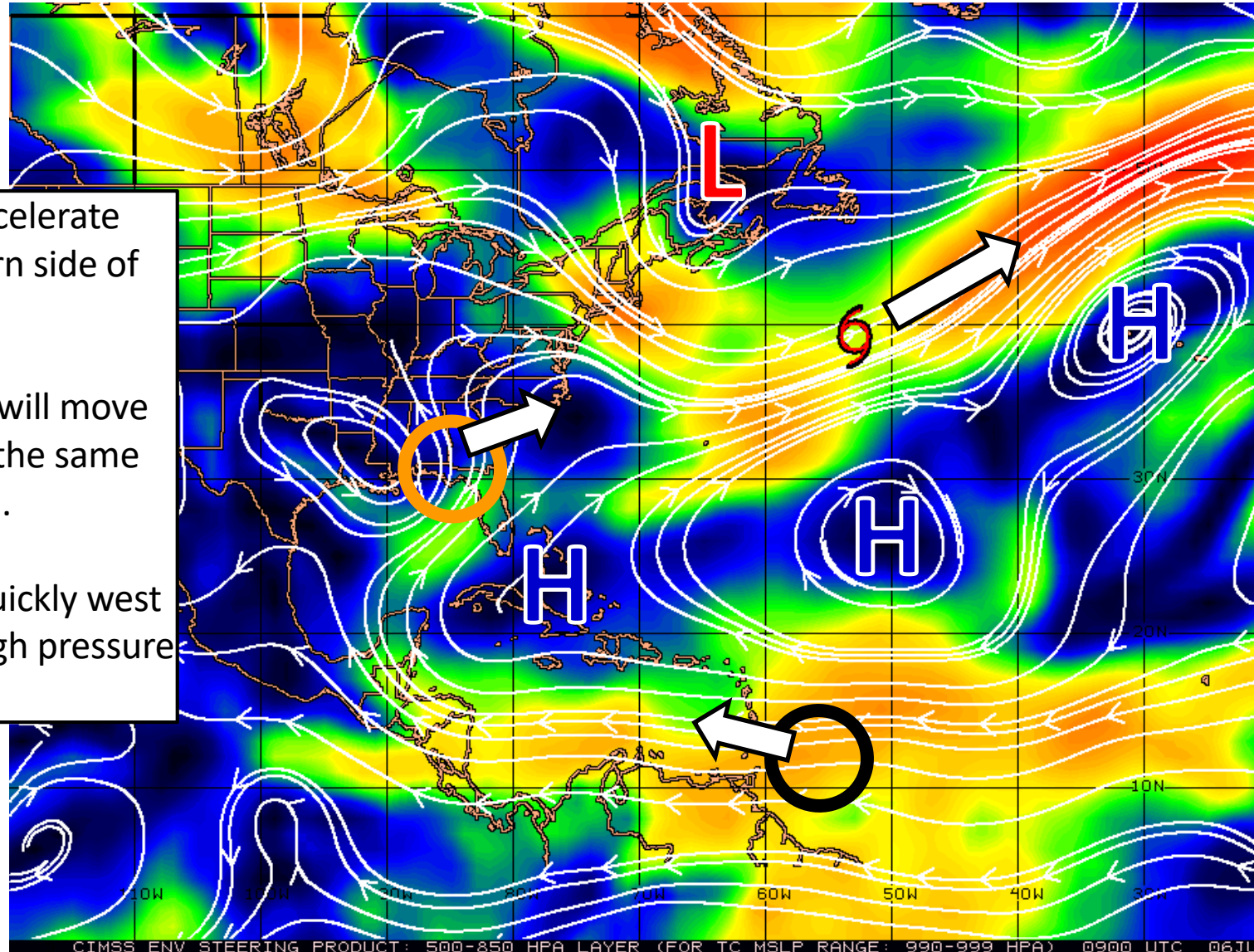
What is moving the system?

Color denotes the movement speed through the atmosphere and thin white lines denote direction. Tightly clustered white lines represent faster movement as well.

Edouard will continue to accelerate northeastward on the western side of high pressure.

98L, the system near Florida, will move north and northeast around the same high pressure system.

The tropical wave will move quickly west on the southern edge of the high pressure system.



Fast Moving Storm

Fast Moving Storm

Typical Moving Storm

Slow Moving Storm





# Wind Shear

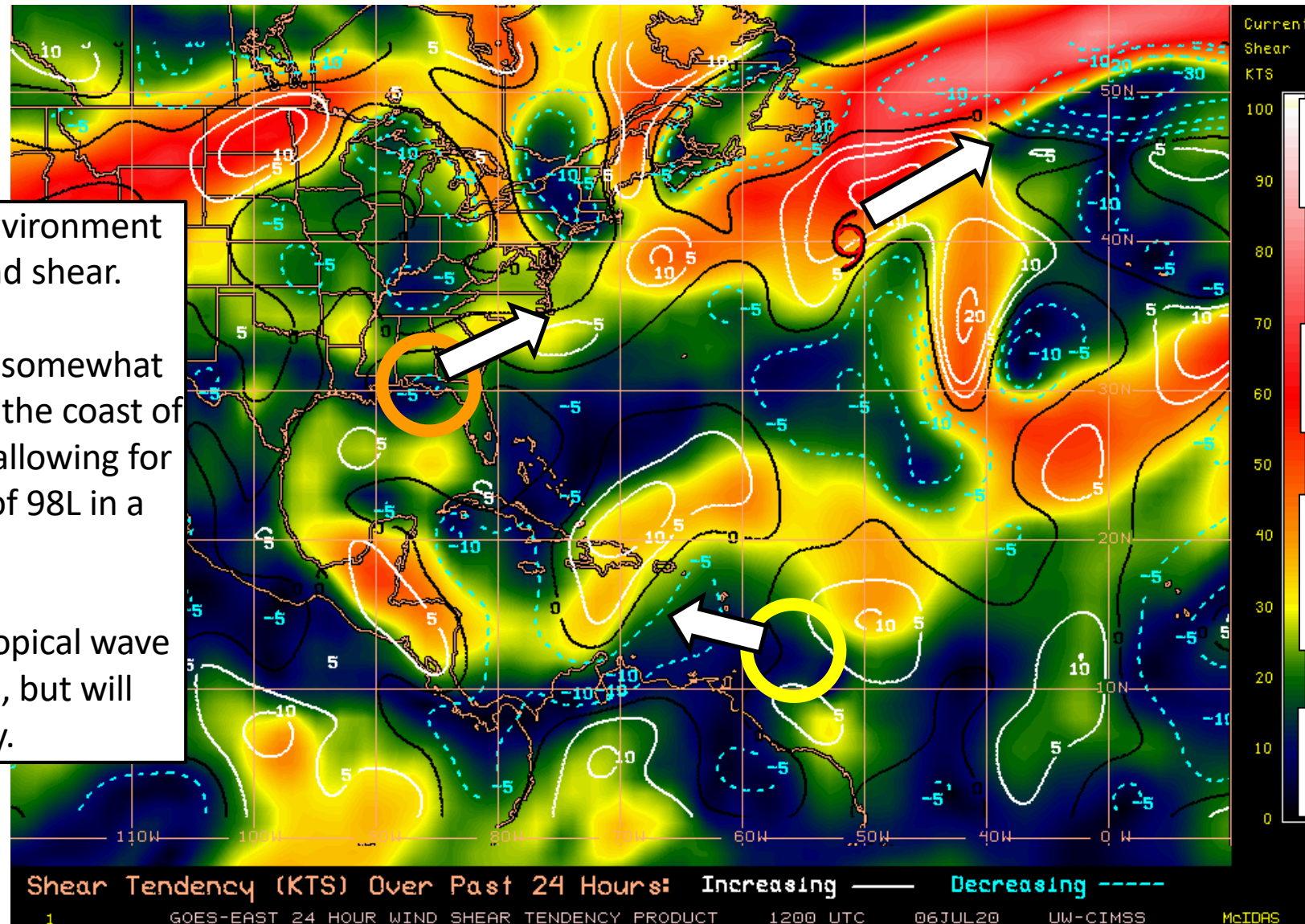
Is the environment favorable for the system?

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).

Edouard is moving into an environment with unfavorable, high wind shear.

Wind shear remains low and somewhat favorable for development off the coast of the Southeast United States, allowing for some gradual organization of 98L in a couple of days.

Wind shear is low near the tropical wave approaching the Caribbean, but will increase by Tuesday.





# Sea Surface Temperatures & Anomalies

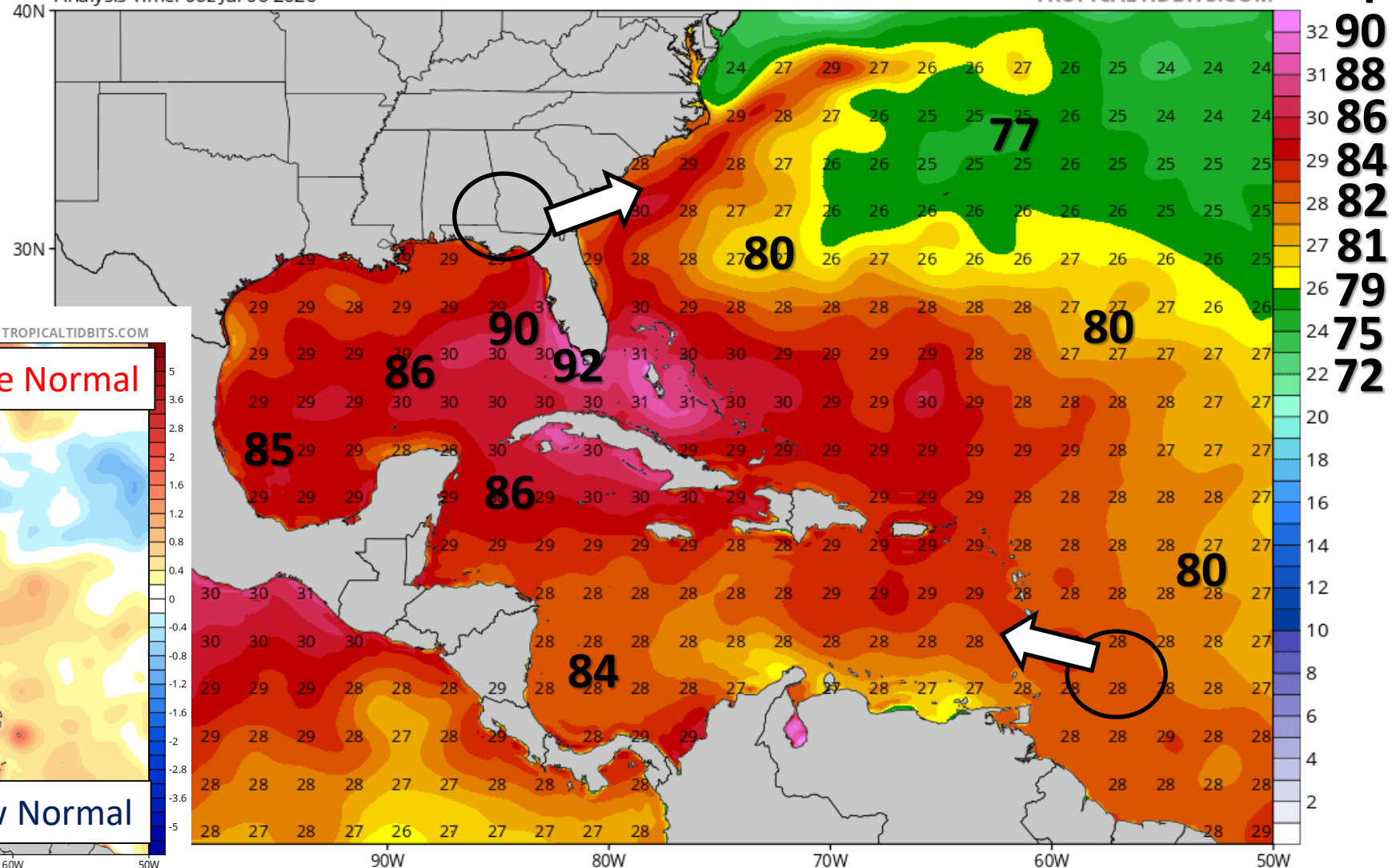
Is the ocean favorable for the system?

Water temperatures are warm enough to support tropical develop across nearly the entire western Atlantic, and are above normal for this time of year.

Edouard is moving into the frigid waters of the North Atlantic.

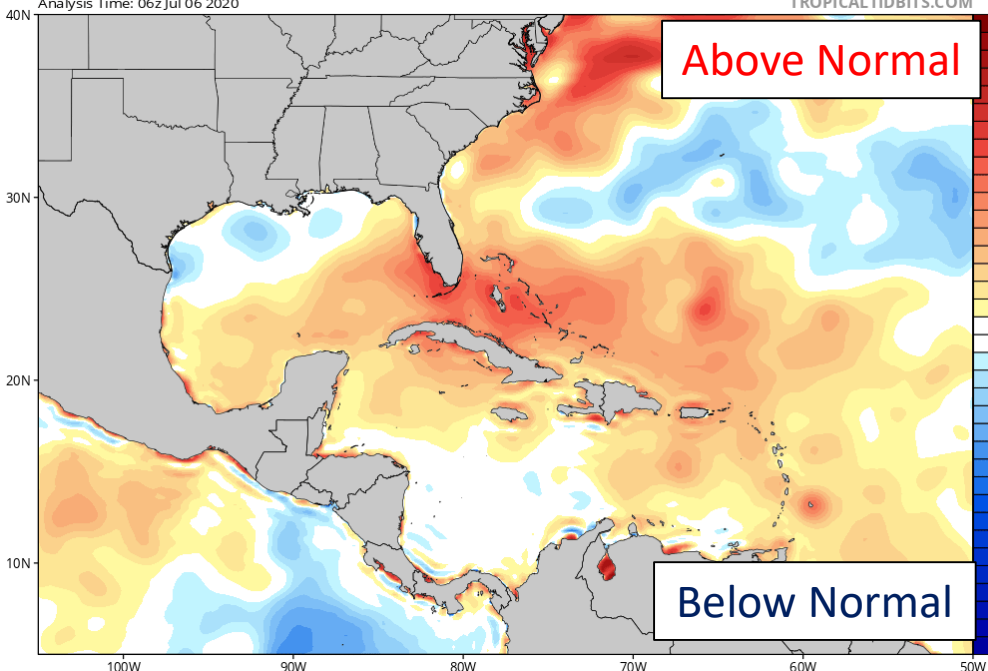
CDAS Sea Surface Temperature (°C)

Analysis Time: 06z Jul 06 2020



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

Analysis Time: 06z Jul 06 2020



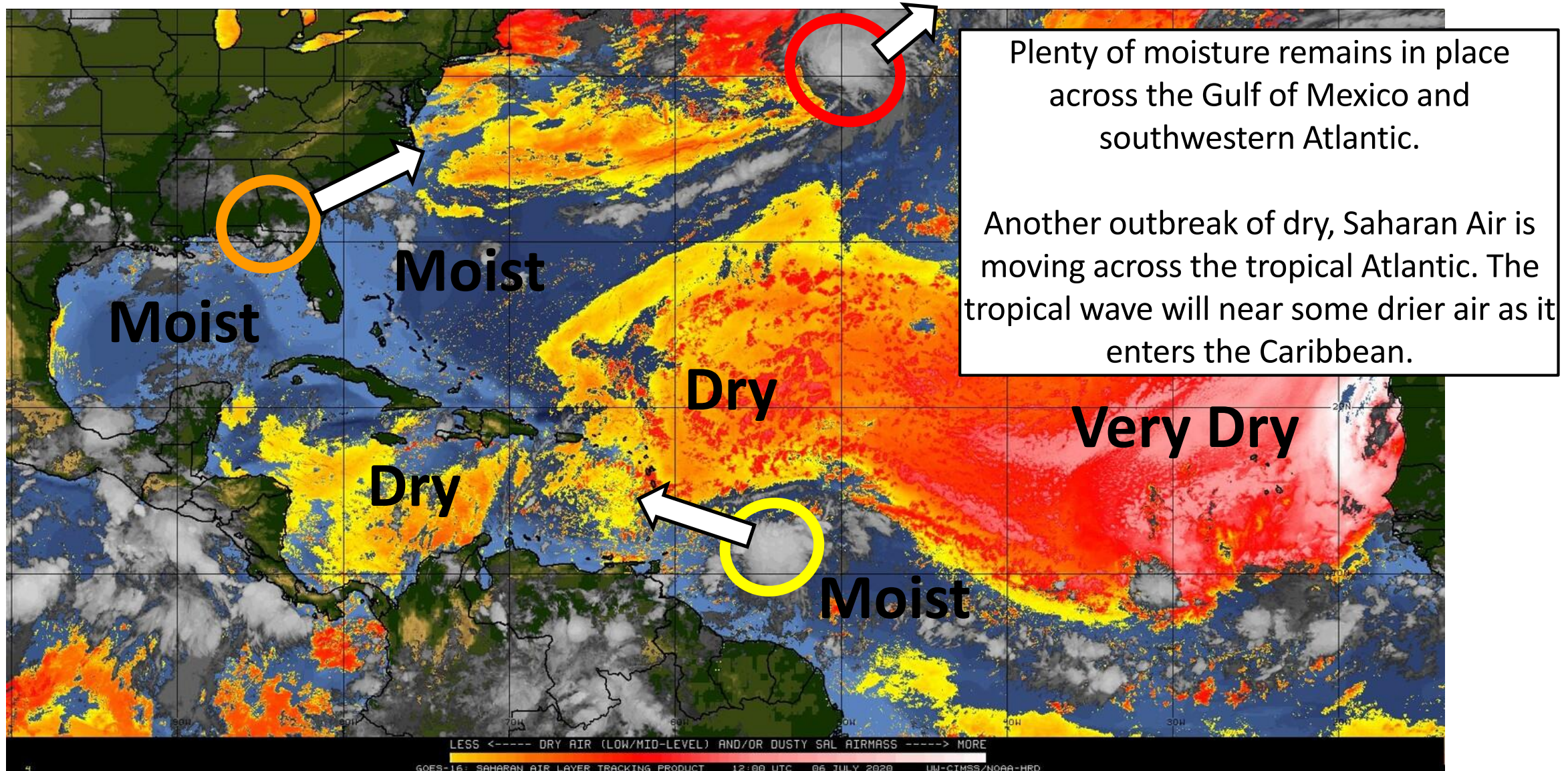




# Dry Air & Saharan Dust

Is the environment favorable for the system?

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

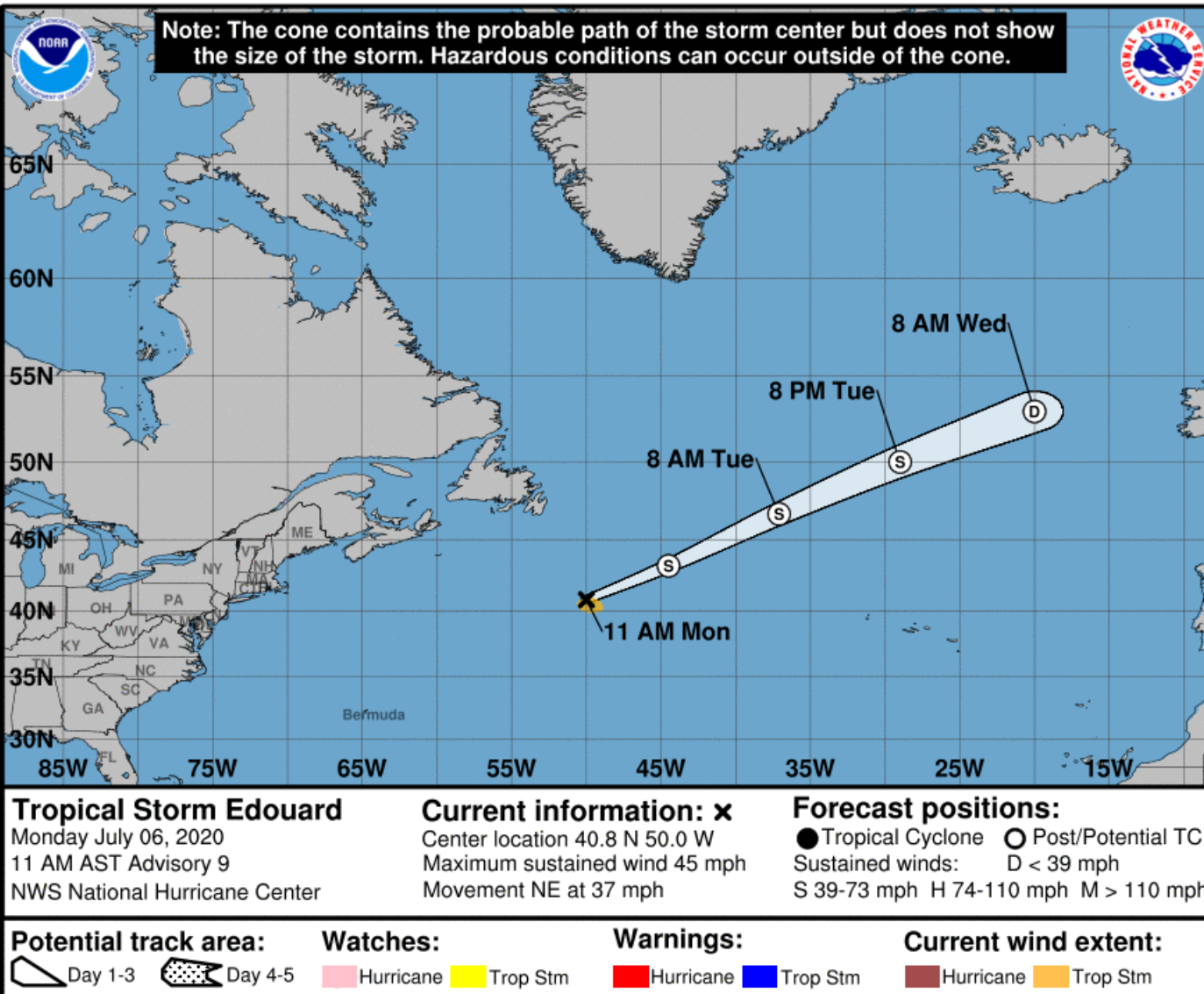






# Official Forecast Track

From the National Hurricane Center



- The center of Tropical Storm Edouard is located about 435 miles south-southeast of Newfoundland.
- Maximum sustained winds are near 45 mph.
- Edouard is moving very quickly to the northeast at 37 mph.
- The system will move over the frigid waters of the North Atlantic later today and the system will dissipate on Tuesday.



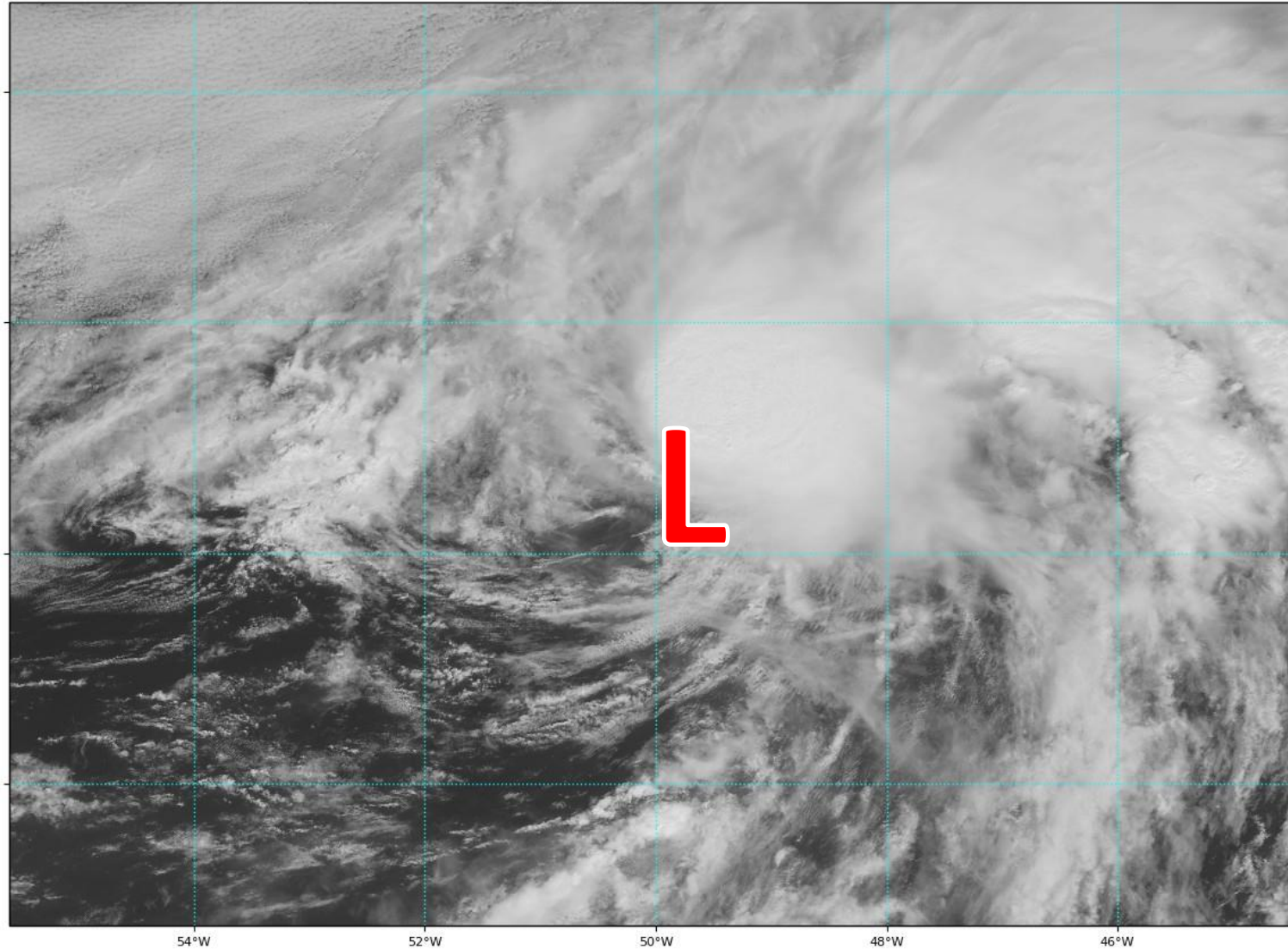


# Satellite Imagery

## Tropical Storm Edouard

GOES-16 Channel 2 (visible) Reflectance at 14:05Z Jul 06, 2020

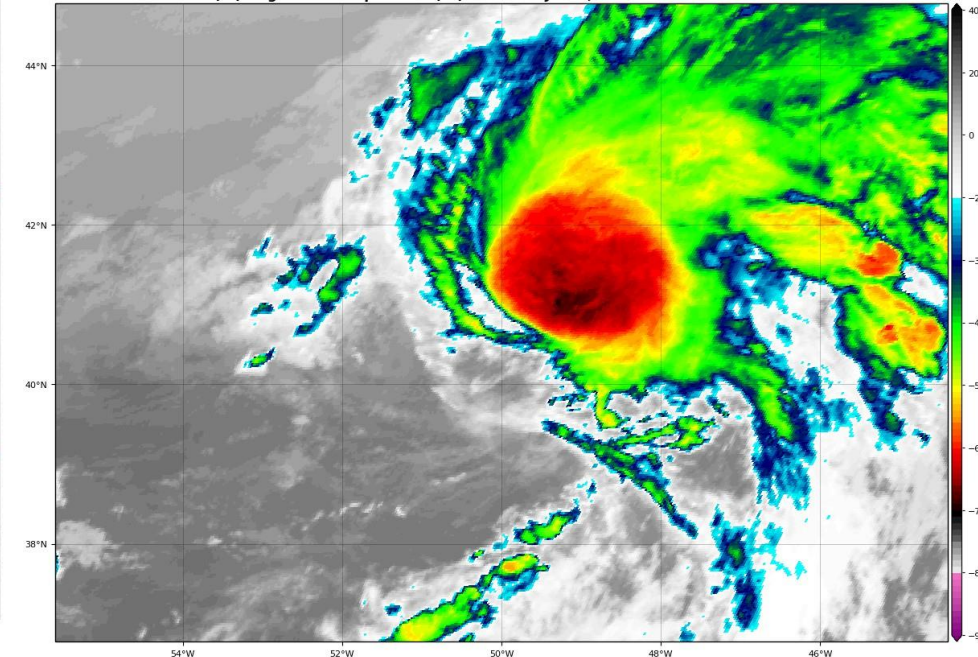
TROPICALTIDBITS.COM



Tropical Storm Edouard remains tiny and compact with most of the thunderstorms to the northeast of the center as wind shear is increasing for the system.

GOES-16 Channel 13 (IR) Brightness Temperature (°C) at 14:15Z Jul 06, 2020

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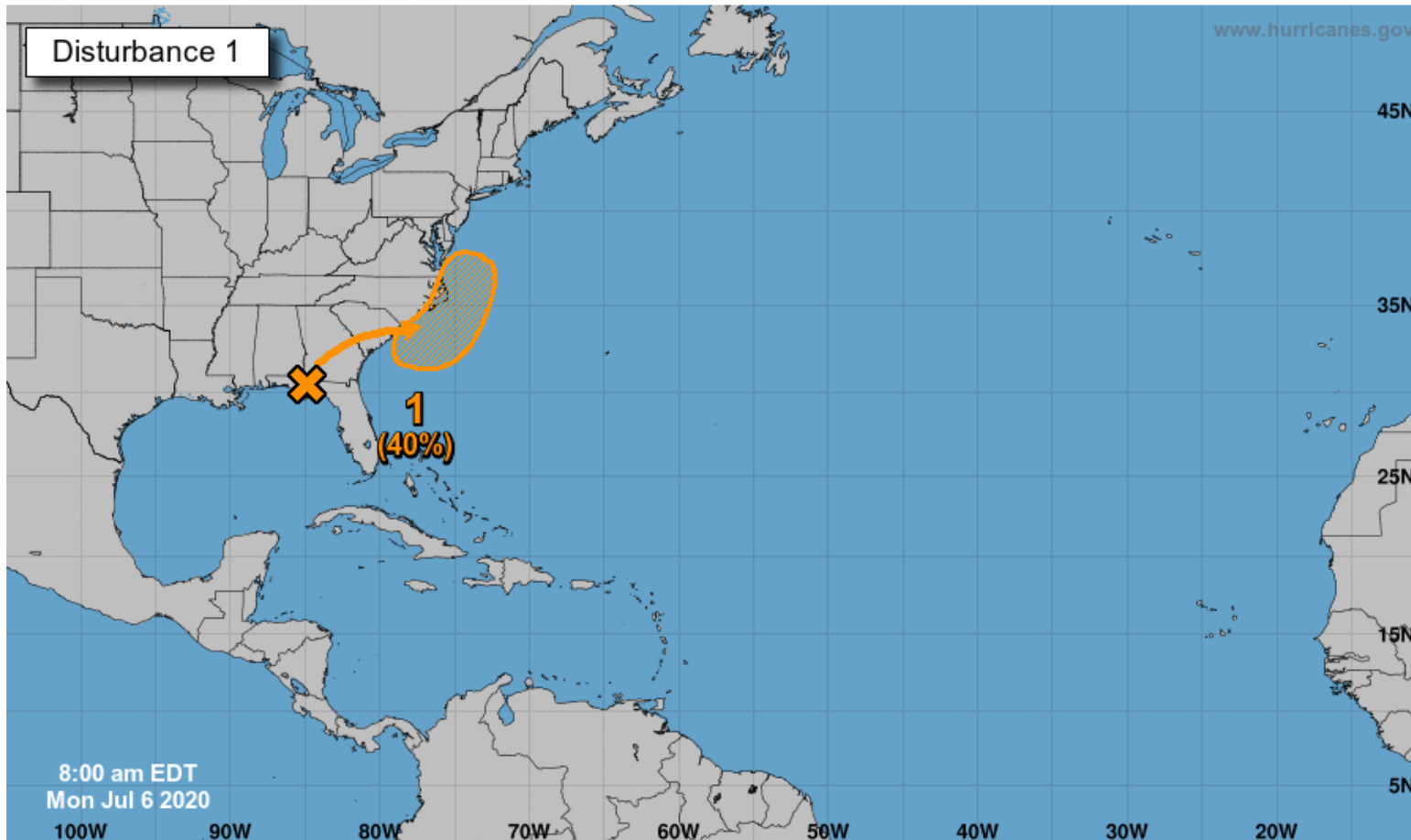
# Tropical Weather Outlook

Possible Areas of Development During the Next 5 Days ([LINK](#))



## Five-Day Graphical Tropical Weather Outlook

National Hurricane Center Miami, Florida



A small low pressure system has moved inland over the Florida panhandle. The small low is forecast to evolve into a larger low pressure system and move northeastward, near the coast of the Carolinas.

**Since the low is currently over land, no development is expected today or tomorrow.**

However, some development will be possible if the system moves back over water on Wednesday or Thursday.

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

**\*Formation chance through 5 days...medium...40 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



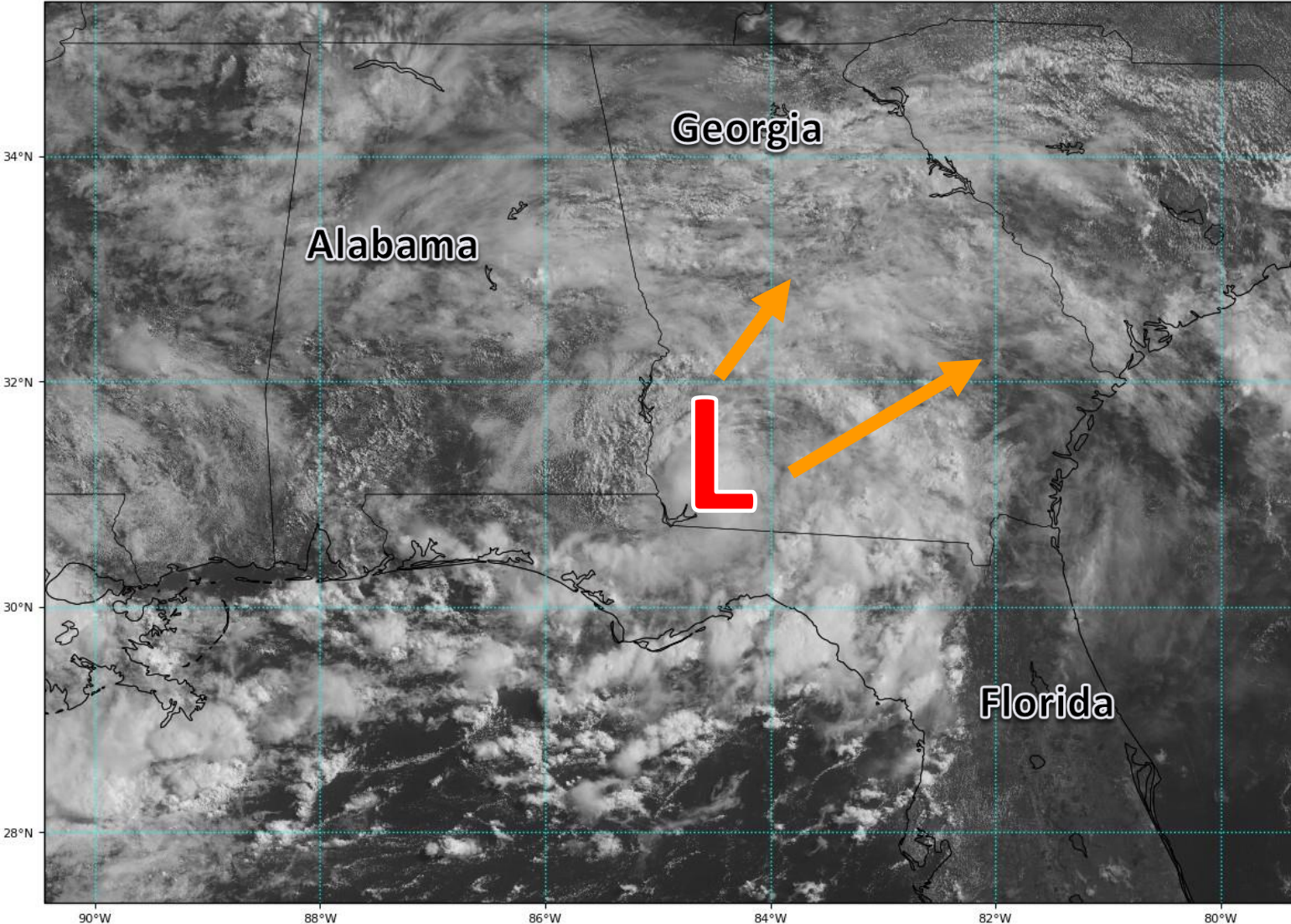


# Satellite Imagery

Invest 98L (40%)

GOES-16 Channel 2 (visible) Reflectance at 14:22Z Jul 06, 2020

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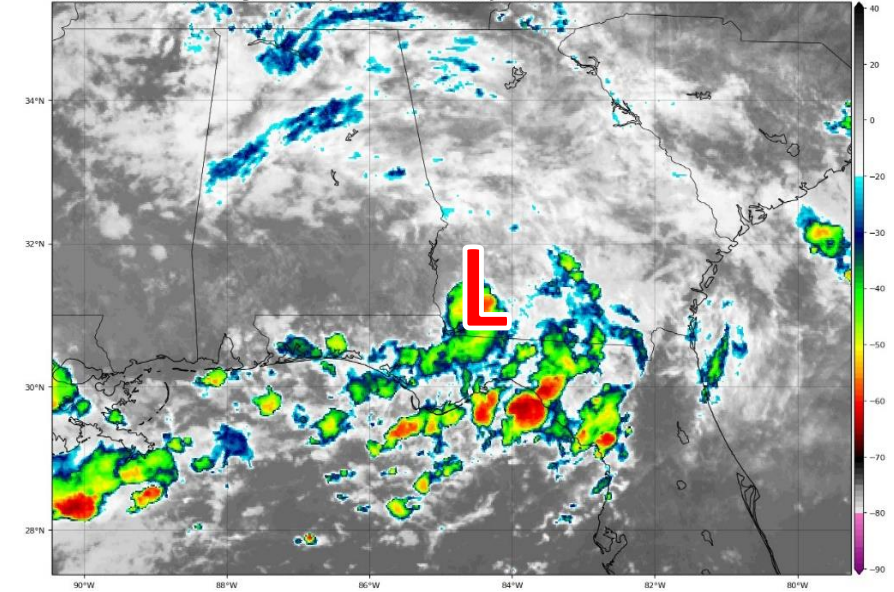


A weak area of low pressure developed yesterday along the stationary front that has been across the northern Gulf of Mexico for the last few days.

It moved north and move inland over the Florida Panhandle this morning bringing widespread showers and thunderstorms to North Florida.

GOES-16 Channel 13 (IR) Brightness Temperature (°C) at 14:22Z Jul 06, 2020

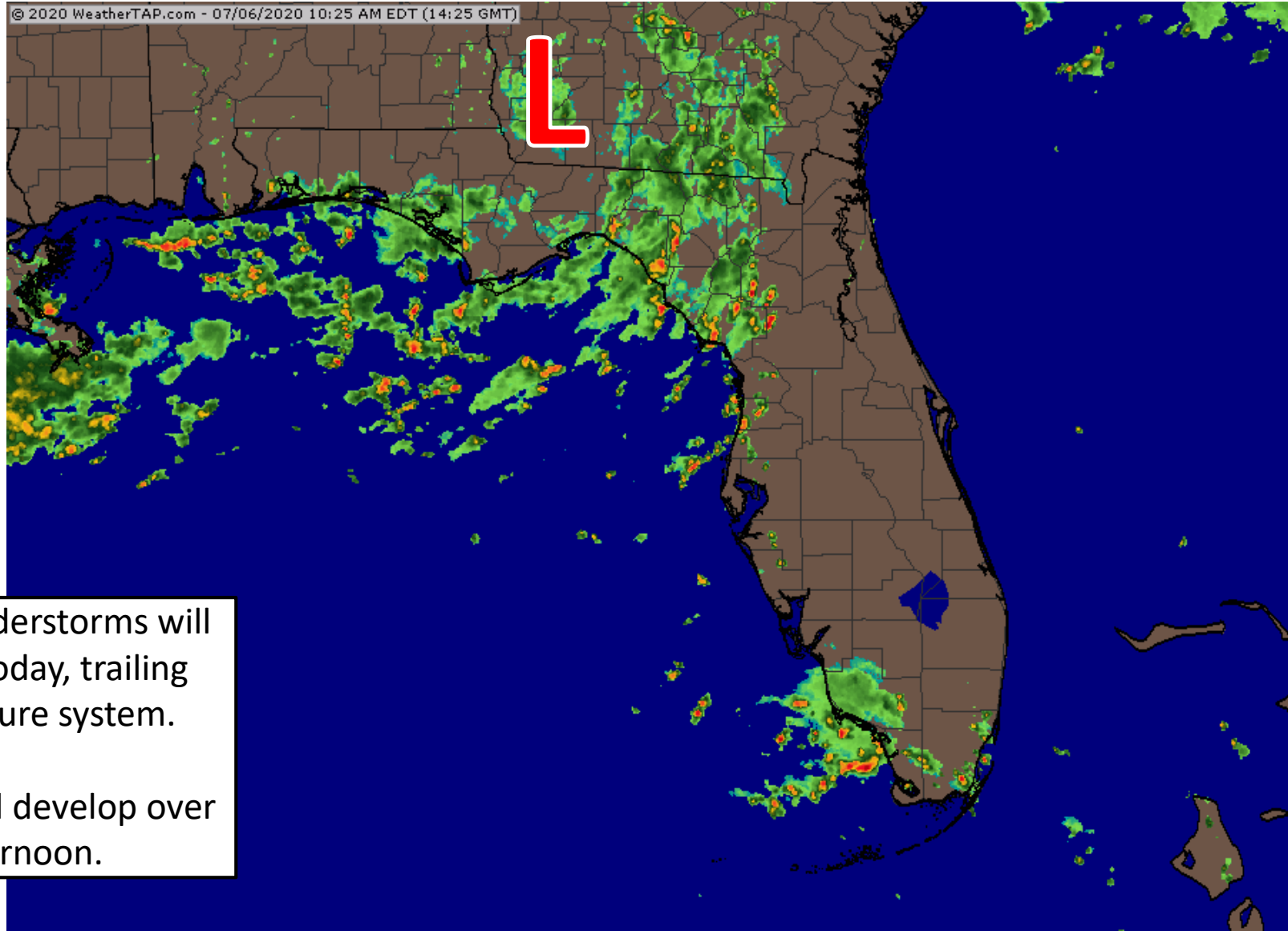
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# Current Florida Radar

As of 10:30 AM ET / 9:30 AM CT



Rounds of showers and thunderstorms will track across North Florida today, trailing behind the weak low pressure system.

Additional thunderstorms will develop over the Peninsula this afternoon.





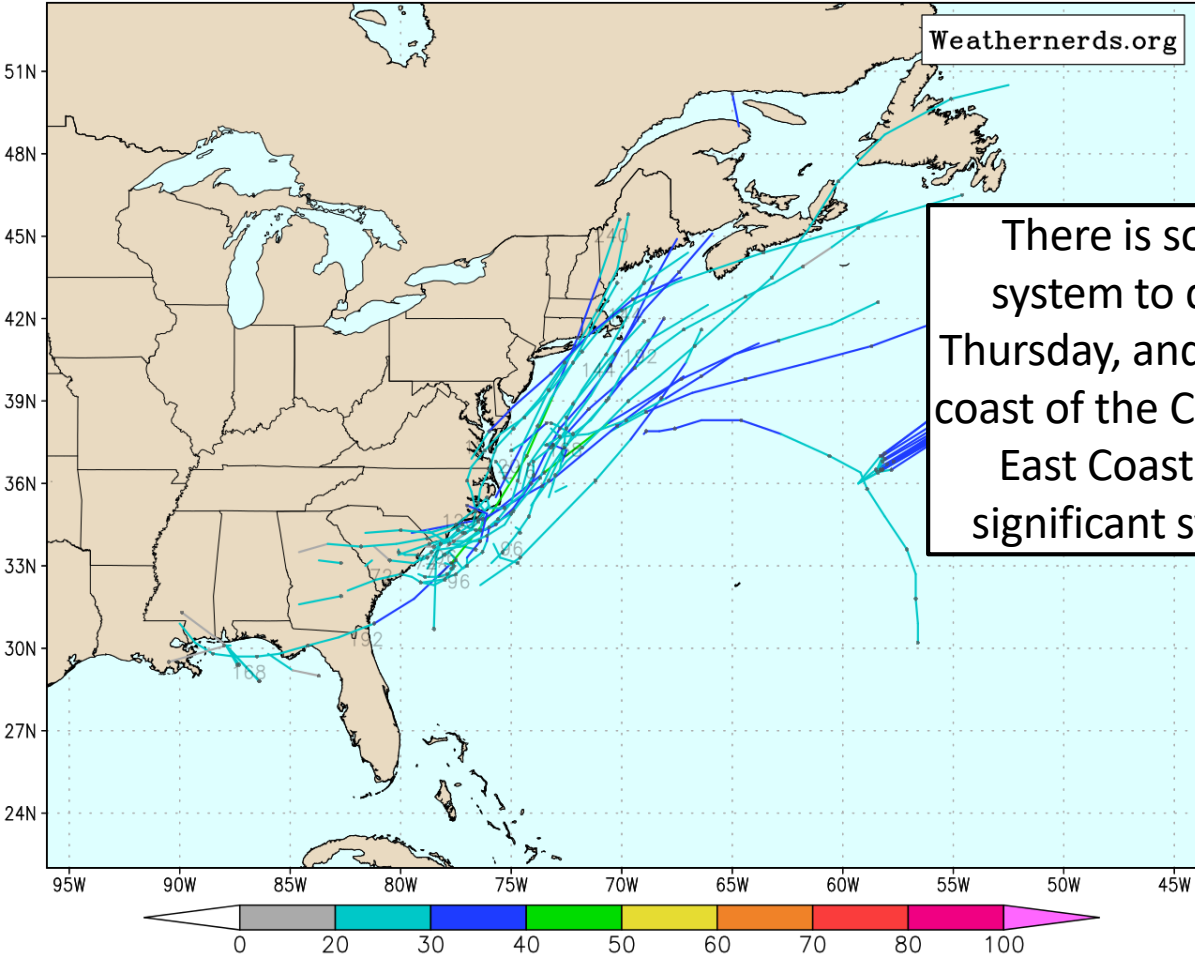
# Model Forecast Tracks

## Ensembles, Dynamical, and Statistical Models

ECMWF Ensemble, init: 2020070600, AL98 Invest

color = max wind (kt)

Weathernerds.org

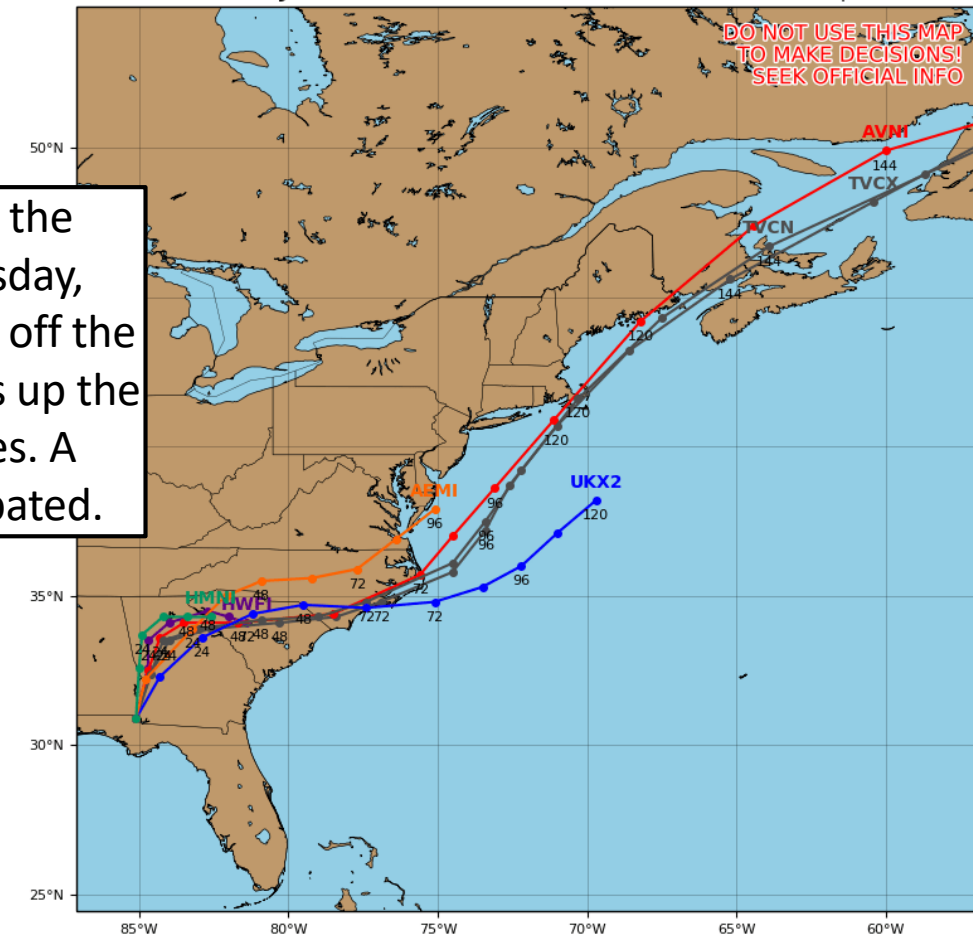


There is some opportunity of the system to develop on Wednesday, Thursday, and Friday as it moves off the coast of the Carolinas and moves up the East Coast of the United States. A significant system is not anticipated.

### Invest 98L Model Track Guidance

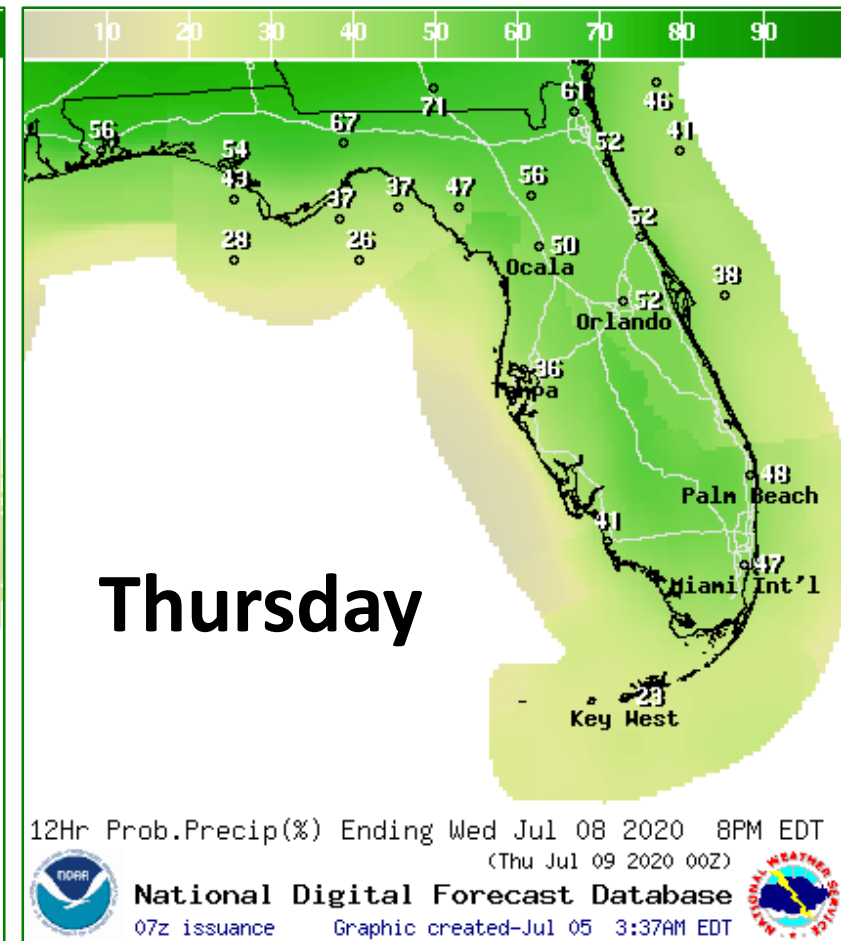
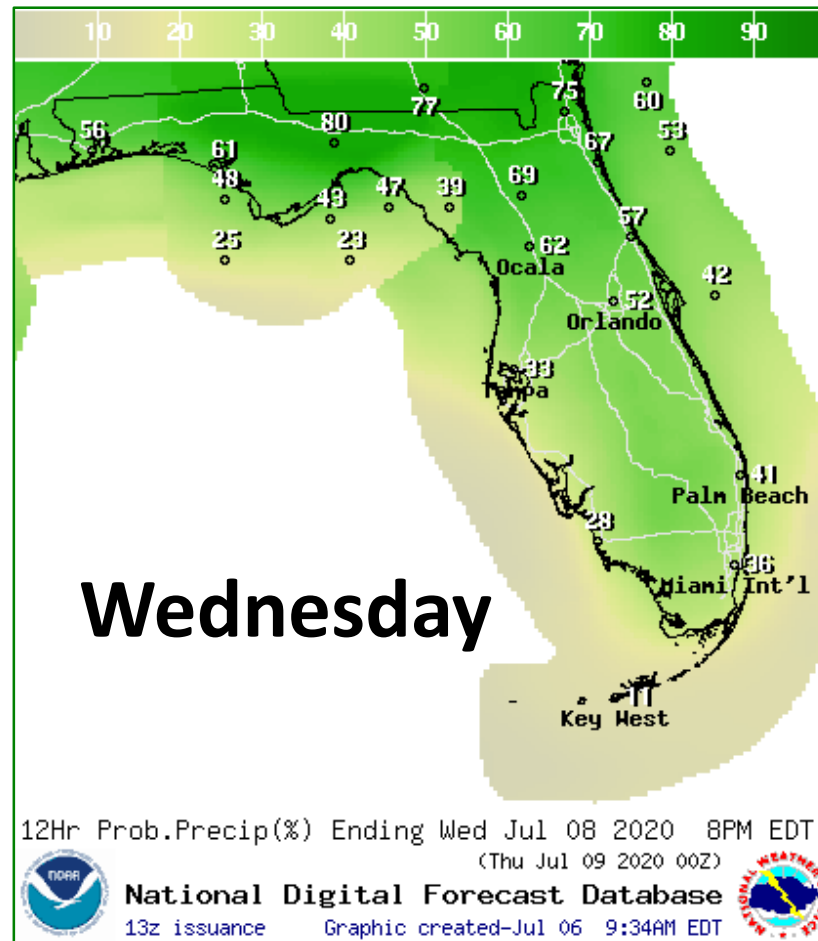
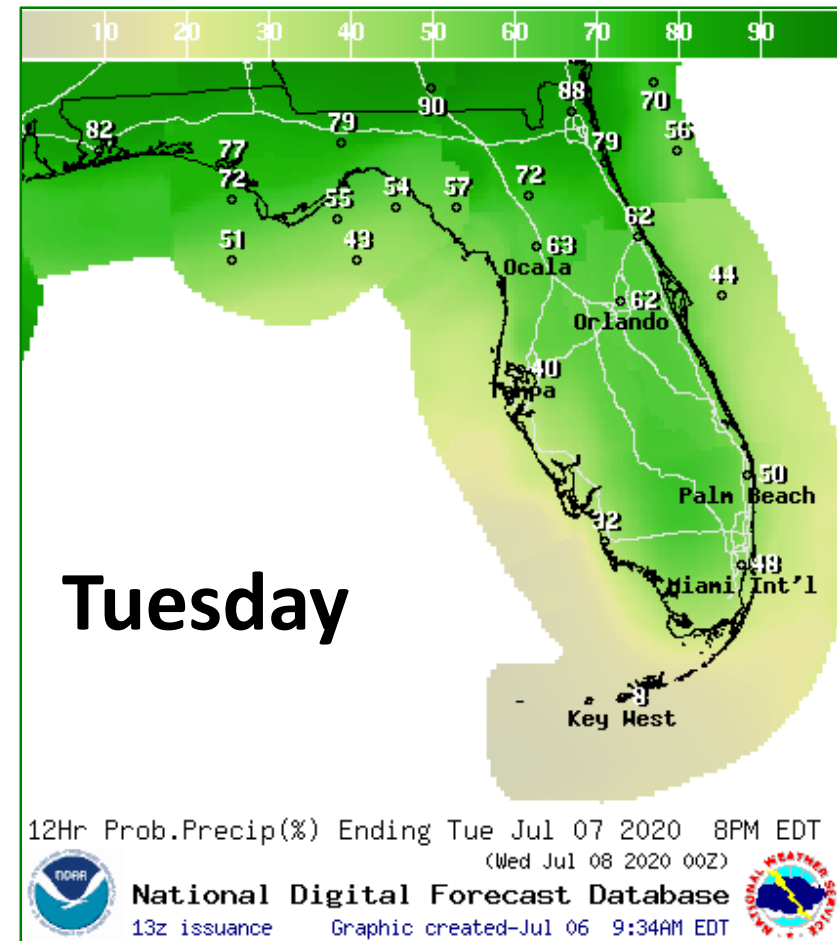
Initialized at 12z Jul 06 2020

Levi Cowan - tropicaltidbits.com





# Rain Chances This Week



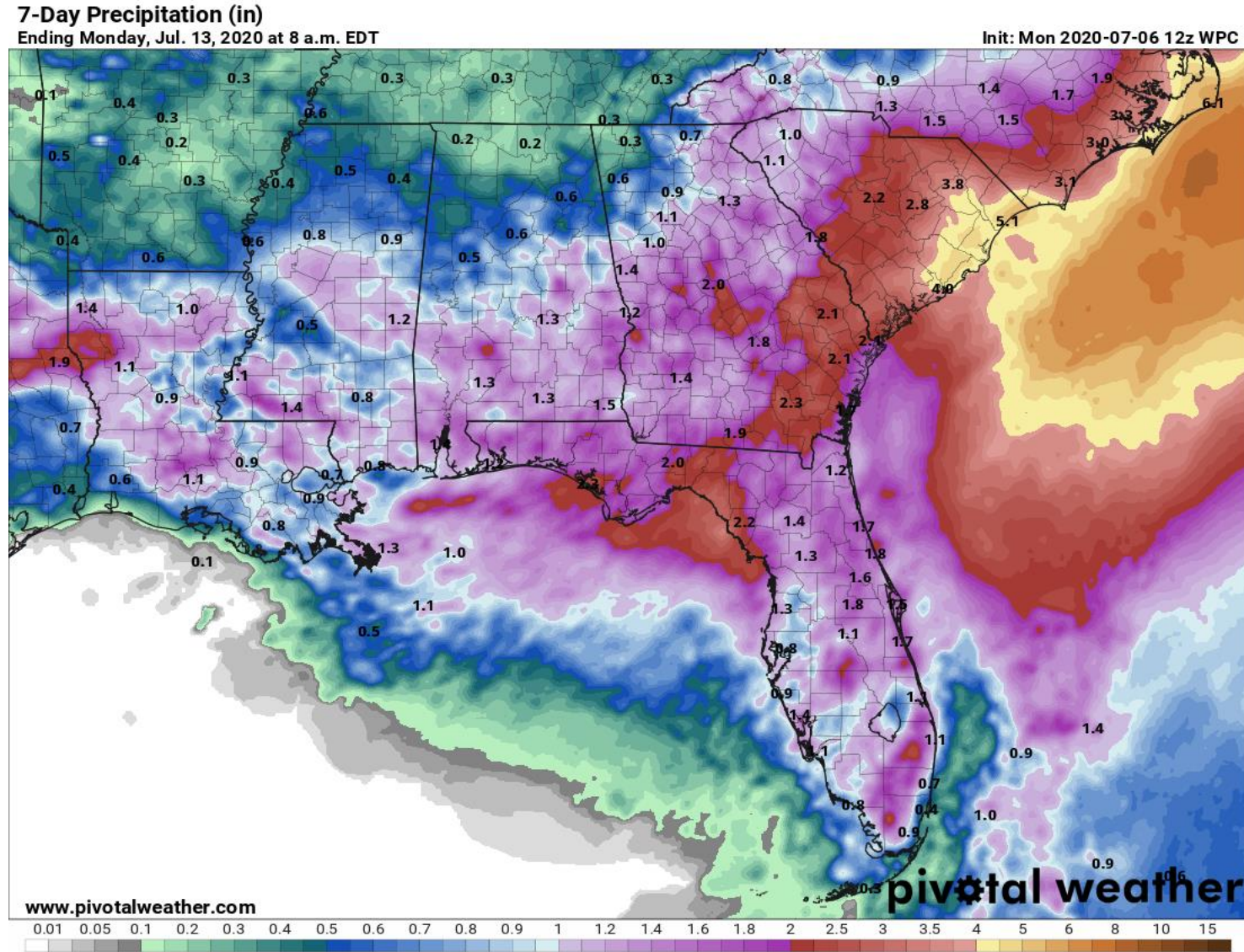
**Widespread rain chances continue across the state Tuesday and Wednesday, becoming more typical of the summertime by later in the week.**





# Forecast Rainfall Totals Next 7 Days

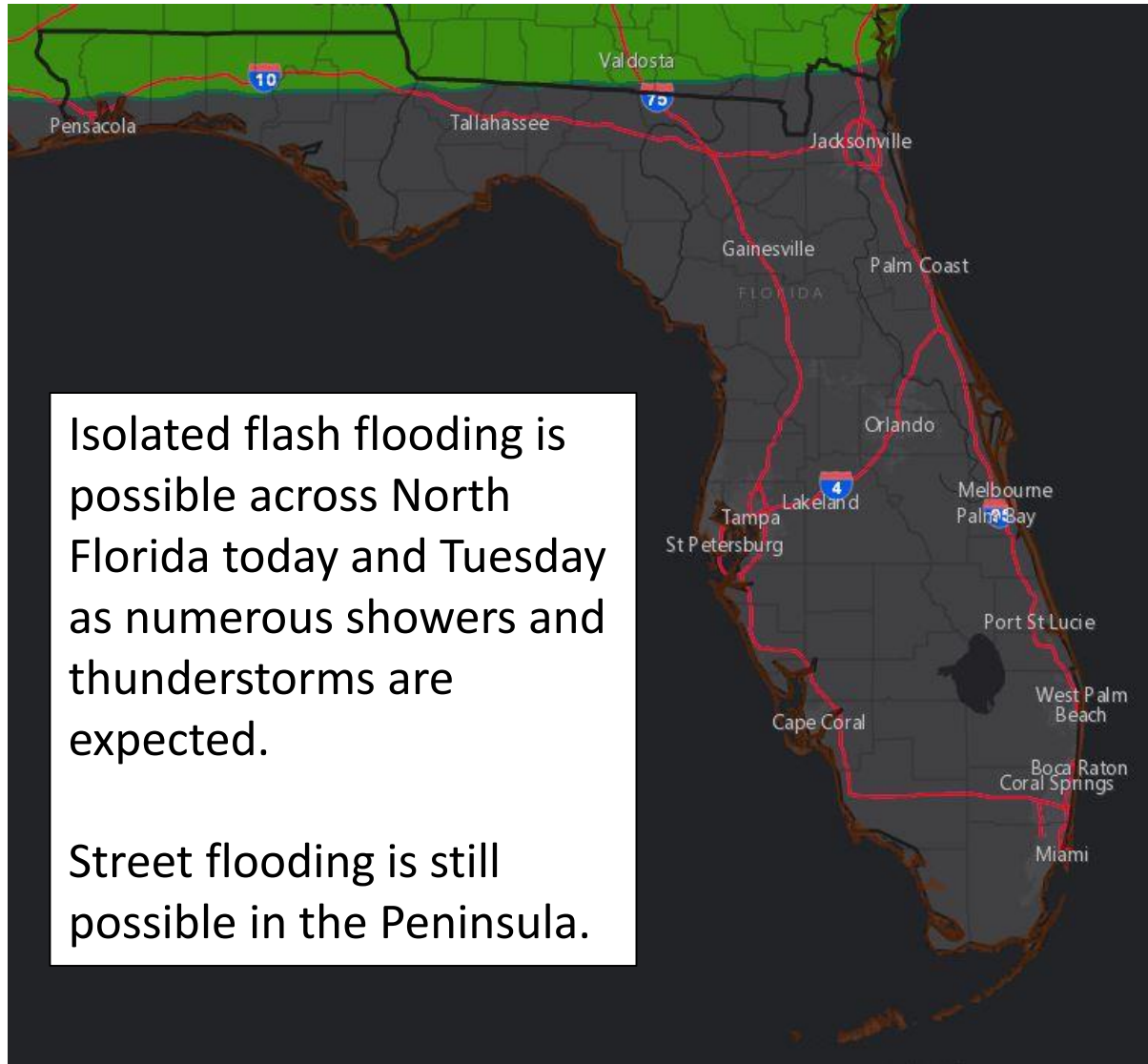
- Additional 1.5-3" across statewide this week
- Locally heavier rainfall amounts possibly double those totals.
- Isolated Flash flooding possible through the next few days





# Flash Flood Outlook

From the Weather Prediction Center ([LINK](#))



Isolated flash flooding is possible across North Florida today and Tuesday as numerous showers and thunderstorms are expected.

Street flooding is still possible in the Peninsula.

## 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
<a href="http://www.wpc.ncep.noaa.gov">@NWSWPC</a>	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	Flash Flooding	Flash Flooding	Flash Flooding
NO Flash Flooding				
WEATHER PREDICTION CENTER				

Risk of rainfall exceeding flash flood guidance within 25 miles of a point to the right of a line

**HIGH: > 50%**

**SLGT: 10%-20%**

**MDT: 20%-50%**

**MRGL: 5%-10%**





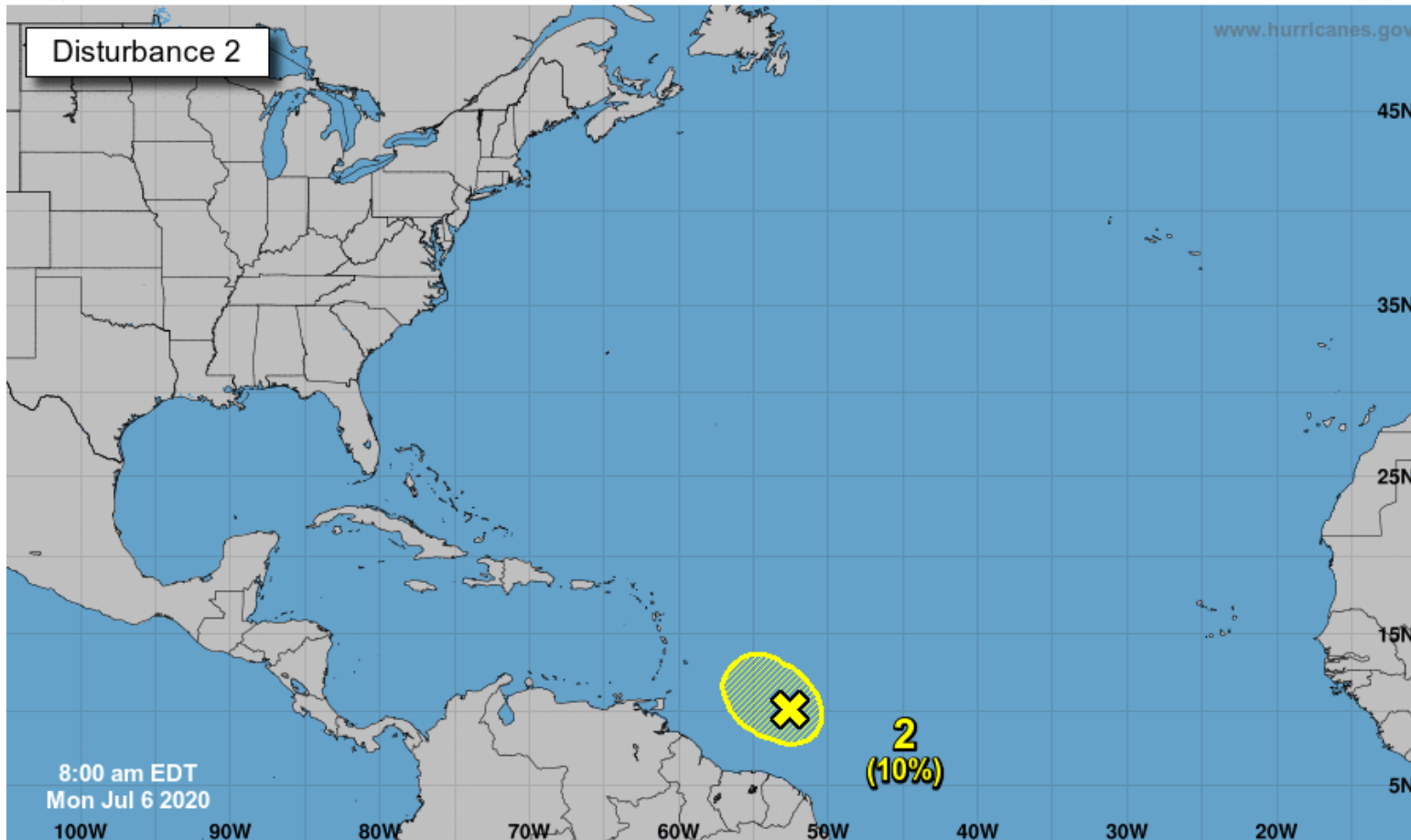
# Tropical Weather Outlook

Possible Areas of Development During the Next 5 Days ([LINK](#))



## Five-Day Graphical Tropical Weather Outlook

National Hurricane Center Miami, Florida



A tropical wave continues to produce disorganized showers and thunderstorms several hundred miles east of the Windward Islands.

Some slight development of this system is possible today before environmental conditions become hostile for development on Tuesday.

The wave is forecast to move through the Lesser Antilles on Tuesday and could produce locally heavy rainfall and gusty winds on some of those islands.

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

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

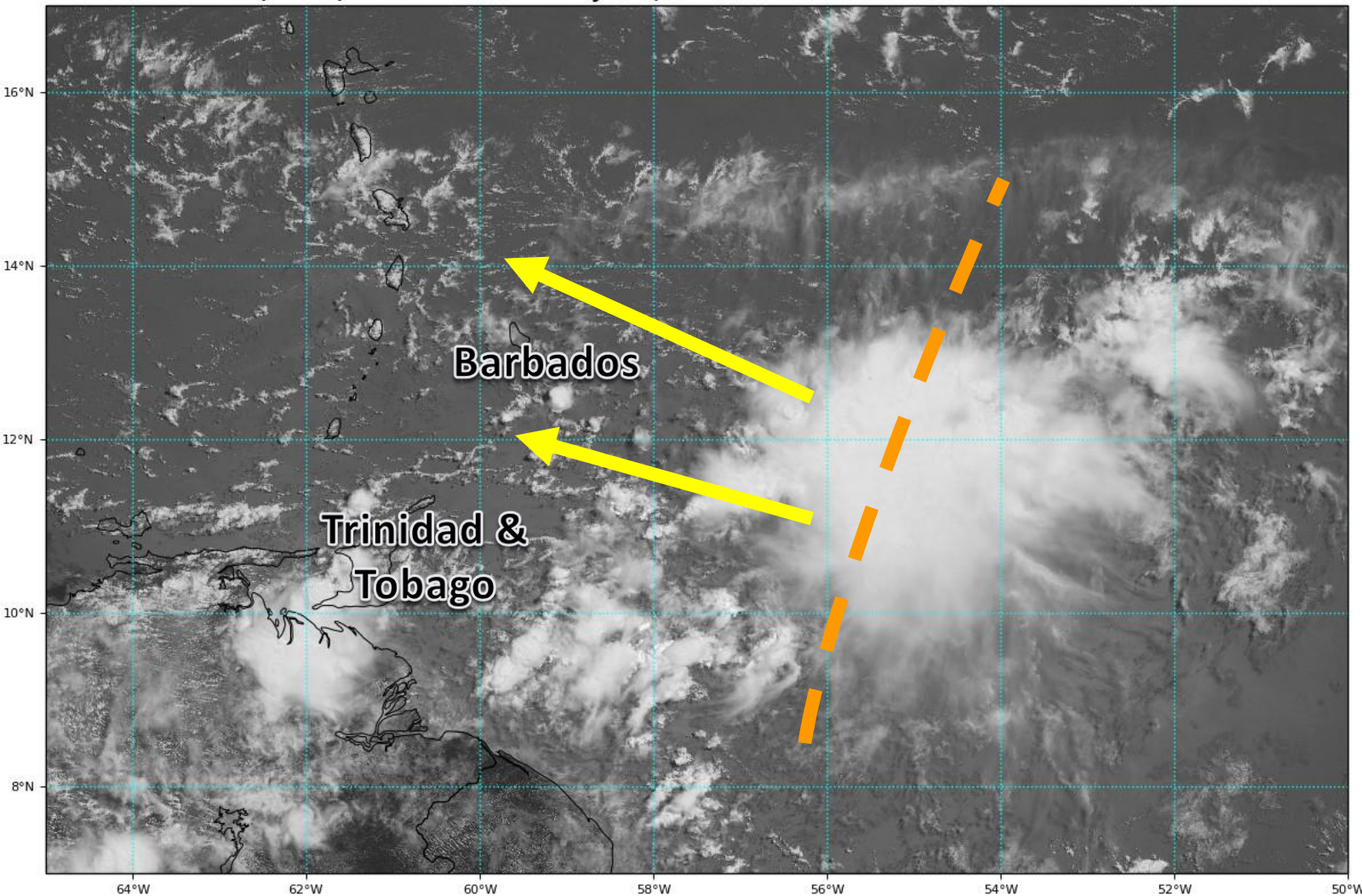


# Satellite Imagery

Invest 98L (40%)

GOES-16 Channel 2 (visible) Reflectance at 14:25Z Jul 06, 2020

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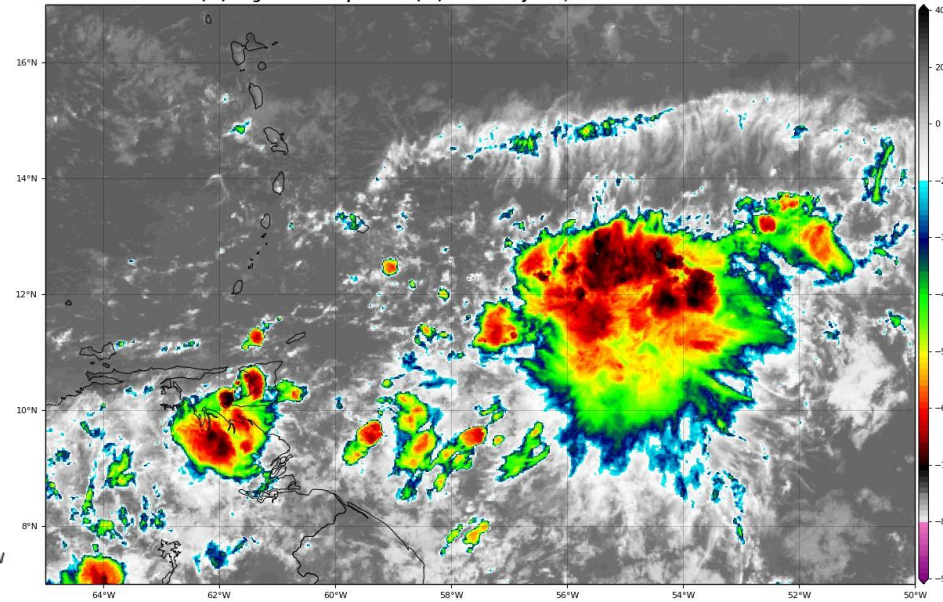


A strong tropical wave is moving towards the Caribbean. While it organized overnight, it is moving into an environment with dry air and increasing wind shear.

Development chances are low and the opportunity is short-lived.

GOES-16 Channel 13 (IR) Brightness Temperature (°C) at 14:25Z Jul 06, 2020

TROPICALTIDBITS.COM

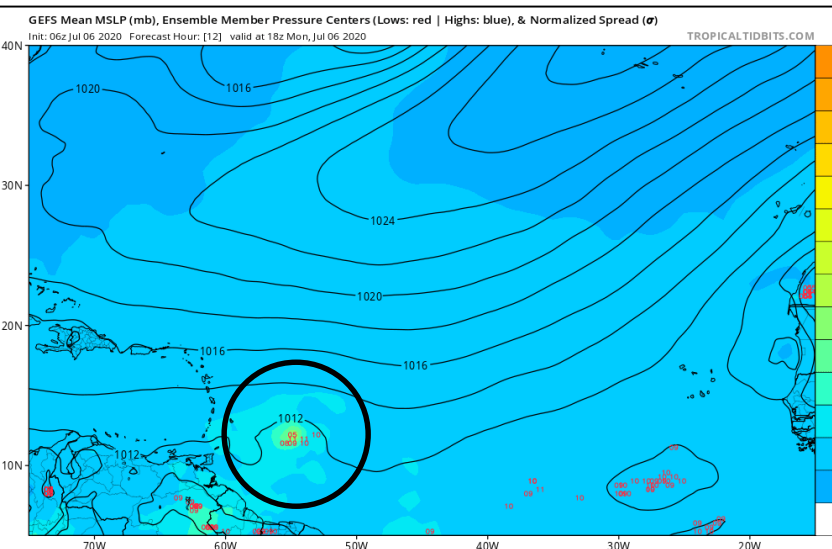




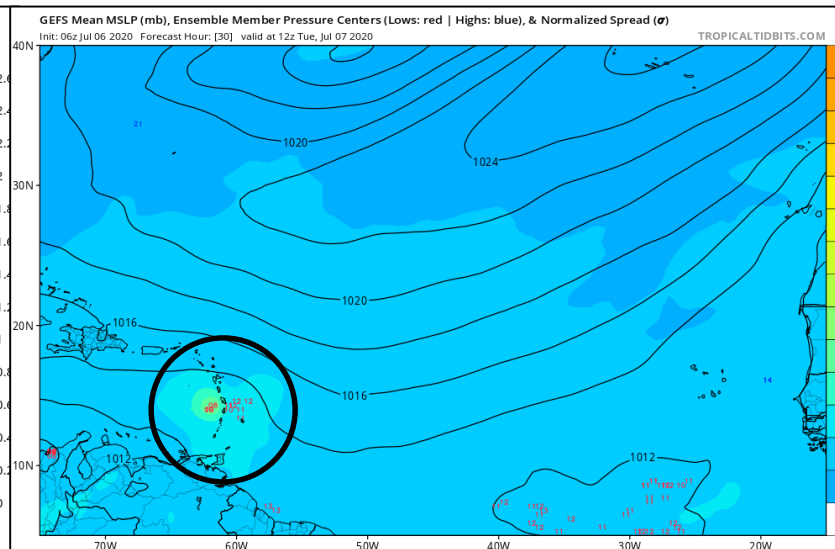


# Model Forecast Tracks

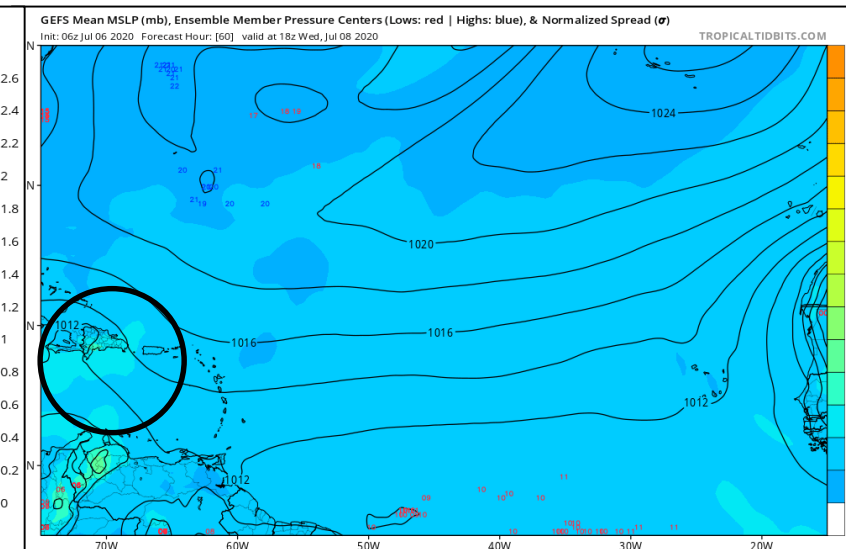
## Ensemble Models



**Monday Afternoon**



**Tuesday Morning**



**Wednesday**

Most models are not developing this system. The ones that do show development keep the system rather weak and short lived, likely due to the presence of dry air and strong wind shear as it quickly moved into the Caribbean.

It may then interact with land in the Greater Antilles, further limiting development chances.



# Overall Summary

## Tropical Storm Edouard

- Edouard is located about 435 miles south-southeast of Newfoundland and is racing to the northeast at 37 mph.
- Maximum sustained winds are near 45 mph, and no additional strengthening is expected over the next day as it accelerates towards the colder waters of the North Atlantic.
- The system will dissipate on Tuesday and pose no threat to land.

## Invest 98L (Low Pressure Near Florida)

- A weak area of low pressure developed yesterday along the front that has been across the northern Gulf of Mexico for the last few days.
- It moved north and move inland over the Florida Panhandle this morning bringing widespread showers and thunderstorms to North Florida.
- Development is not expected today or Tuesday as it remains inland and moved across Georgia. (10%, low chance of tropical development over the next 48 hours).
- Once the system emerges over the southwestern Atlantic later this week off the coast of the Carolinas, additional development is possible (40%, medium chance of tropical development over the next 5 days).

## Tropical Wave (Near the Lesser Antilles)

- A tropical wave quickly moving towards the Caribbean has a small window of opportunity to develop into in a brief tropical system.
- Dry air and wind shear in the Caribbean will then weak this system starting tomorrow.
- The National Hurricane Center gives the system a 10% (low) chance of development over the next 48 hours and 5 days.

## Florida Outlook:

- **None of these system will have a direct impact on Florida this week.**
- Moisture associated with Invest 98L will keep rain chances high through mid-week across the state, but particularly in North Florida.
- There is a Marginal Risk of Flash Flooding (level 1 of 4) for the next few days across North Florida.
- Gusty winds, small hail, and frequent lightning will also accompany any stronger storms, and a few could be severe each afternoon.
- Heat index values of 100-105 degrees are still possible before any afternoon thunderstorms in the Peninsula.

A short briefing packet will be sent out this afternoon after the 2 PM update. The next, full update will be Tuesday 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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