



# TROPICAL UPDATE



11:00 AM EDT

Monday, July 20, 2020

Texas Low (10%),

Tropical Wave Near the Bahamas (20%),

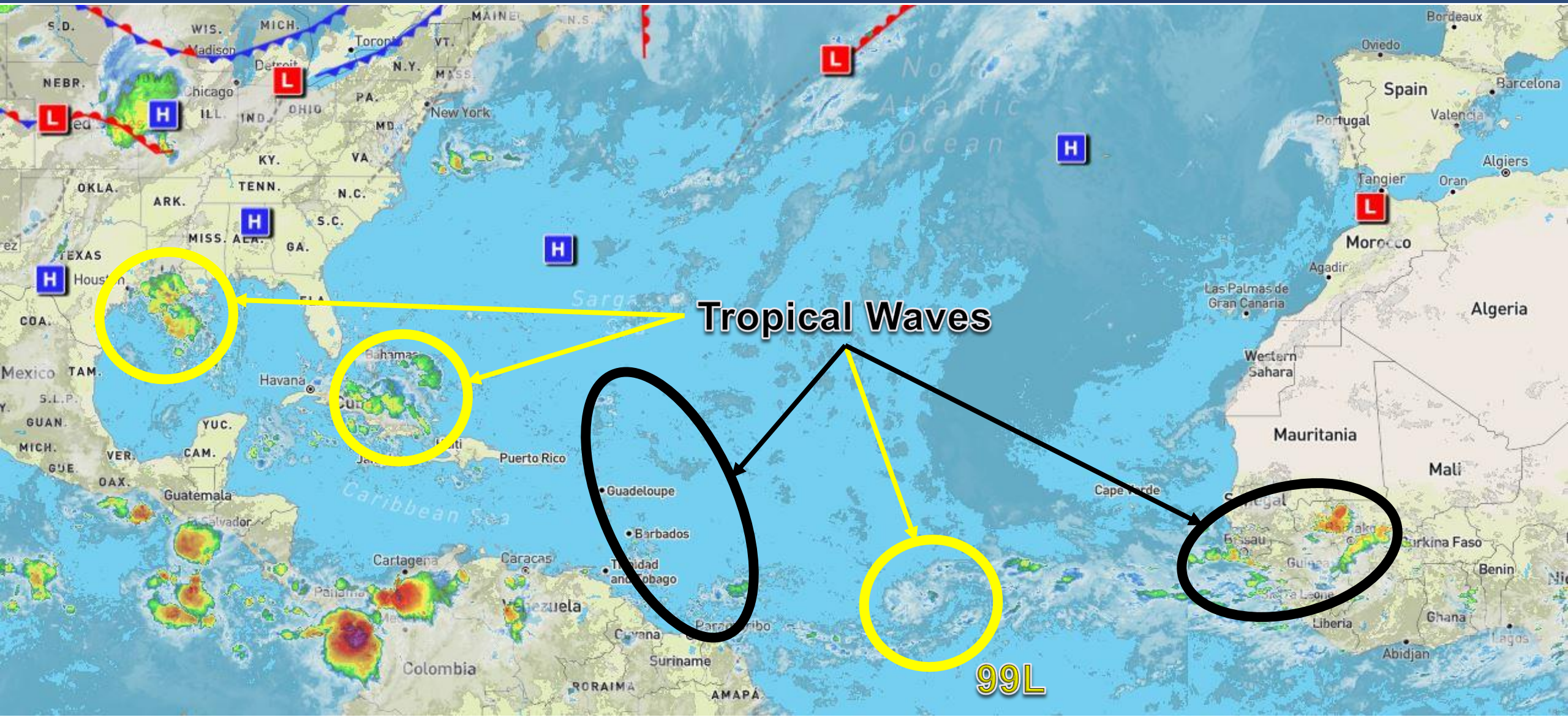
& Invest 99L (20%)

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





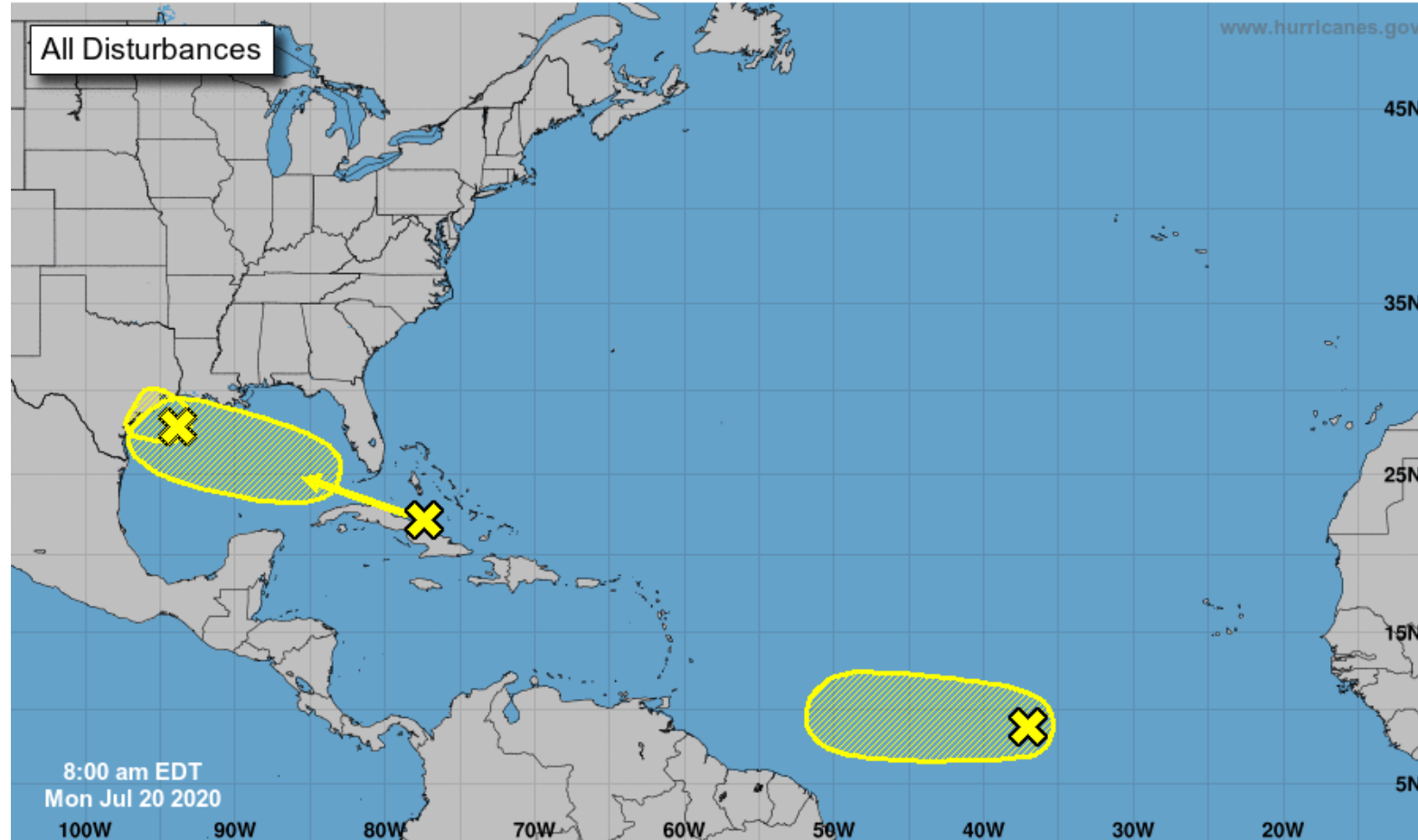


# Tropical Weather Outlook

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

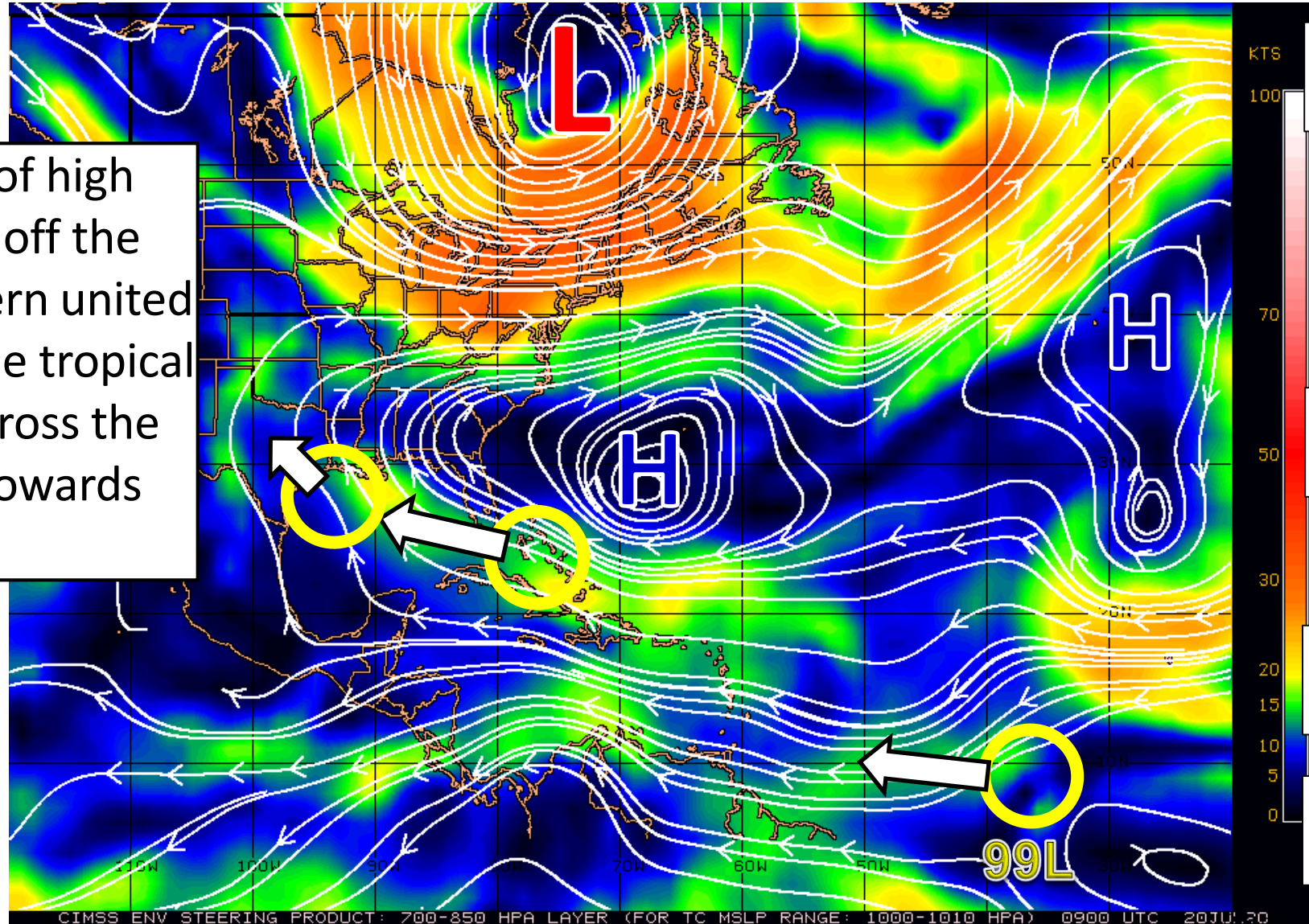


# Steering Currents

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.

A large, strong area of high pressure is centered off the coast of the southeastern United States. This will push the tropical waves to the west, across the Gulf of Mexico and towards Texas.



Fast Moving Storm

Fast Moving Storm

Typical Moving Storm

Slow Moving Storm





# Wind Shear

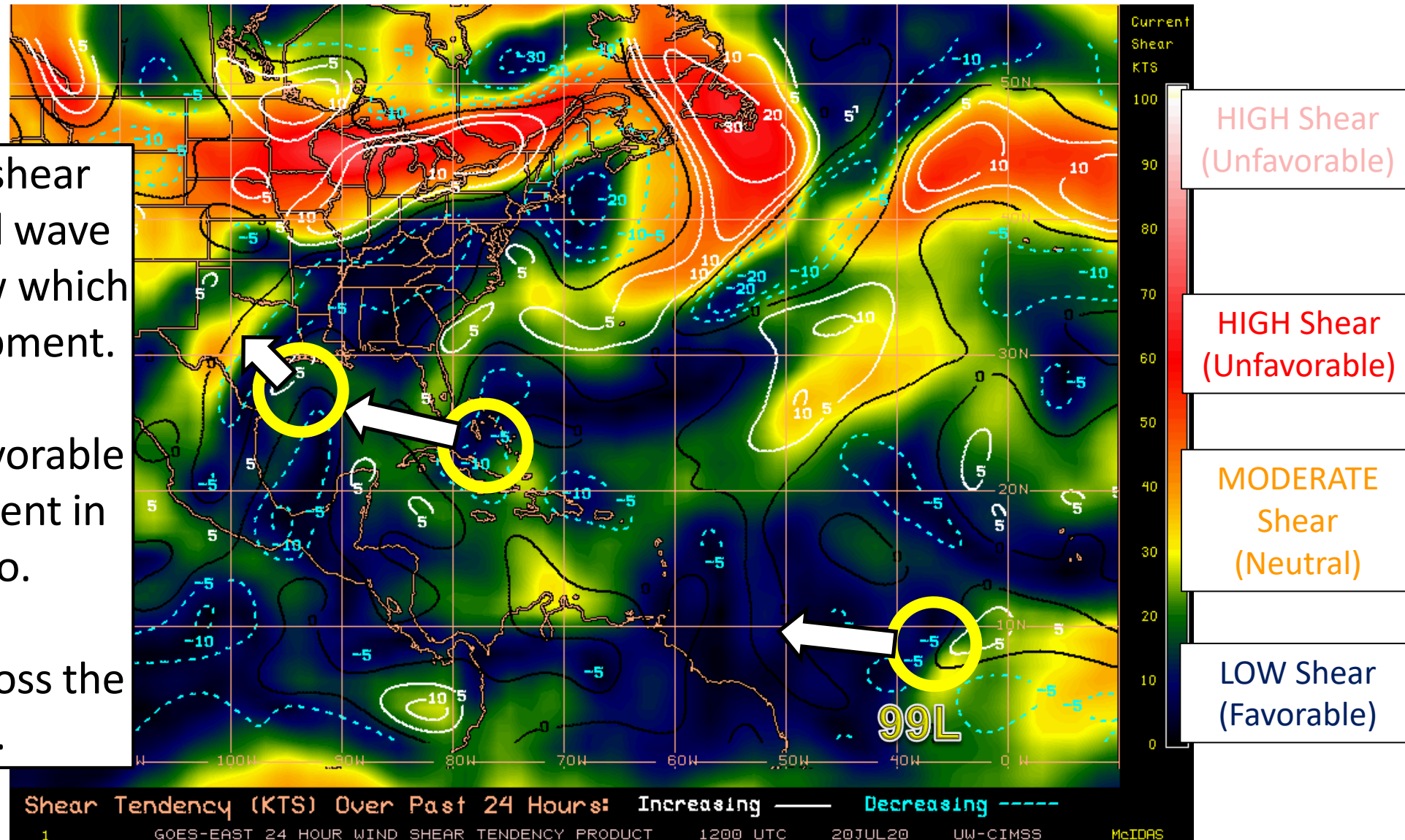
Is the environment favorable for the system?

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).

There is some wind shear impacting the tropical wave near the Bahamas now which is limiting any development.

The environment is favorable for gradual development in the Gulf of Mexico.

Wind shear is light across the tropical Atlantic.



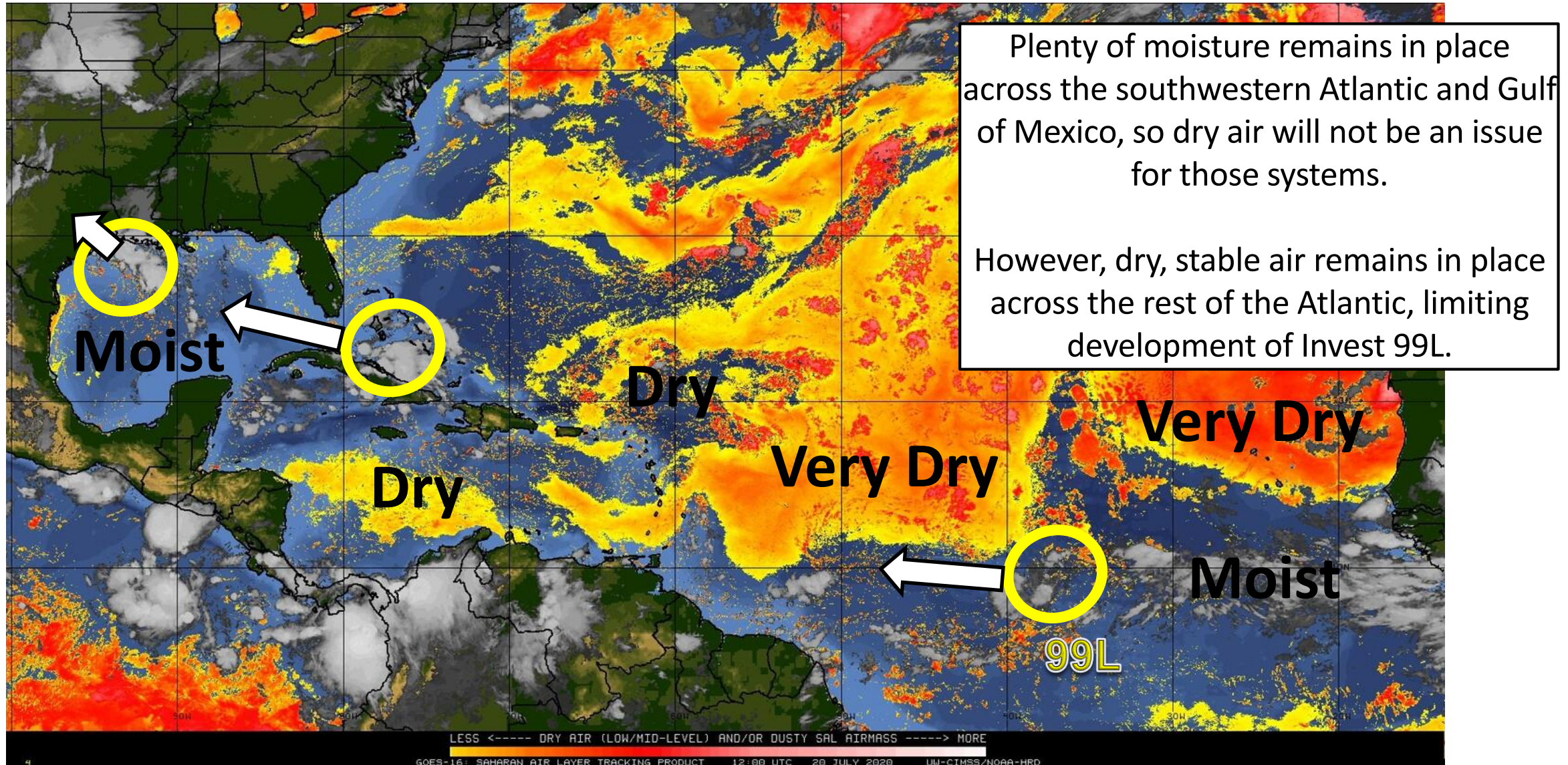




# Dry Air & Saharan Dust

Is the environment favorable for the system?

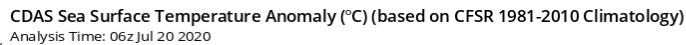
Color denotes concentration of Saharan Dust or dry, stable air.







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





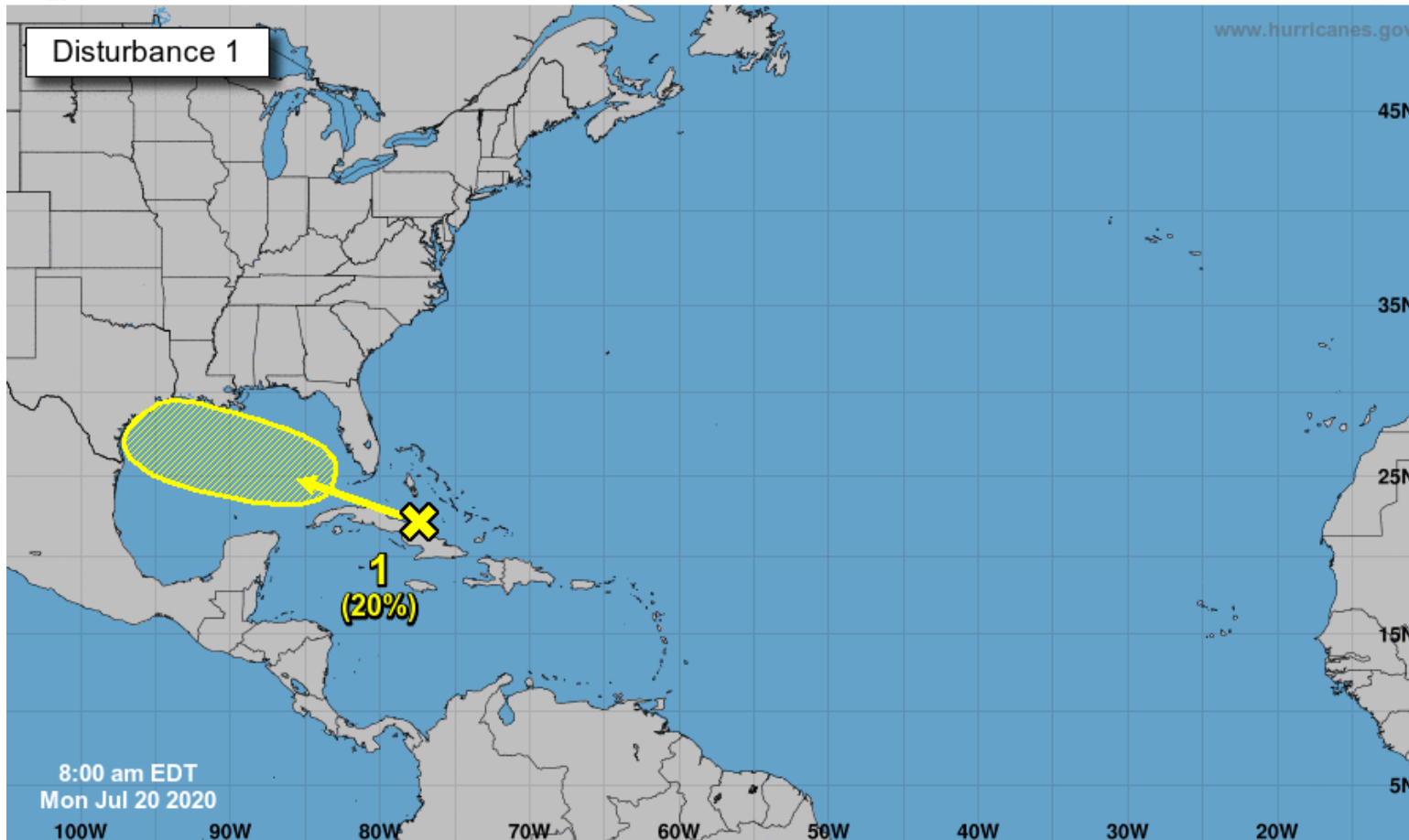
# Tropical Weather Outlook

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



## Five-Day Graphical Tropical Weather Outlook

National Hurricane Center Miami, Florida



8:00 am EDT  
Mon Jul 20 2020

Current Disturbances and Five-Day Cyclone Formation Chance:   
X < 40%    X 40-60%    X > 60%  
Tropical or Sub-Tropical Cyclone:    ○ Depression    ○ Storm    ○ Hurricane  
⊗ Post-Tropical Cyclone or Remnants

A tropical wave located near Cuba and the Bahamas will move across South Florida and the Keys over the next 48 hours. Increased rain chances are expected, but environmental conditions are not favorable for development.

Once the system moves into the Gulf of Mexico later this week, conditions will improve and some gradual organization is possible as the system moves towards Texas and Louisiana.

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

**\*Formation chance through 5 days...low...20 percent.**

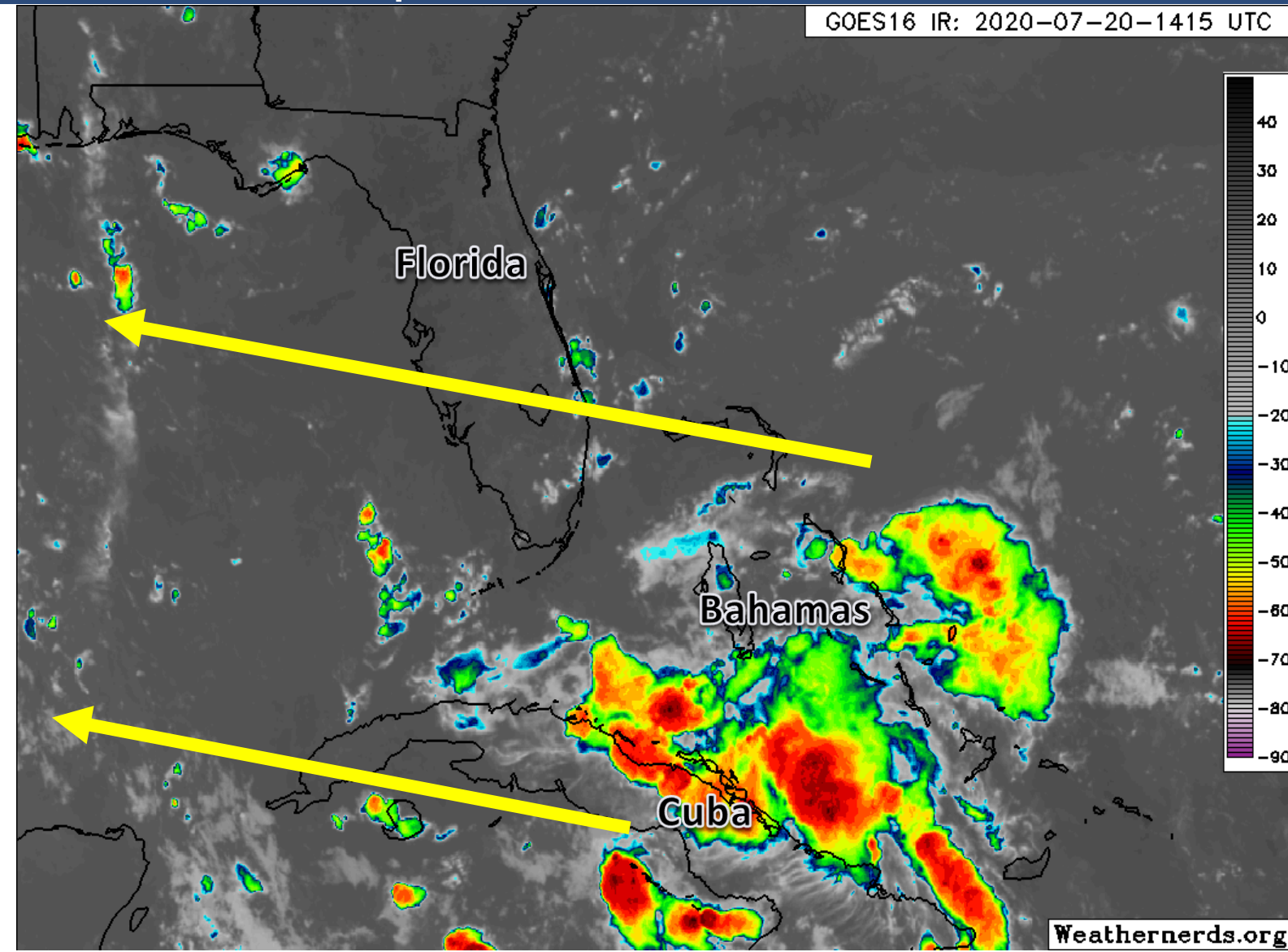




# Satellite Imagery

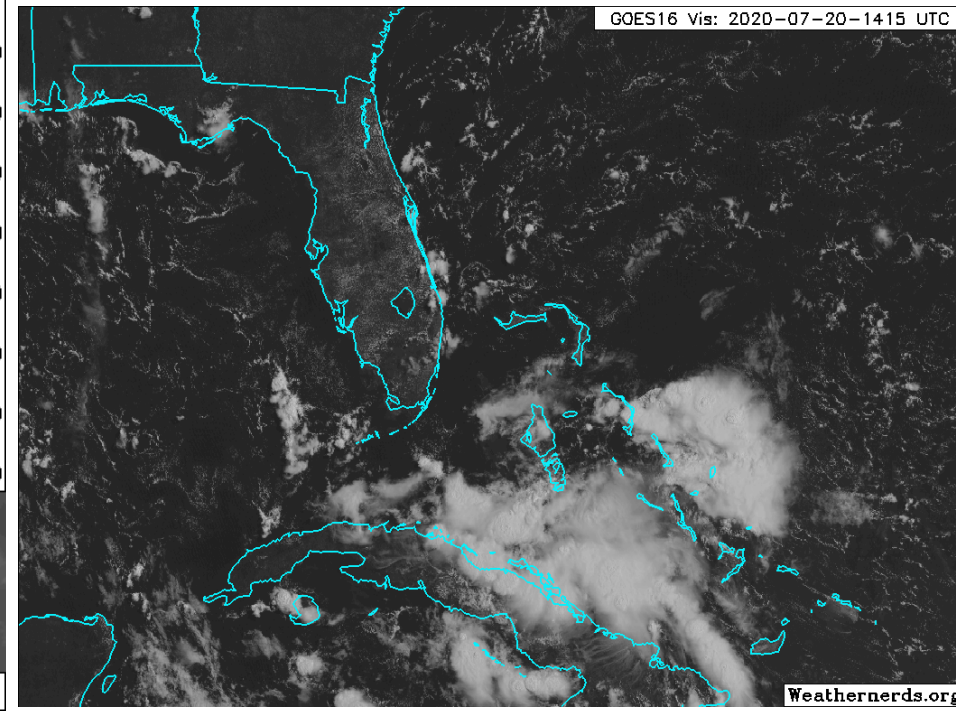
## Tropical Wave near the Bahamas

GOES16 IR: 2020-07-20-1415 UTC



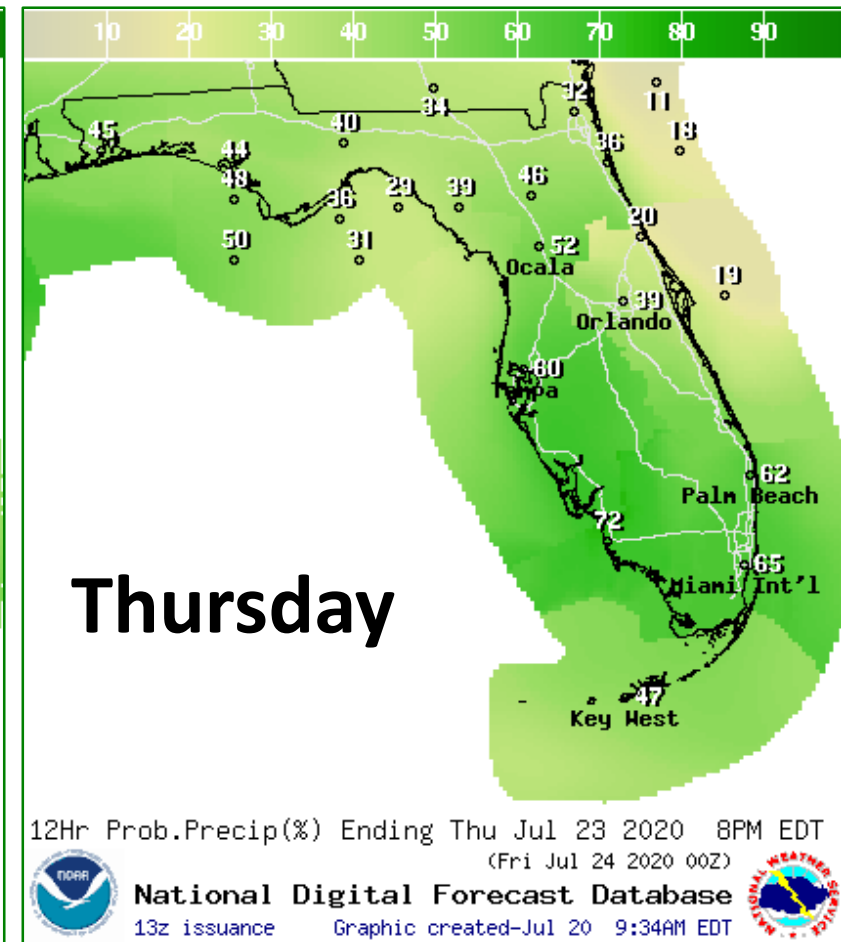
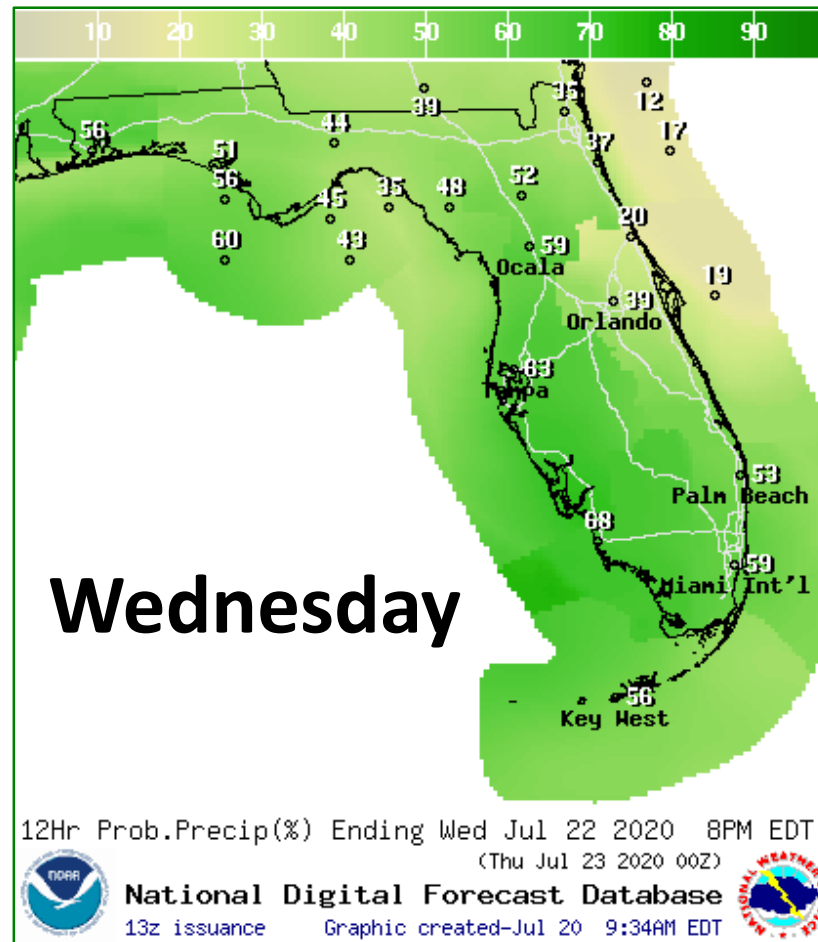
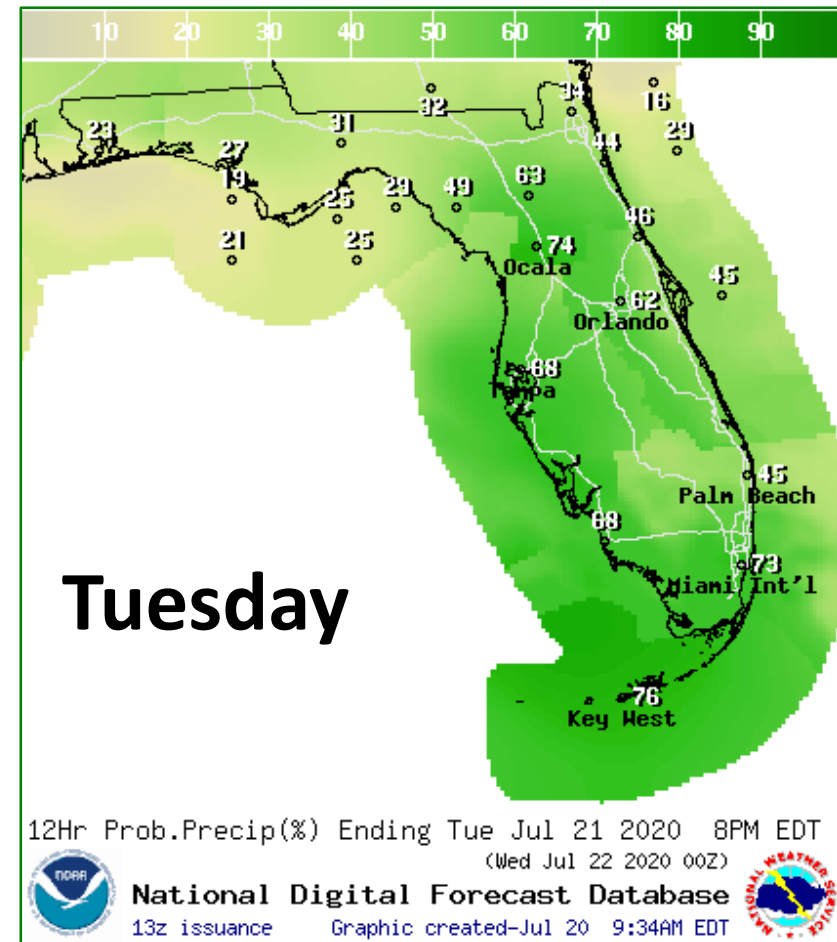
An area of tropical moisture with numerous showers and thunderstorms over the Bahamas will move across the Florida Peninsula and the Florida Keys over the next 48 hours, enhancing rain chances.

GOES16 Vis: 2020-07-20-1415 UTC





# Rain Chances Next 3 Days



Rain chances peak along the West Coast of the Peninsula, South Florida, and the Keys on Tuesday and Wednesday as the tropical wave moves through.



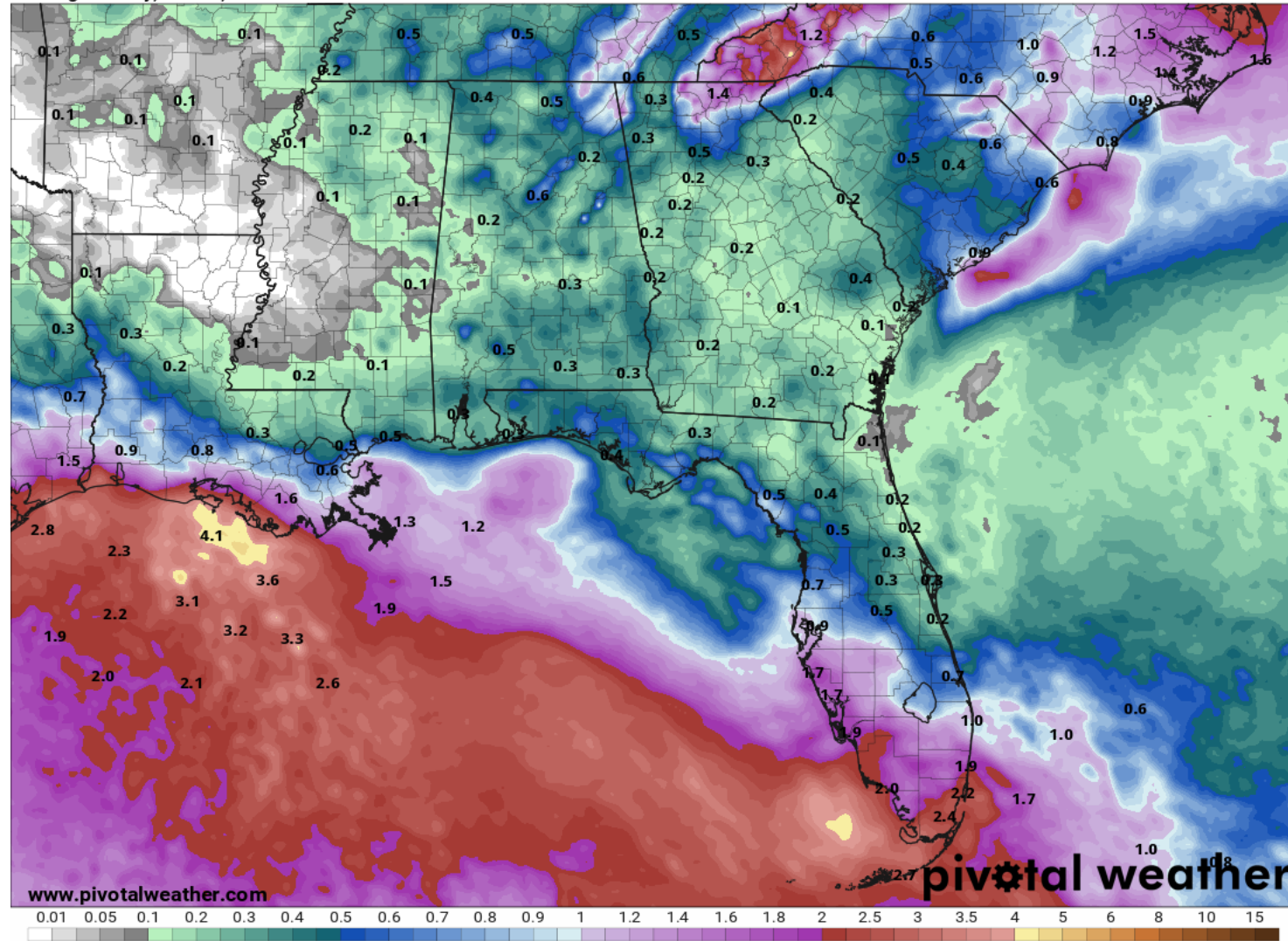


# Forecast Rainfall Totals Next 7 Days

- Additional 1-3" across the West Coast, South Florida, and the Florida Keys
- Locally heavier rainfall amounts 4-6", especially in the Keys
- Isolated Flash flooding possible through the next few days
- Limited rain chances across North Florida

7-Day Precipitation (in)  
Ending Monday, Jul. 27, 2020 at 8 a.m. EDT

Init: Mon 2020-07-20 12z WPC





# Tropical Weather Outlook

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



## Five-Day Graphical Tropical Weather Outlook

National Hurricane Center Miami, Florida

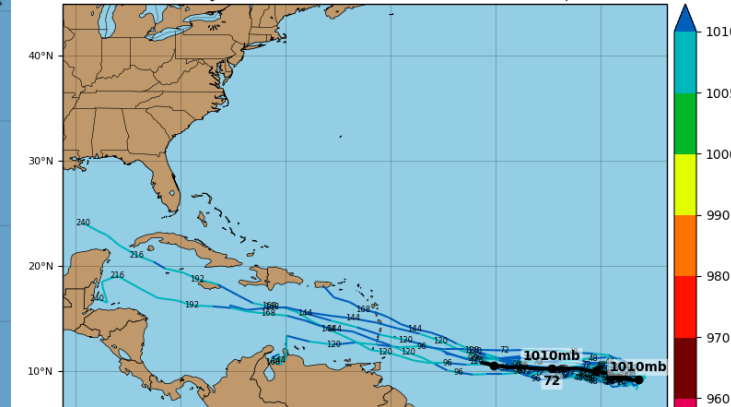


Disturbance 2

99L INVEST - GEFS Tracks and Min. MSLP (hPa)

Initialized at 06z Jul 20 2020

Levi Cowan - tropicaltidbits.com



8:00 am EDT  
Mon Jul 20 2020

100W 90W 80W 70W 60W 50W 40W 30W 20W

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

Tropical or Sub-Tropical Cyclone: ○ Depression ○ Storm ○ Hurricane

⊗ Post-Tropical Cyclone or Remnants

Shower activity associated with a tropical wave located about 1000 miles west-southwest of the Cabo Verde Islands has become a little better organized this morning.

Environmental conditions are expected to be marginally conducive for development of this system during the next few days while it moves westward at 10 to 15 mph over the tropical Atlantic.

By Friday and over the weekend, conditions are forecast to become less favorable for tropical cyclone formation and the system is likely to dissipate.

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

**\*Formation chance through 5 days...low...20 percent.**



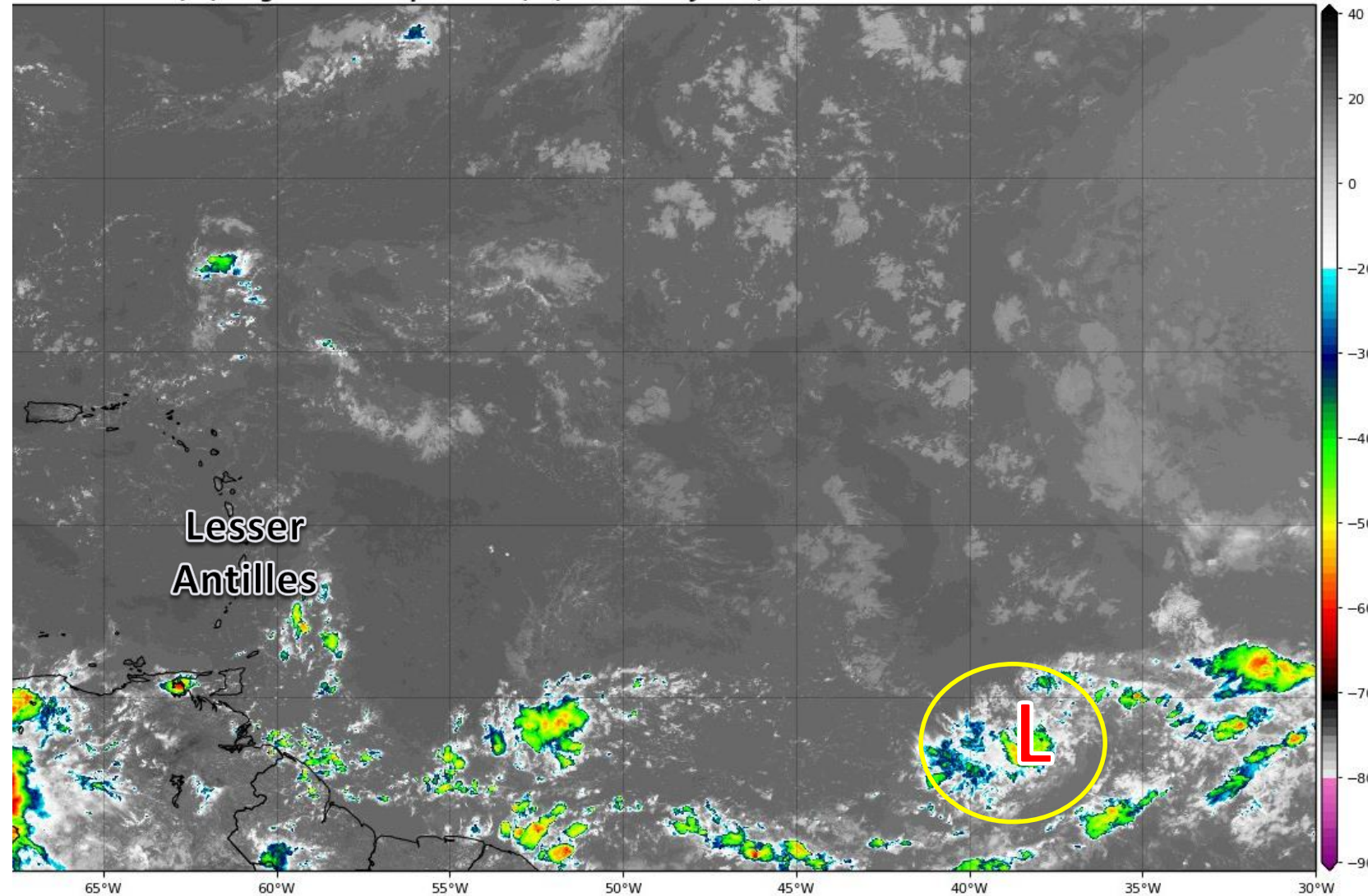


# Satellite Imagery

## Central Atlantic

6 Channel 13 (IR) Brightness Temperature (°C) at 14:25Z Jul 20, 2020

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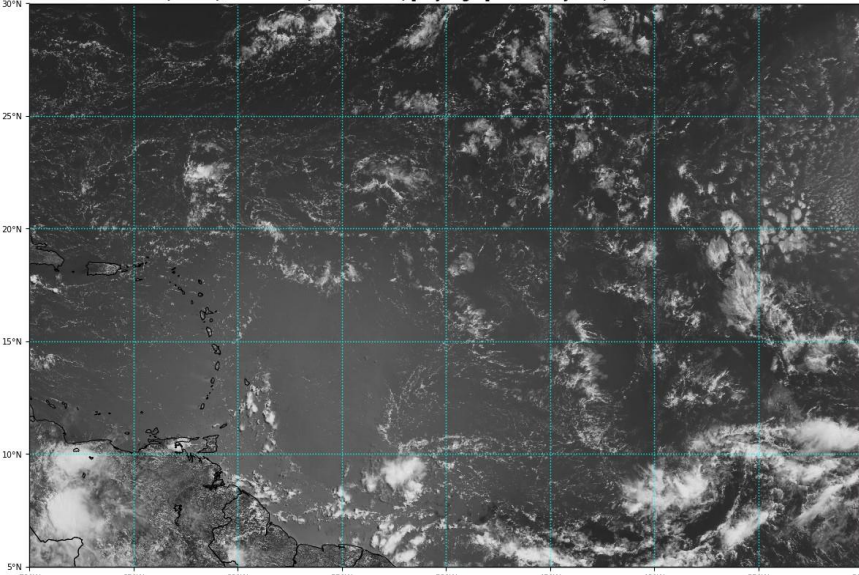


The low pressure area is well-defined, but small. Showers and thunderstorms have waned this morning, but it won't take much to organize it further.

Dry air to the north and west of the system will limit development.

GOES-16 Channel 2 (visible) / Channel 7 (shortwave IR) [Day/Night] at 14:25Z Jul 20, 2020

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# Tropical Weather Outlook

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



## Five-Day Graphical Tropical Weather Outlook

National Hurricane Center Miami, Florida



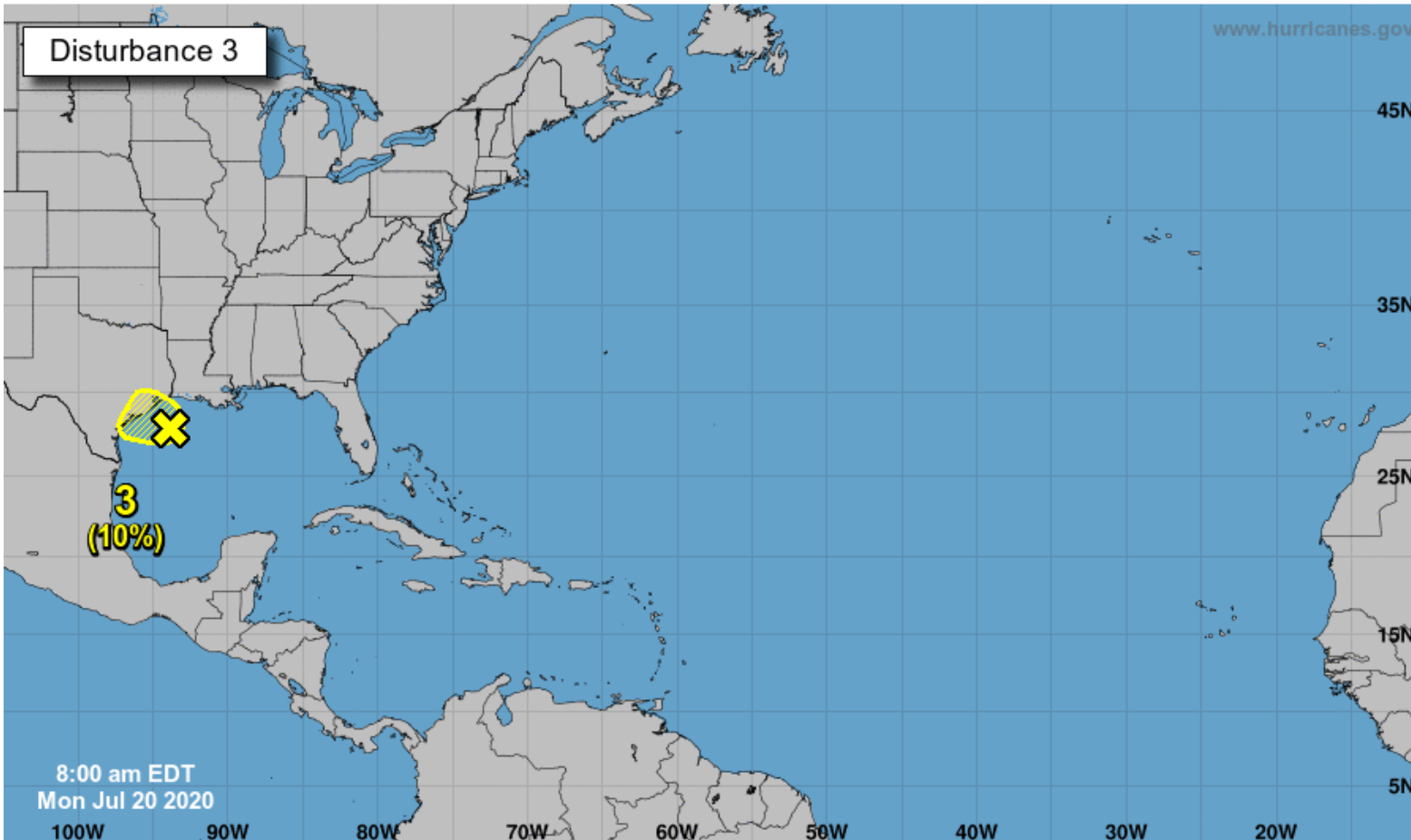
Surface observations indicate that a weak low pressure area has formed over the northwestern Gulf of Mexico.

The associated shower and thunderstorm activity is currently disorganized, and little additional development is expected before the system moves inland over Texas tonight or Tuesday.

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

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

**\*No Threat to 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



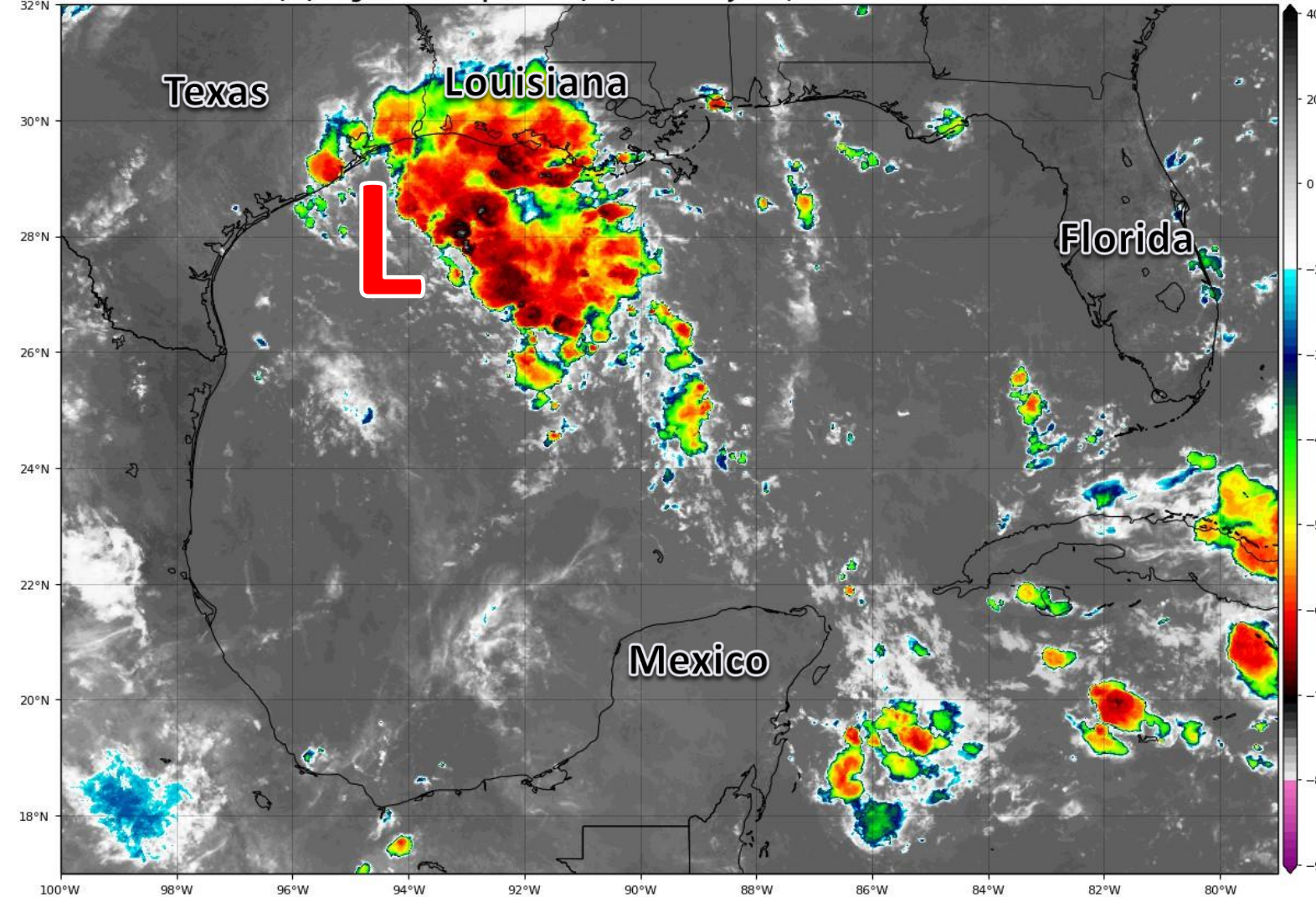


# Satellite Imagery

## Gulf of Mexico

GOES-16 Channel 13 (IR) Brightness Temperature (°C) at 14:25Z Jul 20, 2020

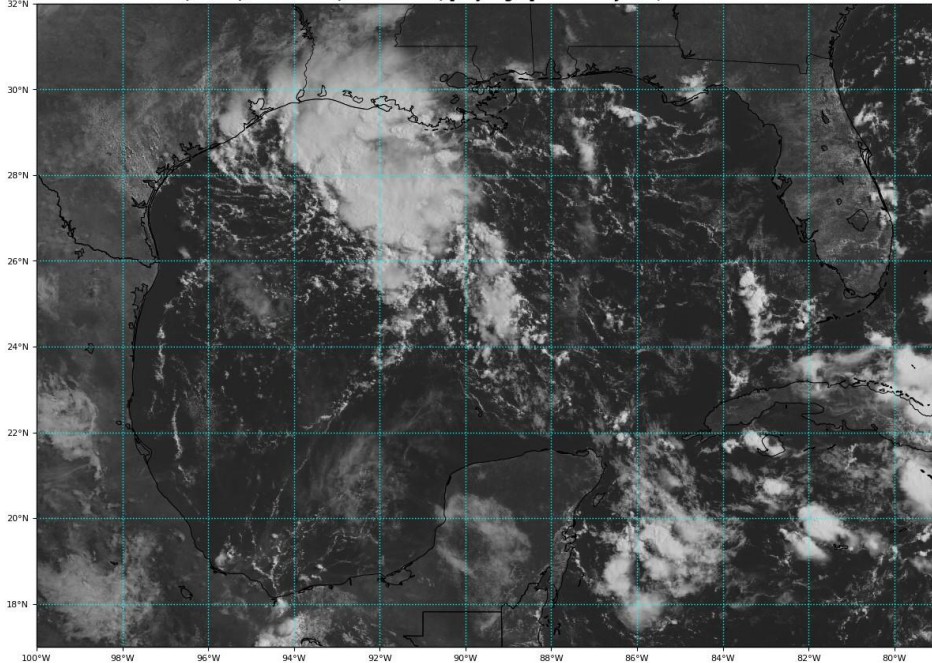
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An area of low pressure has developed overnight and thunderstorms are starting to organize around it. The system will be moving inland tonight so it has a small window to organize further.

GOES-16 Channel 2 (visible) / Channel 7 (shortwave IR) [Day/Night] at 14:25Z Jul 20, 2020

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# Overall Summary

## **Tropical Wave near the Bahamas**

- A tropical wave located over Cuba and the Bahamas is producing disorganized showers and thunderstorms.
- The tropical wave will move to the northwest over the next few days, moving across the Florida Peninsula and Keys over the next 48 hours and then into the Gulf of Mexico.
- Development of this system is not expected while the system is moving through the Florida Straits.
- As the system moves across the Gulf of Mexico mid-week and towards Texas, the environment will be better for development and some gradual organization is possible.
- The chance of development is 20% (low) over the next 5 days, and only 10% (low) over the next 48 hours.

## **Invest 99L – Tropical Wave Between Africa and the Caribbean**

- A small area of low pressure has developed about 1000 miles west-southwest of the Cabo Verde Island, or about halfway between Africa and the Caribbean.
- Dry air is surrounding this system and will likely disrupt any organization it has later this week.
- The system is tracking to the west at 10-15 mph and is at least 5 days away from reaching the Caribbean.
- The National Hurricane Center gives this system a 20% (low) chance of development over the next 48 hours and 5 days.

## **Tropical Wave near Texas**

- An area of low pressure has developed near the coast of Texas and may continue to organize before it moves inland tonight.
- The National Hurricane Center gives it a 10% (low) chance of becoming a tropical system in the next 24 hours.





# Overall Summary

## Florida Outlook:

- The tropical wave near Texas poses no threat to Florida.
- Invest 99L, the tropical wave between Africa and the Caribbean, poses no threat to Florida through at least this weekend.
- **From the tropical wave now over the Bahamas:** Increased rain chances are expected across the Peninsula over the next 48 hours, particularly in Southwest Florida and Keys.
- Rain chances will continue each night along the East Coast and the Keys.
- Some thunderstorms will be strong, with gusty winds around 45 mph, frequent lightning, waterspouts, and heavy rainfall.
- An isolated case of flash flooding can't be ruled out, with street flooding in urban areas. **Significant impacts are not expected.**
- Rainfall totals in the Peninsula from this system will be 1-3" widespread, and locally 4-6".

The next briefing packet will be issued late Tuesday morning. For the latest information on the tropics, please visit the National Hurricane Center website at [www.hurricanes.gov](http://www.hurricanes.gov). Daily Weather Packets are published each day in WebEOC Info Message #3518.



# TROPICAL UPDATE



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State Meteorological Support Unit

Florida Division of Emergency Management

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