



TROPICAL UPDATE



11:00 AM EDT

Monday, August 17, 2020

Invest 97L – Near Lesser Antilles (50%)

Tropical Wave Near Africa (60%)

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.



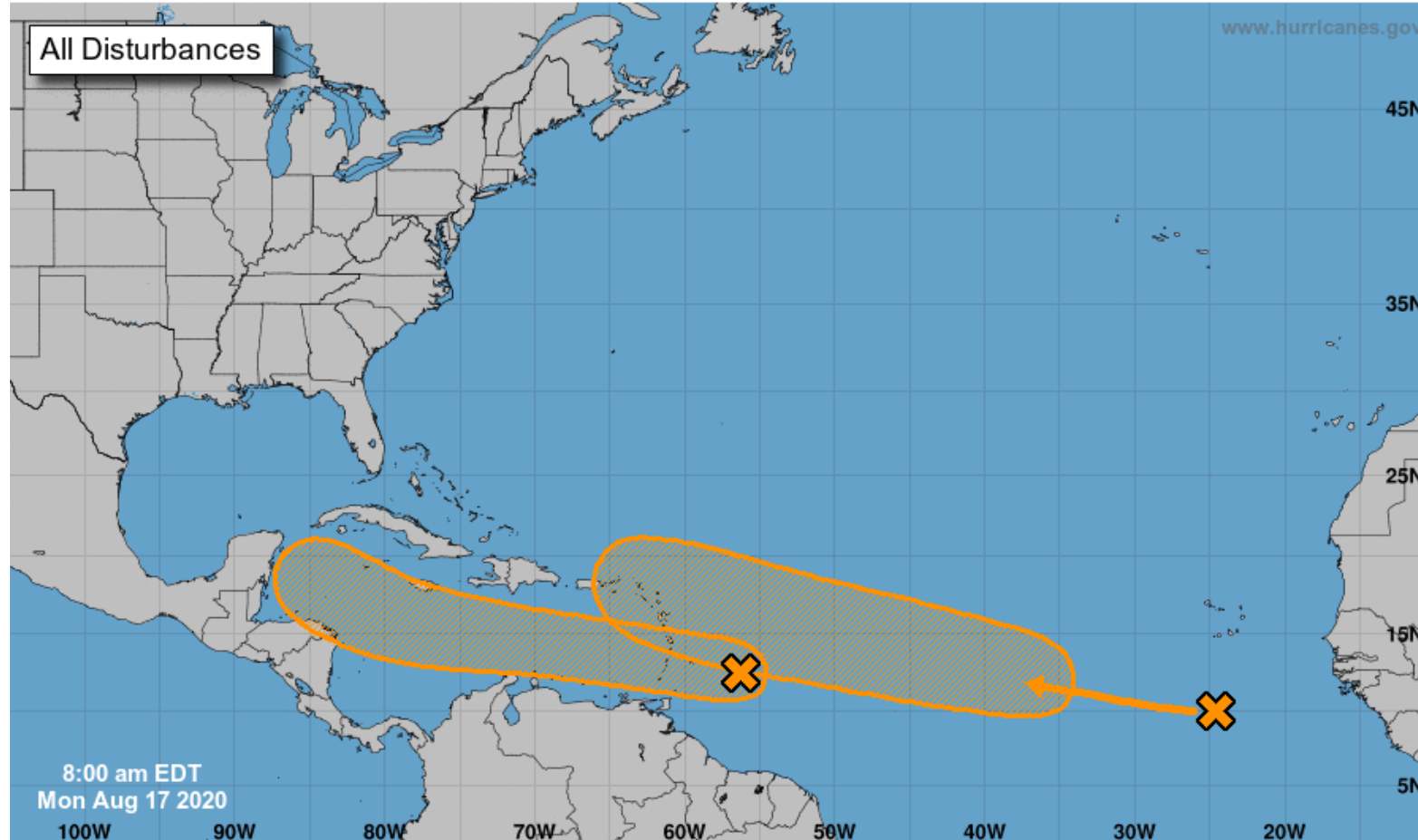
Tropical Weather Outlook

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



Five-Day Graphical Tropical Weather Outlook

National Hurricane Center Miami, Florida

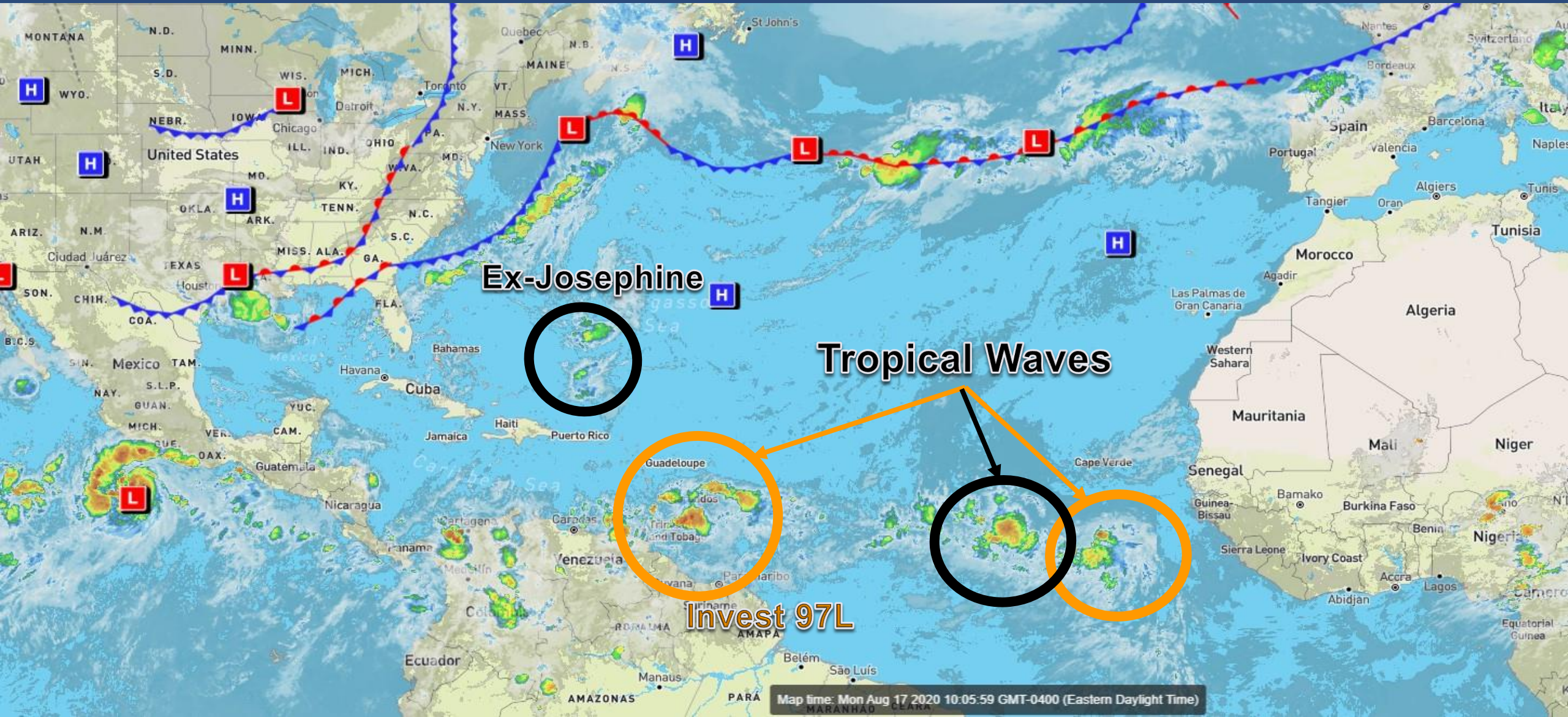


Current Disturbances and Five-Day Cyclone Formation Chance: < 40% 40-60% > 60%
Tropical or Sub-Tropical Cyclone: Depression Storm Hurricane
 Post-Tropical Cyclone or Remnants



Atlantic Basin Satellite Image

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





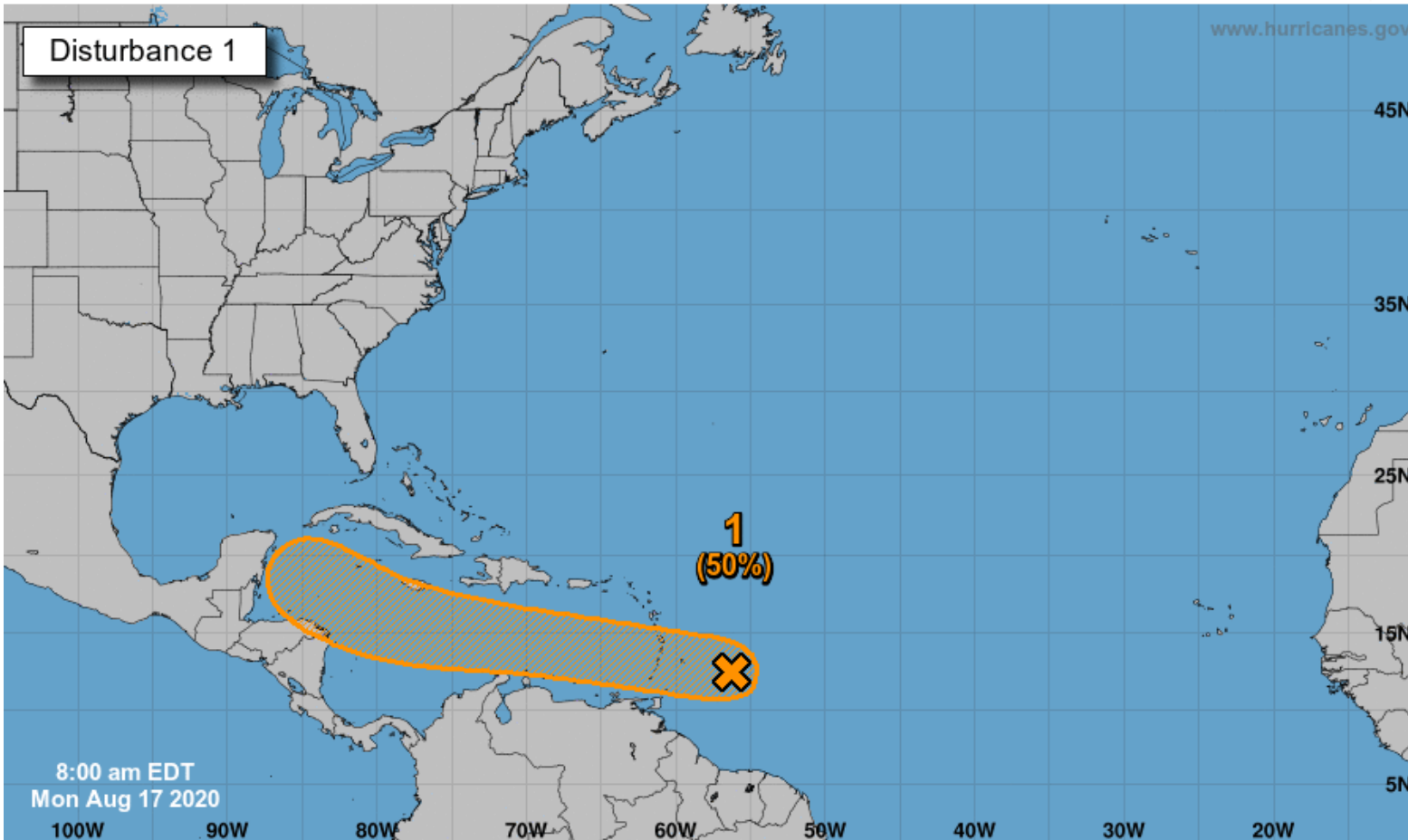
Tropical Weather Outlook

Possible Area of Development During the Next 5 Days ([LINK](#)) – Invest 97L



Five-Day Graphical Tropical Weather Outlook

National Hurricane Center Miami, Florida



A fast-moving tropical wave located a couple of hundred miles east of the Windward Islands continues to produce disorganized shower and thunderstorm activity.

This disturbance is expected to move westward at about 20 mph during the next few days, and that fast forward speed is likely to limit significant development while the system moves across the eastern and central Caribbean Sea on Tuesday and Wednesday.

After that time, however, the system is expected to move more slowly westward across the western Caribbean Sea, where upper-level winds could become more conducive for the development of a tropical depression during the latter part of this week.

This system should be monitored closely this week.

The next names on the list are Laura and Marco.

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

***Formation chance through 5 days...medium...50%**

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

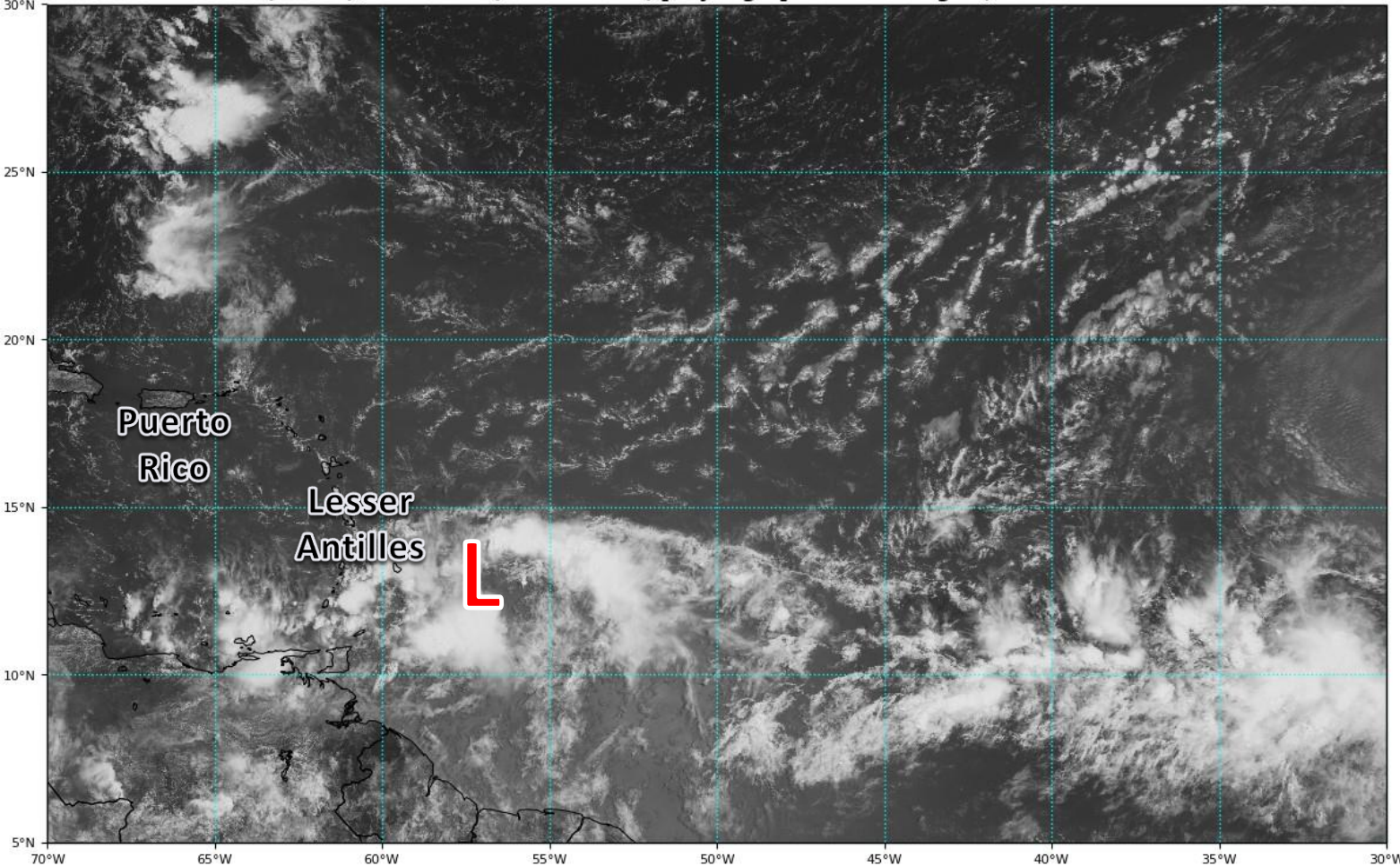


Satellite Imagery

Central Atlantic – Invest 97L

GOES-16 Channel 2 (visible) / Channel 7 (shortwave IR) [Day/Night] at 14:05Z Aug 17, 2020

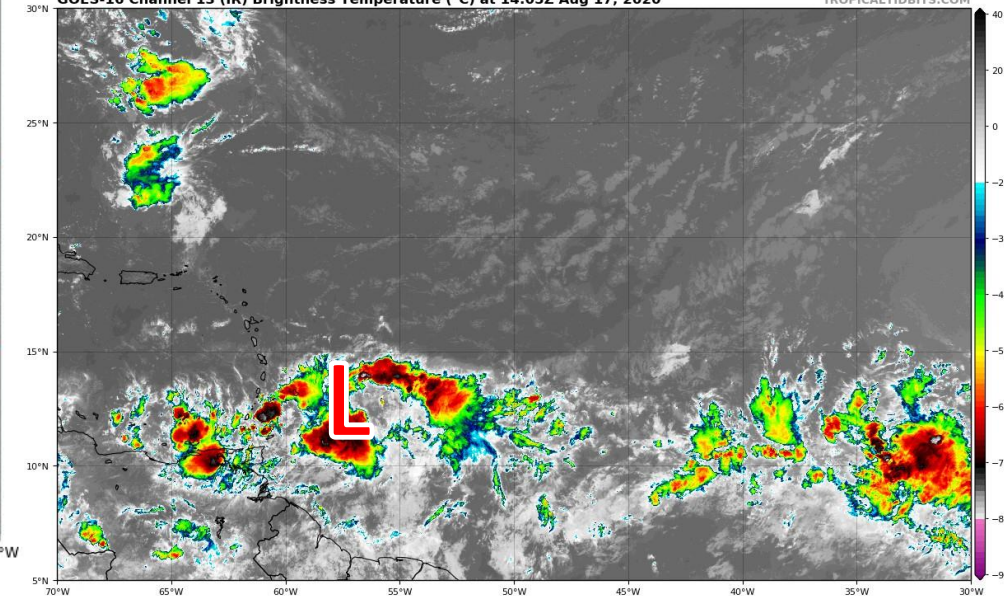
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The tropical wave is producing numerous showers and thunderstorms, but remains unorganized due to its fast movement. Some dry air is located to the north but the environment will support gradual development as it moves west.

GOES-16 Channel 13 (IR) Brightness Temperature (°C) at 14:05Z Aug 17, 2020

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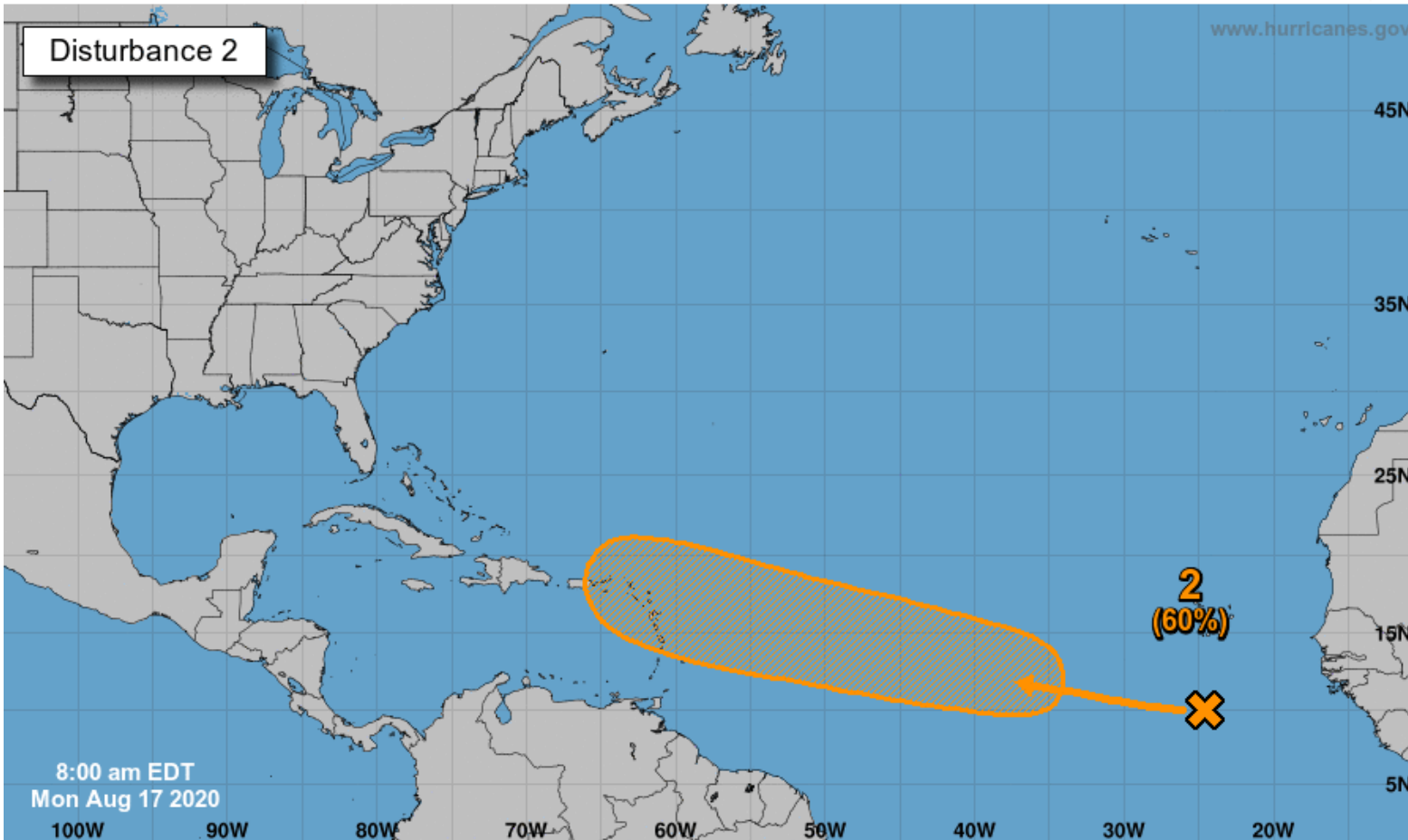
Tropical Weather Outlook

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



Five-Day Graphical Tropical Weather Outlook

National Hurricane Center Miami, Florida



Another tropical wave located over the eastern tropical Atlantic to the south-southwest of the Cabo Verde Islands is producing disorganized cloudiness and showers.

The wave is forecast to move westward to west-northwestward at 15 to 20 mph during the next few days, and environmental conditions are expected to become more conducive for the development of a tropical depression during the middle-to-latter part of this week while the system moves across the central and western portions of the tropical Atlantic.

This system should be monitored closely this week.

The next names on the list are Laura and Marco.

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

***Formation chance through 5 days...medium...60%**

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



Satellite Imagery

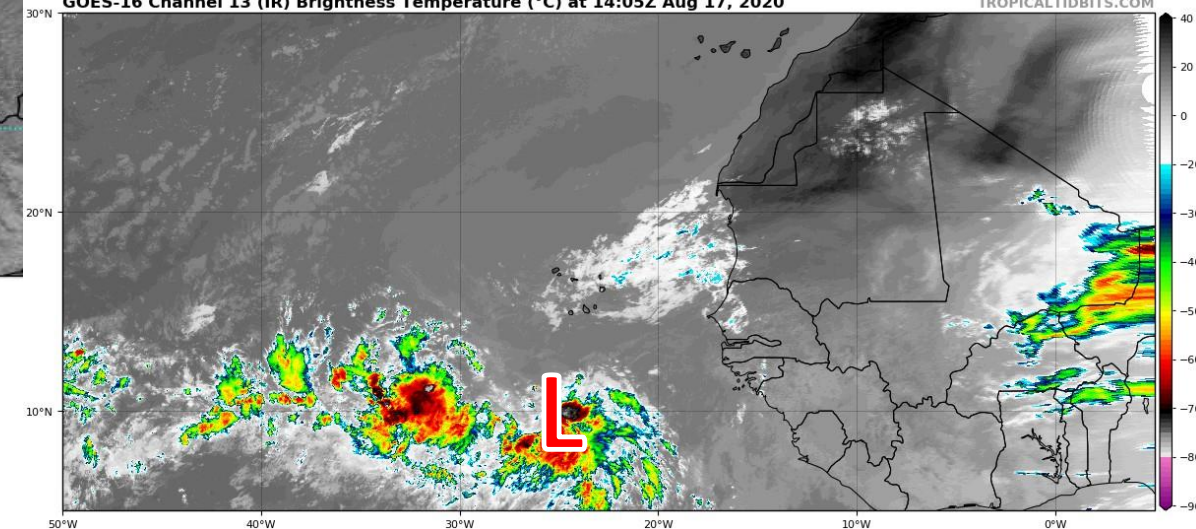
Eastern Atlantic – Tropical Wave near Africa

GOES-16 Channel 2 (visible) / Channel 7 (shortwave IR) [Day/Night] at 14:05Z Aug 17, 2020



There are two tropical waves near the Cabo Verde Islands, but an area of low pressure appears to be developing on the eastern wave. Some dry air is located to the north but the environment will support gradual development as it moves west.

GOES-16 Channel 13 (IR) Brightness Temperature (°C) at 14:05Z Aug 17, 2020





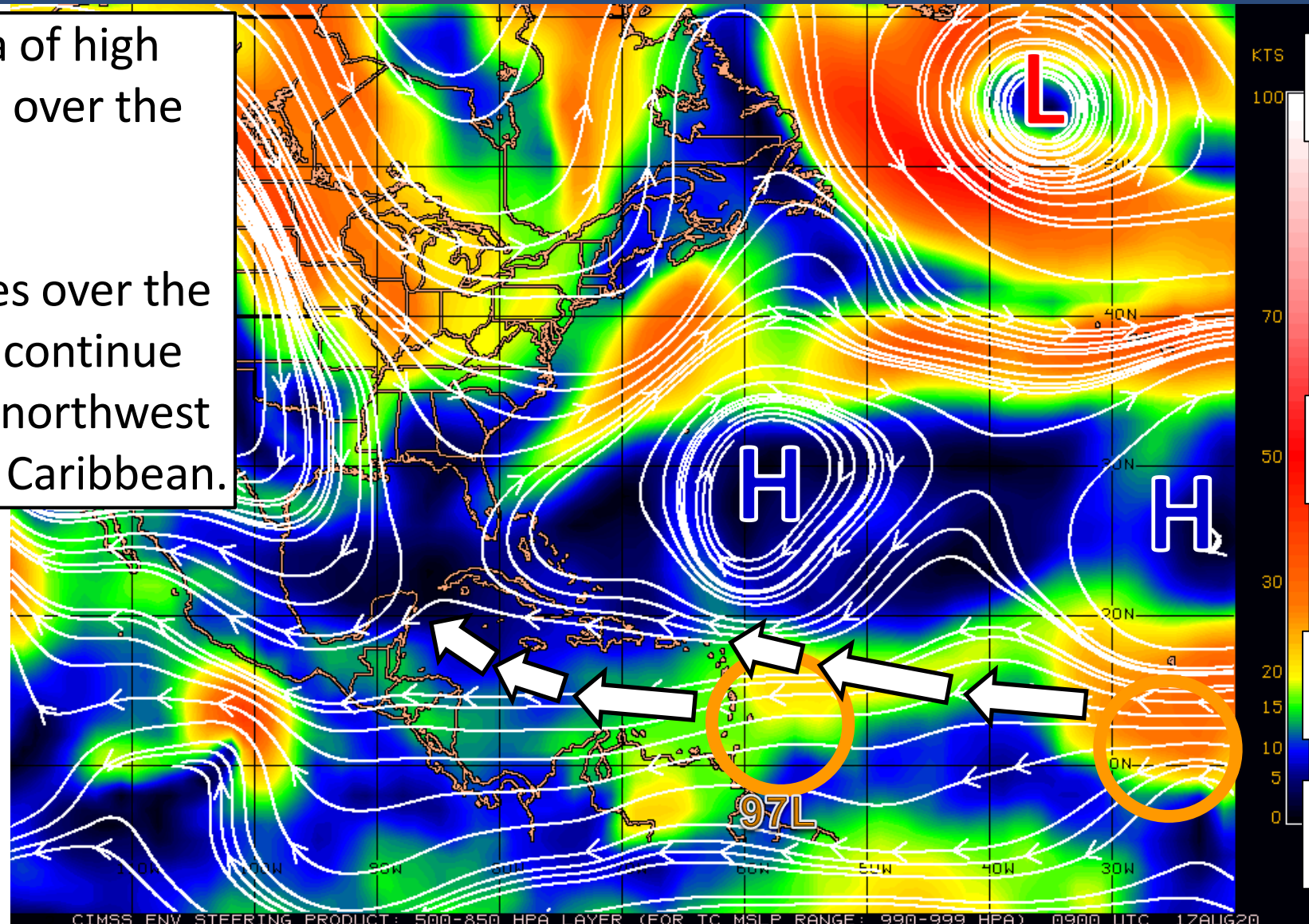
Steering Currents

What is moving the systems?

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 over the Atlantic.

The two tropical waves over the eastern Atlantic will continue moving west or west-northwest this week towards the Caribbean.



KTS

100

70

50

30

20

15

10

5

0

Fast Moving Storm

Fast Moving Storm

Typical Moving Storm

Slow Moving Storm

CIMSS ENV STEERING PRODUCT: 500-850 HPA LAYER (FOR TC MSLP RANGE: 990-999 HPA) 0900 UTC 17AUG20



Model Forecast Tracks

Ensembles Models

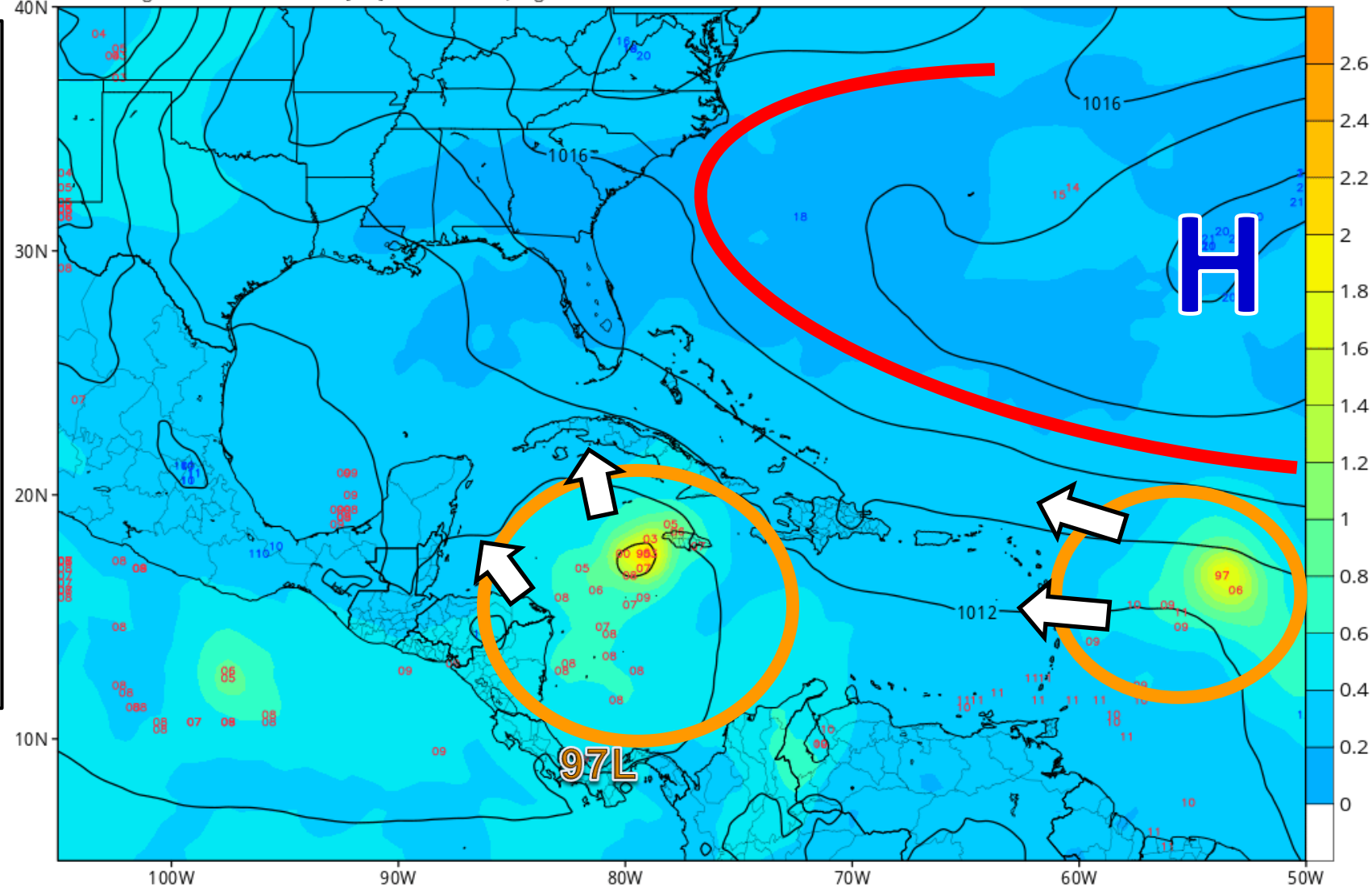
Both tropical waves will continue to move west over the next 5 days.

On Friday, Invest 97L (the one now nearing the Caribbean) will be in the western Caribbean with the second one (now near the coast of Africa) approaching the Lesser Antilles.

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

Init: 00z Aug 17 2020 Forecast Hour: [108] valid at 12z Fri, Aug 21 2020

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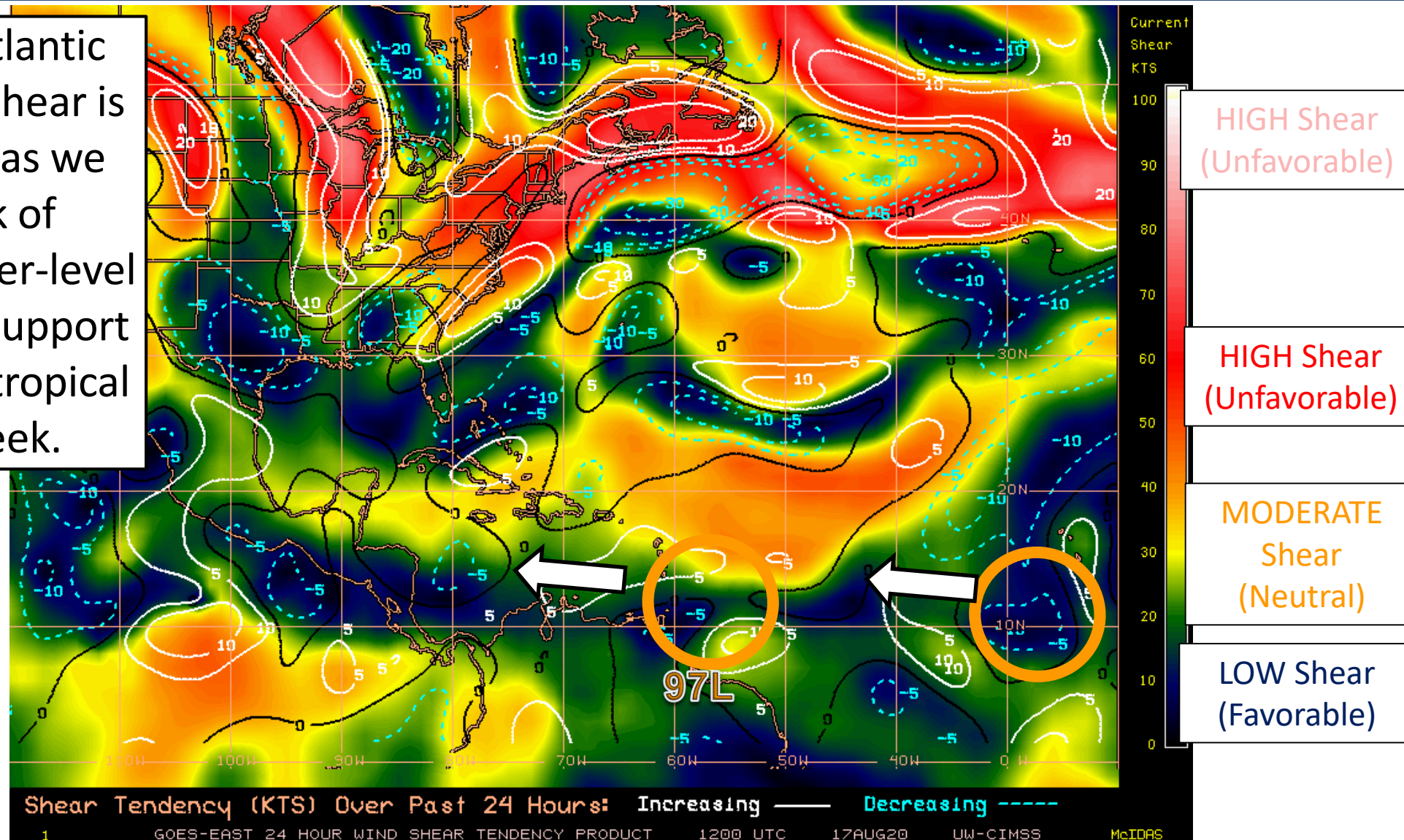


Wind Shear

Is the environment favorable for the systems?

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).

Across the tropical Atlantic and Caribbean, wind shear is gradually decreasing as we head into the peak of hurricane season. Upper-level winds are forecast to support development of both tropical waves later this week.



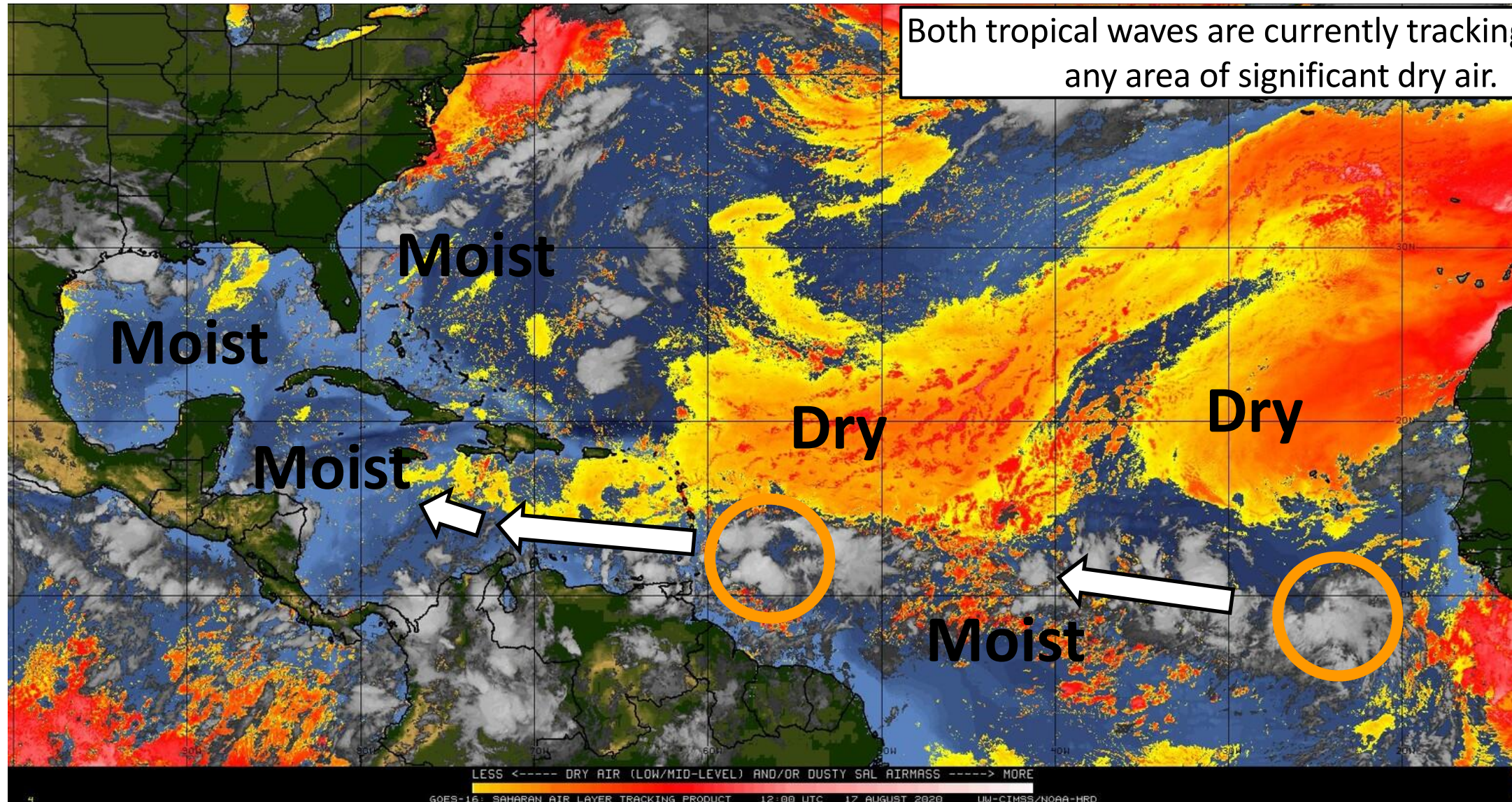


Dry Air & Saharan Dust

Is the environment favorable for the systems?

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

Both tropical waves are currently tracking south of any area of significant dry air.





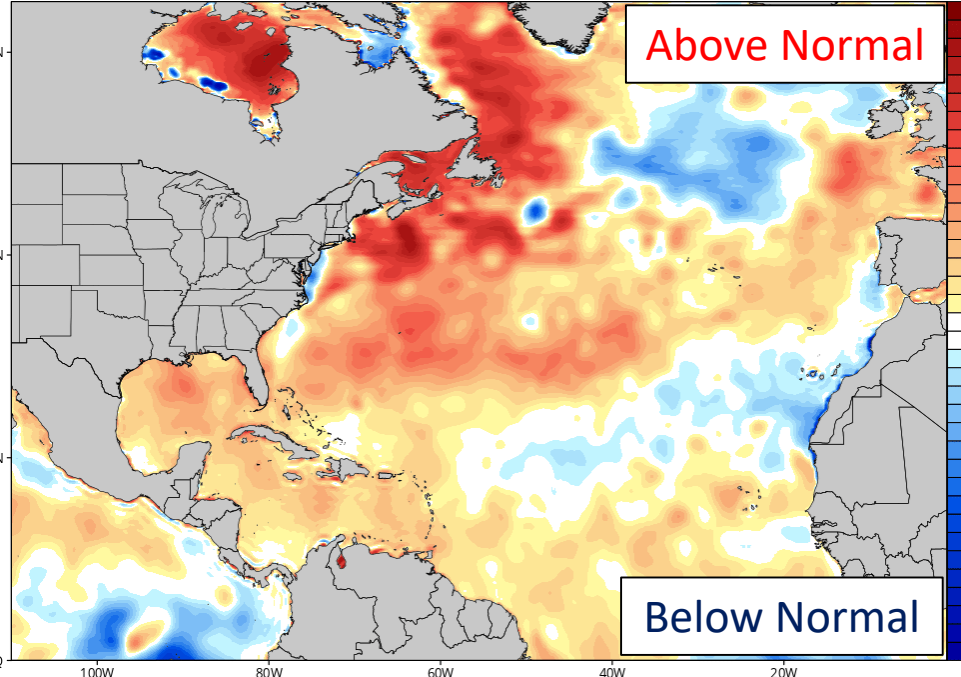
Sea Surface Temperatures & Anomalies

Is the ocean favorable for the systems?

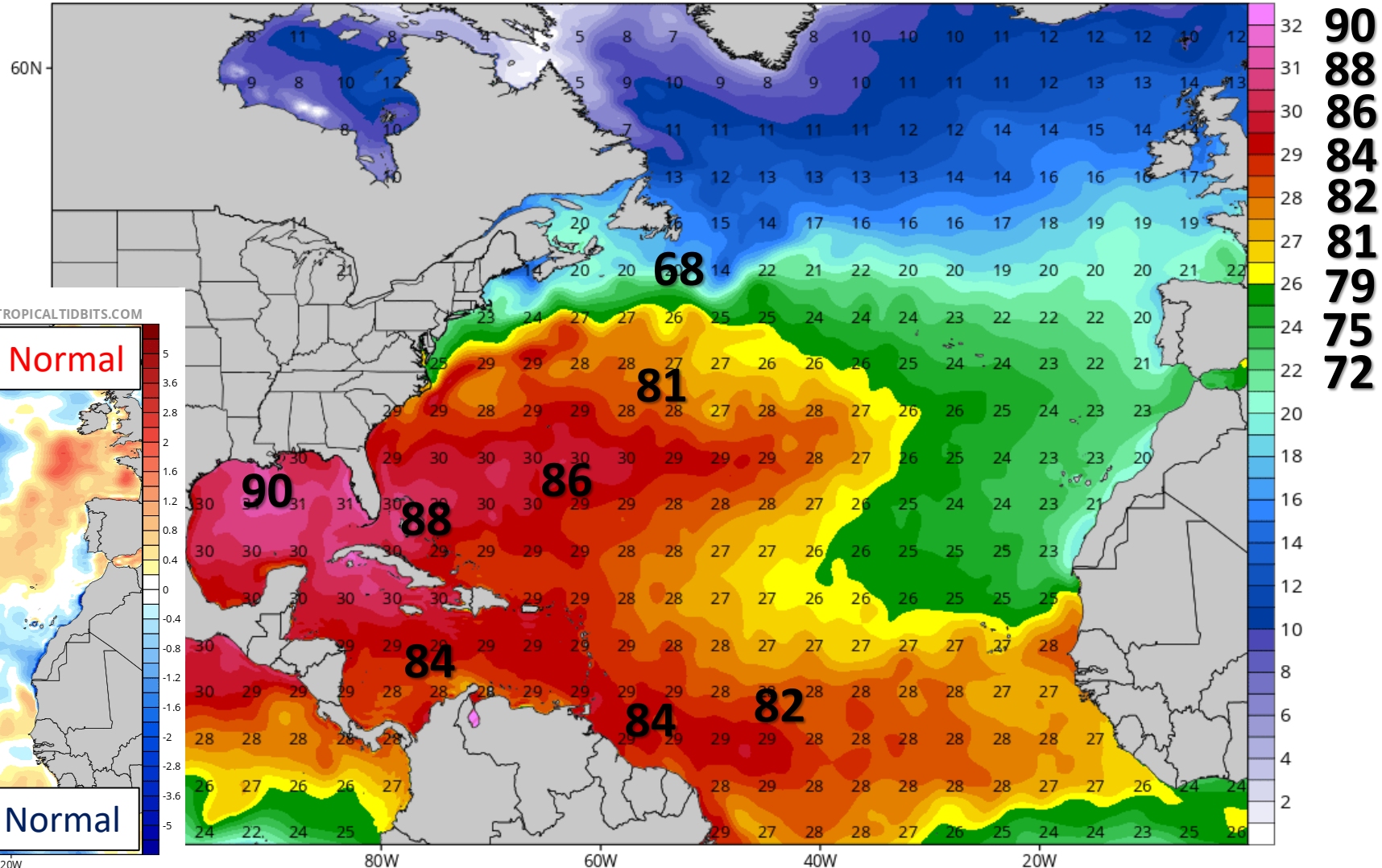
Water temperatures will warm the further west the tropical waves move.

Water temperatures are above normal across much of the Atlantic, Caribbean, and Gulf of Mexico, supporting tropical development.

CDAS Sea Surface Temperature Anomaly (°C) (based on CFSR 1981-2010 Climatology)
Analysis Time: 06z Aug 17 2020



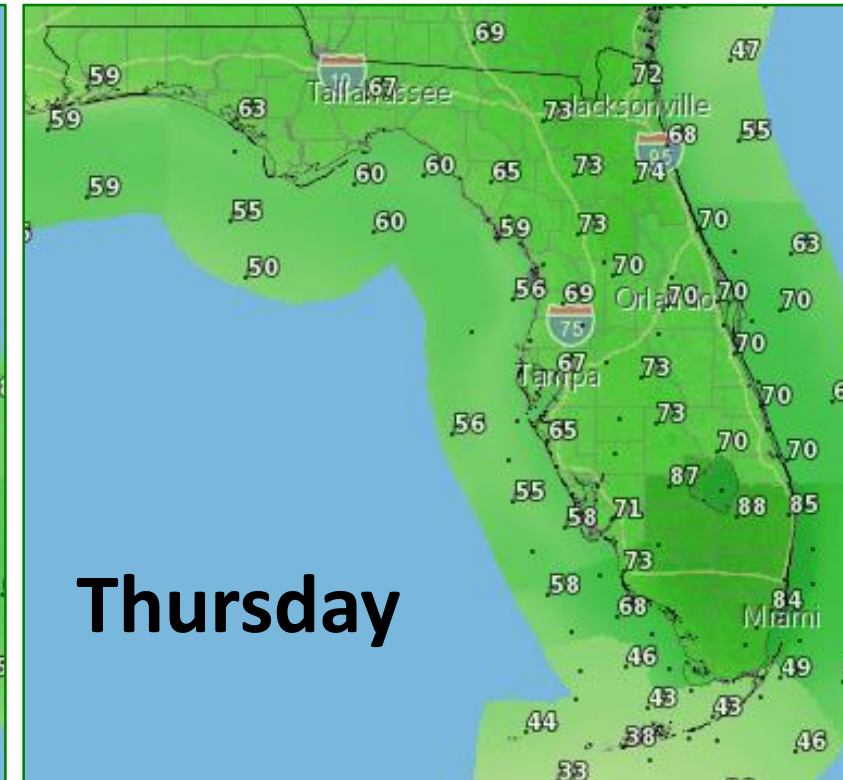
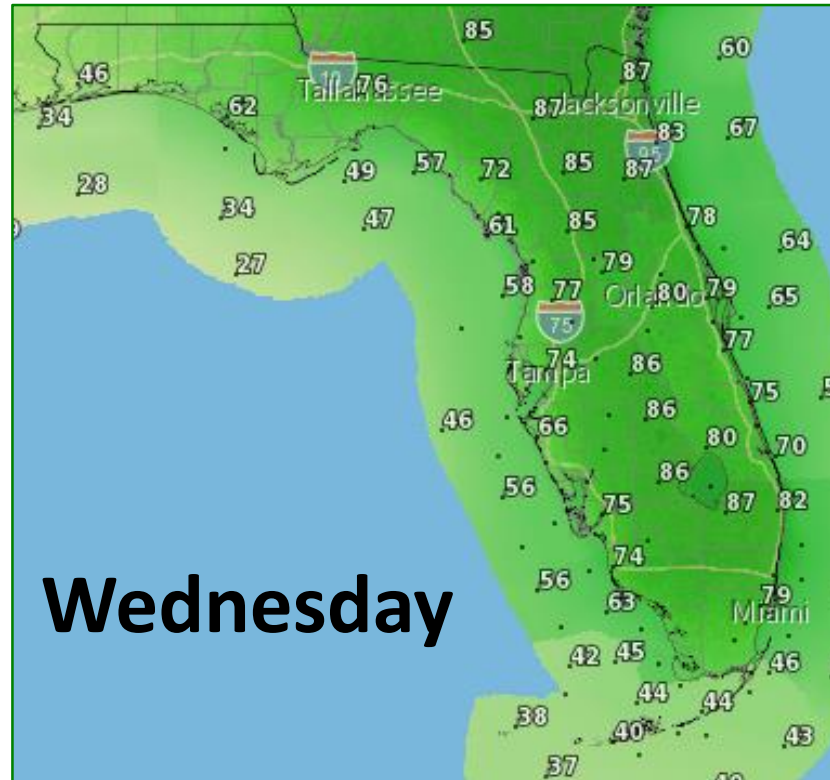
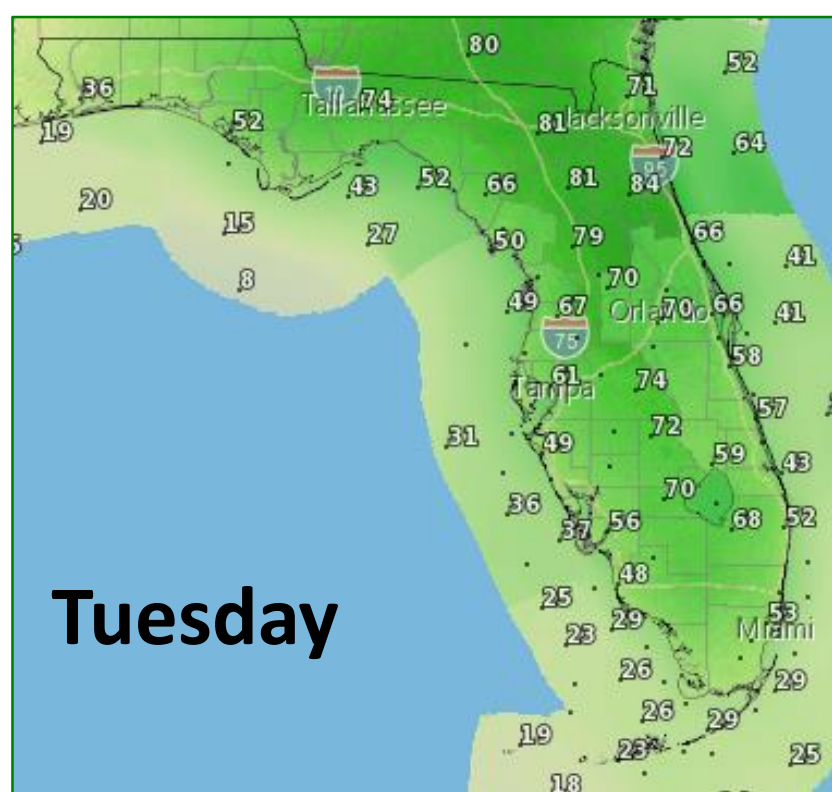
CDAS Sea Surface Temperature (°C)
Analysis Time: 06z Aug 17 2020





Rain Chances Next 3 Days

****Unrelated to the Tropics****



A stalled front across North Florida will bring high rain chances across the state.

Localized flash flood and severe weather threat each afternoon.



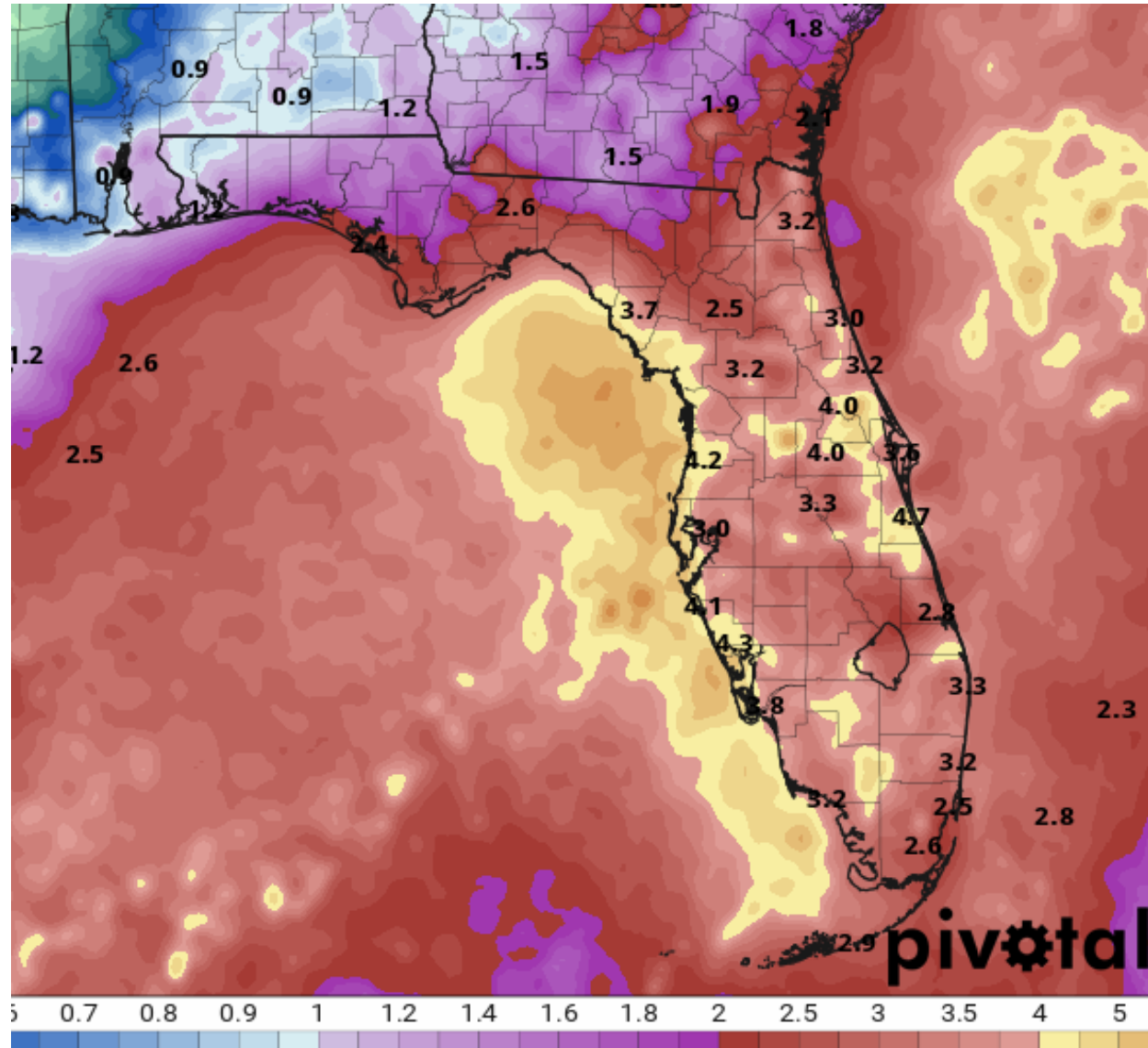
Rainfall Totals Next 7 Days

****Unrelated to the Tropics****

Cumulative over 7 days

**Highest totals along the
West Coast, especially later
in the week.**

**Widespread 3-4"
Locally 6"+**





Overall Summary

Invest 97L - Tropical Wave nearing the Lesser Antilles

- Shower and thunderstorm activity continues with a fast moving tropical wave a couple hundred miles east of the Lesser Antilles.
- This tropical wave will move west through the Caribbean this week where the environment will become favorable for gradual development.
- The system will near the western Caribbean/Yucatan Peninsula later this week (around Friday).
- The National Hurricane Center gives the system a 20% (low) chance of development over the next 48 hours, but a 50% (medium) chance over the next 5 days.

Tropical Wave near Africa

- A strong tropical wave located near the coast of Africa may gradually organize as it moves westward across the tropical Atlantic.
- The system will near the northeastern Caribbean later this week (around Friday).
- The National Hurricane Center gives the system a 20% (low) chance of development over the next 48 hours, but a 60% (medium) chance over the next 5 days.

Florida Outlook:

- While both tropical waves do not pose an immediate threat to the state, **both should be monitored closely this week**. As the systems continue west towards the Caribbean and/or southwestern Atlantic, conditions appear likely to support development.
- The next names on the list are Laura and Marco.
- Unrelated to the tropical systems, a stalled cold front will bring high rain chances to the state this week, with widespread rainfall totals of 2-4" over the next 7 days. A localized flash flood and severe weather threat exists each afternoon.

The next briefing packet will be issued Tuesday 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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