



TROPICAL UPDATE

3 PM EDT

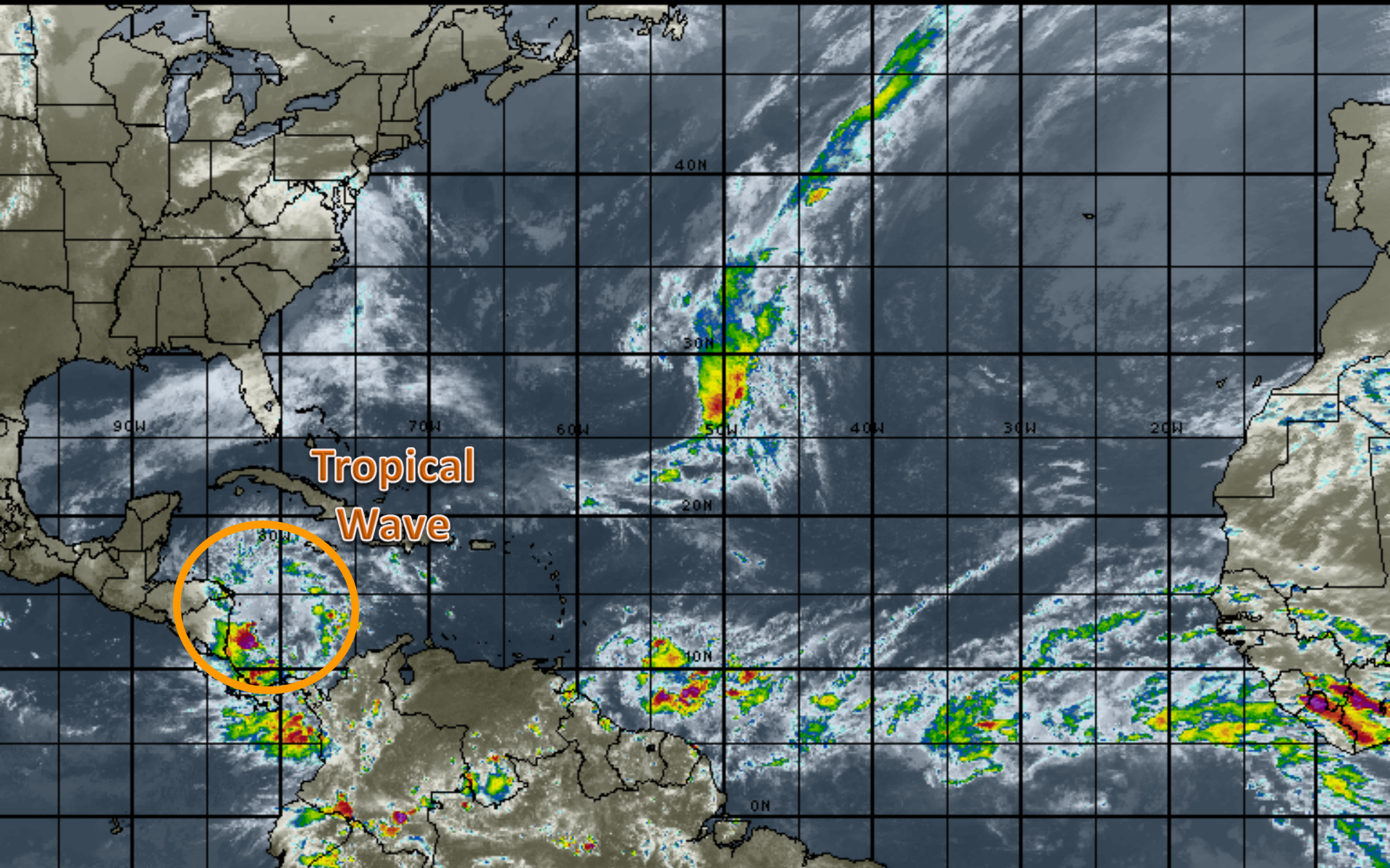
Monday, November 14, 2016

Tropical Wave (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.nhc.noaa.gov.

Atlantic Basin Satellite Image

18:00 14-NOV-2016 GMT Copyright © 1998-2016 MSI Corporation <http://www.usi.com>





Five-Day Graphical Tropical Weather Outlook

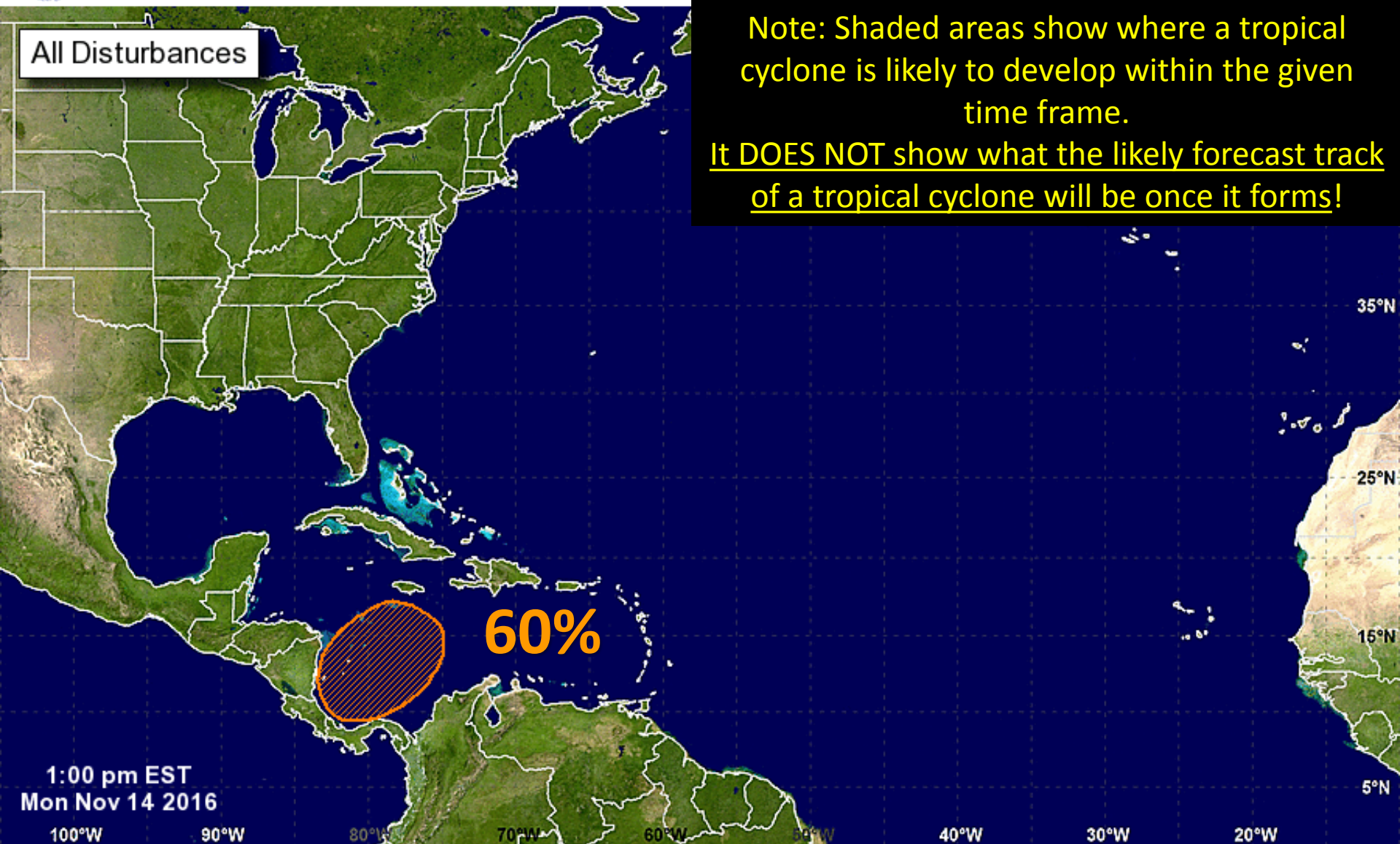
National Hurricane Center Miami, Florida



All Disturbances

Note: Shaded areas show where a tropical cyclone is likely to develop within the given time frame.

It DOES NOT show what the likely forecast track of a tropical cyclone will be once it forms!



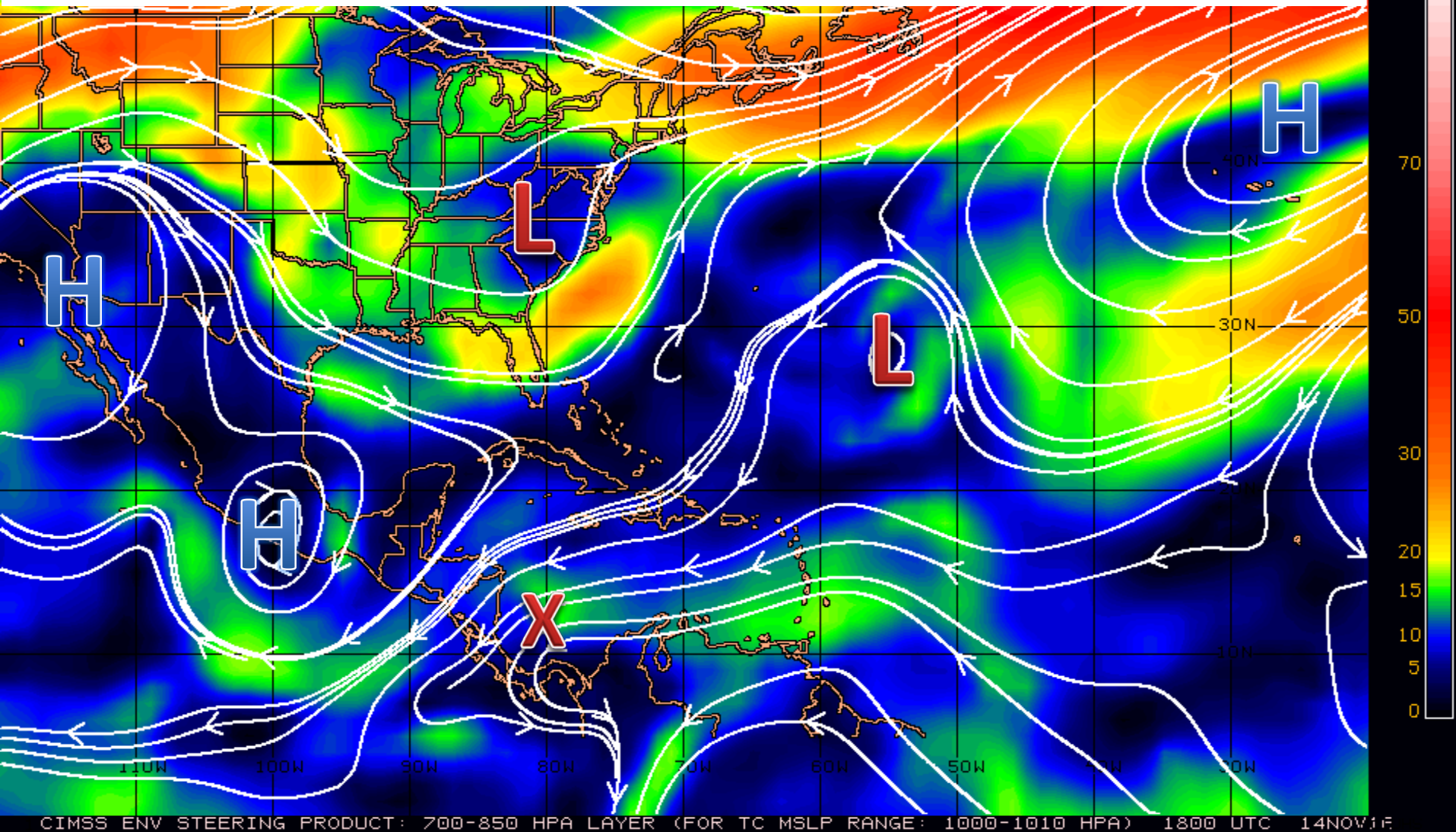
Tropical Cyclone Formation Potential for the Five-Day Period Ending at 1:00 pm EST Sat Nov 19 2016

Chance of Cyclone Formation in Five Days: ■ Low < 40% ■ Medium 40-60% ■ High > 60%

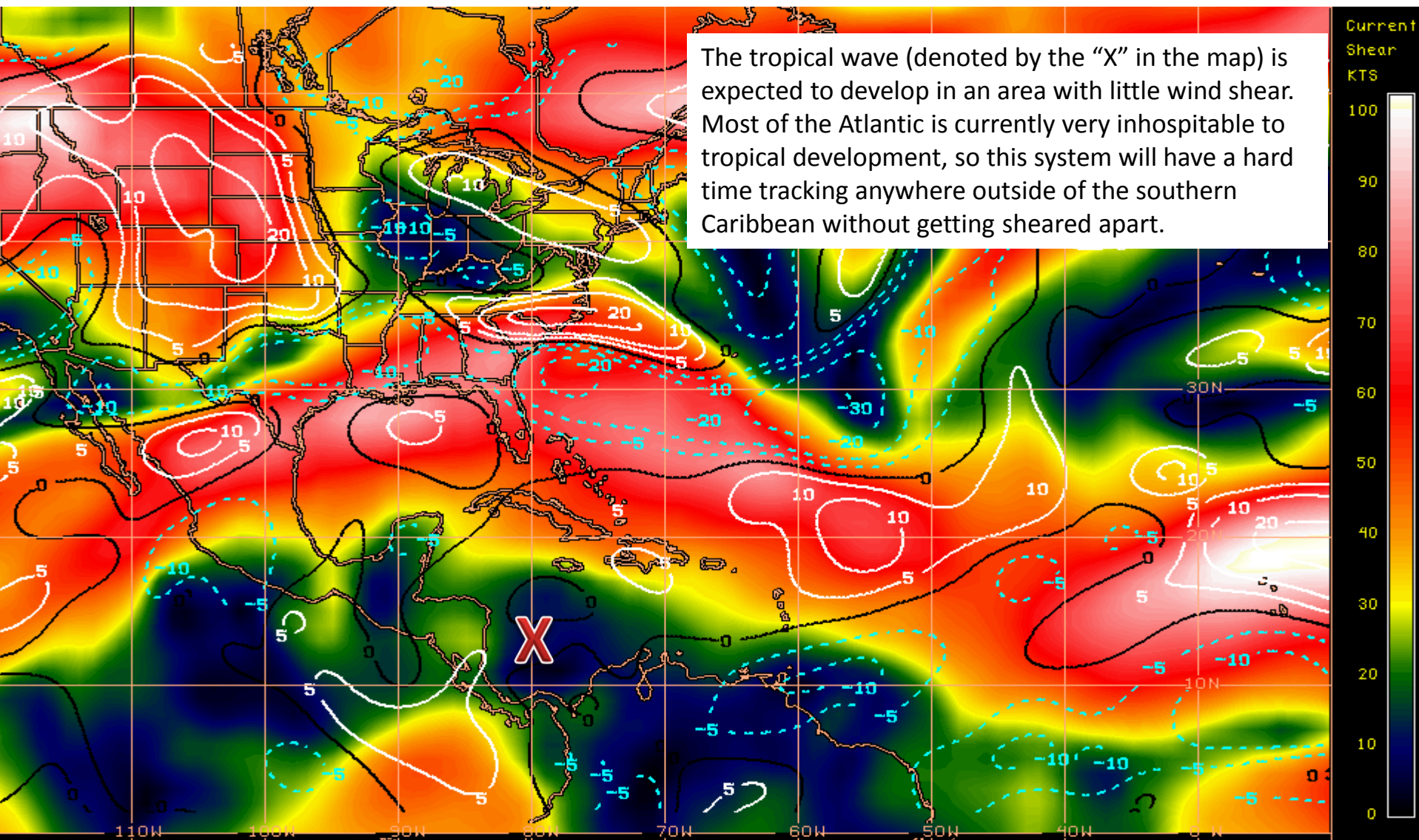
X indicates current disturbance location; shading indicates potential formation area.

Steering Currents

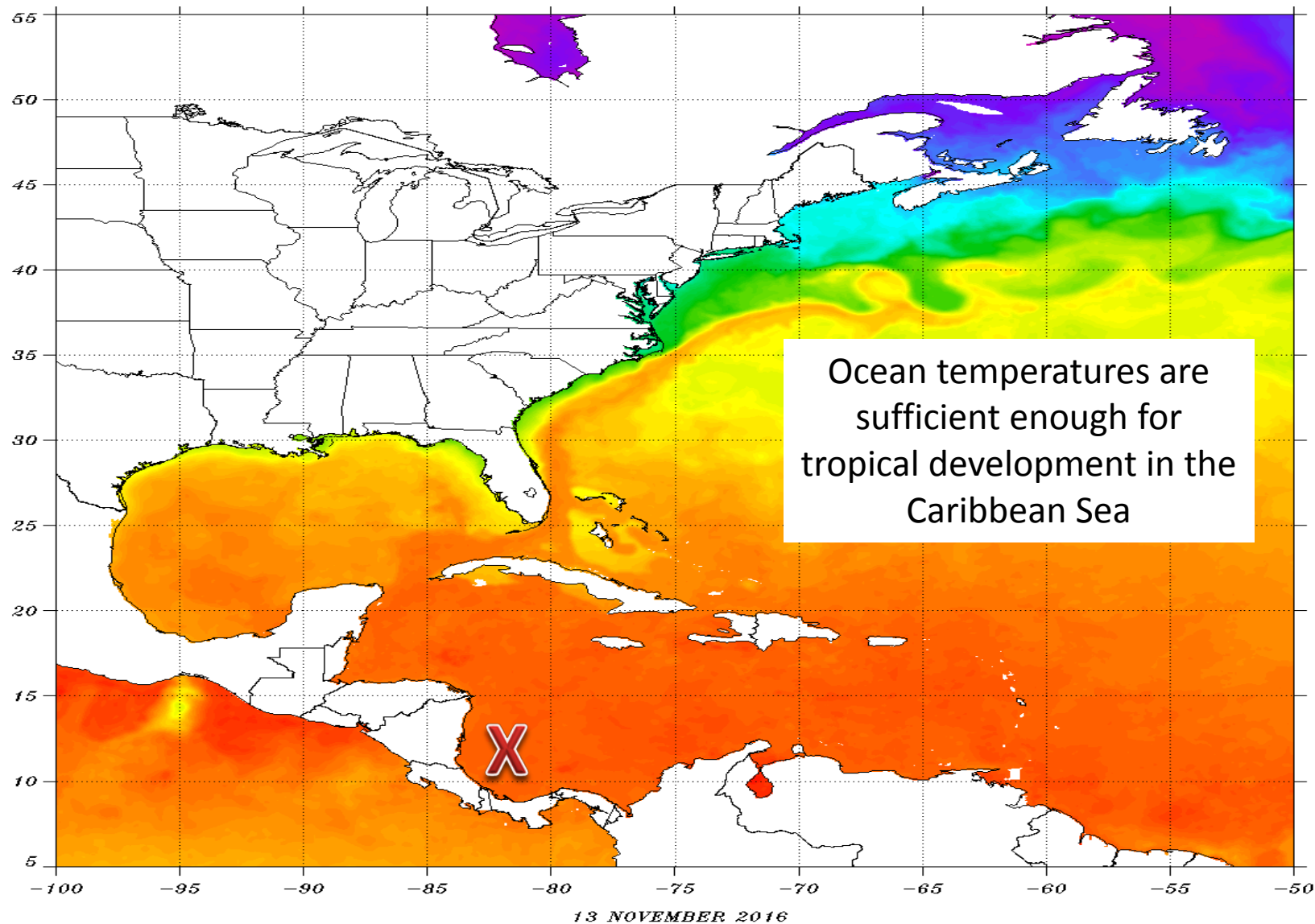
The area of disturbed weather (marked with an "X" on the map) is located in the extreme southern part of the Caribbean Sea just north of Costa Rica. At this time, the system is an open wave with little organization to it. However, conditions are expected to become favorable for tropical development by the end of the week. As of now, we do not know what the general steering patterns in the area will be, so we will have to wait a few days to have a better gist of the steering patterns.



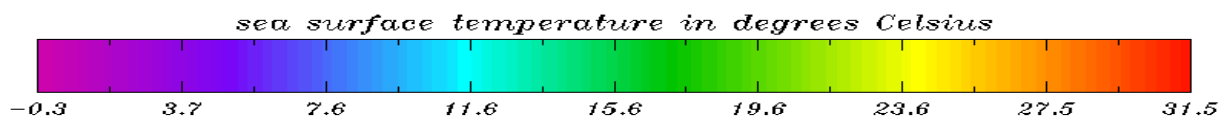
Current Wind Shear (shaded) and Shear Tendency (contours)



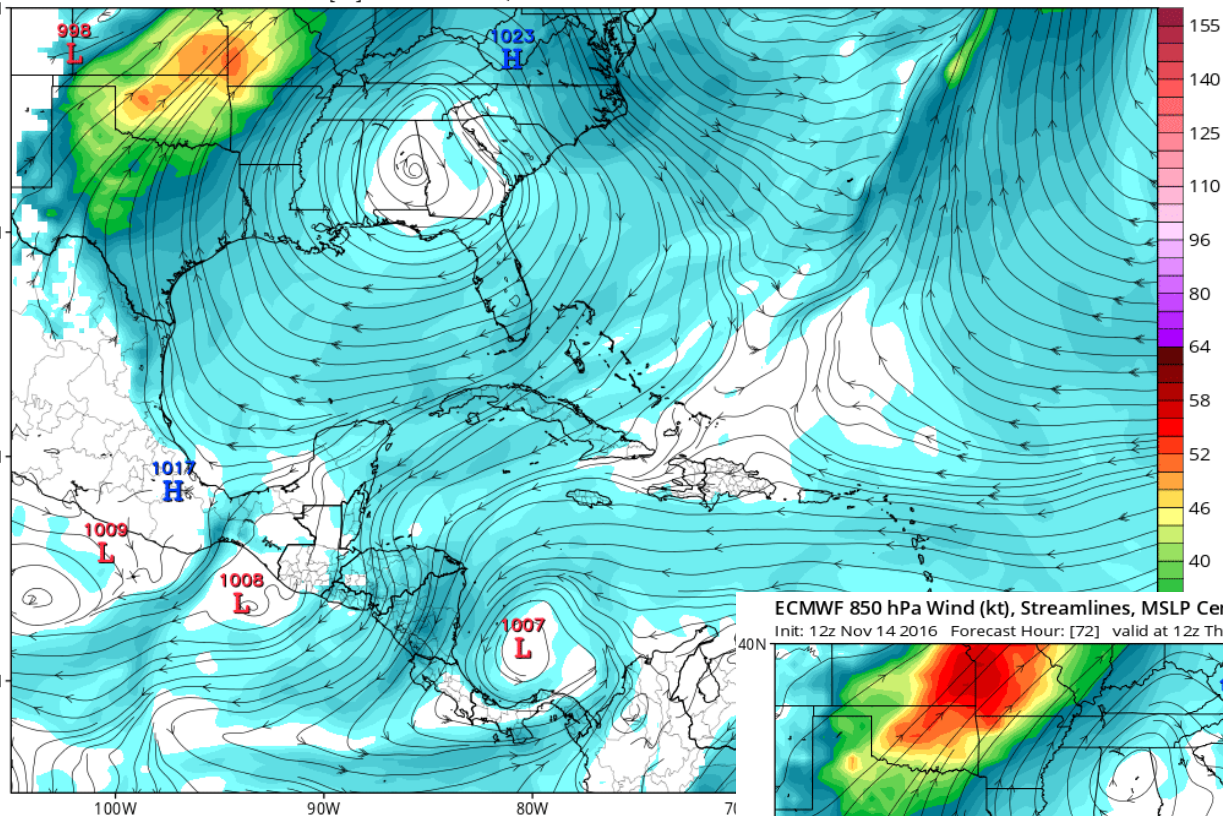
Shear Tendency (KTS) Over Past 24 Hours: Increasing — Decreasing ----



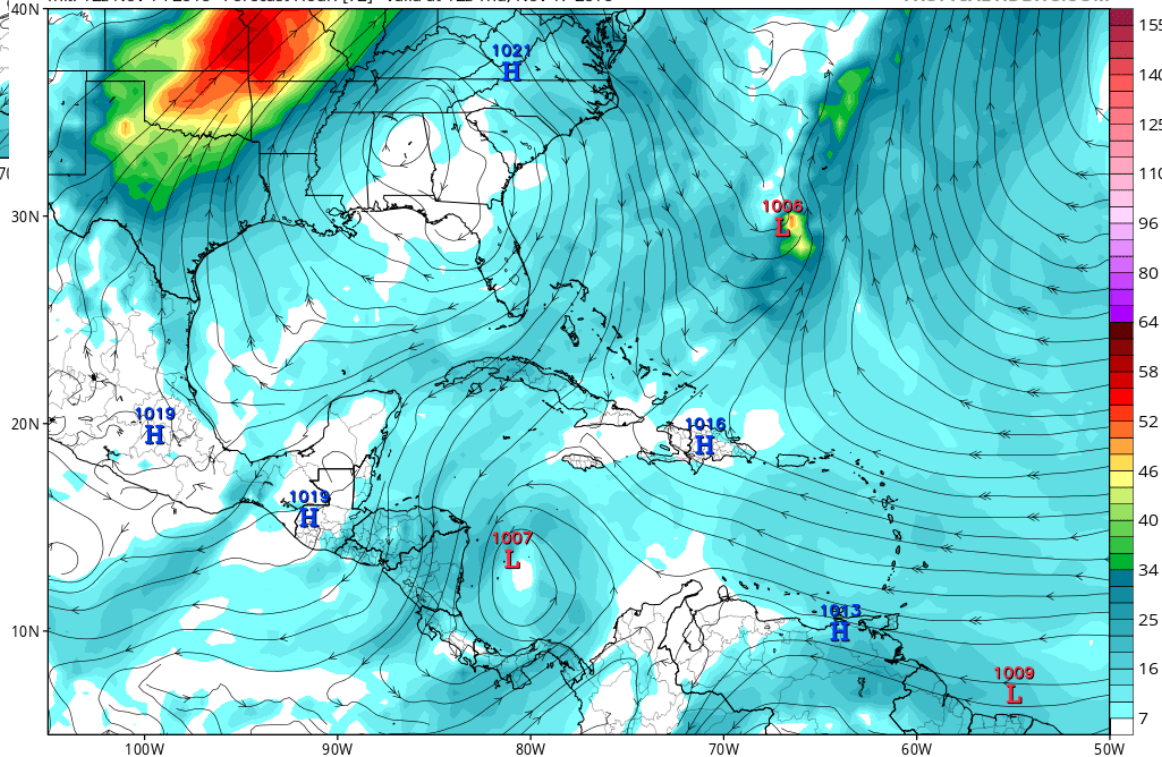
Sea Surface Temperatures



Model Forecast Comparison: Thursday 7AM



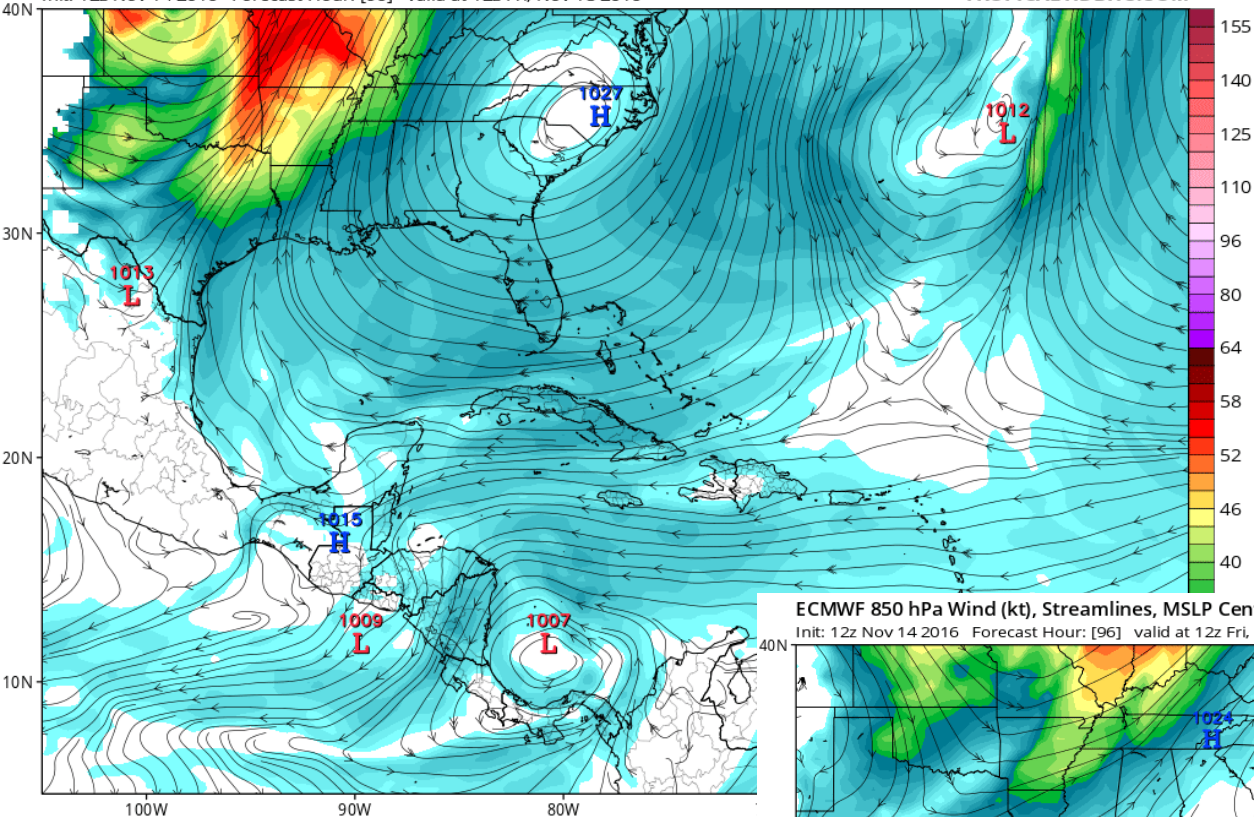
ECMWF 850 hPa Wind (kt), Streamlines, MSLP Centers (hPa)
 Init: 12z Nov 14 2016 Forecast Hour: [72] valid at 12z Thu, Nov 17 2016



The GFS and European models are in agreement that the wave will begin to develop a closed surface circulation on Thursday. Though, it is still expected to be a very weak system.

GFS 850 hPa Wind (kt), Streamlines, MSLP Centers (hPa)
 Init: 12z Nov 14 2016 Forecast Hour: [96] valid at 12z Fri, Nov 18 2016

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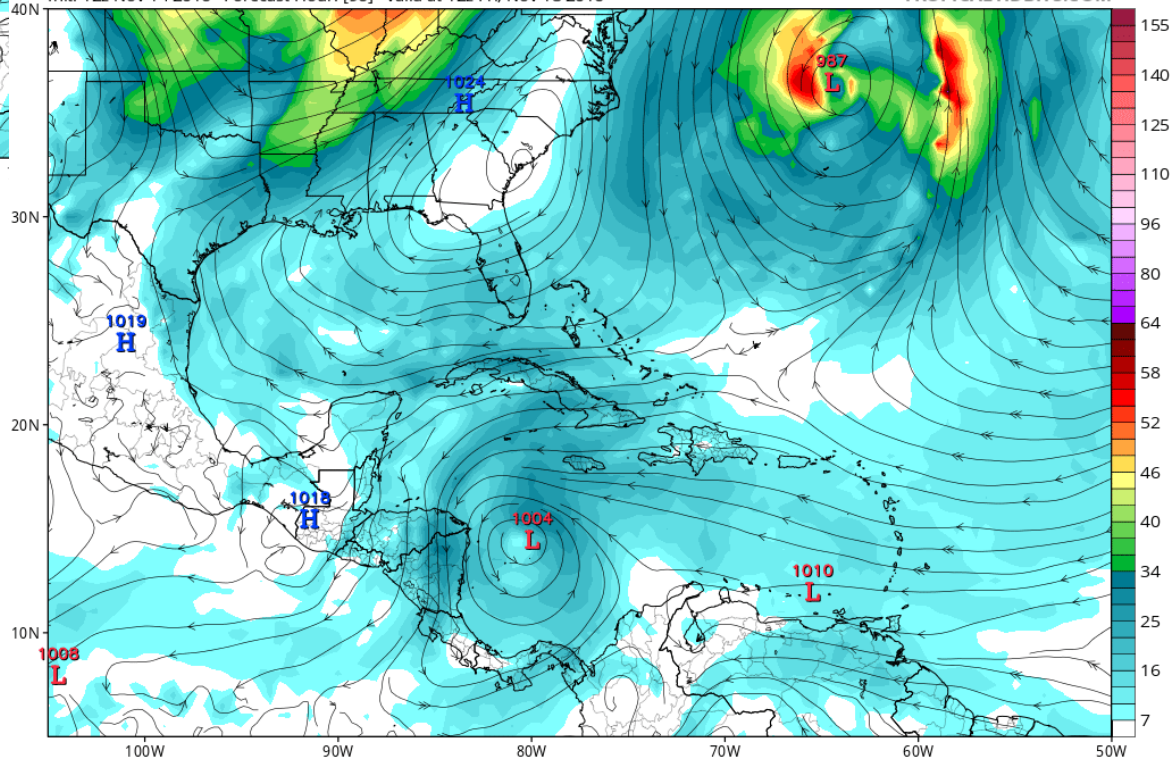


Model Forecast Comparison: Friday 7AM

On Friday, the GFS model keeps the system stationary, while the European model begins to carry it off to the north. Still, both models keep the system weak at this point.

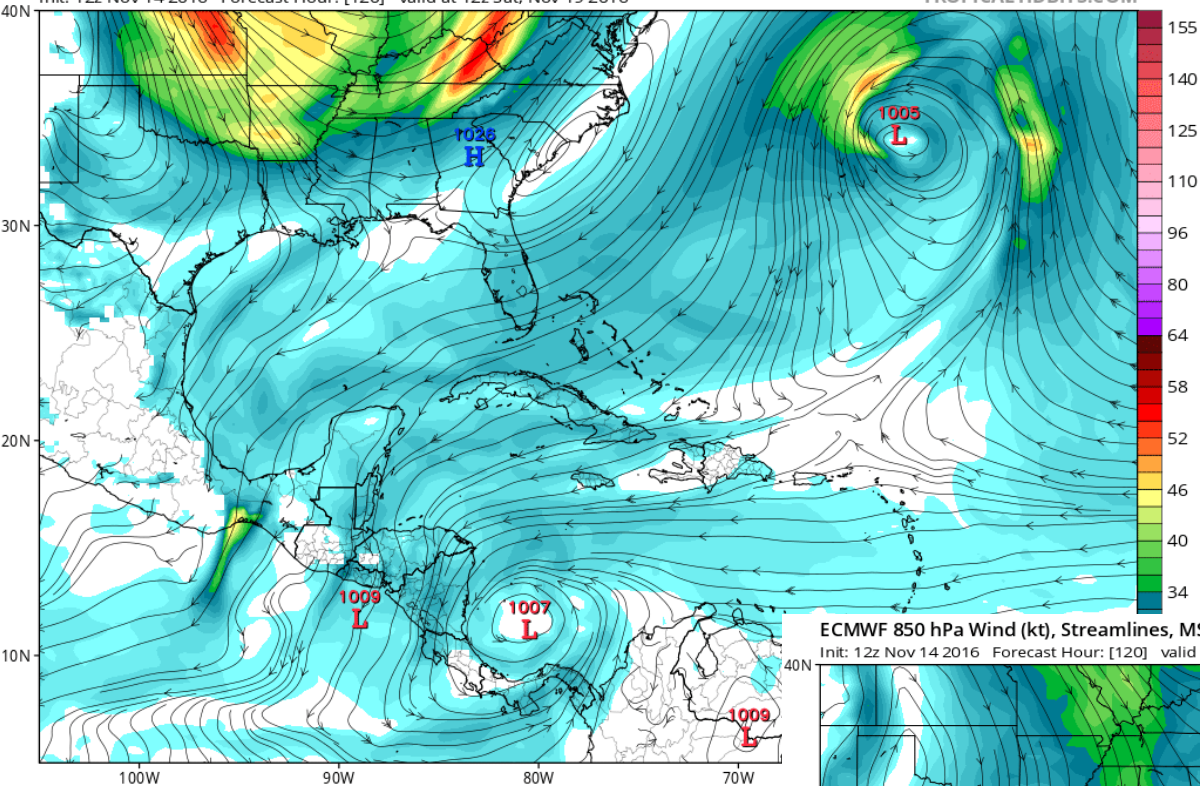
ECMWF 850 hPa Wind (kt), Streamlines, MSLP Centers (hPa)
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GFS 850 hPa Wind (kt), Streamlines, MSLP Centers (hPa)
Init: 12z Nov 14 2016 Forecast Hour: [120] valid at 12z Sat, Nov 19 2016

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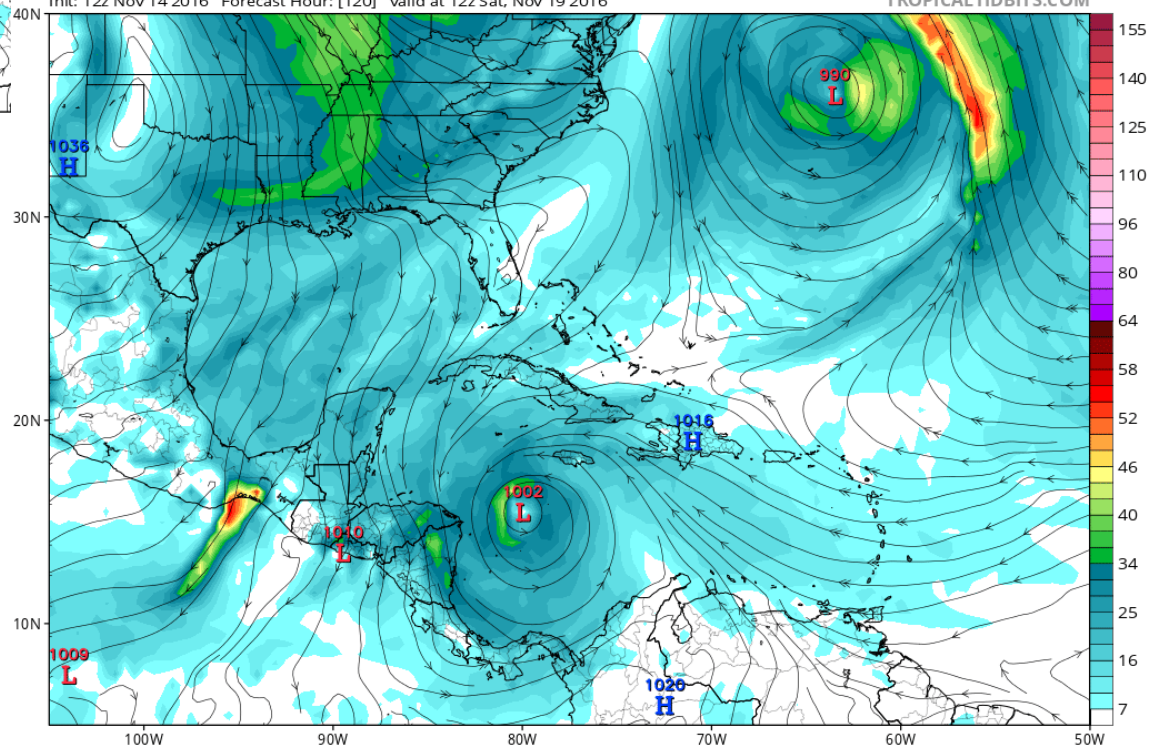


Model Forecast Comparison: Saturday 7AM

By Saturday, the GFS still has the weak system in the same location, however the European model is beginning to strengthen the system into a tropical storm. Both models do show a cold front moving through the Southeast U.S. that will likely move the system to the east during the start of next week.

ECMWF 850 hPa Wind (kt), Streamlines, MSLP Centers (hPa)
Init: 12z Nov 14 2016 Forecast Hour: [120] valid at 12z Sat, Nov 19 2016

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Tropical Summary:

- Surface pressures are slowly falling over the southwestern Caribbean Sea, and a broad low pressure system is expected to form in this area during the next day or two.
- Environmental conditions are forecast to be conducive for slow development of this disturbance, and a tropical depression could form by late this week or over the weekend while the low drifts northward or northeastward.
- Beyond this, there is not much information on this system as it has not yet been designated an official Invest Area by the National Hurricane Center.
- If development were to occur, it will take place late this week and into the weekend. Going into next week, a cold front is expected to move through the Southeast U.S. and push the tropical wave towards the eastern Caribbean Sea.
- It is still too early to tell what the tropical wave's exact track and strength will be beyond 72-96 hours.
- The next name on the Atlantic storm list is Otto.

Florida Outlook:

- It is too early to tell what, if any, impacts this tropical wave will have on Florida.

Another briefing packet will be issued on Tuesday morning. For more information, please visit the NHC website at www.nhc.noaa.gov.



TROPICAL UPDATE

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Florida Division of Emergency
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