



TROPICAL UPDATE



10:00 AM EST

Monday, November 2, 2020

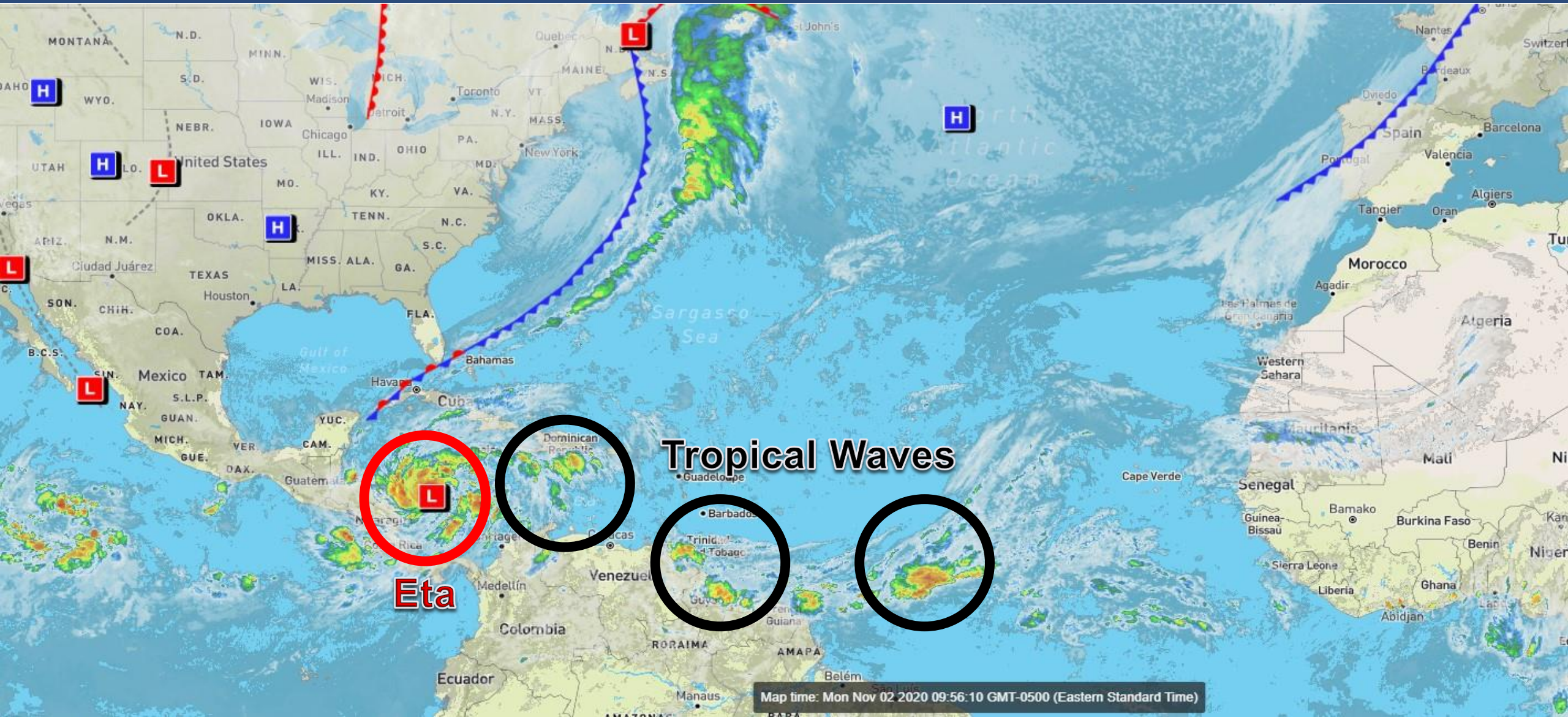
Hurricane Eta

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



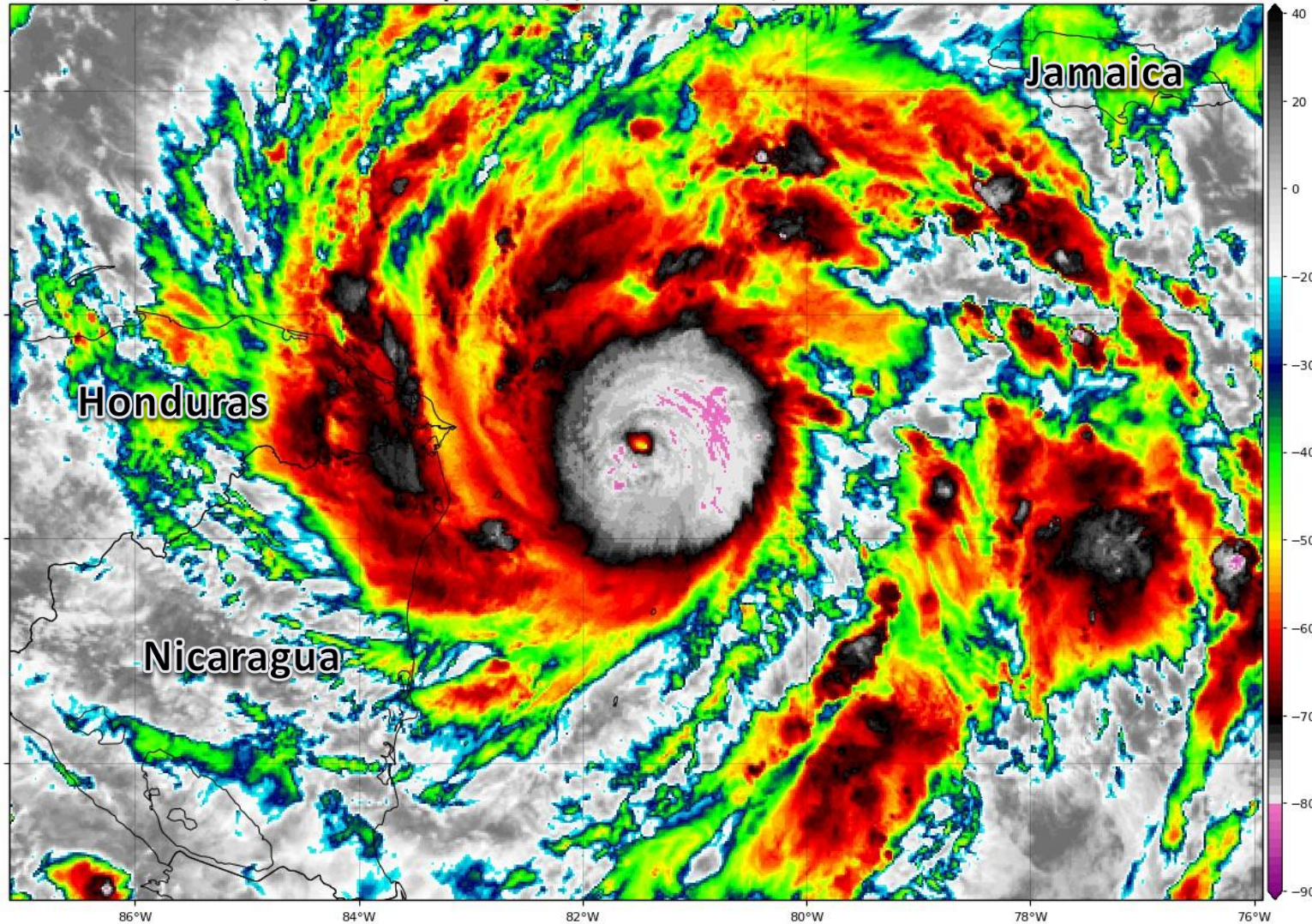


Satellite Imagery

Hurricane Eta – Central Caribbean Sea

GOES-16 Channel 13 (IR) Brightness Temperature (°C) at 14:45Z Nov 02, 2020

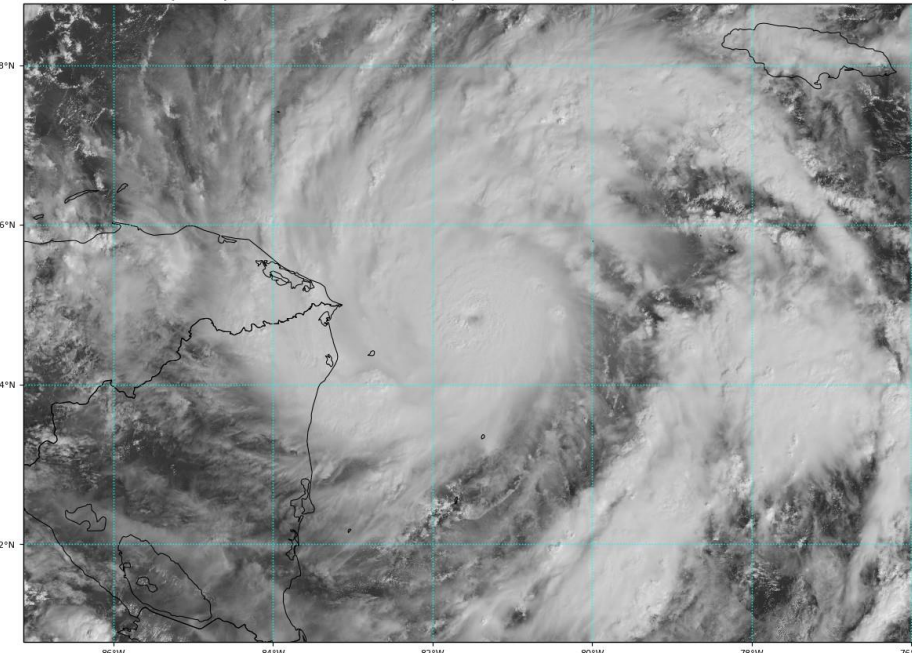
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Eta continues to rapidly strengthen, with a tiny, well-defined eye developing and a symmetric look to the core of the hurricane.

GOES-16 Channel 2 (visible) Reflectance at 14:45Z Nov 02, 2020

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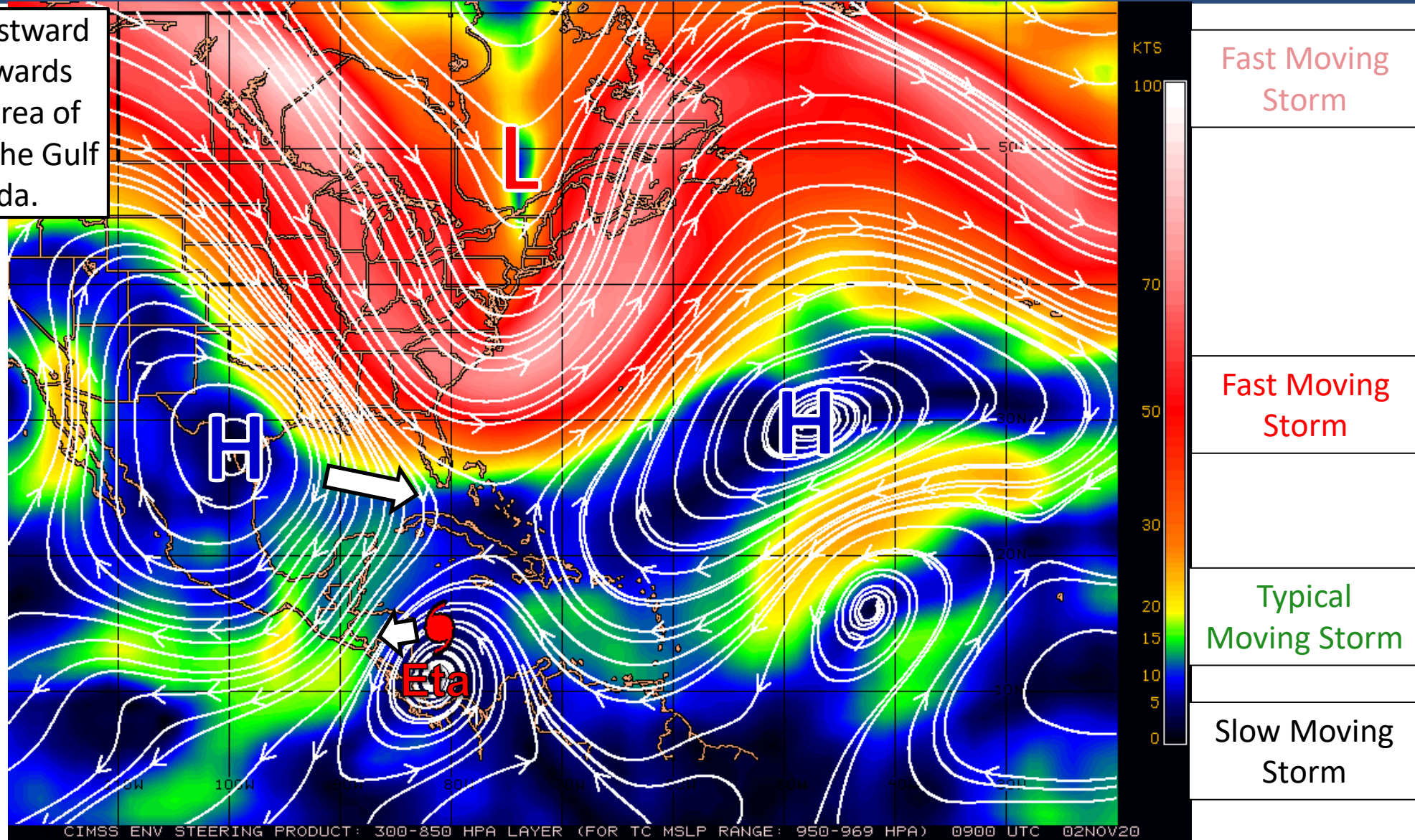


Steering Currents

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.

Eta will continue moving westward to west-southwestward towards Central America as a large area of high pressure builds in over the Gulf of Mexico and over Florida.





Official Forecast Track

From the National Hurricane Center – Hurricane Eta



- The center of Eta is located about 100 miles east of Nicaragua, moving west at 9 mph.
- This general motion will continue over the next couple of days, with the remnants possibly making a turn to the north by this weekend.
- Maximum sustained winds have rapidly increased to 110 mph (Category 2). Rapid strengthening will continue today, and Eta is forecast to make landfall as a Category 4 (140 mph winds) along the coast of Nicaragua tonight.
- There are many possible outcomes for the track forecast at days 4 and 5. The system could dissipate over the mountains of Central America, or move back into the western Caribbean.
- Even if the system dissipates over the mountains, the remnants could develop in the western Caribbean.



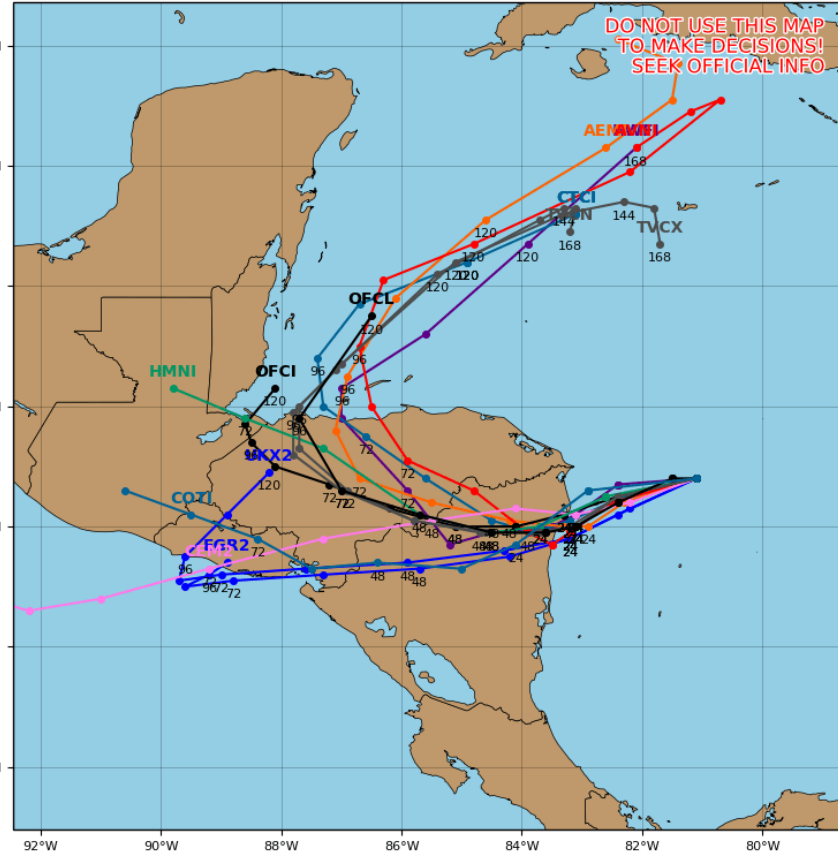
Model Forecast Tracks

Ensembles, Dynamical, and Statistical Models

Hurricane ETA Model Track Guidance

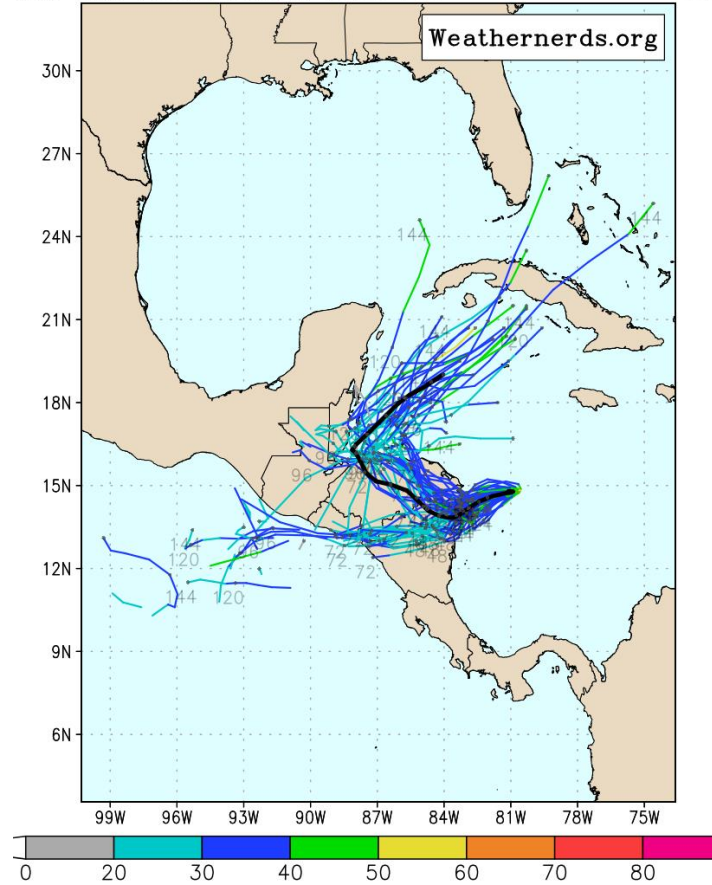
Initialized at 12z Nov 02 2020

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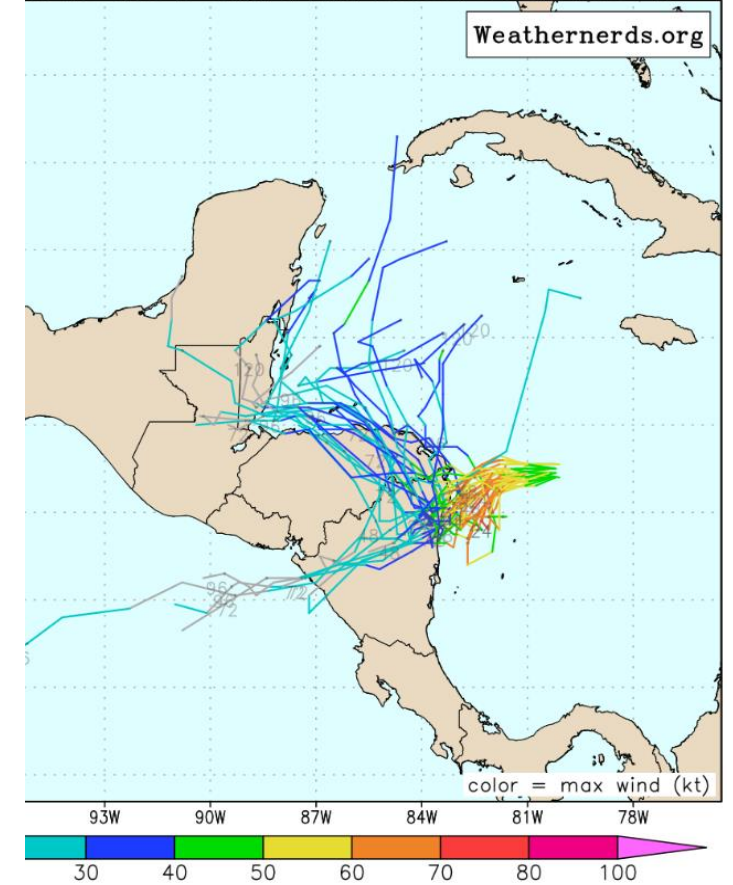


ble, init: 2020110206, AL29 Eta

colc



le (0-120 h only) , init: 2020110206, AL29 Eta



Models are in decent agreement about a west to west-southwest track into Nicaragua and Honduras over the next 48 hours. Eta itself or the remnants appear increasingly likely to move north and northeast back into the western Caribbean by this upcoming weekend. This part of the forecast is quite uncertain, but has trended towards redevelopment in the Caribbean.

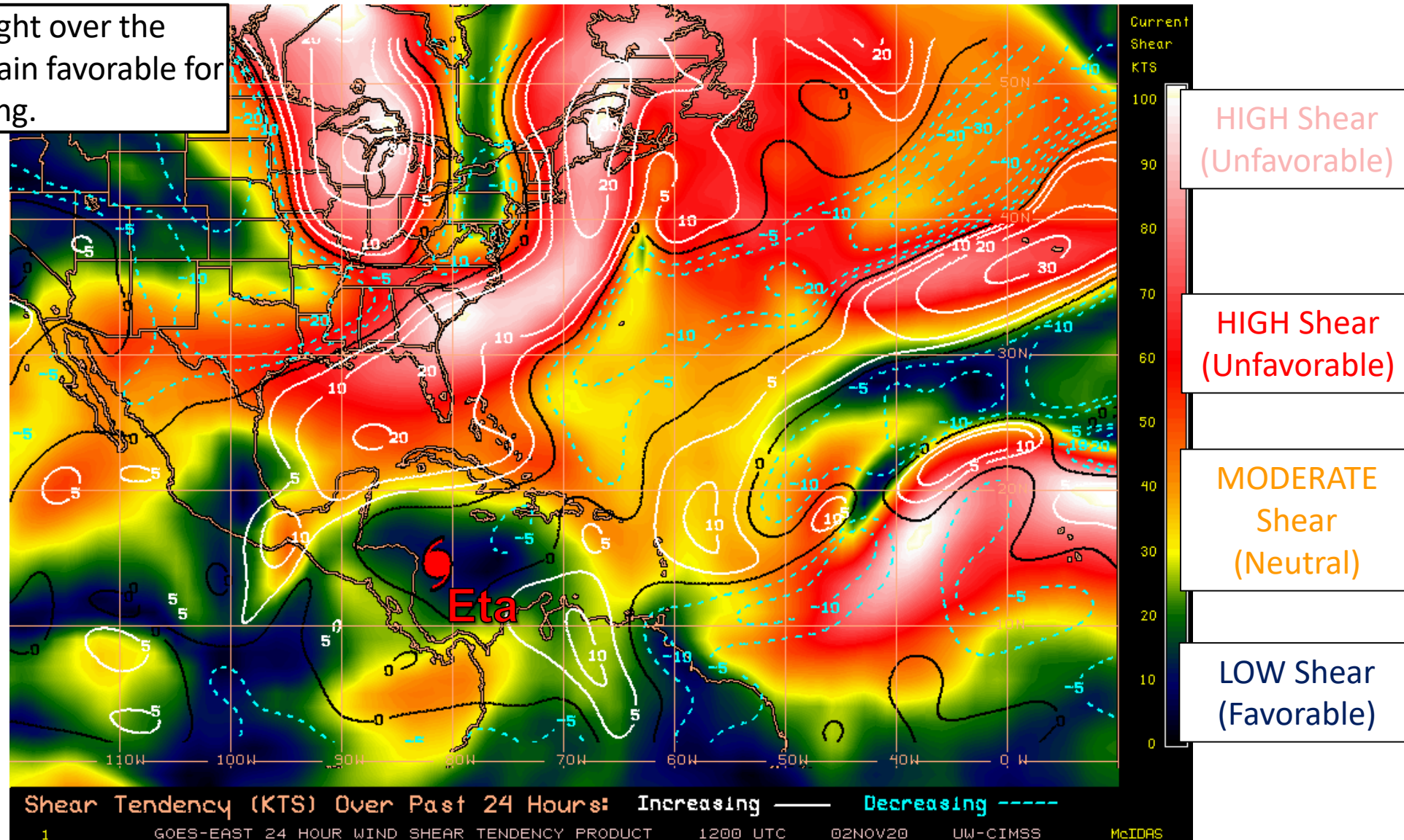


Wind Shear

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 remains very light over the Caribbean, and conditions remain favorable for rapid strengthening.

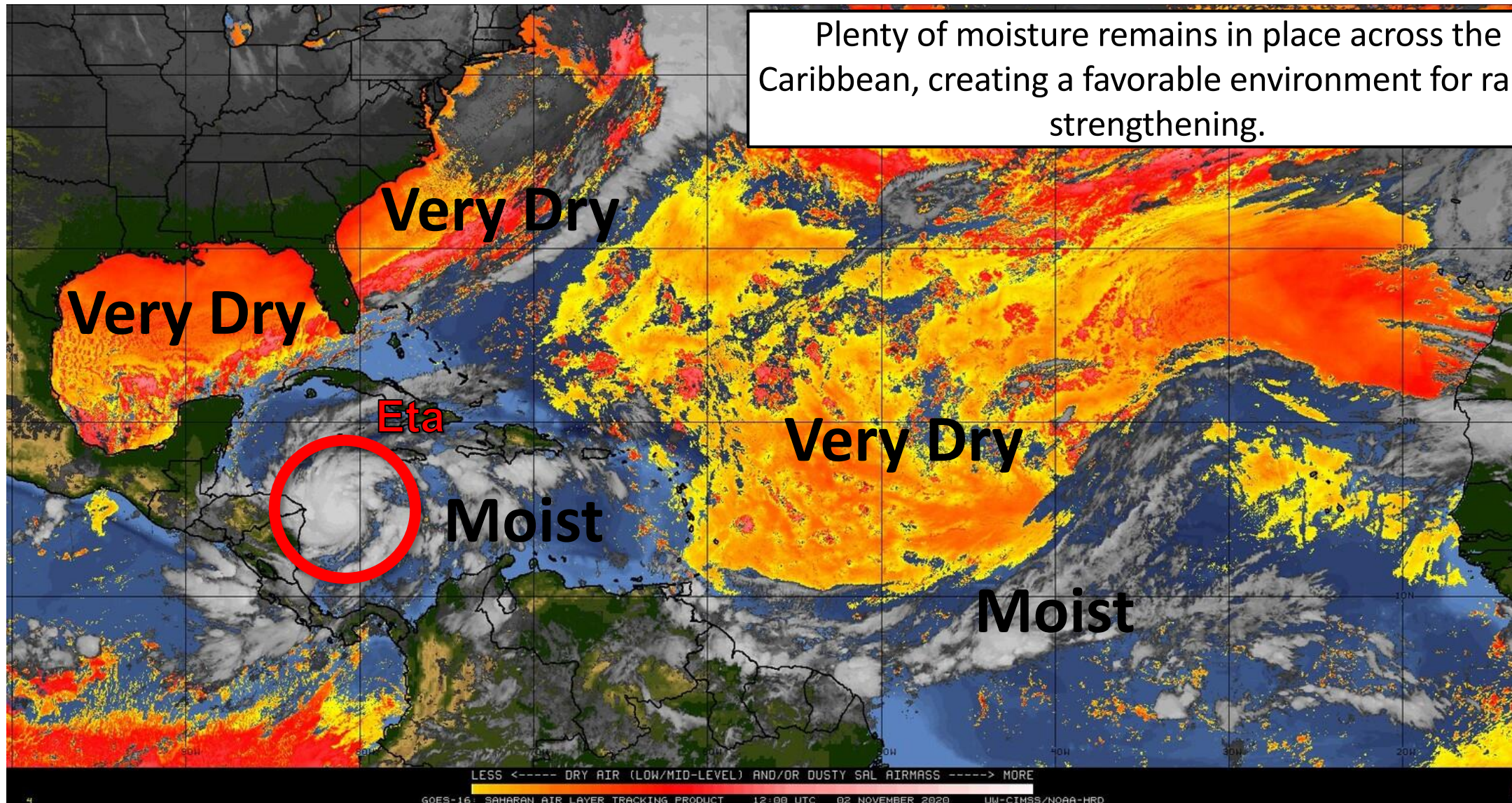




Dry Air & Saharan Dust

Is the environment favorable for the system?

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





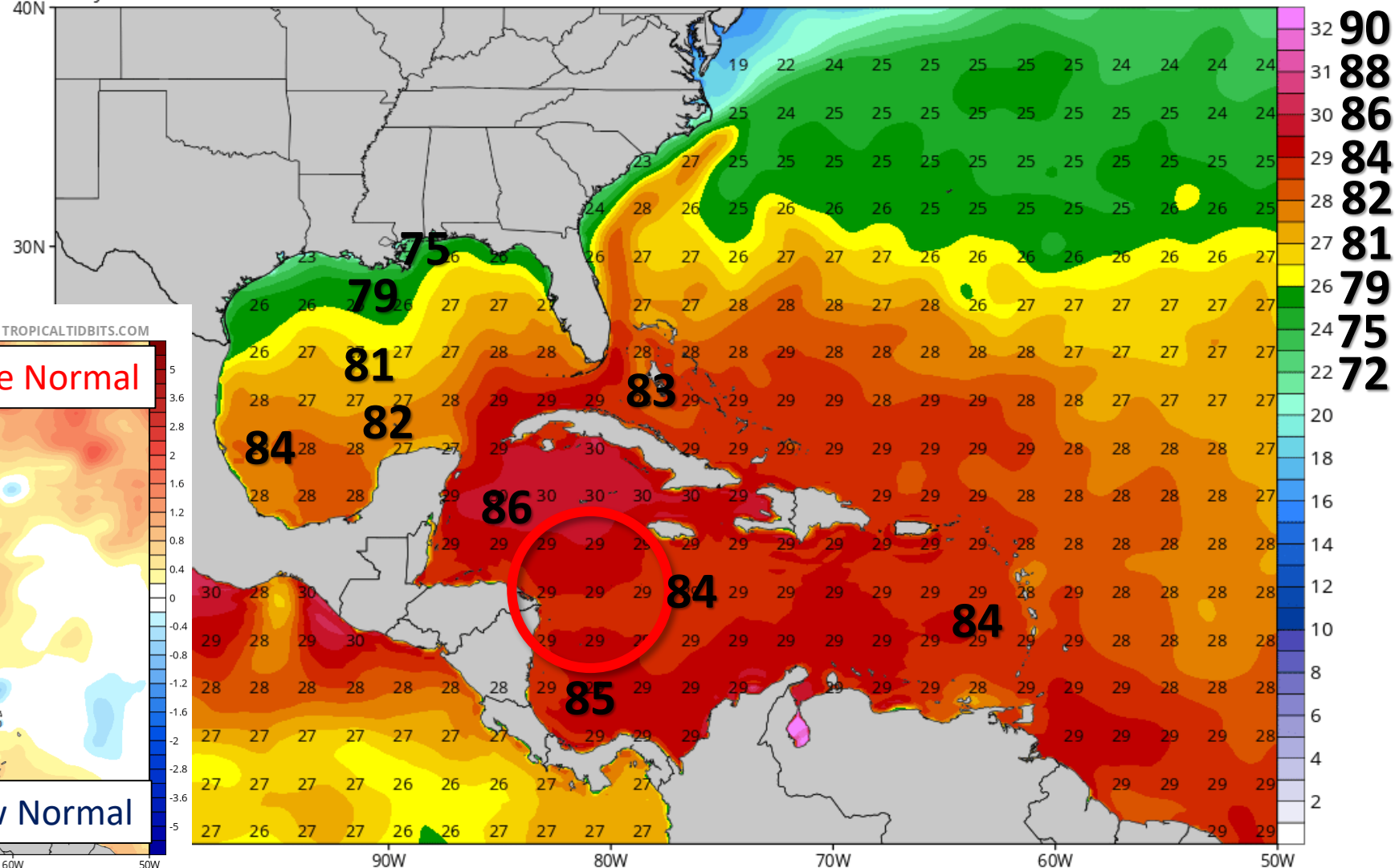
Sea Surface Temperatures & Anomalies

Is the ocean favorable for the system?

Temperatures across the Caribbean remain plenty warm- enough to support a major hurricane. These temperatures are above normal for early November.

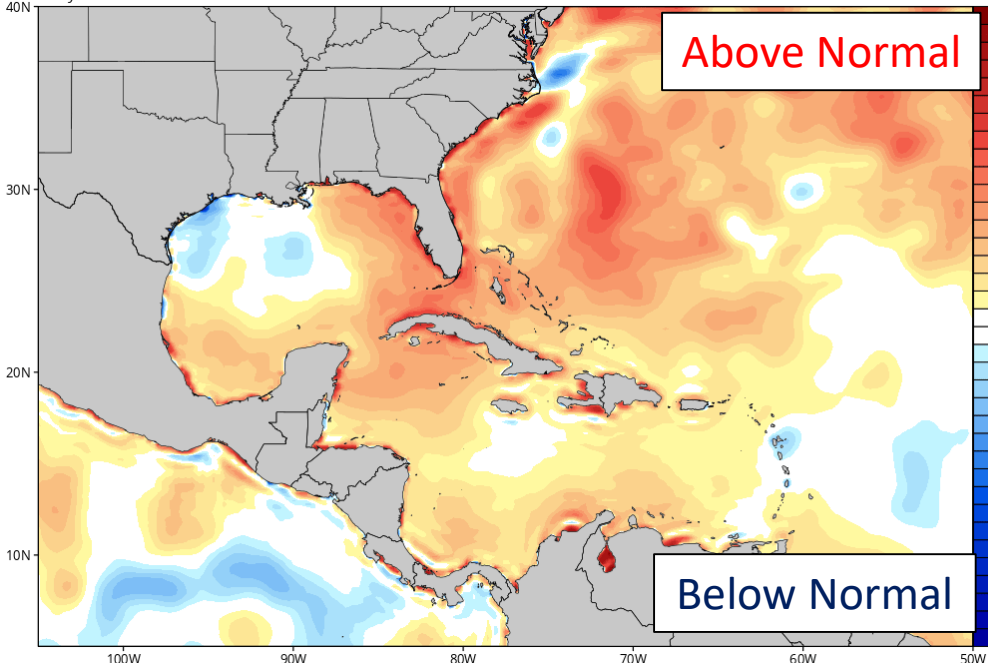
CDAS Sea Surface Temperature (°C)

Analysis Time: 06z Nov 02 2020



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

Analysis Time: 06z Nov 02 2020





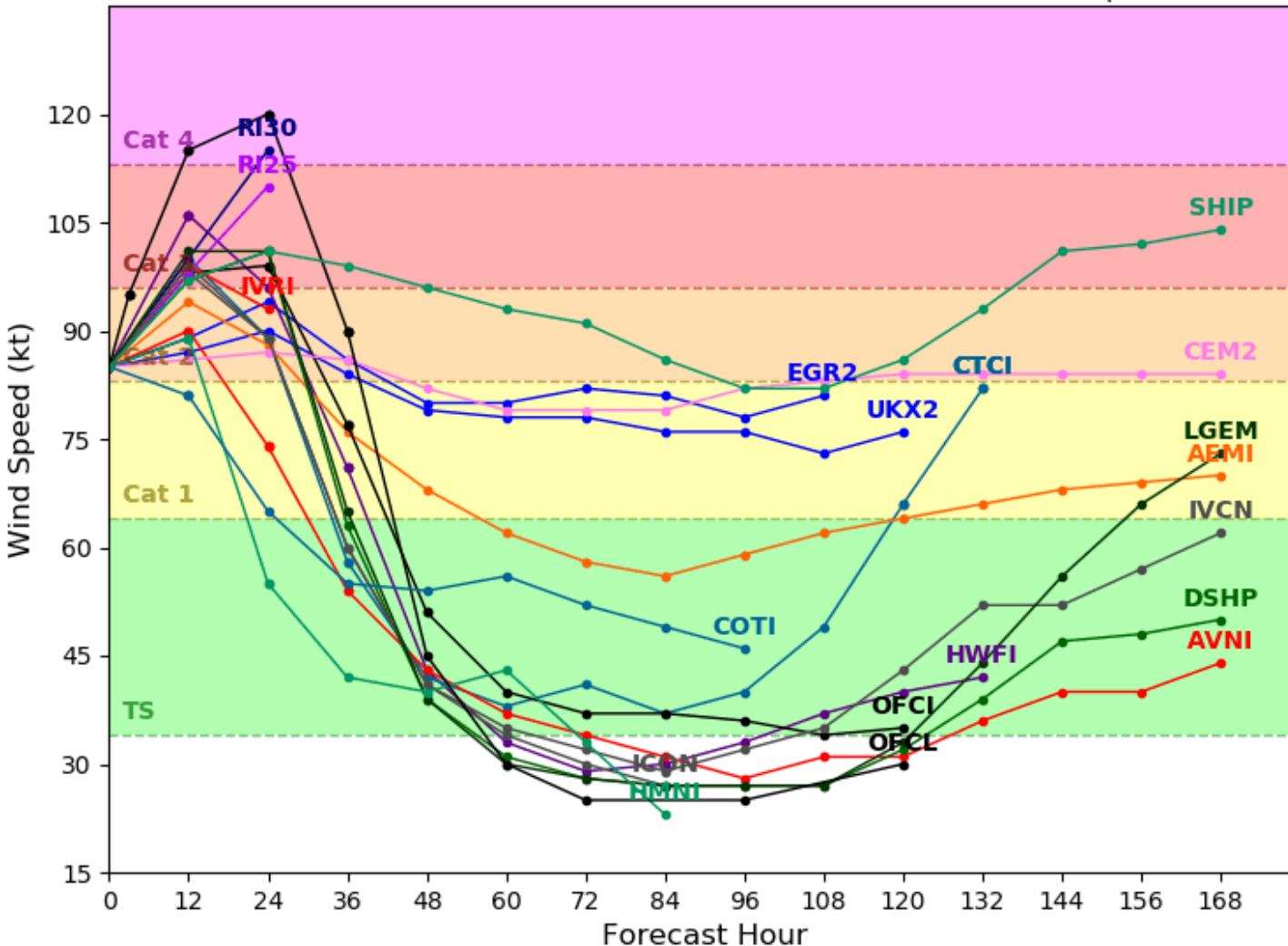
Model Forecast Intensity

Dynamical and Statistical Models

Hurricane ETA Model Intensity Guidance

Initialized at 12z Nov 02 2020

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Conditions are favorable for rapid intensification over the next 24 hours, before landfall.

Depending on the exact track, there is a wide range of solutions heading into this weekend. Do not focus on the details at this time.



Overall Summary

****Note: Due to Daylight Saving Time, advisories from the National Hurricane Center are now issued one hour earlier than usual. For example, the next full advisory on Eta will be at 4pm ET/3 PM CT with an intermediate intensity advisory at 1pm ET/12pm CT.****

Hurricane Eta

- Eta (ay-tah) rapidly strengthened overnight and is now a Category 2 hurricane with winds of 110 mph.
- Rapid strengthening will continue today, and Eta is forecast to make landfall as a Category 4 (140 mph winds) along the coast of Nicaragua tonight.
- The center of Eta is located about 100 miles east of Nicaragua, moving west at 9 mph.
- This general motion will continue over the next couple of days, with the remnants possibly making a turn to the north by this weekend.
- There are many possible outcomes for the track forecast at days 4 and 5. The system could dissipate over the mountains of Central America, or move back into the western Caribbean.
- Even if the system dissipates over the mountains, the remnants could develop in the western Caribbean.

Florida Outlook:

- No impacts from Tropical Storm Eta are expected through at least the next 5 days.
- *However, given the possibility of re-development in the western Caribbean later this week, Eta may need to be monitored heading into the upcoming weekend.*

The next tropics packet will be issued Tuesday morning with the 10AM ET advisory. For the latest information on the tropics, please visit the National Hurricane Center website at www.hurricanes.gov.



TROPICAL UPDATE



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Florida Division of Emergency Management

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