



TROPICAL UPDATE



11:00 AM EDT

Sunday, August 30, 2020

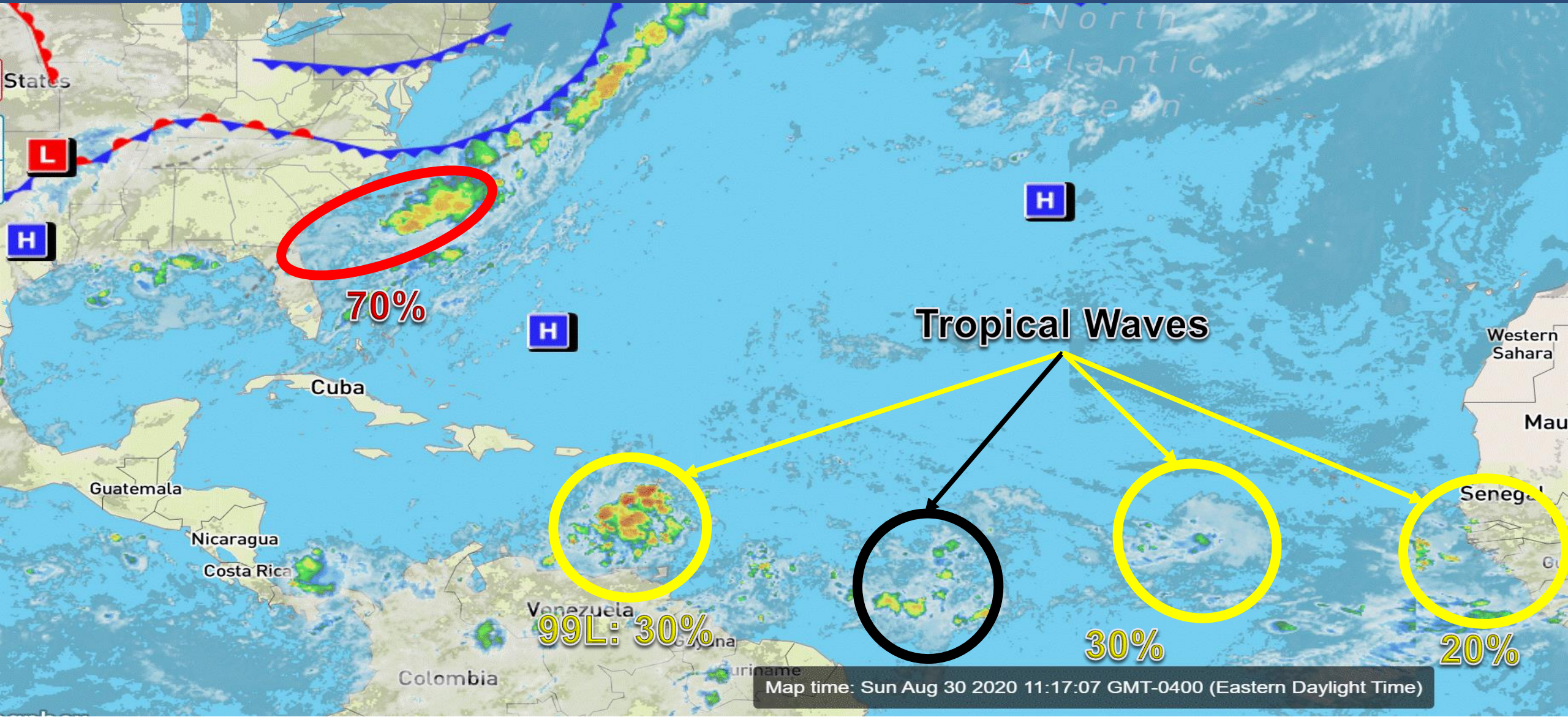
East Coast Low (70%), Invest 99L in Caribbean (30%),
Cabo Verde Tropical Wave (30%), Africa Wave (20%)

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.



Atlantic Basin Satellite Image

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





Tropical Weather Outlook

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



Five-Day Graphical Tropical Weather Outlook

National Hurricane Center Miami, Florida



www.hurricanes.gov

Disturbance 3

3
(70%)

8:00 am EDT
Sun Aug 30 2020

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

Current Disturbances and Five-Day Cyclone Formation Chance:
Tropical or Sub-Tropical Cyclone: ○ Depression ⚡ Storm 🌀 Hurricane
⊗ Post-Tropical Cyclone or Remnants

An area of low pressure is expected to form off the southeastern coast of the United States in a day or two. A tropical depression is likely to form by the middle of the week while the system moves northeastward or east-northeastward, initially parallel to the southeastern coast of the U.S. and then away from land.

This system does not pose a direct threat to Florida.

Widespread showers and thunderstorms are ongoing today across North Florida, and the rip current risk will be elevated at Northeast Florida beaches for the next couple of days.

***Formation chance through 48 hrs...medium...50%**

***Formation chance through 5 days...high...70%**



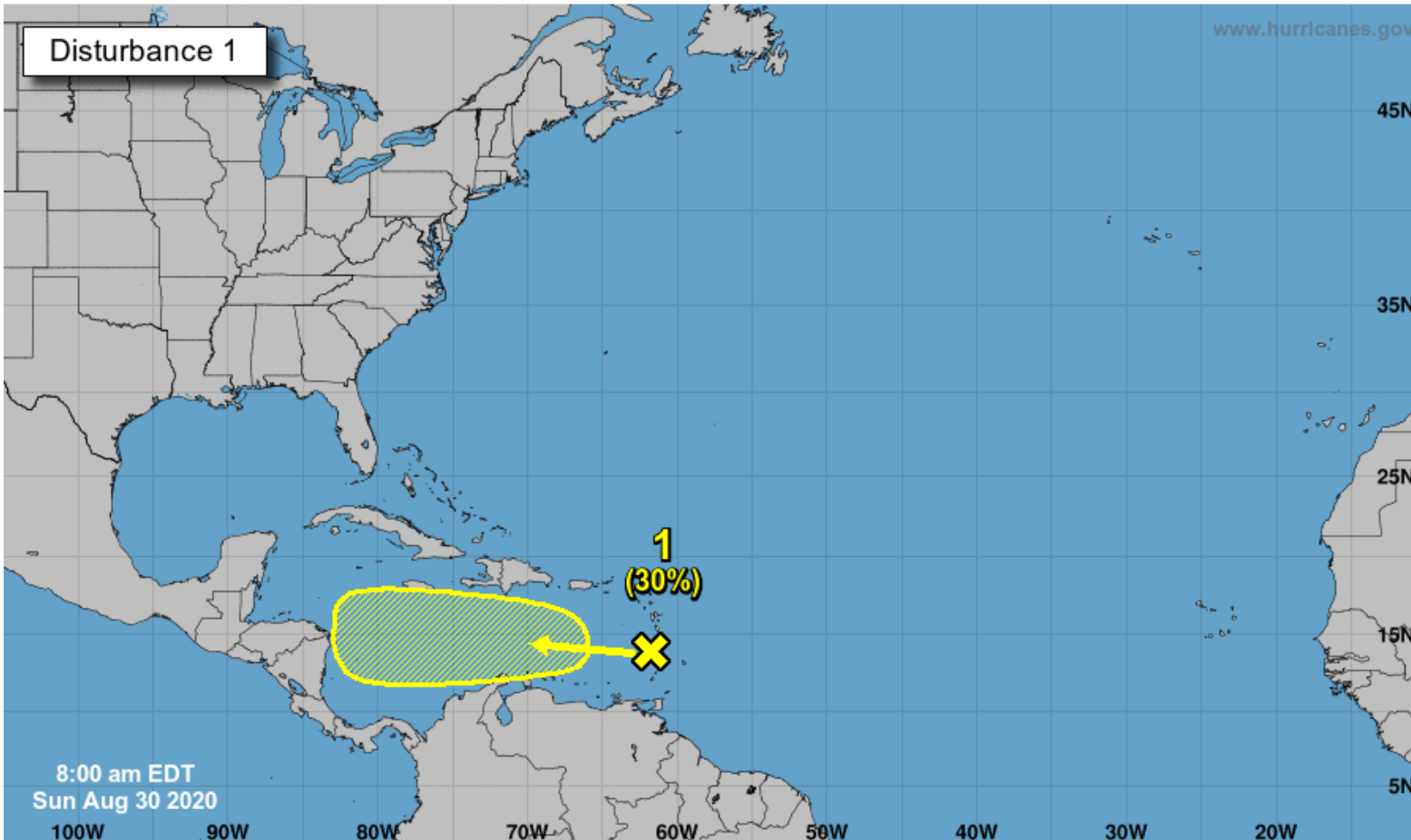
Tropical Weather Outlook

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



Five-Day Graphical Tropical Weather Outlook

National Hurricane Center Miami, Florida



Showers and thunderstorms associated with a tropical wave are gradually moving westward away from the Lesser Antilles, but have continued to be widespread in the area.

Although the disturbance remains disorganized at this time, some gradual development of this system is possible during the next several days while it moves westward at 15 to 20 mph across the Caribbean Sea, towards Central America.

This system does not pose an immediate threat to Florida, but should continue to be monitored.

***Formation chance through 48 hrs...low...20%**

***Formation chance through 5 days...low...30%**

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



Tropical Weather Outlook

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



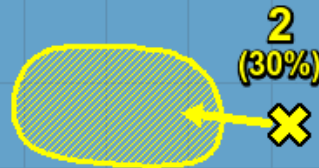
Five-Day Graphical Tropical Weather Outlook

National Hurricane Center Miami, Florida



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Disturbance 2



8:00 am EDT
Sun Aug 30 2020

Current Disturbances and Five-Day Cyclone Formation Chance:
Tropical or Sub-Tropical Cyclone: ○ Depression ⚡ Storm 🌀 Hurricane
⊗ Post-Tropical Cyclone or Remnants

✕ < 40% ✕ 40-60% ✕ > 60%

A westward-moving tropical wave is located over the eastern Atlantic Ocean, several hundred miles southwest of the Cabo Verde Islands.

This system is producing limited shower activity, and any further development is expected to be slow to occur while it moves slowly westward over the eastern or central tropical Atlantic.

This system does not need to be monitored for Florida impacts at this time.

***Formation chance through 48 hrs...low...near 0%**

***Formation chance through 5 days...low...30%**



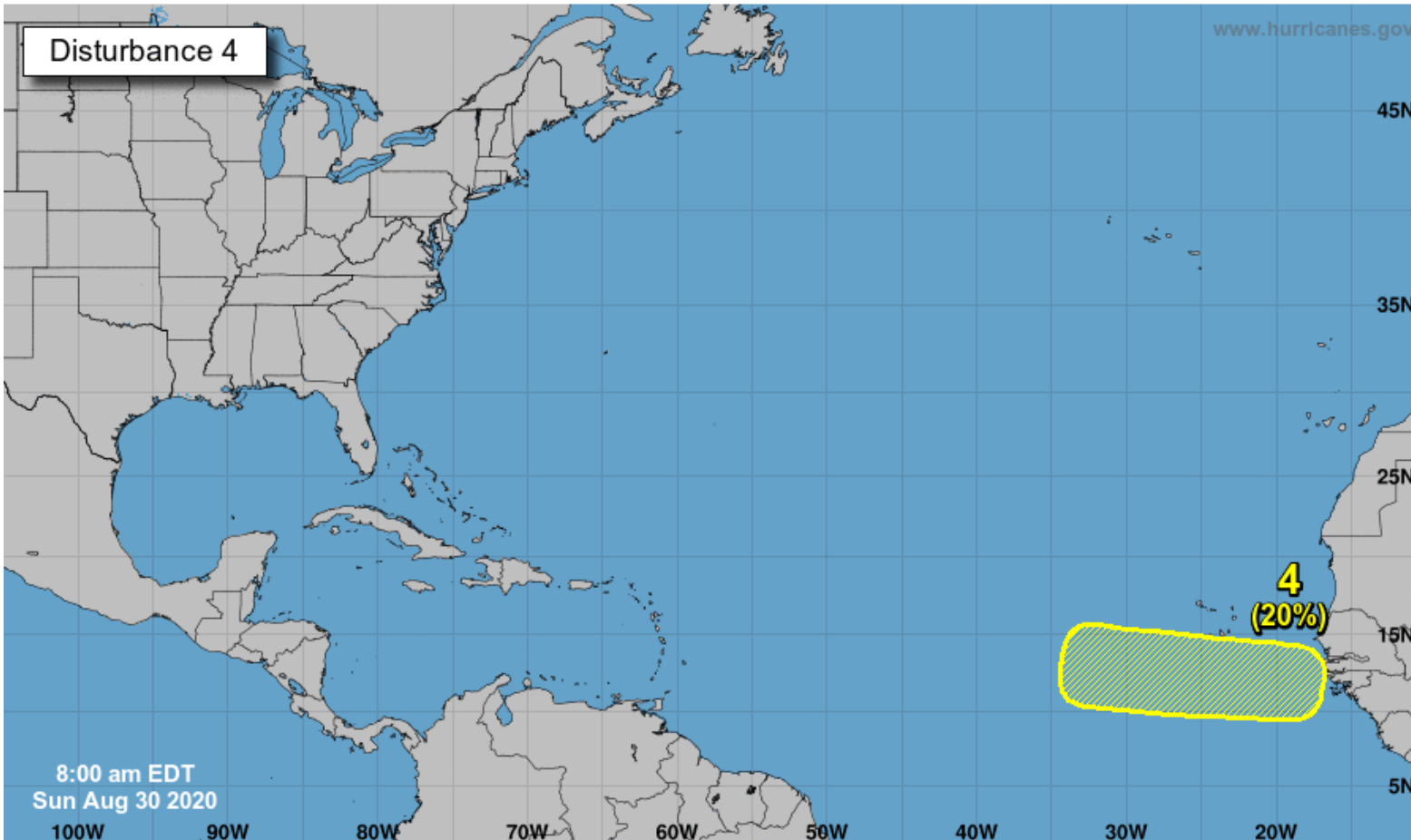
Tropical Weather Outlook

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



Five-Day Graphical Tropical Weather Outlook

National Hurricane Center Miami, Florida



A new tropical wave is expected to emerge off the coast of Africa in a couple of days.

Some gradual development of this system will be possible through the end of the week while it moves slowly westward over the far eastern tropical Atlantic Ocean.

This system does not need to be monitored for Florida impacts at this time.

***Formation chance through 48 hrs...low...near 0%**

***Formation chance through 5 days...low...20%**

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

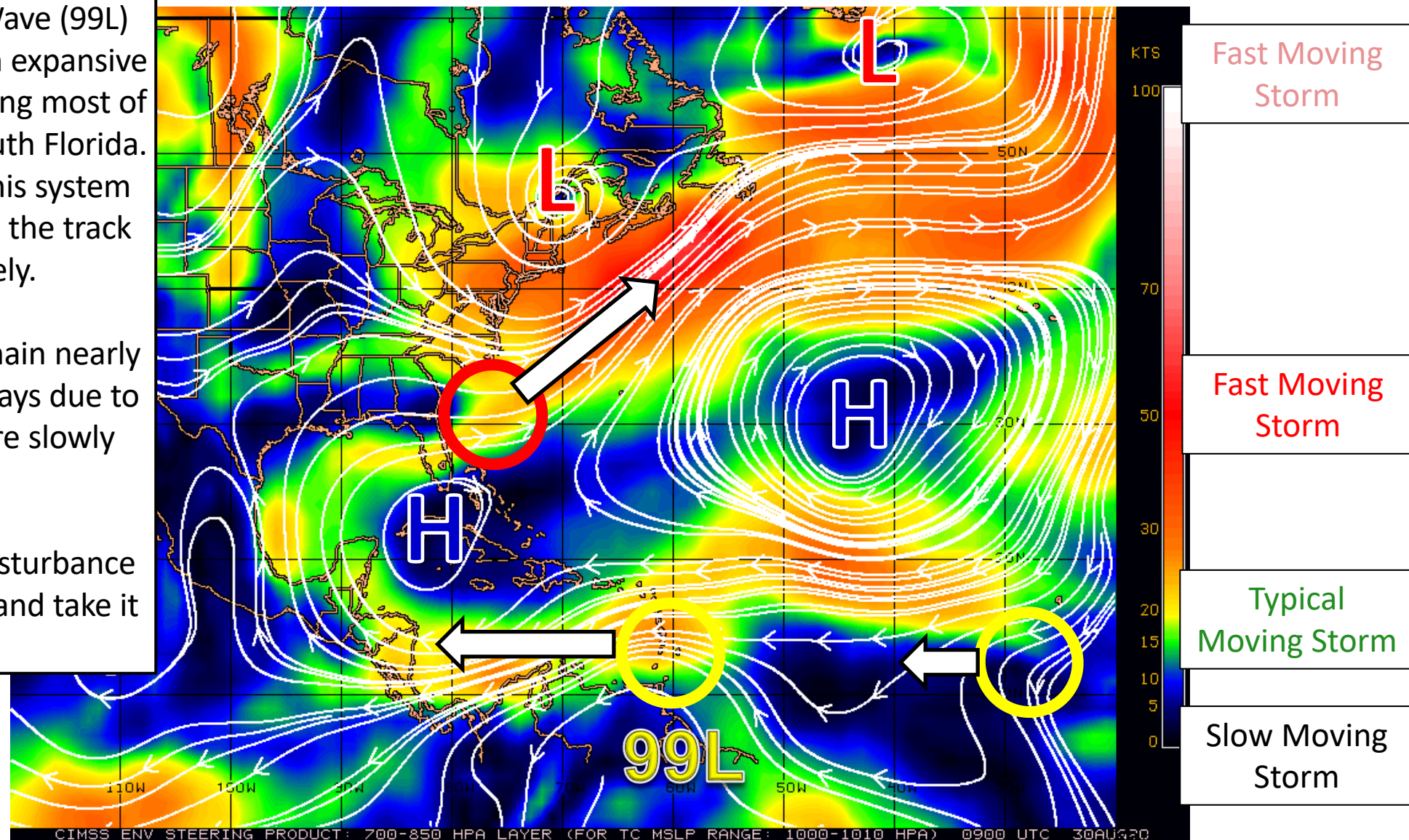
What is Moving the System?

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

The Caribbean Sea Tropical Wave (99L) will be steered westward by an expansive area of high pressure dominating most of the Atlantic, including near South Florida. At this time, it is most likely this system goes into Central America but the track will be monitored closely.

The Cabo Verde Wave will remain nearly stationary over the next few days due to weak steering currents before slowly moving westward.

A cold front will pick up the disturbance developing off the East Coast and take it out to sea.



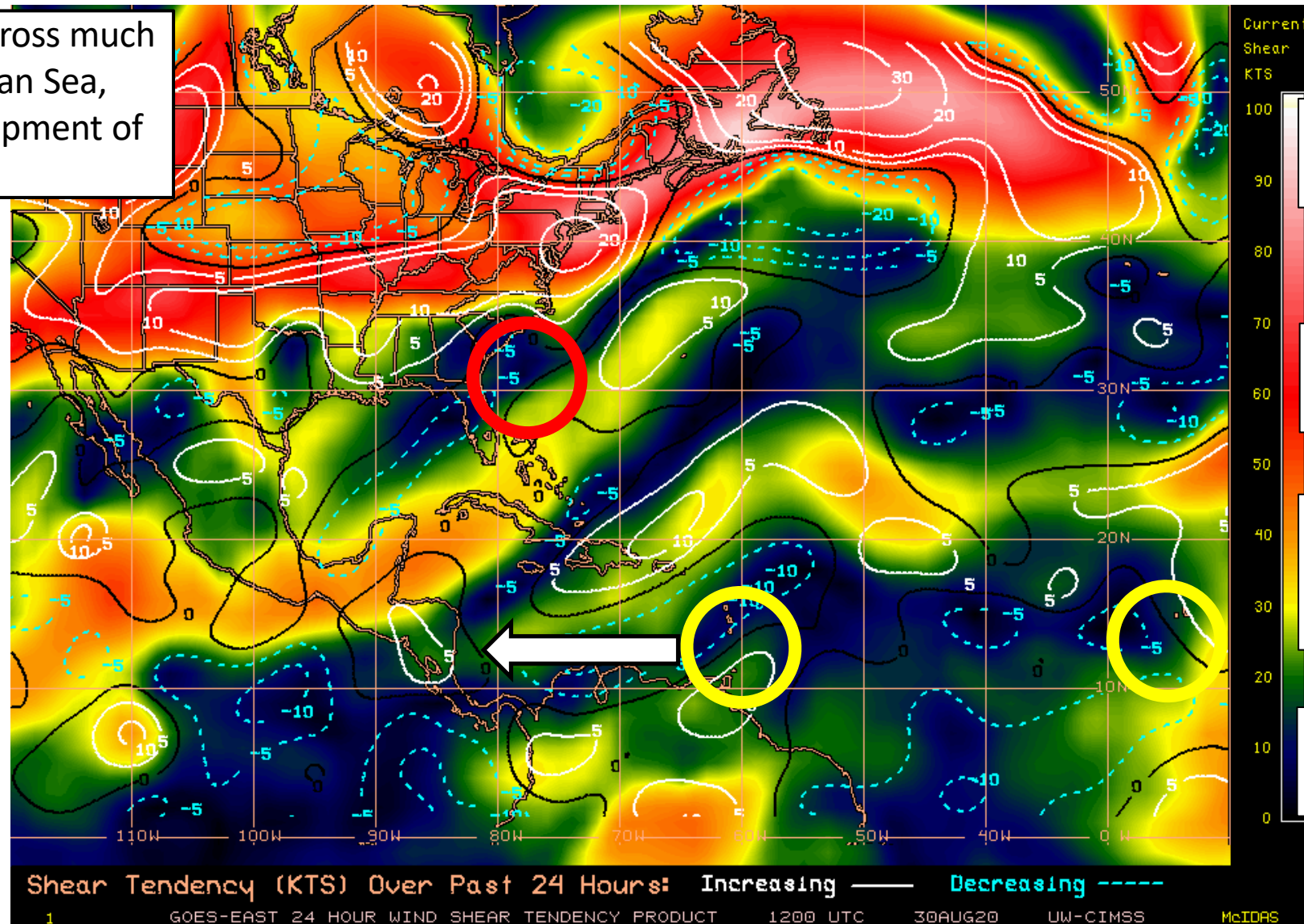


Wind Shear

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).

Wind shear is currently low across much of the Atlantic and Caribbean Sea, favoring some gradual development of each system.



HIGH Shear
(Unfavorable)

HIGH Shear
(Unfavorable)

MODERATE
Shear
(Neutral)

LOW Shear
(Favorable)

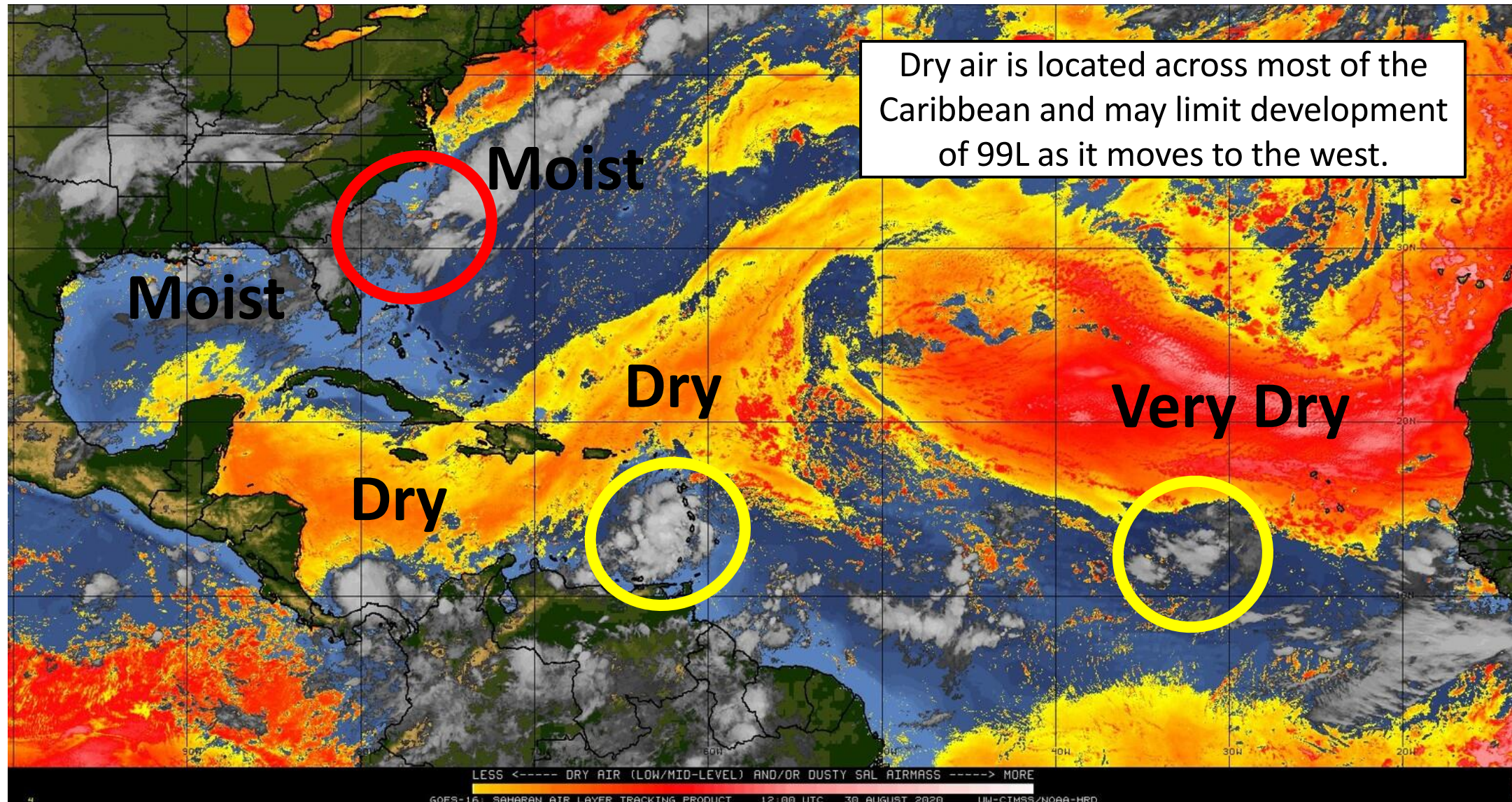
Shear Tendency (KTS) Over Past 24 Hours: Increasing — Decreasing - - - -



Dry Air & Saharan Dust

Is the environment favorable for the system?

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





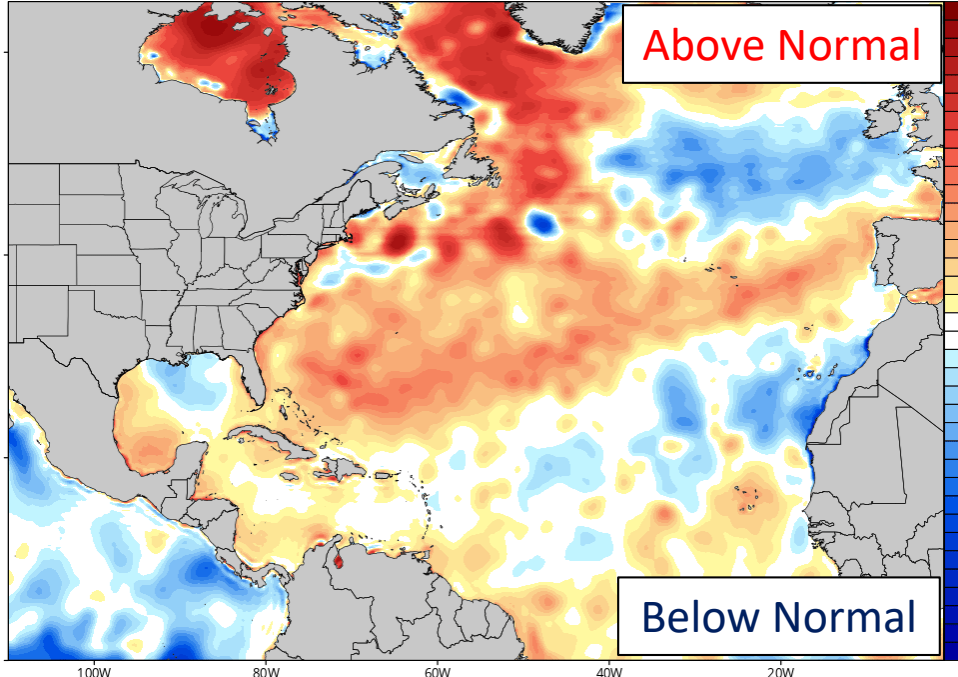
Sea Surface Temperatures & Anomalies

Is the ocean favorable for the system?

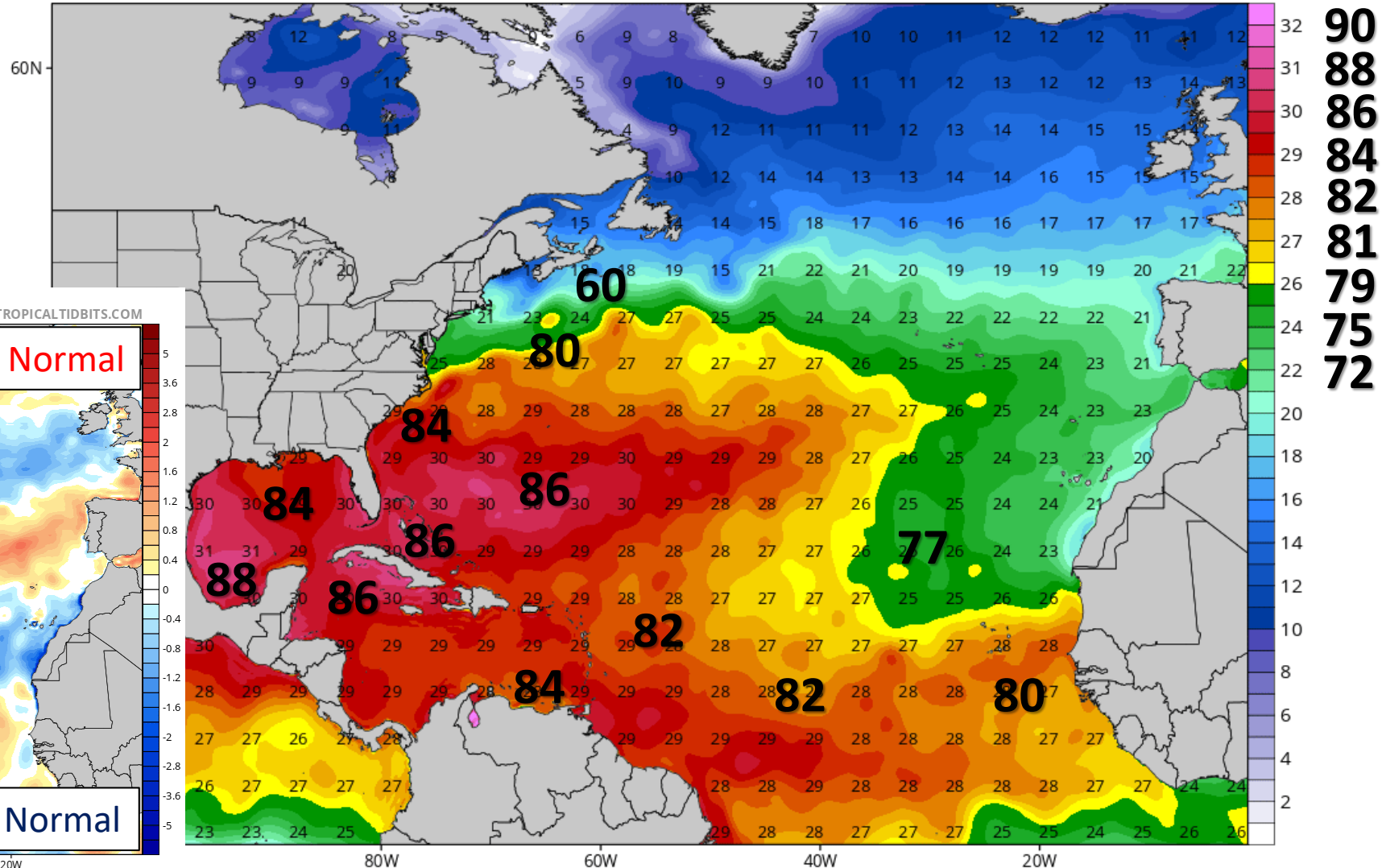
Water temperatures are supportive for tropical development across the entire Atlantic basin.

The small area of cooler waters in the Gulf of Mexico is the wake of Laura and Marco.

CDAS Sea Surface Temperature Anomaly (°C) (based on CFSR 1981-2010 Climatology)
Analysis Time: 06z Aug 30 2020



CDAS Sea Surface Temperature (°C)
Analysis Time: 06z Aug 30 2020





Model Forecast Tracks

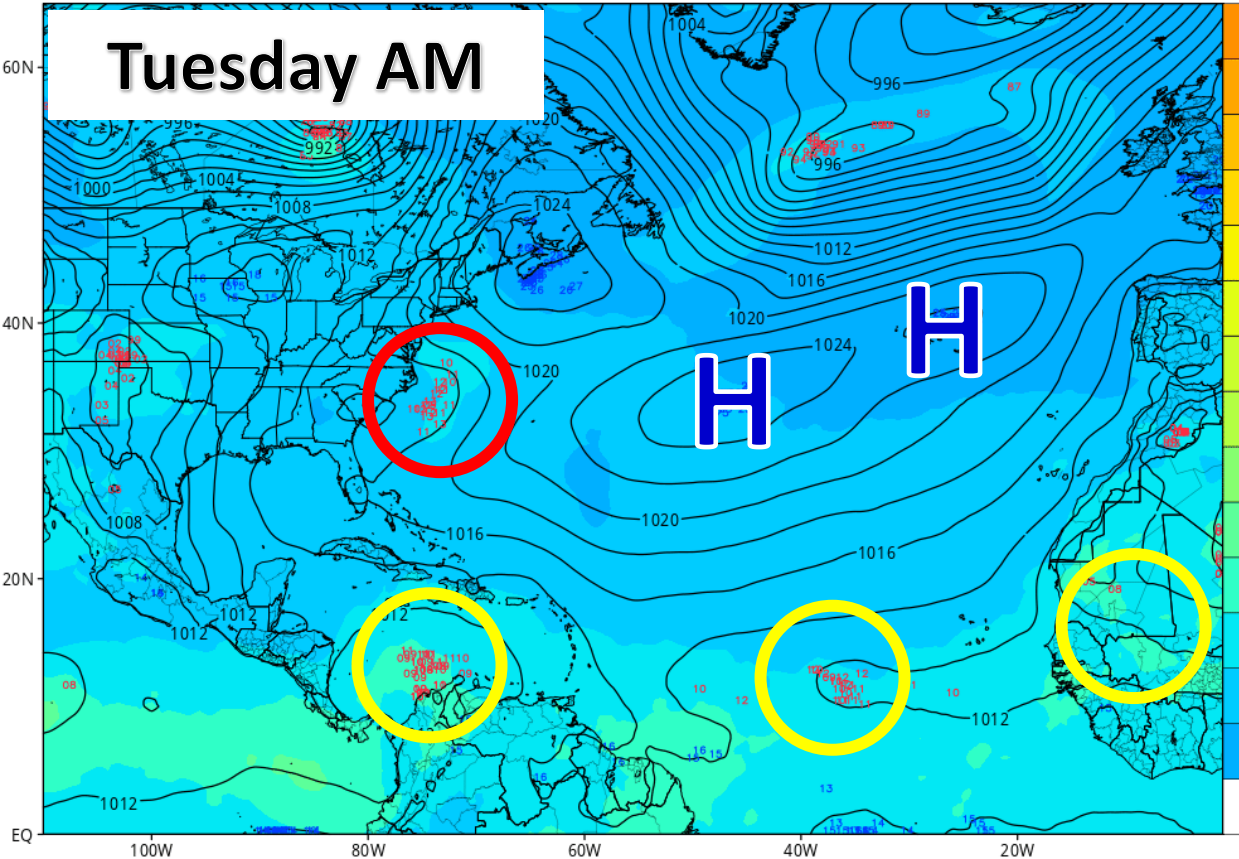
Ensembles Models

GEFS-Para Mean MSLP (mb), Ensemble Member Pressure Centers (Lows: red | Highs: blue), & Normalized Spread (σ)

Init: 06z Aug 30 2020 Forecast Hour: [54] valid at 12z Tue, Sep 01 2020

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Tuesday AM

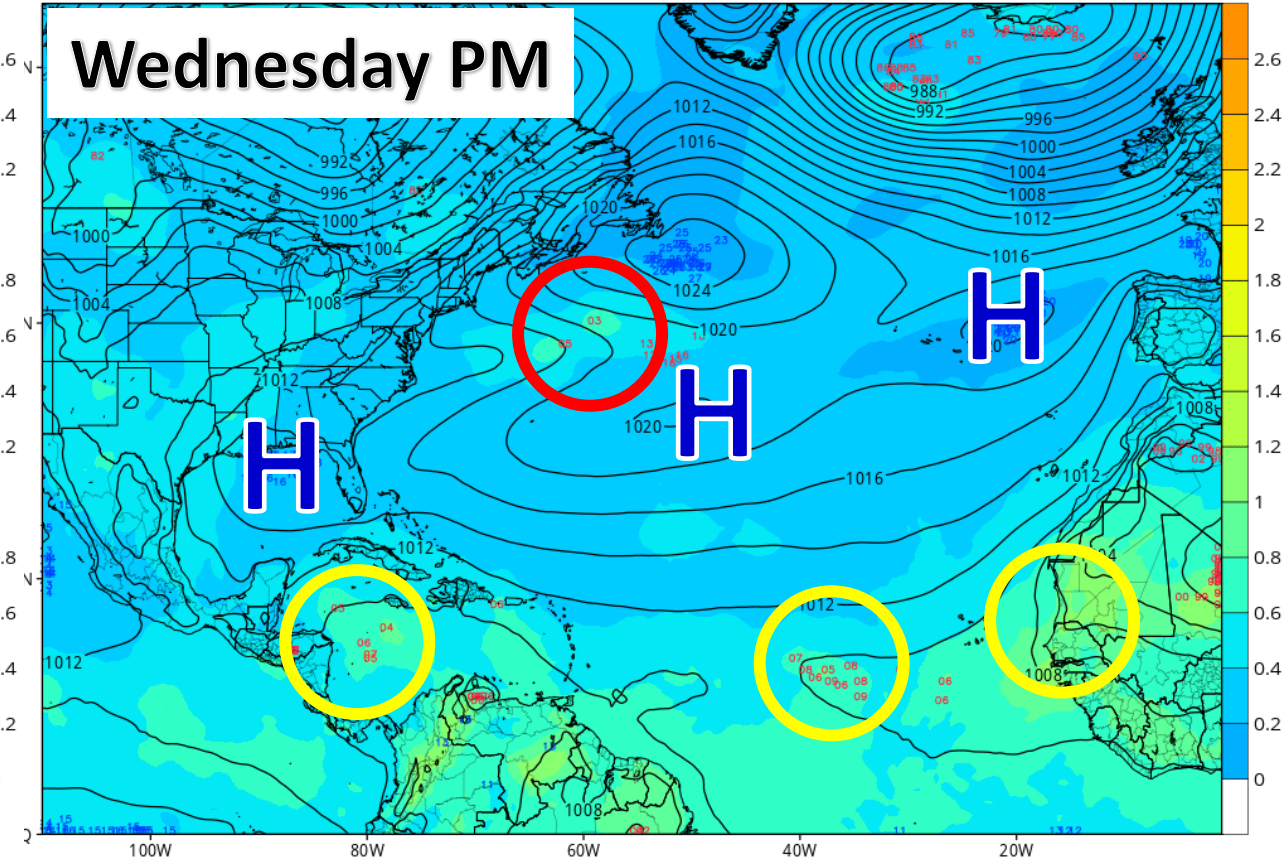


GEFS-Para Mean MSLP (mb), Ensemble Member Pressure Centers (Lows: red | Highs: blue), & Normalized Spread (σ)

Init: 06z Aug 30 2020 Forecast Hour: [84] valid at 18z Wed, Sep 02 2020

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Wednesday PM



The East Coast low will quickly move towards the North Atlantic by mid-week.
99L in the Caribbean will head towards the western Caribbean and Central America mid-week.
The two additional tropical waves near Africa will slowly move west, but remain far from the Caribbean mid-week.



Overall Summary

East Coast Low

- An area of low pressure will form off the southeastern coast of the U.S. over the next day or so, leftover from strong thunderstorms over North Florida from the past few days.
- The system will move northeast, away from Florida and into the open waters of the North Atlantic.
- This system has a 50% (medium) chance of formation during the next 2 days and a 70% (high) chance during the next 5 days.

Invest 99L - Caribbean Tropical Wave

- A tropical wave over the Lesser Antilles in the eastern Caribbean is producing disorganized showers and thunderstorms.
- The wave will move through the Caribbean Sea over the next few days towards Central America.
- This system has a 20% (low) chance of formation during the next 2 days and a 30% (low) chance during the next 5 days.

Cabo Verde Tropical Wave

- A tropical wave a few hundred miles southwest of the Cabo Verde Islands is also producing limited showers.
- Some gradual development is possible as it begins moving very slowly westward in a few days.
- This system has a 0% (low) chance of formation during the next 2 days and a 30% (low) chance during the next 5 days.

Africa Tropical Wave

- A new tropical wave is forecast to move off the coast of Africa in a couple of days and may slowly develop.
- This system has a 0% (low) chance of formation during the next 2 days and a 20% (low) chance during the next 5 days.

Florida Outlook:

- None of the systems being monitored currently pose a direct threat to Florida. Invest 99L in the Caribbean will be monitored.

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



TROPICAL UPDATE



Created by:

Michael Spagnolo, Deputy State Meteorologist

Michael.Spagnolo@em.myflorida.com

State Meteorological Support Unit

Florida Division of Emergency Management

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